



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 CANADA

Submitted By: Gerry Carlson  
Receiving Lab: Canada-Whitehorse  
Received: July 10, 2013  
Report Date: July 25, 2013  
Page: 1 of 6

## CERTIFICATE OF ANALYSIS

WHI13000112.1

### CLIENT JOB INFORMATION

Project: KSD  
Shipment ID: KSD-Soil2013-001  
P.O. Number  
Number of Samples: 148

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme 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.  
1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5  
CANADA

CC: Isaac Fage  
John Brock

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	148	Dry at 60C			WHI
SS80	147	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	148	1:1:1 Aqua Regia digestion ICP-MS analysis	15	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. Acme 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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 2 of 6

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1397489	Soil		0.9	31.1	28.6	144	0.6	12.3	16.4	930	4.09	9.1	0.6	18.1	2.6	20	0.6	0.7	0.5	39	0.18	0.085
1397490	Soil		1.1	36.5	24.6	153	0.7	13.4	24.0	1218	4.62	8.2	0.7	42.0	3.2	21	1.4	0.4	0.3	42	0.29	0.065
1397491	Soil		0.8	44.0	24.4	167	0.9	12.7	19.9	933	4.46	9.8	0.6	40.4	3.3	21	1.3	0.4	0.3	41	0.25	0.064
1264926	Soil		1.0	31.8	26.6	99	0.8	11.5	9.7	335	4.92	9.2	0.5	13.8	2.5	33	<0.1	0.6	0.3	51	0.05	0.053
1264927	Soil		0.5	34.4	27.6	128	0.5	13.5	10.5	497	3.70	11.1	0.6	17.3	2.4	10	0.2	0.5	0.2	50	0.14	0.025
1264928	Soil		0.5	45.2	7.3	58	0.3	21.9	10.0	349	3.06	7.2	0.5	9.3	2.5	11	<0.1	0.5	0.2	55	0.18	0.022
1264929	Soil		0.6	56.3	7.1	68	0.4	25.4	12.5	509	3.39	8.8	0.4	17.7	2.6	10	<0.1	0.5	0.2	59	0.19	0.042
1264930	Soil		0.5	75.4	7.2	73	0.4	24.1	13.4	515	3.89	10.3	0.5	22.4	2.2	8	<0.1	0.4	0.3	65	0.14	0.032
1264931	Soil		0.9	22.5	8.7	63	0.2	16.1	11.5	404	2.88	10.1	0.5	5.9	2.1	14	0.3	0.5	0.2	47	0.21	0.054
1264932	Soil		0.8	32.4	18.7	112	0.2	16.0	8.2	256	2.77	19.2	0.8	95.5	3.5	13	0.3	0.5	0.1	42	0.17	0.042
1397492	Soil		3.2	58.5	166.0	142	1.6	13.5	7.8	251	3.66	25.5	1.7	31.9	3.1	42	0.4	6.4	<0.1	37	0.20	0.064
1397493	Soil		0.6	21.1	10.3	68	<0.1	17.4	8.4	270	2.55	11.1	0.7	3.4	3.6	15	0.3	0.3	<0.1	42	0.26	0.072
1397494	Soil		0.7	27.6	11.2	82	0.3	23.7	8.9	319	3.16	14.3	1.1	3.5	4.2	21	0.3	0.4	0.1	54	0.29	0.069
1397495	Soil		1.0	27.2	15.4	65	0.3	20.6	6.8	204	2.62	16.4	1.1	3.5	1.0	16	0.3	0.2	0.1	42	0.19	0.065
1365346	Soil		0.2	15.8	25.5	86	0.4	15.0	10.5	754	3.40	26.7	0.8	7.5	4.6	28	0.3	0.2	0.2	49	0.39	0.089
1365344	Soil		0.3	13.9	11.9	86	0.1	9.6	7.3	592	3.04	28.2	0.8	14.5	6.1	14	0.3	0.4	<0.1	23	0.35	0.114
1365345	Soil		0.2	13.2	5.2	79	0.2	8.0	6.1	483	2.69	56.2	0.8	24.8	4.7	16	0.3	0.4	<0.1	19	0.31	0.101
1365348	Soil		0.3	29.9	11.4	87	0.5	28.9	16.1	936	3.67	75.2	1.1	10.3	4.6	11	0.5	0.2	<0.1	59	0.30	0.097
1365350	Soil		1.3	26.4	16.4	81	0.1	17.3	9.4	297	2.96	36.3	0.8	46.9	3.5	16	0.2	0.5	0.2	46	0.21	0.051
1365343	Soil		0.4	20.7	9.2	66	0.4	7.7	6.6	329	2.65	33.4	1.3	11.0	4.0	40	0.5	0.3	0.1	27	1.07	0.080
1365347	Soil		0.4	16.9	7.5	77	0.1	12.5	8.3	369	3.05	35.7	0.6	15.2	4.5	11	0.1	0.3	<0.1	38	0.18	0.058
1365349	Soil		1.2	31.2	17.9	109	0.2	20.0	8.1	334	3.10	90.2	0.8	10.0	4.1	13	0.3	0.6	0.2	40	0.15	0.039
1365352	Soil		0.6	19.8	13.6	72	0.2	15.0	7.3	268	2.74	53.5	0.7	7.7	3.0	13	0.3	0.5	<0.1	37	0.22	0.066
1365353	Soil		0.8	21.7	15.1	106	0.1	18.0	7.1	302	2.96	77.9	0.8	8.2	3.4	11	0.2	0.4	<0.1	36	0.17	0.052
1378155	Soil		0.8	73.6	75.9	217	0.3	5.5	2.5	274	4.83	2.9	0.7	28.2	4.8	27	0.3	0.4	<0.1	25	0.02	0.060
1365351	Rock Pulp		2.0	22.8	2.2	42	0.2	21.6	9.5	352	2.34	4.6	0.2	2.0	0.8	32	0.1	0.3	<0.1	56	0.73	0.054
1378156	Soil		1.4	25.6	16.2	60	0.5	17.8	9.3	213	3.58	13.2	1.0	9.0	4.7	12	<0.1	0.5	0.2	59	0.10	0.026
1378157	Soil		0.9	24.1	16.5	73	0.2	17.9	9.3	239	3.20	47.1	0.6	7.0	7.9	3	0.2	0.4	0.1	40	0.05	0.017
1378124	Soil		0.4	30.9	10.7	76	0.2	32.3	16.2	572	3.73	4.4	0.3	8.5	1.4	10	0.2	0.3	<0.1	66	0.20	0.042
1378160	Soil		1.5	54.2	12.6	82	<0.1	36.7	16.2	375	3.54	66.5	0.9	43.7	5.8	7	0.2	0.4	0.1	55	0.16	0.049

