

**2008 RECONNAISSANCE EXPLORATION & HAND TRENCHING ASSESSMENT REPORT  
ON THE  
TUMBLER RIDGE PHOSPHATE PROPERTY  
LIARD MINING DIVISION  
for  
PACIFIC RIDGE EXPLORATION LTD  
PH-1 TO PH -122 CLAIMS**

**CENTERED AT APPROXIMATELY 54° 45' NORTH LATITUDE AND 121° 11' WEST LONGITUDE**

**NTS SHEETS 93I: 028, 029, 039, 065, 066, 067, 075, 076, 083, 084, 085, 092 & 093 & 93P: 001, 002, 011 & P12**

**BC Geological Survey  
Assessment Report  
30718**



**TUMBLER RIDGE PHOSPHATE PROJECT MUINOK AREA  
by**

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## 1.0 Summary

The Tumble Ridge project is located within the Liard Mining Division in north-central B.C. and situated approximately 145 km northeasterly from Prince George and 40km southerly from Tumbler Ridge. Pacific Ridge Exploration Ltd. ("Pacific Ridge") controls an accumulative length of 127 km of prospective sedimentary phosphate bearing stratigraphy which covers 137 claims and 585.3 sq km of which 88% (517 sq km) is 100% owned by Pacific Ridge. The balance of the land package includes the Wapiti property (15 claims encompassing 68.3 sq km) which was optioned from Lateegra Gold Corp. in July 2008. Pacific Ridge contracted the services of Future Metals Inc. who conducted helicopter supported reconnaissance style sampling and follow-up hand trenching of the phosphate bearing stratigraphy during the course of the 2008 field season from July to September. Fieldwork consisted of Phase I reconnaissance rock sampling program which was completed during July and a Phase II follow-up hand trenching program which was completed during August. The Phase II program hand trenching program concentrated on three (3) follow-up target areas including the Wapiti, Tunnel and Muinok Zones.

The Tumbler Ridge property is underlain predominantly by Early and Middle Triassic Sulphur Mountain Formation, Lower Carboniferous Rundle Group and Upper Devonian Exshaw and Banff Formations. An extensive study of phosphate deposits of British Columbia" was undertaken by the British Columbia Geological Survey Branch under the auspices of Ministry of Employment and Investment, Energy and Minerals Division during the period from 1985 to 1990. Bulletin 98,"Phosphate Deposits in British Columbia" authored by S. Butrenchuk, P. Geo. was published in 1996 and includes an overview of the phosphate occurrences in the Tumbler Ridge Project study area.

The target sought is a sedimentary-style "blanket type" phosphate deposit. Pacific Ridge structured the 2008 exploration program to prospect for and sample phosphate occurrences within the Whistler Member of the Sulphur Mountain Formation for phosphate bearing zones as highlighted by S. Butrenchuk's Bulletin 98. Exploration prospecting and sampling was conducted over a large portion of the 127 km long claim package from Meosin Mountain in the southwestern portion of the claims to the Mount Palsson to the northwest. Pacific Ridge crews collected 459 samples during the 2008 field season including 132 grab and 128 float samples during the Phase I exploration phase and 199 Phase II rock chip trench samples. More than 330 person field days were charged to the project.

The best phosphate (% P<sub>2</sub>O<sub>5</sub>) values over significant widths are located within the Wapiti and Tunnel Zones with values to 29.07% over 3 metres (including 34.7% P<sub>2</sub>O<sub>5</sub> over 2 metres) and 19.4% P<sub>2</sub>O<sub>5</sub> over 3 meters respectively. Potential exists within the Wapiti claims to host an open pitable phosphorite deposit associated with the Wapiti and Red Deer synclines where dip slope hosted phosphate suggests attractive potential mining scenarios. Follow up trenching and diamond drilling is recommended in 2009.

Detailed trenching of the Muinok Zone revealed wider lower grade zones with 6 to 10m widths of 4% to 8% P<sub>2</sub>O<sub>5</sub> that locally contain narrow higher grade zones with values between 14.9% to 21.0% P<sub>2</sub>O<sub>5</sub> over 1m.

Exploration within the Tumbler Ridge project exploration program has demonstrated that significant amounts of high grade sedimentary phosphate are located within the Wapiti and Tunnel Zones which warrant additional follow up exploration to delineate resource potential. Additional phosphate prospects include the Windy Camp, Hook Lake, Mount Palsson and Mesoin areas where initial prospecting has returned grab samples up to 26.4% P<sub>2</sub>O<sub>5</sub>.

## **2.0 Introduction**

### **2.1 *Property Description and Location***

The Tumbler Ridge Project is located within the Liard Mining Division of north central B.C. approximately 145 km northeasterly from Prince George and 40km southerly from the town of Tumbler Ridge (Figure 1). Pacific Ridge Exploration Ltd. controls a large land package which spans an accumulative length of 127 km and width of approximately 5 km. The project encompasses a total of 137 claims and 585.3 sq km of which 88% or 517 sq km is 100% owned by Pacific Ridge. The balance consists of the Wapiti property of 15 claims covering 68.3 sq km optioned from Lateegra Gold Corp. in July 2008. The total claim package includes Pacific Ridge's 122 PH claims and Lateegra's 15 Wapiti and W claims. The land position is centered at approximately 54° 45' north latitude and 121° 11' west longitude and includes NTS sheets 93I 028, 029, 038, 039, 047, 065, 067, 075, 083, 084, 085, 092 and 93I 093 as well as 93P 001, 002 and 93P 011 (Figure 2).

The Sulphur Mountain Formation, Whistler Member phosphate bearing units trend northwest-southeast, parallel to the overall northwesterly trend of the Rocky Mountains and Foothills. The Sukunka River and Sukunka road bends sharply to the south at the western end of the claim block, then parallels the claims along the southern boundary until cut by the BC Rail line which connects Prince George, Tumbler Ridge and Fort St. John. The rail line tunnels under the property at this point near the headwaters of the Wolverine River (Wolverine Tunnel).

Elevations within the Tumbler Ridge property range from 1060m to 2255m a.s.l. and the annual precipitation is moderate to high. Large accumulations of snow during winter fill the river valleys up to 10m thick at some locations.

### **2.2 *Accessibility, Infrastructure, Climate, Physiography, and Local Resources***

Prince George is the nearest major center to the Tumbler Ridge property that more than adequately supports exploration programs in the area. An all weather gravel road from Chetwynd approximately 60km to the north allows access to the western portion of the claims. Several logging roads extending along creeks flowing northeasterly from the Rocky Mountains into the Foothills including Sukunka, West Bullmoose, Woverine, Murray and Kunuseo Rivers as well as Little Prairie and Red Deer Creeks provide limited access to portions of the project area from Tumbler Ridge, but the vast majority of the property is more easily accessed by helicopter. Helicopters available for charter include from Pacific Western Helicopters Ltd. based in Prince George, Highland Helicopters Ltd. based in Chetwynd and Ridge Rotors Inc. based for the summer months out of Tumbler Ridge.

The Tumbler Ridge project area occupies two major physiographic divisions including the Hart Ranges of the Rocky Mountains and extends eastward toward the Rocky Mountain Foothills. The Hart Ranges within central and southern exhibit the typical "Rocky Mountain" appearance as per the Banff-Jasper region where cliff forming strata alternate with recessive units.

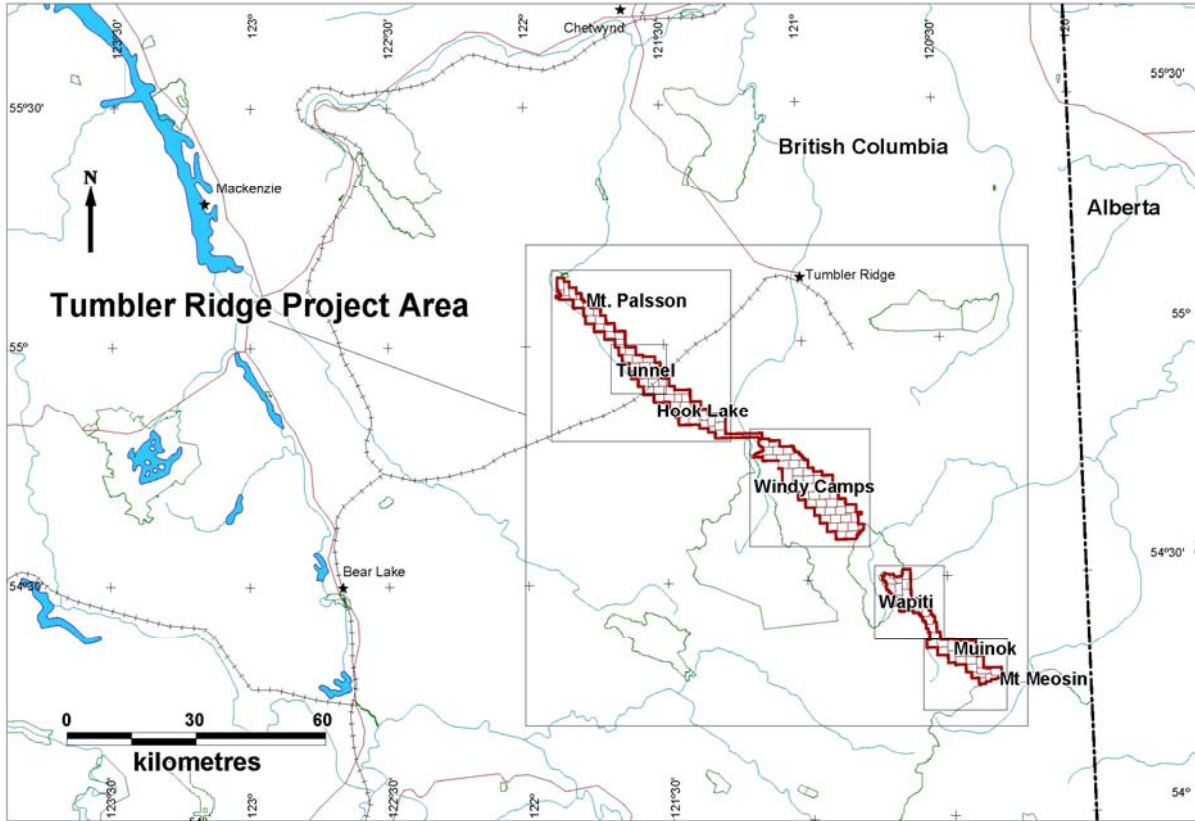
# TUMBLER RIDGE PHOSPHATE PROJECT LOCATION MAP



Figure 1 TUMBLER RIDGE PHOSPHATE Property Location Map



Precipitation in the area is moderate to high; summers are usually cool and rain is common. Generally snow is still around and hampers travel above the 1600 m elevation until mid June. Vegetation cover is dense and forest growth is extensive below timberline at about 1800m. Snow starts to accumulate again come October 1<sup>st</sup>. Extensive areas of wild fire burn especially in the Wapiti Area has cleared out underbrush growth making ground based prospecting more accessible.



**Figure 2 TUMBLER RIDGE PHOSPHATE PROPERTY MAP**

### 2.3 Mineral Tenure

Pacific Ridge controls 137 claims covering 58,525 hectares of which 51,700 hectares or 88% is 100% owned with no royalties. The land package is located within the Liard Mining Division approximately 40km southerly from the Tumbler Ridge. The Wapiti property, 15 claims encompassing 6,825 hectares was optioned from Lateegra Gold Corp. in July 2008.

Pacific Ridge has 100% ownership of 122 PH claims which were staked via Minerals Titles Online internet service during the late April 2008. The Wapiti area is composed of 1 Wapiti claim and 14 W claims. The claims are listed in Table 1 and Table 2 and outlined in Figure 3, Figure 4 AND Figure 5:

**TABLE 1  
MINERAL TENURE  
PACIFIC RIDGE EXPLORATION LTD.**

<b>Tenure Number</b>	<b>Claim Name</b>	<b>Registered Owner</b>	<b>Map Number</b>	<b>Good To Date</b>	<b>Mining Division</b>	<b>Area (Hec.)</b>
583007	PH-1	105209 (100%)	093P	2009/apr/28	LIARD	443.9
583008	PH-2	105209 (100%)	093P	2009/apr/28	LIARD	388.5
583011	PH-3	105209 (100%)	093P	2009/apr/28	LIARD	425.6
583012	PH-4	105209 (100%)	093P	2009/apr/28	LIARD	444.1
583015	PH-5	105209 (100%)	093P	2009/apr/28	LIARD	166.6
583018	PH-6	105209 (100%)	093P	2009/apr/28	LIARD	444.3
583019	PH-7	105209 (100%)	093P	2009/apr/28	LIARD	222.2
583022	PH-8	105209 (100%)	093P	2009/apr/28	LIARD	444.5
583025	PH-9	105209 (100%)	093P	2009/apr/28	LIARD	296.3
583027	PH-10	105209 (100%)	093P	2009/apr/28	LIARD	444.7
583030	PH-11	105209 (100%)	093P	2009/apr/28	LIARD	444.7
583031	PH-12	105209 (100%)	093P	2009/apr/28	LIARD	444.9
583036	PH-13	105209 (100%)	093P	2009/apr/28	LIARD	444.9
583039	PH-14	105209 (100%)	093P	2009/apr/28	LIARD	445.1
583042	PH-15	105209 (100%)	093P	2009/apr/28	LIARD	445.1
583045	PH-16	105209 (100%)	093I	2009/apr/28	LIARD	445.3
583048	PH-17	105209 (100%)	093I	2009/apr/28	LIARD	297.0
583052	PH-18	105209 (100%)	093I	2009/apr/28	LIARD	445.4
583055	PH-19	105209 (100%)	093I	2009/apr/28	LIARD	445.6
583059	PH-20	105209 (100%)	093I	2009/apr/28	LIARD	445.6
583066	PH-21	105209 (100%)	093I	2009/apr/28	LIARD	389.9
583067	PH-22	105209 (100%)	093I	2009/apr/28	LIARD	445.8
583068	PH-23	105209 (100%)	093I	2009/apr/28	LIARD	445.8
583069	PH-24	105209 (100%)	093I	2009/apr/28	LIARD	445.8