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 2 of 6

Part: 2 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
1397489	Soil	11	20	1.32	250	0.010	2	1.70	0.009	0.03	<0.1	0.02	4.1	<0.1	<0.05	5	0.6	<0.2
1397490	Soil	13	15	1.28	376	0.009	2	1.94	0.011	0.02	0.1	0.02	5.3	<0.1	<0.05	5	0.5	<0.2
1397491	Soil	14	12	1.36	241	0.005	2	1.75	0.006	0.02	<0.1	0.04	6.2	<0.1	<0.05	5	<0.5	<0.2
1264926	Soil	14	12	1.66	161	0.005	1	2.25	0.012	0.02	<0.1	0.02	6.3	<0.1	0.06	6	1.1	<0.2
1264927	Soil	10	17	1.82	596	0.010	2	2.20	0.004	0.01	<0.1	0.05	7.3	<0.1	<0.05	6	0.8	<0.2
1264928	Soil	9	37	1.08	205	0.023	1	1.81	0.005	0.02	0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
1264929	Soil	8	50	1.21	173	0.019	<1	1.88	0.004	0.02	0.1	0.01	6.9	<0.1	<0.05	5	0.9	<0.2
1264930	Soil	7	39	1.53	151	0.022	2	2.31	0.004	0.02	<0.1	0.03	8.2	<0.1	<0.05	6	<0.5	<0.2
1264931	Soil	9	24	0.69	227	0.028	2	1.43	0.005	0.03	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
1264932	Soil	13	22	0.82	257	0.026	2	1.54	0.005	0.02	0.1	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
1397492	Soil	12	20	0.92	224	0.016	1	1.39	0.013	0.08	0.1	4.79	3.5	<0.1	0.19	4	0.8	<0.2
1397493	Soil	14	25	1.01	246	0.034	2	1.53	0.004	0.04	0.2	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
1397494	Soil	16	31	1.14	327	0.033	1	1.94	0.005	0.04	0.1	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
1397495	Soil	18	26	0.94	301	0.020	<1	1.84	0.005	0.07	<0.1	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2
1365346	Soil	15	41	1.39	76	0.047	1	1.63	0.002	0.10	<0.1	0.02	9.3	0.2	<0.05	6	<0.5	<0.2
1365344	Soil	23	14	0.99	110	0.009	<1	1.35	0.002	0.06	<0.1	<0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
1365345	Soil	12	10	0.68	115	0.008	1	1.13	0.003	0.05	<0.1	<0.01	5.4	<0.1	<0.05	4	<0.5	<0.2
1365348	Soil	11	38	1.68	103	0.006	1	1.99	0.002	0.02	<0.1	<0.01	7.8	<0.1	<0.05	6	<0.5	<0.2
1365350	Soil	13	25	0.73	248	0.036	1	1.61	0.005	0.03	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1365343	Soil	14	15	0.93	230	0.011	3	1.35	0.006	0.07	<0.1	0.02	4.9	<0.1	0.08	5	0.9	<0.2
1365347	Soil	16	22	1.09	187	0.017	<1	1.73	0.003	0.04	<0.1	0.01	5.5	<0.1	<0.05	5	<0.5	<0.2
1365349	Soil	12	25	0.94	213	0.027	1	1.69	0.004	0.03	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
1365352	Soil	13	21	0.93	219	0.024	<1	1.53	0.003	0.03	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
1365353	Soil	13	22	0.91	205	0.023	<1	1.58	0.004	0.03	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
1378155	Soil	16	12	1.44	202	0.002	<1	1.84	0.011	0.06	<0.1	0.06	2.9	<0.1	0.12	5	0.5	<0.2
1365351	Rock Pulp	4	27	0.68	86	0.100	3	1.34	0.059	0.12	13.7	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
1378156	Soil	16	36	0.81	324	0.033	2	2.13	0.005	0.04	<0.1	0.04	4.6	<0.1	<0.05	6	<0.5	<0.2
1378157	Soil	23	29	1.34	168	0.047	1	1.87	0.002	0.04	<0.1	<0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
1378124	Soil	5	73	2.15	293	0.019	<1	2.50	0.002	0.02	<0.1	0.05	5.7	<0.1	<0.05	6	<0.5	<0.2
1378160	Soil	19	36	1.43	122	0.045	<1	1.78	0.002	0.02	<0.1	0.01	6.7	<0.1	<0.05	6	0.8	<0.2

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.

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1378161	Soil	0.8	21.0	10.6	65	0.3	17.2	9.1	270	3.06	18.5	0.4	4.5	3.9	7	0.2	0.3	<0.1	46	0.10	0.018
1378158	Soil	1.1	16.2	11.1	60	0.6	17.0	9.1	199	3.29	17.7	0.4	1.9	3.4	7	<0.1	0.4	0.1	64	0.09	0.025
1378121	Soil	1.0	33.8	11.6	89	<0.1	27.3	12.3	455	2.93	11.4	0.5	3.6	3.3	43	0.4	0.9	0.1	52	0.78	0.069
1378119	Soil	0.4	24.7	10.4	104	0.5	13.7	8.4	393	2.65	35.8	2.0	14.7	2.4	32	1.9	0.3	<0.1	35	0.58	0.087
1378123	Soil	1.9	40.6	76.0	159	0.3	19.5	16.9	756	3.68	9.8	0.8	7.5	3.0	19	0.6	0.4	0.3	48	0.27	0.078
1378125	Soil	0.5	31.1	12.9	84	0.2	29.3	16.3	673	3.71	4.6	0.3	10.5	1.6	12	0.3	0.3	0.2	70	0.23	0.052
1378122	Soil	2.1	74.9	53.9	252	1.0	9.2	20.4	808	7.04	17.7	1.5	31.1	3.2	17	2.2	0.6	0.4	59	0.27	0.098
1378153	Soil	0.5	30.5	7.4	81	0.2	19.2	15.1	1144	3.87	6.0	0.3	9.1	2.0	9	0.3	0.2	0.2	56	0.29	0.063
1378120	Soil	0.7	25.8	11.2	81	0.2	18.0	8.6	338	2.48	15.3	0.7	22.9	3.2	25	0.7	0.5	0.1	44	0.35	0.079
1378152	Soil	0.8	41.8	22.1	179	0.6	23.8	22.7	1682	3.53	5.3	0.6	22.9	3.6	10	1.2	0.2	0.2	45	0.26	0.089
1378111	Soil	0.7	27.7	9.1	86	0.1	20.5	9.5	346	3.20	63.9	1.1	12.3	4.2	16	0.2	0.4	0.1	49	0.29	0.066
1378110	Soil	0.8	18.9	14.4	83	0.1	14.1	7.3	216	2.51	52.0	0.7	9.6	3.2	13	0.1	0.4	<0.1	41	0.21	0.054
1378154	Soil	0.7	19.7	11.7	68	0.2	16.9	10.8	406	2.93	6.2	0.3	4.7	2.1	7	0.2	0.2	0.1	55	0.22	0.029
1378118	Soil	0.9	34.1	16.3	89	0.3	11.3	11.0	337	2.81	37.6	0.8	16.4	3.6	9	0.9	0.2	<0.1	43	0.28	0.057
1365355	Soil	1.0	25.8	13.0	84	0.1	21.2	8.0	277	2.75	80.8	0.6	6.6	4.3	10	0.2	0.5	0.1	43	0.14	0.054
1378112	Soil	0.7	27.7	8.2	71	0.1	20.1	12.1	364	2.87	65.4	0.6	9.0	3.7	15	0.1	0.4	<0.1	46	0.28	0.051
1378109	Soil	1.1	27.3	13.9	88	0.2	23.0	8.8	351	2.90	67.3	0.7	6.7	4.0	12	0.2	0.5	0.1	43	0.18	0.055
1365354	Soil	1.1	20.4	10.8	60	0.1	17.8	12.0	838	2.40	69.6	0.6	4.6	1.8	10	0.2	0.4	<0.1	36	0.15	0.072
1378114	Soil	0.6	17.3	17.8	89	<0.1	10.4	5.9	183	2.88	21.5	1.0	9.9	5.3	13	0.3	0.3	<0.1	35	0.30	0.106
1378116	Soil	1.4	37.6	26.4	108	0.1	29.8	15.6	672	3.38	87.5	0.9	4.2	4.7	17	0.5	0.7	0.1	48	0.25	0.063
1378113	Soil	0.6	20.9	11.8	96	0.1	14.3	7.7	299	3.16	58.1	1.0	9.1	4.6	16	0.2	0.3	<0.1	40	0.34	0.088
1378117	Soil	1.5	38.6	70.3	245	0.4	33.2	17.6	968	4.16	56.2	1.0	5.9	4.8	11	1.0	0.5	0.2	39	0.15	0.052
1278802	Soil	0.4	14.4	2.6	39	<0.1	9.1	10.0	425	3.21	6.3	0.3	111.8	2.4	9	<0.1	0.3	<0.1	40	0.17	0.053
1278804	Soil	0.8	20.7	4.5	42	<0.1	10.1	10.5	446	3.38	9.1	0.4	8.3	2.8	5	<0.1	0.3	0.1	47	0.11	0.048
1278803	Soil	0.7	20.9	6.0	43	0.1	13.4	8.4	296	2.54	7.9	0.7	12.6	3.4	9	<0.1	0.4	0.1	49	0.12	0.024
1378115	Soil	1.3	32.4	12.1	81	0.2	25.4	9.5	402	2.69	25.1	0.5	5.9	4.4	20	0.3	0.8	0.1	44	0.30	0.073
1278807	Soil	0.9	28.0	6.5	48	<0.1	17.5	9.2	358	2.56	7.8	0.7	7.6	3.6	14	<0.1	0.4	0.1	49	0.18	0.022
1278808	Soil	0.8	41.0	6.2	51	0.2	16.0	10.5	434	2.58	7.4	0.4	7.5	3.2	14	0.2	0.5	0.1	44	0.28	0.062
1278809	Soil	1.1	25.5	9.1	65	0.2	24.6	11.3	451	2.57	8.5	0.6	4.6	3.3	26	0.2	0.6	0.1	57	0.39	0.062
1278810	Soil	1.0	18.9	8.3	51	0.2	19.7	9.3	383	2.40	7.9	0.5	3.5	2.1	20	<0.1	0.5	0.1	52	0.30	0.052