<b>Tenure Number</b>	<b>Claim Name</b>	<b>Registered Owner</b>	<b>Map Number</b>	<b>Good To Date</b>	<b>Mining Division</b>	<b>Area (Hec.)</b>
583070		105209 (100%)	093I	2009/apr/28	LIARD	446.0
583071		105209 (100%)	093I	2009/apr/28	LIARD	446.0
583072	PH-25	105209 (100%)	093I	2009/apr/28	LIARD	446.0
583074	PH-28	105209 (100%)	093I	2009/apr/29	LIARD	446.2
583082	PH-29	105209 (100%)	093I	2009/apr/29	LIARD	446.2
583088	PH_30	105209 (100%)	093I	2009/apr/29	LIARD	446.2
583090	PH-31	105209 (100%)	093I	2009/apr/29	LIARD	446.3
583091	PH-32	105209 (100%)	093I	2009/apr/29	LIARD	446.3
583092	PH-33	105209 (100%)	093I	2009/apr/29	LIARD	446.4
583093	PH-34	105209 (100%)	093I	2009/apr/29	LIARD	446.5
583095	PH-35	105209 (100%)	093I	2009/apr/29	LIARD	446.5
583096	PH-36	105209 (100%)	093I	2009/apr/29	LIARD	334.8
583097	PH-37	105209 (100%)	093I	2009/apr/29	LIARD	297.7
583098		105209 (100%)	093I	2009/apr/29	LIARD	372.1
583099	PH-39	105209 (100%)	093I	2009/apr/29	LIARD	446.7
583100		105209 (100%)	093I	2009/apr/29	LIARD	446.7
583101	PH-41	105209 (100%)	093I	2009/apr/29	LIARD	446.7
583102	PH-42	105209 (100%)	093I	2009/apr/29	LIARD	446.9
583104	PH-43	105209 (100%)	093I	2009/apr/29	LIARD	223.4
583105	PH-44	105209 (100%)	093I	2009/apr/29	LIARD	446.9
583106	PH-45	105209 (100%)	093I	2009/apr/29	LIARD	446.9
583107	PH-46	105209 (100%)	093I	2009/apr/29	LIARD	447.1
583109	PH-47	105209 (100%)	093I	2009/apr/29	LIARD	447.1
583110	PH-48	105209 (100%)	093I	2009/apr/29	LIARD	409.9
583111	PH-49	105209 (100%)	093I	2009/apr/29	LIARD	447.1
583112	PH-50	105209 (100%)	093I	2009/apr/29	LIARD	223.6

<b>Tenure Number</b>	<b>Claim Name</b>	<b>Registered Owner</b>	<b>Map Number</b>	<b>Good To Date</b>	<b>Mining Division</b>	<b>Area (Hec.)</b>
583113	PH-51	105209 (100%)	093I	2009/apr/29	LIARD	447.0
583114	PH-52	105209 (100%)	093I	2009/apr/29	LIARD	447.2
583115	PH-53	105209 (100%)	093I	2009/apr/29	LIARD	447.4
583129	PH-54	105209 (100%)	093I	2009/apr/29	LIARD	452.3
583130	PH-55	105209 (100%)	093I	2009/apr/29	LIARD	452.3
583131	PH-56	105209 (100%)	093I	2009/apr/29	LIARD	452.5
583132	PH-57	105209 (100%)	093I	2009/apr/29	LIARD	452.4
583135	PH-58	105209 (100%)	093I	2009/apr/29	LIARD	452.6
583137	PH-59	105209 (100%)	093I	2009/apr/29	LIARD	452.4
583139	PH-60	105209 (100%)	093I	2009/apr/29	LIARD	452.5
583141	PH-61	105209 (100%)	093I	2009/apr/29	LIARD	452.7
583142	PH-62	105209 (100%)	093I	2009/apr/29	LIARD	452.3
583143	PH-63	105209 (100%)	093I	2009/apr/29	LIARD	452.5
583144	PH-64	105209 (100%)	093I	2009/apr/29	LIARD	452.7
583145	PH-65	105209 (100%)	093I	2009/apr/29	LIARD	452.9
583147	PH-66	105209 (100%)	093I	2009/apr/29	LIARD	452.8
583148	PH-67	105209 (100%)	093I	2009/apr/29	LIARD	453.0
583149	PH-68	105209 (100%)	093I	2009/apr/29	LIARD	453.0
583150	PH-69	105209 (100%)	093I	2009/apr/29	LIARD	358.7
583151	PH-70	105209 (100%)	093I	2009/apr/29	LIARD	226.6
583152	PH-71	105209 (100%)	093I	2009/apr/29	LIARD	453.1
583354	PH_72	105209 (100%)	093I	2009/apr/30	LIARD	447.6
583355	PH-73	105209 (100%)	093I	2009/apr/30	LIARD	335.7
583356	PH-74	105209 (100%)	093I	2009/apr/30	LIARD	447.8
583357	PH-75	105209 (100%)	093I	2009/apr/30	LIARD	447.8
583359	PH-76	105209 (100%)	093I	2009/apr/30	LIARD	447.8

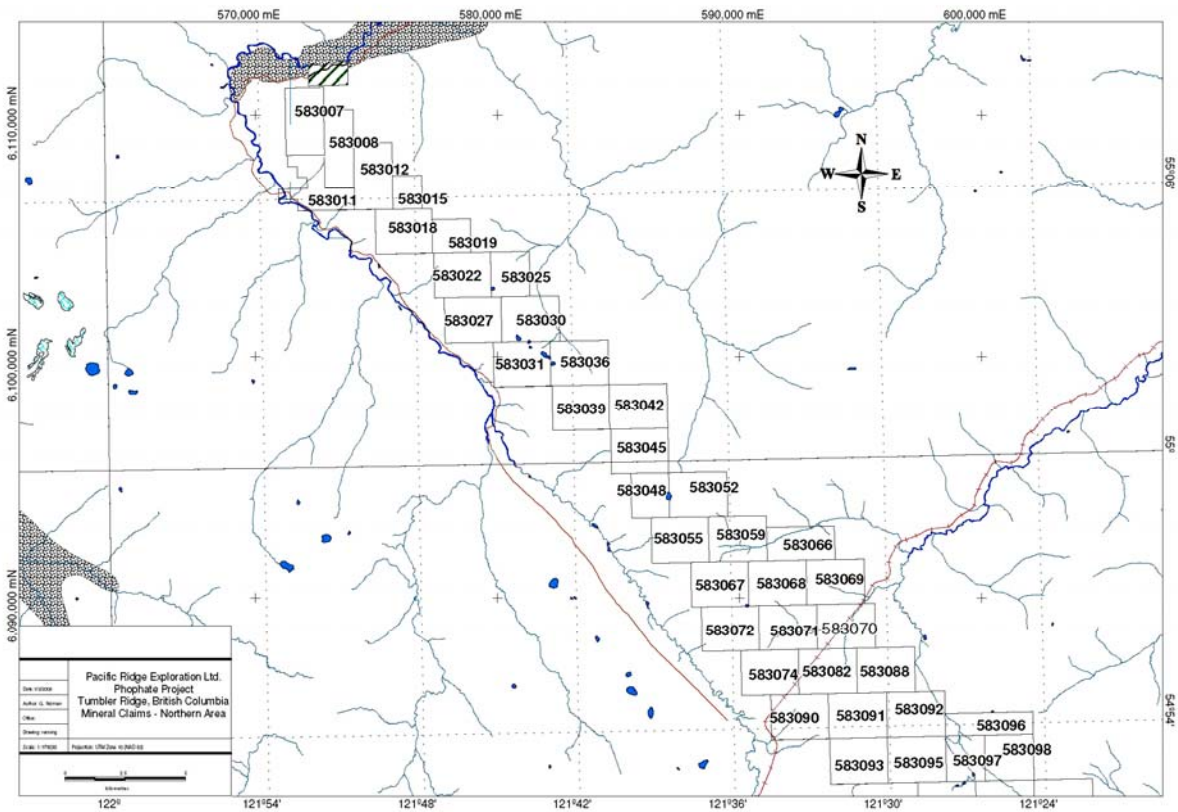
<b>Tenure Number</b>	<b>Claim Name</b>	<b>Registered Owner</b>	<b>Map Number</b>	<b>Good To Date</b>	<b>Mining Division</b>	<b>Area (Hec.)</b>
583360	PH-77	105209 (100%)	093I	2009/apr/30	LIARD	205.3
583363	PH-78	105209 (100%)	093I	2009/apr/30	LIARD	448.0
583365	PH-79	105209 (100%)	093I	2009/apr/30	LIARD	448.0
583366	PH-80	105209 (100%)	093I	2009/apr/30	LIARD	466.6
583367	PH-81	105209 (100%)	093I	2009/apr/30	LIARD	448.1
583368	PH-82	105209 (100%)	093I	2009/apr/30	LIARD	448.1
583369	PH-83	105209 (100%)	093I	2009/apr/30	LIARD	373.4
583370	PH-84	105209 (100%)	093I	2009/apr/30	LIARD	448.3
583371	PH-85	105209 (100%)	093I	2009/apr/30	LIARD	448.3
583372	PH-86	105209 (100%)	093I	2009/apr/30	LIARD	448.3
583373	PH-87	105209 (100%)	093I	2009/apr/30	LIARD	186.8
583374	PH-88	105209 (100%)	093I	2009/apr/30	LIARD	448.5
583375	PH-89	105209 (100%)	093I	2009/apr/30	LIARD	448.5
583376	PH-90	105209 (100%)	093I	2009/apr/30	LIARD	448.5
583377	PH-91	105209 (100%)	093I	2009/apr/30	LIARD	448.4
583379	PH-92	105209 (100%)	093I	2009/apr/30	LIARD	373.7
583380	PH-93	105209 (100%)	093I	2009/apr/30	LIARD	448.7
583381	PH-94	105209 (100%)	093I	2009/apr/30	LIARD	448.7
583384	PH-95	105209 (100%)	093I	2009/apr/30	LIARD	448.6
583385	PH-96	105209 (100%)	093I	2009/apr/30	LIARD	448.6
583386	PH-97	105209 (100%)	093I	2009/apr/30	LIARD	299.1
583391	PH-98	105209 (100%)	093I	2009/apr/30	LIARD	448.8
583392	PH-99	105209 (100%)	093I	2009/apr/30	LIARD	448.8
583394	PH-100	105209 (100%)	093I	2009/apr/30	LIARD	448.8
583398	PH-101	105209 (100%)	093I	2009/apr/30	LIARD	374.0
583402	PH-102	105209 (100%)	093I	2009/apr/30	LIARD	449.0

<b>Tenure Number</b>	<b>Claim Name</b>	<b>Registered Owner</b>	<b>Map Number</b>	<b>Good To Date</b>	<b>Mining Division</b>	<b>Area (Hec.)</b>
583403	PH-103	105209 (100%)	093I	2009/apr/30	LIARD	449.0
583404	PH-104	105209 (100%)	093I	2009/apr/30	LIARD	449.0
583405	PH-105	105209 (100%)	093I	2009/apr/30	LIARD	374.2
583409	PH-106	105209 (100%)	093I	2009/apr/30	LIARD	449.2
583410	PH-108	105209 (100%)	093I	2009/apr/30	LIARD	449.2
583412	PH_107	105209 (100%)	093I	2009/apr/30	LIARD	449.2
583417	PH-109	105209 (100%)	093I	2009/apr/30	LIARD	449.1
583418	PH-110	105209 (100%)	093I	2009/apr/30	LIARD	449.4
583419	PH-111	105209 (100%)	093I	2009/apr/30	LIARD	449.4
583420	PH-112	105209 (100%)	093I	2009/apr/30	LIARD	449.4
583422	PH-113	105209 (100%)	093I	2009/apr/30	LIARD	468.0
583423	PH-114	105209 (100%)	093I	2009/apr/30	LIARD	449.5
583426	PH-115	105209 (100%)	093I	2009/apr/30	LIARD	449.5
583428	PH-116	105209 (100%)	093I	2009/apr/30	LIARD	449.6
583429	PH-117	105209 (100%)	093I	2009/apr/30	LIARD	449.7
583430	PH-118	105209 (100%)	093I	2009/apr/30	LIARD	449.7
583431	PH-119	105209 (100%)	093I	2009/apr/30	LIARD	224.8
589457	PH-120	105209 (100%)	093I	2009/aug/03	LIARD	447.4
589458	PH-121	105209 (100%)	093I	2009/aug/03	LIARD	335.6
589459	PH-122	105209 (100%)	093I	2009/aug/03	LIARD	37.3

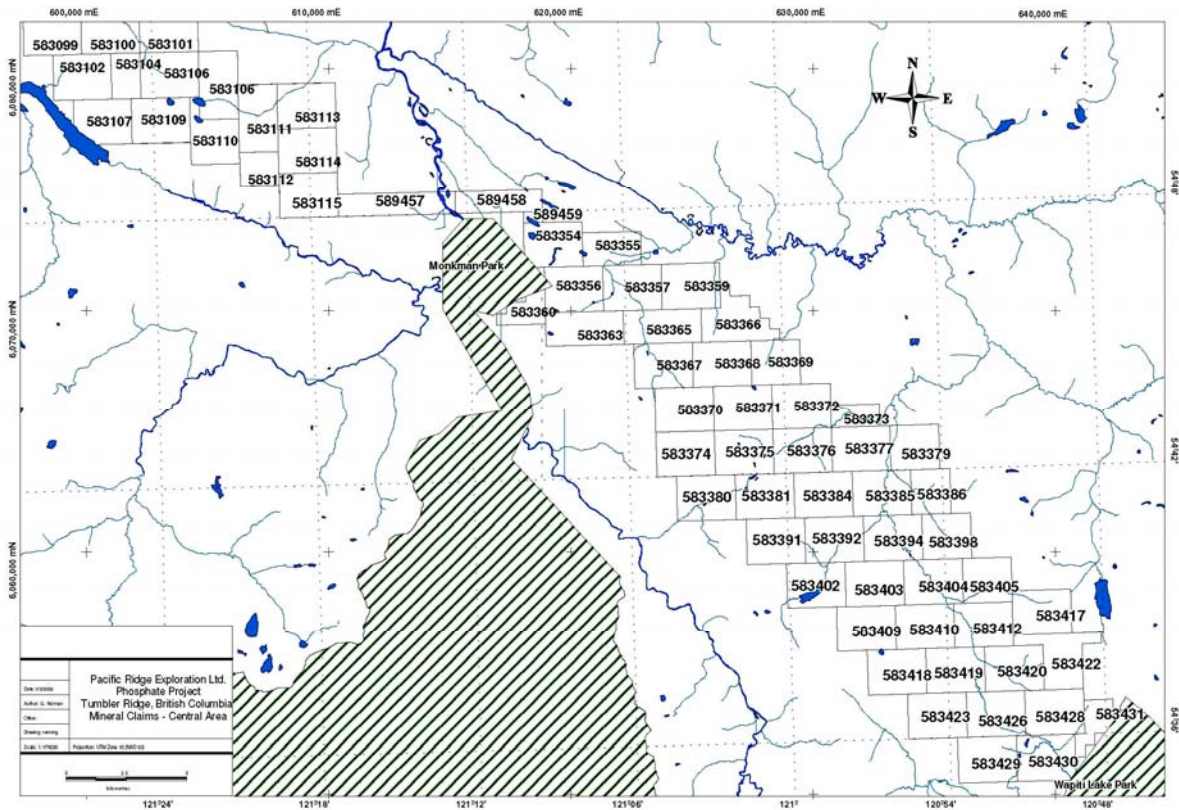
**Total hectares                    50817.4**