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 3 of 6

Part: 2 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
1378161	Soil	14	30	1.19	224	0.030	2	1.95	0.003	0.04	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1378158	Soil	9	33	0.88	221	0.044	1	2.05	0.003	0.04	0.1	<0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
1378121	Soil	14	28	0.78	372	0.061	2	1.38	0.025	0.06	0.2	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
1378119	Soil	13	19	0.87	331	0.013	<1	1.50	0.004	0.04	<0.1	0.04	5.1	<0.1	0.09	4	0.9	<0.2
1378123	Soil	11	29	1.56	328	0.019	3	2.05	0.005	0.04	<0.1	0.24	4.5	<0.1	<0.05	6	<0.5	<0.2
1378125	Soil	6	65	2.17	305	0.028	<1	2.73	0.003	0.03	<0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
1378122	Soil	16	7	2.30	191	0.006	2	2.58	0.010	0.03	<0.1	0.60	7.7	<0.1	0.07	6	2.9	0.2
1378153	Soil	8	33	1.77	181	0.011	<1	2.35	0.003	0.03	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
1378120	Soil	16	24	0.74	242	0.048	1	1.43	0.012	0.07	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1378152	Soil	14	37	1.73	307	0.010	<1	2.13	0.003	0.03	<0.1	0.24	4.7	<0.1	<0.05	5	<0.5	<0.2
1378111	Soil	13	32	1.25	220	0.038	<1	2.04	0.005	0.03	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
1378110	Soil	13	22	1.00	217	0.027	<1	1.61	0.005	0.03	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1378154	Soil	8	30	1.18	189	0.016	<1	1.89	0.004	0.03	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
1378118	Soil	9	15	1.66	47	0.003	<1	1.90	0.003	0.02	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1365355	Soil	13	26	1.03	195	0.029	<1	1.91	0.004	0.03	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
1378112	Soil	12	27	1.28	211	0.033	<1	2.01	0.004	0.03	<0.1	0.01	5.3	<0.1	<0.05	5	<0.5	<0.2
1378109	Soil	13	28	1.25	214	0.027	<1	2.03	0.005	0.04	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
1365354	Soil	10	23	0.85	161	0.019	<1	1.38	0.003	0.03	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
1378114	Soil	17	22	2.05	161	0.016	<1	2.13	0.002	0.01	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
1378116	Soil	11	28	0.99	223	0.032	<1	1.88	0.005	0.04	<0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
1378113	Soil	17	25	1.96	198	0.027	<1	2.34	0.004	0.02	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
1378117	Soil	12	26	1.47	172	0.004	<1	1.95	0.002	0.02	<0.1	0.04	3.0	<0.1	<0.05	5	0.5	<0.2
1278802	Soil	8	9	1.01	127	0.027	<1	1.64	0.003	0.02	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1278804	Soil	5	13	0.92	114	0.028	<1	1.84	0.003	0.02	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1278803	Soil	13	21	0.65	176	0.038	<1	1.54	0.005	0.02	0.1	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
1378115	Soil	13	31	0.73	430	0.039	<1	1.31	0.011	0.04	0.2	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
1278807	Soil	13	24	0.71	262	0.038	<1	1.62	0.007	0.03	0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
1278808	Soil	11	18	0.78	236	0.031	<1	1.39	0.008	0.03	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
1278809	Soil	15	32	0.66	321	0.042	<1	1.54	0.012	0.04	0.3	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
1278810	Soil	13	28	0.53	277	0.030	<1	1.53	0.010	0.04	0.2	0.03	3.5	0.1	<0.05	5	<0.5	<0.2

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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 4 of 6

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1264941	Soil		1.0	22.1	6.2	42	0.3	16.7	15.0	1199	2.57	8.0	0.5	4.1	2.4	16	0.1	0.3	0.1	49	0.29	0.041
1264940	Soil		0.5	10.9	3.4	35	0.1	11.2	9.4	589	2.43	8.4	0.4	3.5	3.0	7	<0.1	0.1	<0.1	31	0.24	0.087
1278805	Soil		0.7	18.0	6.0	40	<0.1	14.8	9.6	324	3.07	9.1	0.4	18.7	2.7	7	<0.1	0.4	0.1	51	0.10	0.043
1278806	Soil		1.0	25.0	8.0	48	0.1	16.5	9.5	362	2.70	9.0	0.7	4.5	3.7	12	<0.1	0.4	0.1	58	0.13	0.022
1278815	Soil		0.7	22.3	7.0	43	0.1	13.7	9.4	351	2.63	9.1	0.6	4.2	3.8	12	<0.1	0.4	0.2	46	0.19	0.042
1264944	Soil		0.7	24.3	5.7	46	<0.1	18.7	11.2	333	2.34	7.1	0.5	3.9	2.5	15	<0.1	0.3	0.1	48	0.22	0.029
1264950	Soil		0.7	13.8	6.0	41	<0.1	12.3	7.5	282	2.44	8.1	0.6	23.3	3.2	6	<0.1	0.4	0.1	46	0.08	0.038
1264942	Soil		0.6	19.8	4.8	37	<0.1	14.4	12.9	395	2.17	7.1	0.3	3.8	1.7	10	0.1	0.3	<0.1	41	0.18	0.029
1278814	Soil		1.1	21.8	7.9	48	0.3	16.7	10.0	424	2.59	7.5	0.5	3.2	3.1	16	<0.1	0.4	0.1	56	0.23	0.041
1278811	Soil		0.7	19.3	6.9	44	0.2	15.2	7.9	319	2.68	9.3	0.5	18.4	3.4	11	0.1	0.3	0.1	49	0.20	0.059
1264946	Soil		0.7	20.6	6.3	49	<0.1	16.7	11.0	318	2.42	7.4	0.5	16.0	2.6	13	<0.1	0.4	<0.1	52	0.20	0.024
1264949	Soil		0.7	16.2	5.4	43	<0.1	14.2	9.9	315	2.67	7.9	0.6	5.2	3.5	7	<0.1	0.3	0.1	51	0.09	0.021
1278817	Soil		1.1	23.8	9.0	53	0.3	20.2	9.7	358	2.69	10.2	0.5	3.9	3.5	20	<0.1	0.6	0.2	53	0.38	0.029
1278812	Soil		0.9	18.0	7.7	52	0.1	18.3	9.5	357	2.35	8.3	0.6	4.2	2.2	17	0.1	0.4	0.1	49	0.24	0.057
1264945	Soil		1.1	23.9	8.6	53	0.1	19.6	11.2	326	2.53	9.5	0.6	4.4	2.7	16	<0.1	0.5	0.1	51	0.23	0.028
1264948	Soil		0.6	14.8	6.2	45	0.1	15.0	9.0	298	2.44	9.3	0.5	9.2	2.7	11	<0.1	0.4	0.1	50	0.16	0.045
1278816	Soil		0.7	22.6	6.3	46	<0.1	15.8	9.4	459	2.34	7.8	0.7	9.8	2.8	12	0.1	0.4	0.1	46	0.16	0.032
1278813	Soil		0.9	20.7	7.7	57	0.1	20.0	8.8	330	2.39	8.2	0.6	3.7	2.4	21	0.1	0.5	0.2	54	0.33	0.066
1264943	Soil		0.6	23.1	5.2	42	0.2	16.4	11.1	294	2.30	6.5	0.6	2.4	2.3	14	<0.1	0.3	<0.1	46	0.21	0.032
1264947	Soil		0.6	20.2	5.7	49	<0.1	16.1	10.7	378	2.64	7.8	0.6	3.7	2.8	12	<0.1	0.4	<0.1	53	0.17	0.027
1264920	Soil		0.9	24.8	8.4	41	0.9	14.0	10.9	443	2.76	32.0	0.8	17.5	3.1	13	0.1	0.3	1.4	38	0.46	0.068
1264921	Soil		1.4	38.1	14.8	55	1.6	11.5	12.3	767	2.81	64.0	0.7	13.6	3.0	10	0.2	0.4	1.8	44	0.27	0.065
1278819	Soil		0.7	18.1	6.9	46	<0.1	13.6	9.0	324	2.74	8.8	0.6	10.2	3.3	12	<0.1	0.4	0.2	47	0.17	0.040
1278818	Soil		0.6	15.8	4.5	42	0.1	9.9	9.2	342	3.04	8.3	0.5	23.9	2.4	8	<0.1	0.3	0.2	46	0.13	0.040
1264908	Soil		1.0	20.4	10.2	53	0.2	18.9	9.4	373	2.37	8.4	0.6	18.3	2.6	17	0.1	0.4	0.2	53	0.27	0.053
1264918	Soil		0.5	31.9	7.3	44	0.8	16.8	14.8	486	2.85	23.7	0.5	14.0	1.7	20	0.2	0.2	0.8	54	0.70	0.061
1264917	Soil		0.8	31.5	9.9	79	0.4	17.3	12.0	339	2.76	12.9	0.8	12.0	2.2	17	0.6	0.3	0.3	57	0.30	0.054
1264924	Soil		1.0	31.6	8.5	45	0.7	19.6	11.8	951	3.39	37.1	1.7	9.0	11.5	12	0.4	0.3	0.7	19	0.35	0.110
1264905	Soil		0.7	16.8	4.5	34	0.3	6.7	8.6	835	3.05	7.6	0.3	11.2	1.8	12	0.1	0.2	0.1	50	0.28	0.079
1379928	Soil		0.8	31.0	10.2	75	0.5	18.0	13.3	436	2.67	11.4	1.0	11.8	2.3	22	0.5	0.4	0.4	51	0.43	0.058

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.



A Bureau Veritas Group Company

www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 CANADA

Project: KSD

Report Date: July 25, 2013

Page: 4 of 6

Part: 2 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1264941	Soil	9	23	0.85	317	0.027	<1	1.82	0.007	0.04	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
1264940	Soil	8	25	0.93	143	0.022	<1	1.50	0.003	0.03	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1278805	Soil	8	20	0.65	125	0.031	<1	1.79	0.004	0.03	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
1278806	Soil	13	29	0.66	229	0.041	<1	1.71	0.006	0.03	0.2	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2
1278815	Soil	13	20	0.63	197	0.030	<1	1.58	0.005	0.03	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
1264944	Soil	9	24	0.88	222	0.040	<1	1.46	0.006	0.02	0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1264950	Soil	10	20	0.57	127	0.031	<1	1.45	0.004	0.02	0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
1264942	Soil	6	18	0.86	133	0.034	<1	1.48	0.004	0.02	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1278814	Soil	12	24	0.64	220	0.034	<1	1.76	0.009	0.03	0.2	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1278811	Soil	17	21	0.62	155	0.028	<1	1.53	0.005	0.03	0.2	0.05	4.4	<0.1	<0.05	4	<0.5	<0.2
1264946	Soil	9	22	0.88	196	0.042	<1	1.61	0.006	0.02	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
1264949	Soil	9	22	0.83	146	0.042	<1	1.83	0.004	0.02	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
1278817	Soil	12	30	0.62	316	0.047	<1	1.61	0.011	0.04	0.2	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
1278812	Soil	13	27	0.59	251	0.032	<1	1.47	0.008	0.03	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
1264945	Soil	10	28	0.84	229	0.044	<1	1.57	0.007	0.03	0.1	0.03	3.4	<0.1	<0.05	3	<0.5	<0.2
1264948	Soil	11	22	0.68	203	0.035	<1	1.44	0.005	0.03	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
1278816	Soil	13	24	0.59	247	0.034	<1	1.35	0.006	0.02	0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
1278813	Soil	14	28	0.60	290	0.035	<1	1.45	0.011	0.04	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
1264943	Soil	9	23	0.87	194	0.038	<1	1.50	0.006	0.03	0.1	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
1264947	Soil	11	24	0.96	222	0.043	<1	1.65	0.005	0.02	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
1264920	Soil	9	24	0.94	94	0.011	<1	1.28	0.003	0.02	<0.1	0.02	3.9	<0.1	<0.05	4	0.9	0.7
1264921	Soil	13	16	0.77	141	0.006	<1	1.24	0.003	0.02	<0.1	0.05	3.6	<0.1	<0.05	4	0.5	0.7
1278819	Soil	12	20	0.77	207	0.035	<1	1.53	0.005	0.03	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
1278818	Soil	9	13	0.88	143	0.029	<1	1.70	0.004	0.02	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
1264908	Soil	14	27	0.57	256	0.038	1	1.48	0.008	0.04	0.2	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
1264918	Soil	7	36	1.36	100	0.018	<1	1.70	0.005	0.02	<0.1	0.03	5.0	<0.1	<0.05	5	0.5	0.5
1264917	Soil	14	27	0.97	303	0.018	<1	1.72	0.006	0.03	0.1	0.04	5.6	<0.1	0.07	5	0.6	<0.2
1264924	Soil	31	19	0.75	109	0.003	<1	1.03	0.002	0.03	<0.1	<0.01	3.4	<0.1	<0.05	3	0.7	0.3
1264905	Soil	9	9	0.96	154	0.013	<1	1.63	0.004	0.05	0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
1379928	Soil	13	25	0.95	271	0.021	1	1.71	0.007	0.03	0.1	0.04	5.2	<0.1	0.08	5	0.8	<0.2