**TABLE 2**  
**WAPITI MINERAL TENURE**  
**OPTIONED FROM LATEEGRA GOLD CORP.**

<b>Tenure Number</b>	<b>Claim Name</b>	<b>Registered Owner</b>	<b>Map Number</b>	<b>Good To Date</b>	<b>Status</b>	<b>Mining Division</b>	<b>Area (Hec.)</b>
581588	WAPITI	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	469.9
581589	W2	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	469.7
581591	W3	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	451.3
581593	W4	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	469.4
581595	W6	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	469.8
581596	W7	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	357.3
581597	W8	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	469.8
581598	W10	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	469.6
581599	W5	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	413.2
581600	W9	215136 (100%)	093I	2009/apr/17	GOOD	LIARD	451.5
581719	W11	215136 (100%)	093I	2009/apr/18	GOOD	LIARD	470.3
581721	W12	215136 (100%)	093I	2009/apr/18	GOOD	LIARD	470.4
581722	W13	215136 (100%)	093I	2009/apr/18	GOOD	LIARD	470.6
581724	W14	215136 (100%)	093I	2009/apr/18	GOOD	LIARD	470.7
581725	W15	215136 (100%)	093I	2009/apr/18	GOOD	LIARD	452.1
						<b>Total hectares</b>	<b>6825</b>



**Figure 3 Tumbler Ridge Phosphate Property NW Claim Map**



**Figure 4 Tumbler Ridge Phosphate Property Central Claim Map**

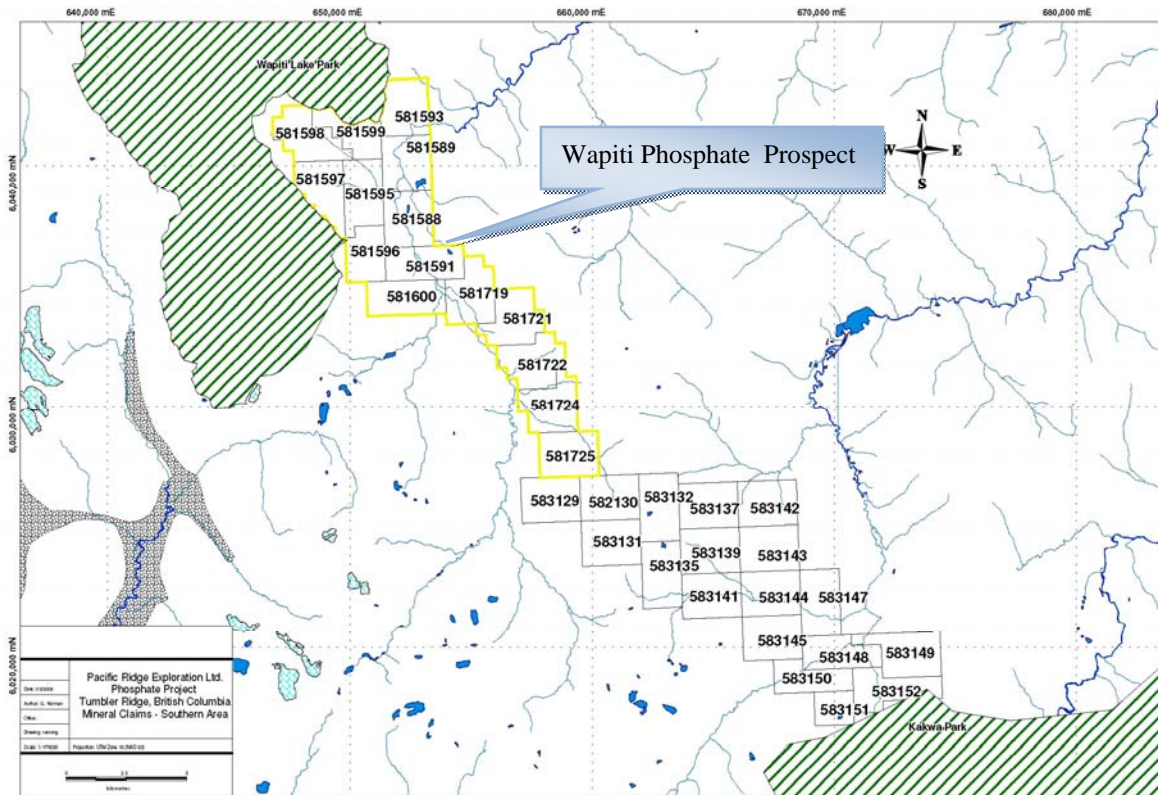
#### 2.4 Agreement with Lategra Gold Corp.

The TSX Venture Exchange accepted for filing August 01, 2008 documentation pertaining to a letter of understanding dated July 23, 2008, (subsequently a Letter of Agreement dated Sept. 4, 2008) between Lategra Gold Corp. and Pacific Ridge Exploration Ltd., (The “Company”) pursuant to which the company has an option to acquire up to a 65-per-cent interest in 15 claims located in east-central British Columbia, known as the Wapiti property. To earn a 51-per-cent interest, the company will pay \$5,000, issue 200,000 shares, and at the Company’s option, make \$1-million in exploration expenditures over a 36-month period. To earn an additional 14 per cent, the Company has the right to pay an additional \$250,000, issue an additional one million shares and make a further \$1-million of exploration expenditures over a two-year period.

#### 2.5 Previous Work (History)

The British Columbia Geological Survey Branch completed geological mapping and structural/stratigraphic investigations in the Monkman Pass area since the mid- 1960’s. Gibson (1972, 1975) produced a comprehensive account of the Triassic strata of the area, although spent little time mapping the phosphorite within the Sulphur Mountain Member. Previous exploration work on the Tumbler Ridge Project is limited to work by Esso Resources Canada Limited (“Esso”) during the period from 1978 to 1980 who after completing reconnaissance style work during 1978 and 1979 focused on the Wapiti area completing detailed trenching and core drilling during 1980 (12 hole





**Figure 5 Tumbler Ridge Phosphate Property SE Claim Map**

program). The Esso work straddles the Lategra Wapiti claim block and Wapiti Provincial Park which borders the claims on the north.