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 5 of 6

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1264923	Soil		1.0	27.7	8.6	38	0.7	10.6	11.4	656	2.77	67.0	1.1	9.0	4.6	10	0.2	0.3	0.9	28	0.25	0.065
1264925	Soil		0.8	26.8	7.7	40	0.7	14.9	9.1	429	2.66	34.7	1.6	6.2	7.2	14	0.2	0.3	0.5	21	0.41	0.069
1264906	Soil		0.7	25.6	5.4	37	0.2	10.1	11.4	348	3.11	7.4	0.4	6.5	1.0	15	0.1	0.3	0.1	52	0.36	0.067
1379927	Soil		0.9	18.4	5.7	37	0.4	11.5	6.4	230	1.82	35.3	1.5	8.4	3.1	15	0.2	0.2	0.3	24	0.35	0.064
1379926	Soil		0.6	23.8	5.8	44	0.6	13.6	10.6	589	2.07	16.8	1.1	5.3	3.0	22	0.2	0.2	0.4	30	0.72	0.048
1264922	Soil		1.6	63.1	10.0	47	0.9	11.5	11.4	431	3.69	268.2	1.2	20.8	5.1	14	0.3	0.6	1.2	22	0.32	0.100
1379936	Soil		0.9	13.6	8.1	46	<0.1	13.9	8.9	341	2.63	9.0	0.6	5.9	2.3	10	<0.1	0.3	0.2	52	0.12	0.041
1264915	Soil		0.8	14.2	8.3	47	0.1	23.5	9.4	434	2.50	8.1	0.5	3.1	3.2	14	0.1	0.3	0.1	50	0.34	0.087
1264912	Soil		1.0	25.5	8.7	54	<0.1	19.0	10.1	392	3.03	9.2	0.5	11.2	3.2	15	0.1	0.5	0.2	55	0.26	0.052
1264911	Soil		0.9	25.1	8.4	54	0.1	19.5	10.6	423	3.00	9.0	0.5	10.2	3.2	16	<0.1	0.5	0.1	54	0.27	0.053
1379929	Soil		0.9	21.8	7.1	51	0.2	17.8	15.0	551	2.52	8.2	0.6	5.8	2.2	19	0.1	0.4	0.1	51	0.43	0.036
1379932	Soil		0.6	17.6	5.6	55	0.2	16.2	10.1	473	2.73	7.5	0.5	35.5	3.1	13	0.1	0.3	0.1	45	0.23	0.070
1264910	Soil		1.1	28.6	9.5	56	0.2	15.9	9.4	394	2.94	9.4	0.5	6.6	3.3	14	0.2	0.5	0.3	46	0.24	0.059
1264916	Soil		0.5	54.0	7.9	70	0.4	19.9	11.8	726	2.95	6.9	0.6	10.6	5.0	11	0.3	0.3	0.2	53	0.35	0.094
1379933	Soil		0.8	15.7	7.2	46	0.1	15.8	10.9	436	2.46	8.8	0.5	38.5	2.0	15	<0.1	0.4	0.1	50	0.24	0.055
1379935	Soil		0.3	26.2	2.4	56	<0.1	9.6	8.0	599	2.63	5.2	0.3	4.0	2.3	10	0.2	0.2	0.2	44	0.25	0.075
1264914	Soil		0.8	22.0	7.2	47	0.2	15.6	10.1	609	2.47	7.5	0.6	4.0	2.8	13	<0.1	0.4	0.1	48	0.25	0.049
1264913	Soil		1.1	21.3	8.1	52	0.1	18.2	11.0	481	2.71	9.0	0.6	3.7	3.3	16	<0.1	0.5	0.1	50	0.27	0.060
1379931	Soil		1.0	21.9	13.4	48	0.1	17.7	11.5	347	2.76	8.7	0.7	4.5	2.7	16	<0.1	0.5	0.2	45	0.21	0.034
1379934	Soil		0.7	14.6	6.8	44	<0.1	14.1	9.0	304	2.67	8.8	0.6	6.2	3.1	10	0.1	0.5	0.2	42	0.13	0.036
1264907	Soil		1.0	18.2	9.9	53	0.2	17.4	8.3	291	2.58	8.7	0.6	4.9	2.5	20	0.1	0.4	0.2	50	0.36	0.050
1264909	Soil		0.5	30.8	5.2	59	0.2	17.2	11.9	525	3.42	8.3	0.5	112.5	2.8	12	<0.1	0.4	0.3	53	0.28	0.074
1399079	Soil		1.5	35.5	15.8	86	0.2	27.2	13.3	573	4.28	15.7	1.3	2.2	5.7	22	0.1	0.2	0.2	60	0.29	0.081
1399080	Soil		1.3	36.5	12.4	66	<0.1	27.9	10.7	404	3.19	26.3	1.2	76.1	5.8	16	<0.1	0.6	0.2	55	0.19	0.036
1399085	Soil		0.5	44.5	9.4	104	0.6	34.1	17.3	1081	3.79	7.5	0.5	10.8	1.8	21	0.6	0.3	0.2	77	0.65	0.048
1379930	Soil		0.7	15.8	8.3	42	0.1	13.7	9.5	317	2.30	7.6	0.6	6.0	2.5	16	0.2	0.3	<0.1	42	0.27	0.039
1399060	Soil		1.7	39.8	17.1	87	0.2	26.8	10.8	316	3.77	15.5	1.7	3.3	6.4	18	0.1	0.3	0.1	46	0.11	0.033
1399076	Soil		1.0	22.8	9.5	65	0.2	19.7	10.1	520	3.29	20.0	0.6	1.1	3.6	8	0.1	0.3	0.1	45	0.12	0.047
1399086	Soil		0.8	38.5	13.2	89	0.5	44.1	26.9	1559	3.69	6.8	0.4	10.2	2.1	9	1.0	0.3	0.2	85	0.21	0.050
1399081	Soil		0.6	19.8	9.9	80	0.2	19.3	10.9	521	2.77	18.2	0.7	3.8	3.1	34	0.3	0.3	0.2	53	0.54	0.073

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.





www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 5 of 6

Part: 2 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1264923	Soil	14	14	0.72	173	0.010	<1	1.27	0.003	0.02	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	0.3
1264925	Soil	24	18	0.69	129	0.007	<1	1.04	0.003	0.03	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
1264906	Soil	9	14	0.80	141	0.019	<1	1.59	0.005	0.03	0.2	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
1379927	Soil	13	13	0.48	196	0.011	<1	0.94	0.004	0.03	0.1	0.04	2.1	<0.1	0.08	3	<0.5	<0.2
1379926	Soil	10	22	0.75	204	0.009	<1	1.18	0.004	0.03	<0.1	0.04	2.9	<0.1	0.07	3	0.6	<0.2
1264922	Soil	11	12	0.79	92	0.008	<1	1.27	0.005	0.02	<0.1	0.01	2.9	<0.1	0.07	4	1.5	0.4
1379936	Soil	11	23	0.65	194	0.031	<1	1.65	0.005	0.03	0.2	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
1264915	Soil	33	38	0.85	185	0.025	<1	1.62	0.005	0.03	0.2	0.02	5.3	<0.1	<0.05	4	<0.5	<0.2
1264912	Soil	12	28	0.93	271	0.036	<1	1.80	0.008	0.03	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
1264911	Soil	13	33	0.91	264	0.039	<1	1.63	0.008	0.03	0.2	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
1379929	Soil	11	25	0.86	209	0.034	<1	1.67	0.006	0.03	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
1379932	Soil	12	23	0.98	166	0.031	<1	1.57	0.006	0.02	0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
1264910	Soil	11	22	0.81	229	0.032	<1	1.48	0.007	0.02	0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
1264916	Soil	25	38	1.23	124	0.013	<1	1.73	0.004	0.02	0.1	0.03	9.6	<0.1	<0.05	5	<0.5	<0.2
1379933	Soil	11	23	0.74	199	0.035	<1	1.52	0.005	0.03	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
1379935	Soil	7	18	1.08	139	0.015	<1	1.51	0.003	<0.01	<0.1	<0.01	5.6	<0.1	<0.05	5	<0.5	<0.2
1264914	Soil	13	23	0.67	260	0.032	<1	1.48	0.006	0.03	0.2	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2
1264913	Soil	12	25	0.73	260	0.038	<1	1.51	0.008	0.03	0.2	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
1379931	Soil	10	23	0.77	254	0.037	2	1.56	0.005	0.02	0.2	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
1379934	Soil	10	21	0.66	169	0.037	2	1.38	0.004	0.02	0.2	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1264907	Soil	13	27	0.53	242	0.033	2	1.45	0.007	0.03	0.3	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
1264909	Soil	14	39	1.30	126	0.019	1	1.67	0.003	0.02	<0.1	<0.01	7.6	<0.1	<0.05	5	0.7	<0.2
1399079	Soil	13	32	1.92	145	0.054	<1	2.01	0.004	0.04	<0.1	<0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
1399080	Soil	20	32	0.86	372	0.039	1	1.54	0.006	0.04	0.1	0.02	6.4	<0.1	<0.05	5	<0.5	<0.2
1399085	Soil	8	69	1.63	332	0.015	2	2.28	0.004	0.02	<0.1	0.03	8.4	<0.1	<0.05	6	<0.5	<0.2
1379930	Soil	10	21	0.62	201	0.036	2	1.33	0.006	0.03	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
1399060	Soil	15	32	1.85	223	0.058	2	2.11	0.004	0.04	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
1399076	Soil	8	25	1.16	208	0.040	1	1.59	0.003	0.05	<0.1	<0.01	3.1	<0.1	<0.05	5	1.1	<0.2
1399086	Soil	8	102	1.72	291	0.017	2	2.22	0.003	0.02	<0.1	0.02	10.8	<0.1	<0.05	6	<0.5	<0.2
1399081	Soil	14	25	1.07	307	0.027	1	1.68	0.006	0.06	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2

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.

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1399061	Soil	0.8	28.0	11.9	63	0.1	24.4	10.8	323	2.94	24.7	0.8	6.0	3.9	21	0.1	0.5	0.1	58	0.25	0.022
1399078	Soil	1.2	40.0	13.8	97	0.1	33.2	14.7	607	4.08	19.2	1.1	3.2	7.0	20	0.2	0.4	<0.1	58	0.22	0.071
1399087	Soil	0.5	79.6	10.3	88	0.5	32.4	20.5	1185	4.66	8.4	0.3	24.7	3.0	13	0.2	0.5	0.3	90	0.28	0.060
1399082	Soil	1.0	32.7	25.9	103	0.3	24.5	12.2	441	3.25	16.4	1.2	11.8	4.9	27	0.5	0.6	0.1	58	0.33	0.071
1399062	Soil	0.7	40.3	10.8	75	<0.1	30.6	13.4	365	3.36	71.7	0.6	5.4	4.1	12	<0.1	0.5	<0.1	57	0.18	0.033
1399077	Soil	0.8	27.4	5.9	79	0.1	20.9	9.2	446	3.65	11.6	0.8	2.2	5.3	11	0.1	0.2	<0.1	59	0.14	0.040
1399088	Soil	0.4	53.0	6.7	77	0.2	15.9	13.5	750	4.02	8.5	0.5	9.7	2.5	11	0.2	0.4	0.2	67	0.27	0.063
1399084	Soil	0.9	33.4	63.6	249	0.5	9.9	7.7	478	4.37	5.9	0.7	11.1	3.0	34	0.5	0.4	0.2	59	0.13	0.062
1399089	Soil	1.0	35.3	12.4	81	0.1	23.8	18.2	814	4.16	15.6	0.5	9.9	2.2	11	0.2	0.5	0.2	71	0.18	0.064
1399066	Soil	17.0	131.1	104.6	329	1.1	20.4	8.7	228	4.61	7.1	4.1	156.4	9.8	15	1.0	0.7	0.2	29	0.05	0.074
1399068	Soil	1.8	19.0	18.9	65	0.3	20.4	10.5	229	3.23	8.9	0.6	8.6	3.9	9	0.1	0.5	0.2	58	0.07	0.023
1399069	Soil	1.0	22.1	16.6	66	0.3	15.4	7.3	248	2.63	21.0	1.0	8.3	6.9	12	0.1	0.4	0.2	35	0.17	0.046
1399090	Soil	1.1	34.1	26.6	89	0.4	19.7	8.8	290	2.86	15.1	1.0	77.9	2.6	22	0.6	0.5	0.2	48	0.28	0.065
1399064	Soil	1.1	26.1	10.3	73	<0.1	18.8	11.3	328	3.22	17.5	0.9	9.1	4.5	8	0.1	0.4	<0.1	46	0.12	0.023
1399067	Soil	1.7	90.2	500.0	334	1.2	10.7	6.5	330	4.34	7.3	0.5	83.6	3.5	10	0.6	1.0	0.1	53	0.06	0.046
1399071	Soil	1.2	51.1	14.1	71	0.2	28.4	15.0	482	3.72	36.8	0.8	14.2	5.2	12	0.1	0.5	<0.1	59	0.17	0.030
1399091	Soil	1.6	40.4	43.2	150	0.5	25.4	11.9	353	3.36	24.4	0.9	32.2	5.0	19	0.3	0.6	0.2	48	0.23	0.044
1399063	Soil	0.7	22.9	9.6	58	0.2	20.0	10.7	269	2.89	11.6	0.5	1.8	3.0	13	0.1	0.4	<0.1	49	0.15	0.019
1399065	Soil	4.3	29.1	32.4	114	0.2	12.5	9.3	286	3.51	6.0	1.3	90.3	5.3	20	0.3	0.4	0.1	33	0.14	0.053
1399070	Soil	0.6	29.3	10.1	63	0.2	23.7	11.5	315	3.16	15.8	0.6	6.0	3.2	13	<0.1	0.3	<0.1	57	0.14	0.013
1399092	Soil	1.1	33.3	26.2	108	0.3	19.6	9.6	380	3.26	30.8	0.8	21.9	4.3	15	0.2	0.7	0.2	42	0.19	0.045
1399093	Soil	0.9	32.7	25.2	93	0.3	17.7	7.9	280	2.79	24.9	0.9	153.9	4.6	14	0.2	0.5	0.1	38	0.20	0.037
1399094	Soil	1.3	32.1	20.8	70	0.3	26.4	11.4	507	3.17	23.8	1.1	8.3	3.8	26	0.1	0.7	0.1	52	0.36	0.062
1399073	Soil	1.6	42.4	15.3	89	0.2	24.2	8.0	353	4.06	9.8	2.4	1.8	7.6	21	0.2	0.2	<0.1	48	0.23	0.075
1399075	Soil	1.2	32.3	12.1	74	0.2	23.0	9.3	357	3.07	30.0	0.9	7.1	4.9	11	0.2	0.4	0.1	46	0.12	0.035
1399074	Soil	0.9	37.1	12.5	82	<0.1	28.0	10.8	448	3.50	33.1	0.9	11.0	5.5	11	0.1	0.3	<0.1	49	0.17	0.047
1399072	Soil	0.9	20.7	10.1	63	0.3	17.6	9.7	334	2.80	17.9	0.5	5.6	3.4	9	<0.1	0.3	<0.1	44	0.11	0.019
1264919	Soil	0.4	24.3	10.6	36	0.9	12.0	7.7	262	2.10	22.9	1.1	17.4	2.7	29	0.2	0.3	1.9	31	0.85	0.053