An extensive study of phosphate deposits of British Columbia” was undertaken by the British Columbia Geological Survey Branch under the auspices of the Ministry of Employment and Investment, Energy and Minerals Division during the period from 1985 to 1990. Bulletin 98, ”Phosphate Deposits in British Columbia” authored by S. Butrenchuk, P. Geo. was published in 1996 and includes general geology an overview of the phosphate occurrences in the Tumbler Ridge Project study area.

## 2.5 2008 Exploration Program

Pacific Ridge Exploration Ltd. contracted the services of Future Metals Inc. who conducted helicopter supported reconnaissance style sampling and follow-up hand trenching of phosphate bearing stratigraphy during July and August 2008. Fieldwork consisted of Phase I reconnaissance rock sampling program which was completed from July 2 through to August 5 and a Phase II follow-up hand trenching program which was completed during the period from August 6 to August 24, 2008. The Phase II program hand trenching program concentrated on three (3) follow-up target areas including the Wapiti, Tunnel and Muinok Zones. A total of 459 samples were collected and analyzed for phosphate (reported as % P<sub>2</sub>O<sub>5</sub>).

### **3.0 Geology and Mineralization**

#### **3.1 District Geology**

Bedded phosphate deposits in British Columbia occur in marine strata from Helikian to Lower Jurassic age rocks. The sediments were deposited along the western margin of the stable craton (Douglas and Price, 1972) with deposition of phosphate within platformal or shelf-edge facies environments. Triassic sedimentation in northeastern British Columbia including the Triassic Sulphur Mountain Formation took place on a stable shelf characterized by a pattern of embayments and platforms. A minor embayment developed south of Fort St. John during early Triassic (McCrossan and Glaister, 1964) which was flanked to the South by the Wapiti platform and to the north by the Nig Creek platform. These conditions prevailed into early Middle Triassic and provided a good environment for phosphate deposition.

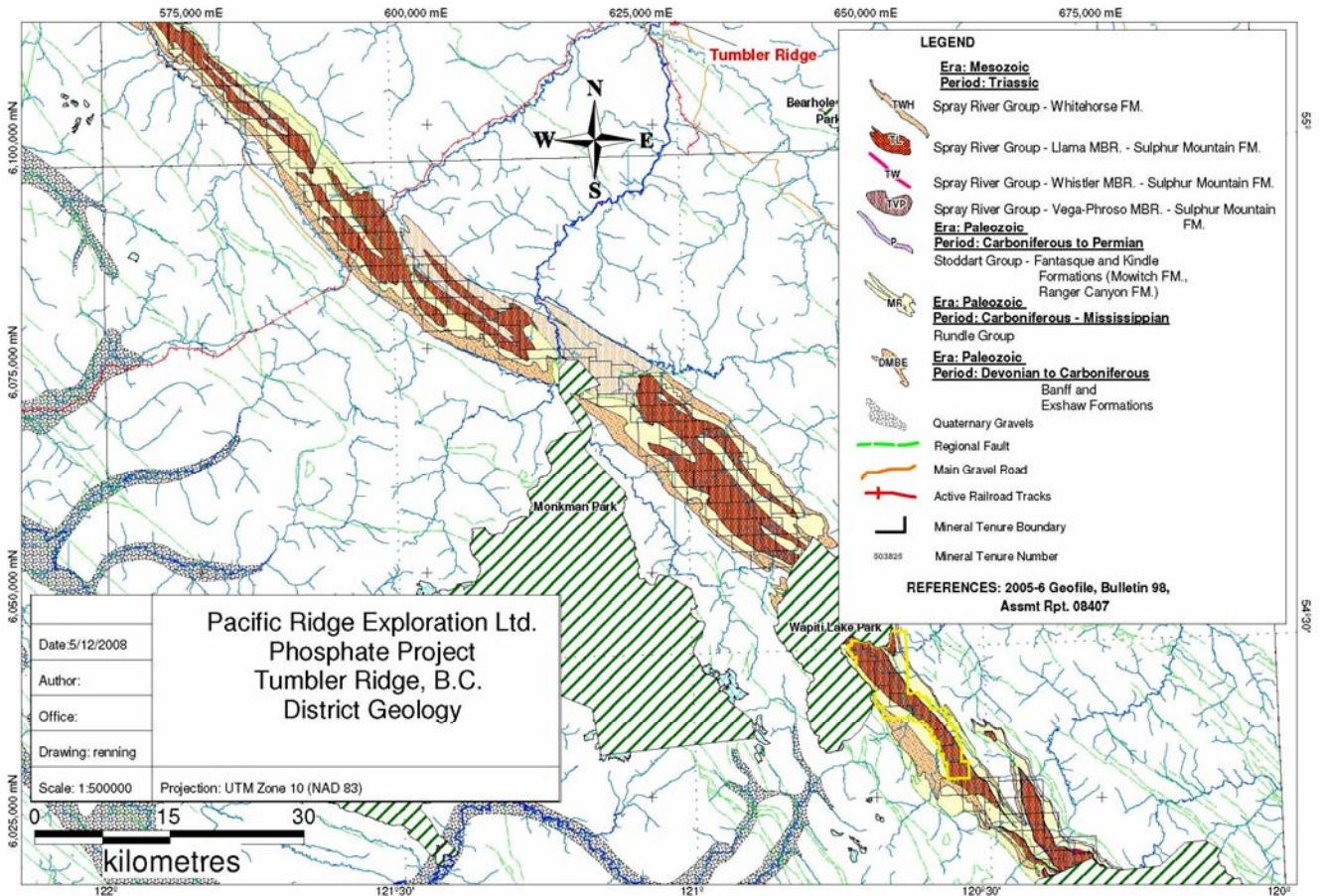
During Early Triassic there was a rapid marine transgression. Deposition was continuous through the early and middle Triassic except in the Wapiti area where there is a disconformity of short duration between the Vega-Phroso and Whistler members of the Sulphur Mountain Formation. Good grades of phosphorite occur above this disconformity.

Early Triassic deposition took place in a stable shelf environment, the eastern limits of which are marked by bar and deltaic deposits (McCrossan and Glaister, 1964; Douglas et al., 1970). During Middle Triassic deposition took place under partial restricted stagnant conditions. Lower and Middle sediments are characterized by good continuity of stratigraphic units.

The Spray River Group of Triassic age within the Tumbler Ridge area are composed of the Whitehorse and Sulphur Mountain Formations. The Whitehorse Formation is composed of inter-bedded silty dolostone, sandstone, siltstone, sandy limestone, intra-formational conglomerate, solution breccias, anhydrite, limestone and cherty dolostone.

The Sulphur Mountain Formation in northeastern British Columbia consists of brown-weathering sequence of medium-bedded siltstones, calcareous and dolomitic siltstones, silty dolomite, limestone and minor shale. Attaining a thickness of 100 to 500m, it thickens northward and was deposited in a shallow marine deltaic environment (Gibson, 1974). The Sulphur Mountain Formation is phosphatic in northern British Columbia although it is non-phosphatic in southern British Columbia. The Sulphur Mountain Formation is divided into Vega-Phroso, Whistler and Llama members.

The Rocky Mountains where the bedded phosphates occur are characterized by thrust faults and concentric folds. Thrust faults are generally southwest dipping, concave upward and imbricate. In the northern British Columbia the thrusts are more widely spaced with more numerous concentric folds as compared to the southern Rocky Mountains.