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 6 of 6

Part: 2 of 1

# CERTIFICATE OF ANALYSIS

WHI13000112.1

Method Analyte Unit MDL	1DX15																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1399061	Soil	14	41	1.17	353	0.067	<1	1.87	0.007	0.04	0.1	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2
1399078	Soil	22	36	1.99	202	0.056	<1	2.31	0.003	0.08	<0.1	0.02	4.1	<0.1	<0.05	7	<0.5	<0.2
1399087	Soil	12	51	2.23	187	0.020	2	2.98	0.006	0.03	<0.1	0.02	9.7	<0.1	<0.05	8	<0.5	<0.2
1399082	Soil	19	33	1.41	313	0.034	<1	2.10	0.007	0.06	0.2	0.17	5.4	<0.1	<0.05	6	<0.5	<0.2
1399062	Soil	13	42	1.38	215	0.044	2	1.72	0.004	0.03	<0.1	0.04	6.2	<0.1	<0.05	5	<0.5	<0.2
1399077	Soil	13	24	1.11	199	0.061	<1	1.53	0.005	0.12	<0.1	<0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
1399088	Soil	9	26	1.35	165	0.021	2	2.07	0.012	0.02	0.1	0.02	6.7	<0.1	<0.05	6	<0.5	<0.2
1399084	Soil	12	14	1.87	172	0.010	<1	2.28	0.011	0.03	<0.1	0.53	5.1	<0.1	0.08	6	1.3	<0.2
1399089	Soil	9	41	1.15	204	0.025	2	1.88	0.004	0.02	0.2	0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
1399066	Soil	14	21	0.68	151	0.006	<1	1.37	0.007	0.03	0.1	0.35	8.3	<0.1	<0.05	3	3.3	<0.2
1399068	Soil	11	36	0.86	233	0.055	<1	2.07	0.006	0.04	0.2	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
1399069	Soil	23	21	0.84	260	0.051	1	1.37	0.003	0.06	0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
1399090	Soil	15	27	0.62	304	0.034	1	1.63	0.006	0.03	0.2	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
1399064	Soil	13	35	1.28	174	0.089	<1	1.82	0.003	0.02	0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
1399067	Soil	8	20	1.01	283	0.017	<1	2.45	0.005	0.03	<0.1	0.64	3.5	<0.1	<0.05	6	0.5	<0.2
1399071	Soil	15	47	1.54	203	0.077	1	1.99	0.004	0.03	<0.1	0.04	8.6	<0.1	<0.05	6	0.5	<0.2
1399091	Soil	14	33	0.86	337	0.043	2	1.77	0.008	0.03	0.1	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
1399063	Soil	10	37	1.01	226	0.091	1	1.65	0.008	0.04	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
1399065	Soil	14	20	0.94	200	0.042	<1	1.47	0.009	0.03	0.1	0.08	5.5	<0.1	<0.05	5	<0.5	<0.2
1399070	Soil	11	43	1.39	194	0.098	<1	1.90	0.003	0.03	0.1	0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
1399092	Soil	15	24	0.73	314	0.035	<1	1.53	0.004	0.03	0.1	0.03	4.5	<0.1	<0.05	5	0.7	<0.2
1399093	Soil	15	23	0.66	269	0.040	<1	1.47	0.011	0.03	0.1	0.03	4.1	<0.1	<0.05	4	0.9	<0.2
1399094	Soil	15	33	0.71	383	0.041	<1	1.65	0.010	0.04	0.2	0.06	5.1	<0.1	<0.05	5	<0.5	<0.2
1399073	Soil	10	31	1.79	125	0.093	<1	1.90	0.003	0.03	<0.1	<0.01	3.1	<0.1	<0.05	6	0.6	<0.2
1399075	Soil	17	30	1.40	242	0.033	<1	1.92	0.005	0.05	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
1399074	Soil	16	31	1.87	218	0.029	<1	2.28	0.004	0.04	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
1399072	Soil	10	33	1.20	159	0.068	<1	1.79	0.004	0.03	<0.1	<0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
1264919	Soil	13	17	0.85	189	0.010	1	1.30	0.006	0.02	<0.1	0.03	4.0	<0.1	<0.05	4	0.6	0.7