**Figure 6 TUMBLER RIDGE PHOSPHATE PROPERTY DISTRICT GEOLOGY**

### 3.2 Property Geology

The Tumbler Ridge Property is underlain by Spray River Group of Triassic age which includes the Whitehorse and Sulphur Mountain Formations, Permian Belcourt and Mowich Formations, Lower Carboniferous Rundle Group and Upper Devonian Exshaw and Banff Formations. The Formations form a northwest–southeast trending belt of rocks that have been traced the full extent of the 130km long property. The units have been folded into northwest – southeast trending tight anticlines and relatively broad synclines. In general the northeast limbs, of the synclines are more gently dipping to the southwest and the southwest limbs are steeply dipping to the northeast. Many valley floors trace major synclinal axes. Within the Wapiti-Muinok-Meosin areas structural elements have been assigned nomenclature including: Wapiti Syncline, North Anticline, South Anticline, Middle Syncline and Red Deer Syncline. Significant thrust features include the Becker Thrust and the North Thrust.

The Sulphur Mountain Formation in northeastern British Columbia consists of brown-weathering sequence of medium-bedded siltstones, calcareous and dolomitic siltstones, silty dolomite, limestone and minor shale. Attaining a thickness of 100 to 500m, it thickens northward and was deposited in a shallow marine deltaic environment (Gibson, 1974). Although the Sulphur Mountain Formation is phosphatic in northern British Columbia, it is non-phosphatic in southern British Columbia. The Formation is divided into Vega-Phroso, Whistler and Llama members.

The Sulphur Mountain Formation is underlain by the thin Permian Belcourt and Mowich Formations (1991). The Belcourt Formation includes skeletal limestone, dolostone with chert and carbonate pebble conglomerate while the

Mowich is composed of calcareous sandstone and thin chert pebble conglomerate at the base. Note that online Geofile maps (2005-6) indicate that Belcourt and Mowich in the location southeast of Wapiti Lake correlate within the Stoddart Group, Fantasque and Kindle Formations.

The Permian strata is in turn underlain by Lower Carboniferous Rundle Group limestone with locally abundant chert nodules and dolostone and Upper Devonian Exshaw and Banff Formations. The Exshaw Formation is composed of black rusty weathering shale with minor sandstone and limestone and minor volcanic tuff while the Banff Formation is indicative of rhythmic interbeds of black shale and brown weathering wackestone.

### **Phosphate Bearing Strata**

The majority of the known phosphate occurrences and phosphatic sediments occur in the Whistler member of the Sulphur Mountain Formation and in correlative rocks of the Toad Formation. In general, phosphatic and phosphorite beds are found throughout the Whistler member which outcrops from Meosin Mountain in the southeast to Watson Peak in the Northwest a distance of approximately 125 km. The colour of the unit tends to be darker than both overlying and underlying members. A basal conglomerate, 5 to 20cm thick, containing phosphorite exists within the Wapiti Lake - Meosin Mountain area. Within the area southeast of Wapiti Lake, phosphorite ranges in thickness from 0.8 to 3.2m with assays varying from 11.9 to 23.7 % P<sub>2</sub>O<sub>5</sub> (Heffernan, 1980 & A. Legun, 1987; BC Geological Survey Branch, Bulletin 98). Phosphate is found in the form of pellets, nodules, phosphate cement, phosphatic fragments, or clasts and phosphatized fossil debris. Minor phosphate is also present within the other members.

The Sulphur Mountain Formation is divided into Vega-Phroso, Whistler and Llama members. The Vega-Phroso Member overlies Permian strata and is brown weathering, flaggy consisting of grey siltstone with minor shale and bioclastic units. The phosphatic beds are generally thin (0.3m) and locally occur in the upper part of the section. The Vega-Phroso Member varies from 80 to 270m thick.

The Whistler Member is a grey weathering dark grey recessive siltstone approximately 20 to 85 meters thick which disconformably overlies the Vega-Phroso member. In outcrop, the northwest trending sedimentary unit extends from Meosin Mountain in the southeast to Watson Peak in the northwest. In many localities, its lower contact is marked by a thin 5 to 20cm basal phosphatic conglomerate. The basal conglomerate was not seen in at Meosin Mountain but is present in the Wapiti Lake area, otherwise phosphatic bearing beds are present throughout the Whistler Member.

Between Wapiti Lake and Mount Palsson phosphorite beds containing phosphate grains and oolites occur at three distinct horizons. Coarse to very coarse grained phosphate is reported to be present in a section measured in the Wolverine-Sukunka River area (Gibson, 1972). Gibson (1975) has suggested that the better phosphate occurrences are associated with the shelf deposition where slow sedimentation of detritus did not dilute the accumulating phosphate. Gibson (1975) has interpreted the deposition of the phosphate within the Whistler Member to be controlled by a shallow water high energy environment above normal wave base where winnowing of detrital has concentrated the phosphate.

The Llama member varies from 60 to 360m in thickness and is a resistant sequence of dolomitic and quartzitic siltstone and limestone with minor sandstone and dolostone and conformably overly the Whistler member. Phosphate has been reported by Gibson (1972) from a single section measured on Meosin Mountain that was sampled by Pacific Ridge personnel in 2008.

### **3.3 Statistical Analysis**

Pacific Ridge crews collected 459 samples during the Tumbler Ridge Project 2008 field season. The samples include 132 grab and 128 float samples from the Phase I exploration program and 199 rock chip trench samples from the Phase II follow up portion of the program. A statistical analysis of the data was completed on various populations. The results are displayed graphically in Appendix III.

The histograms were used as an aid to identify the appropriate anomaly thresholds for each of the thematic maps generated for phosphate, yttrium, cerium and lanthanum. In general, the inflection points are of interest when choosing the correct values. The approximate anomaly threshold values as determined from the inflection points are 10% for phosphate, 175 ppm for lanthanum, 280 ppm for yttrium and > for 175 ppm cerium.

It was determined that including trench sample populations with the general prospecting sample groups made no difference to the overall threshold values obtained..

### **3.4 Mineralization and Sampling Results**

The target sought for at Tumbler Ridge Project is a sedimentary-style phosphate deposit. Pacific Ridge structured the 2008 exploration program to prospect and sample prospective showings and horizons with focus to the Whistler Member of the Sulphur Mountain Formation for phosphate bearing zones as highlighted by S. Butrenchuck's Bulletin 98. Exploration prospecting and sampling was conducted over a large portion of the 127 km long claim package from Meosin Mountain in the southwestern portion of the claims to Mount Palsson in the northwest. Pacific Ridge crews procured more than 450 samples during the 2008 field season including 132 grab and 128 float Phase I exploration rock samples and 199 Phase II rock chip trench samples. A total of 313 man field days were charged to the project.

The best phosphate (% P<sub>2</sub>O<sub>5</sub>) values over significant widths are located within the Wapiti and Tunnel Zones with values to 34.7% P<sub>2</sub>O<sub>5</sub> over 2 metres and 19.4% P<sub>2</sub>O<sub>5</sub> over 3 meters respectively. Detailed trenching of the Muinok Zone revealed wider lower grade zones of 6 to 10m widths of 4% to 8% P<sub>2</sub>O<sub>5</sub> and locally narrow discontinuous higher grade zones with grades between 14.9% to 21.0% P<sub>2</sub>O<sub>5</sub> over 1m.