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 1 of 2

Part: 1 of 1

# QUALITY CONTROL REPORT

WHI13000112.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1264927	Soil	0.5	34.4	27.6	128	0.5	13.5	10.5	497	3.70	11.1	0.6	17.3	2.4	10	0.2	0.5	0.2	50	0.14	0.025
REP 1264927	QC	0.5	36.3	26.3	132	0.4	14.9	11.0	501	3.68	10.8	0.6	19.9	2.3	11	0.2	0.5	0.2	50	0.14	0.023
1378156	Soil	1.4	25.6	16.2	60	0.5	17.8	9.3	213	3.58	13.2	1.0	9.0	4.7	12	<0.1	0.5	0.2	59	0.10	0.026
REP 1378156	QC	1.6	25.3	16.0	60	0.6	18.1	8.9	214	3.54	13.0	1.1	8.7	4.8	12	0.1	0.5	0.2	60	0.11	0.029
1378153	Soil	0.5	30.5	7.4	81	0.2	19.2	15.1	1144	3.87	6.0	0.3	9.1	2.0	9	0.3	0.2	0.2	56	0.29	0.063
REP 1378153	QC	0.5	31.4	7.4	82	0.2	19.8	15.2	1139	3.95	6.1	0.4	7.9	2.0	9	0.3	0.2	0.2	55	0.30	0.063
1378120	Soil	0.7	25.8	11.2	81	0.2	18.0	8.6	338	2.48	15.3	0.7	22.9	3.2	25	0.7	0.5	0.1	44	0.35	0.079
REP 1378120	QC	0.7	25.6	11.2	83	0.2	18.4	8.7	335	2.50	15.1	0.8	7.1	3.3	26	0.7	0.6	0.1	44	0.36	0.077
1378111	Soil	0.7	27.7	9.1	86	0.1	20.5	9.5	346	3.20	63.9	1.1	12.3	4.2	16	0.2	0.4	0.1	49	0.29	0.066
REP 1378111	QC	0.6	27.6	9.4	86	0.2	20.2	9.6	336	3.20	65.7	1.1	7.5	4.2	15	<0.1	0.4	<0.1	50	0.31	0.063
1278805	Soil	0.7	18.0	6.0	40	<0.1	14.8	9.6	324	3.07	9.1	0.4	18.7	2.7	7	<0.1	0.4	0.1	51	0.10	0.043
REP 1278805	QC	0.9	18.3	6.2	42	<0.1	14.3	9.6	328	2.96	9.5	0.4	10.2	2.8	7	<0.1	0.4	0.1	51	0.10	0.046
1278816	Soil	0.7	22.6	6.3	46	<0.1	15.8	9.4	459	2.34	7.8	0.7	9.8	2.8	12	0.1	0.4	0.1	46	0.16	0.032
REP 1278816	QC	0.8	22.3	6.3	46	0.1	15.8	9.6	484	2.48	7.7	0.7	3.3	3.1	14	<0.1	0.4	0.1	49	0.18	0.031
1264912	Soil	1.0	25.5	8.7	54	<0.1	19.0	10.1	392	3.03	9.2	0.5	11.2	3.2	15	0.1	0.5	0.2	55	0.26	0.052
REP 1264912	QC	1.0	25.7	9.6	53	<0.1	17.7	9.8	391	2.97	9.5	0.6	2.5	3.3	14	<0.1	0.6	0.2	54	0.29	0.052
1399079	Soil	1.5	35.5	15.8	86	0.2	27.2	13.3	573	4.28	15.7	1.3	2.2	5.7	22	0.1	0.2	0.2	60	0.29	0.081
REP 1399079	QC	1.9	34.2	15.8	86	0.2	28.0	12.7	589	4.05	15.2	1.4	4.4	5.6	21	0.3	0.3	0.2	62	0.29	0.083
1399067	Soil	1.7	90.2	500.0	334	1.2	10.7	6.5	330	4.34	7.3	0.5	83.6	3.5	10	0.6	1.0	0.1	53	0.06	0.046
REP 1399067	QC	2.0	91.3	507.1	332	1.4	11.7	6.8	341	4.33	7.0	0.6	47.9	3.5	10	0.7	1.0	0.1	53	0.06	0.048
Reference Materials																					
STD DS9	Standard	12.6	107.6	126.5	311	1.8	35.9	7.4	628	2.37	23.2	2.6	106.5	6.4	65	1.7	6.0	6.1	40	0.69	0.077
STD DS9	Standard	13.8	106.0	112.5	294	1.7	39.0	7.3	586	2.35	23.1	2.5	107.0	6.2	58	2.1	5.3	5.9	43	0.66	0.078
STD DS9	Standard	13.3	104.8	109.7	289	1.7	37.5	7.1	578	2.21	22.2	2.4	108.9	6.4	54	2.0	4.8	5.5	41	0.63	0.074
STD DS9	Standard	13.8	117.4	132.8	319	1.7	42.6	8.4	653	2.63	26.8	2.9	115.6	7.6	79	2.3	6.4	6.7	48	0.77	0.080
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

Project: KSD  
 Report Date: July 25, 2013

Page: 1 of 2

Part: 2 of 1

# QUALITY CONTROL REPORT

WHI13000112.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1264927	Soil	10	17	1.82	596	0.010	2	2.20	0.004	0.01	<0.1	0.05	7.3	<0.1	<0.05	6	0.8	<0.2
REP 1264927	QC	10	18	1.68	558	0.010	1	2.04	0.003	0.01	<0.1	0.04	7.2	<0.1	<0.05	5	<0.5	<0.2
1378156	Soil	16	36	0.81	324	0.033	2	2.13	0.005	0.04	<0.1	0.04	4.6	<0.1	<0.05	6	<0.5	<0.2
REP 1378156	QC	16	35	0.82	331	0.034	<1	2.13	0.006	0.04	0.1	0.05	4.6	<0.1	<0.05	6	<0.5	<0.2
1378153	Soil	8	33	1.77	181	0.011	<1	2.35	0.003	0.03	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
REP 1378153	QC	8	33	1.75	186	0.010	1	2.32	0.003	0.03	<0.1	0.02	6.3	<0.1	<0.05	6	<0.5	<0.2
1378120	Soil	16	24	0.74	242	0.048	1	1.43	0.012	0.07	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
REP 1378120	QC	15	23	0.74	251	0.048	<1	1.42	0.012	0.08	0.2	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
1378111	Soil	13	32	1.25	220	0.038	<1	2.04	0.005	0.03	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
REP 1378111	QC	14	32	1.24	215	0.038	<1	1.94	0.005	0.03	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
1278805	Soil	8	20	0.65	125	0.031	<1	1.79	0.004	0.03	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
REP 1278805	QC	8	20	0.70	124	0.031	<1	1.90	0.004	0.03	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1278816	Soil	13	24	0.59	247	0.034	<1	1.35	0.006	0.02	0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
REP 1278816	QC	14	26	0.61	260	0.039	<1	1.38	0.007	0.03	0.2	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
1264912	Soil	12	28	0.93	271	0.036	<1	1.80	0.008	0.03	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
REP 1264912	QC	13	28	0.91	274	0.040	<1	1.63	0.007	0.03	0.2	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
1399079	Soil	13	32	1.92	145	0.054	<1	2.01	0.004	0.04	<0.1	<0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
REP 1399079	QC	15	33	2.05	156	0.065	<1	2.14	0.004	0.05	<0.1	<0.01	5.4	<0.1	<0.05	7	1.8	<0.2
1399067	Soil	8	20	1.01	283	0.017	<1	2.45	0.005	0.03	<0.1	0.64	3.5	<0.1	<0.05	6	0.5	<0.2
REP 1399067	QC	8	20	1.02	283	0.015	<1	2.42	0.005	0.03	<0.1	0.63	3.5	<0.1	<0.05	6	0.9	<0.2
Reference Materials																		
STD DS9	Standard	14	115	0.68	269	0.106	3	0.89	0.092	0.41	2.9	0.21	2.6	5.2	0.06	5	4.8	4.7
STD DS9	Standard	14	121	0.64	274	0.106	3	0.90	0.089	0.38	3.2	0.21	2.3	5.2	0.15	4	5.1	5.0
STD DS9	Standard	14	112	0.57	262	0.103	2	0.84	0.076	0.36	2.9	0.20	2.3	5.1	0.16	4	4.1	4.8
STD DS9	Standard	18	129	0.67	309	0.138	4	1.01	0.102	0.42	3.3	0.22	2.8	5.3	0.13	5	6.7	5.2
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client:** Pacific Ridge Exploration Ltd.  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

**Project:** KSD  
**Report Date:** July 25, 2013

Page: 2 of 2

Part: 1 of 1

# QUALITY CONTROL REPORT

WHI13000112.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client:** Pacific Ridge Exploration Ltd.  
 1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 CANADA

**Project:** KSD  
**Report Date:** July 25, 2013

**Page:** 2 of 2

**Part:** 2 of 1

# QUALITY CONTROL REPORT

WHI13000112.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2