Exploration within the Tumbler Ridge project exploration program has demonstrated that significant areas of high grade sedimentary phosphate are located within the Wapiti and Tunnel Zones which warrant additional follow up exploration including geological mapping, trench sampling and diamond drilling. Additional prospects that require prospecting, sampling and trenching include the Windy Camp, Mount Palsson and Mesoin areas where initial prospecting has returned grab samples up to 26.4% P<sub>2</sub>O<sub>5</sub>.

#### **3.4.1 WAPITI ZONE**

The Wapiti property encompassing 15 claims and 68.3 sq km was optioned by Pacific Ridge from Lateegra Gold Corp. in July 2008 who staked the Wapiti and W claims during April 2008. The property covers an approximate 18 kilometre-long strike length of prospective phosphate bearing sediments and is well located with road access to the northern and central portions of the claim group from logging and oil field access roads from Tumbler Ridge.

Previous work was carried out by Esso Resources Canada Limited ("Esso") during the period from 1978 to 1980 who, after completing reconnaissance style work during 1978 and 1979 focused on the Wapiti area completing detailed trenching, sampling and core drilling during 1980. The Esso work straddles the Lateegra Wapiti claim block and the Wapiti Provincial Park which borders the claims to the north. Eight holes of the 12 hole program were completed on the 15 claim area now under option to Pacific Ridge. See Compilation Esso Resources Canada and Pacific Ridge, Map 2 in Volume II of report. Note that during the 1980's the Wapiti Park did not exist, Esso's 1980 work included trenching and drilling in the area now covered by the Park.

Trench and drill results from the 1980 Esso work program outlined phosphate bearing strata of economic interest over an approximate 5 km strike length that ranges in thickness from one to three metres. Phosphate grades up to 1.1m of 21.2% P<sub>2</sub>O<sub>5</sub> from surface trench samples and 1.6m of 26.3% P<sub>2</sub>O<sub>5</sub> from the drilling of 8 diamond drill holes were obtained during Esso's 1980 exploration program. Refer to Compilation Map 2. Samples procured by the Geological Survey (S. Butrenchuk, 1986 -1987) are also known to contain additional significant levels of rare earth metals and acceptable levels of carbonate content.. A summary of the data is given below in Tables 2 Summary 1980 Esso Drill Data (Table 3) and 1980 Esso Trench Data (Table 4).

A total of 4 grab and 26 chip samples (predominately hand trenches samples, Table 5) were obtained from the Wapiti Zone during the Pacific Ridge's 2008 exploration program to confirm previous reported grade- thickness results. Refer Map 3 for the 2008 sample results. Sampling during 2008 of the Wapiti Zone in close proximity to the DDH 6-11 and DDH 6-12 drill site (previous results of 0.71m of 22.3% P<sub>2</sub>O<sub>5</sub> and 1.07m of 20.3% P<sub>2</sub>O<sub>5</sub> respectively) showed that the 1980 grade-thickness results correlated very well with 2008 surface sample GN-08 – 09 which assayed 22.62 % P<sub>2</sub>O<sub>5</sub> over 0.95m (Refer to Photos 2, 3 & 4).



Also results from GN-08 25 of 24.5% P2O5 over 1.05m, correlated well with the grade-thickness results from sampled intercepts in DDH 3-5 (1.08m of 23.77% P2O5) and DDH 3-6 (0.91m of 23.2% P2O5).

The phosphate bearing sediments at the Wapiti Zone have been folded into a series of northwest trending broad synclines and tight anticlines which have been modified by thrust faulting (Refer to Map 2 Compilation Map modified from Esso's Assessment Report 8407, on the Wapiti #1 to 25 Claims by K.J. Hefferan). The phosphorite unit of interest lies at the base of the Whistler Member of the Sulphur Mountain Formation. The base of the phosphorite bed is marked

**TABLE 3, HISTORIC DRILL HOLE ASSAYS – WAPITI ZONE**

**1980 ESSO RESOURCES DRILLING**

<b>Drill Hole</b>	<b>Location (Lat; Long)</b>	<b>AZ</b>	<b>Dip</b>	<b>Intercept (m)</b>	<b>Length (m)</b>	<b>P2O5 %</b>
DDH 1-1	54° 30' 15"; 120° 41' 21"	065°	45°	57.72 to 58.28	0.56	8.22
				59.47 to 60.65	1.18	13.7
				59.46 to 59.88	0.41	22.72
DDH 1-2	54° 30' 15"; 120° 41' 21"	065°	75°	89.89 to 91.90	2.01	14.82
				89.89 to 90.74	0.85	24.26
DDH-2-3	54° 30' 02"; 120° 40' 52"	051°	60°	21.88 to 25.20	3.32	11.04
				23.22 to 24.36	1.14	22.71
DDH-2-4	54° 30' 02"; 120° 40' 52"	051°	90°	37.75 to 38.41	0.66	9.15
				40.30 to 43.68	3.38	15.38
				40.30 to 42.03	1.73	26.31
DDH-3-5	54° 29' 43"; 120° 40' 31"	032°	60°	39.85 to 42.93	3.08	10.2
				41.17 to 42.93	1.76	15.87
				41.17 to 42.68	1.43	18.09
				41.17 to 42.25	1.08	22.01
DDH-3-6	54° 29' 43"; 120° 40' 31"	032°	90°	34.02 to 36.15	2.13	14.7
				34.50 to 35.85	1.35	19.0
				34.50 to 35.41	0.91	25.5
DDH-6-11	54° 28' 00"; 120° 38' 05"	061°	45°	66.39 to 67.25	0.86	7.78
				69.54 to 71.0	1.46	13.8
				69.98 to 70.69	0.71	22.32
DDH-6-12	54° 28' 00"; 120° 38' 05"	061°	75°	88.16 to 91.47	3.31	5.56
				93.84 to 95.16	1.33	18.68
				94.09 to 95.16	1.07	20.29

**Average of Intersections**

**1.0m**

**23.5% P2O5**

by a thin phosphatic conglomerate (Bulletin 98, Wapiti Lake, page 62).

Overall, the Wapiti Zone exhibits one of the best grade- thickness phosphorite units sampled to date on the Tumbler Ridge Phosphate Project. On average the zone of interest where it has been trench sampled by Esso returned 22.1% P2O5 over 1.0m. The Esso core drilling, to a maximum depth of approximately 90m, returned an average of 23.5% P2O5 over 1.2m.

Eight samples (predominately hand trench samples) collected northerly from drill site DDH 6-11&12 returned an average grade of 27.1% P2O5 over 1.0m. The zone from the drill site northerly traverses 4.2 km of the prospective phosphate horizon. Southerly from drill site DDH 6-11 and 12 there is a significant increase in P2O5 grade with 3 samples averaging 31.23% P2O5 over 1.67m (Photo 2). The zone was hand trenched (Pacific Ridge -2008) in several locations over an approximate 700m strike length bringing the overall strike length of the phosphorite zone to 4.93km. Refer to Appendix II for listing of all the Lateegra samples procured by Pacific Ridge during the 2008 field season (Wapiti sample information including sample type, geology and Acme analyses).

Other minerals of interest include rare earths, yttrium (Y), lanthanum (La) and cerium (Ce). A total of 23 samples of high grade phosphorite from the various zones were analyzed including 8 samples from Wapiti Zone. The Wapiti Zone is anomalous in certain rare earths with a range of values from 76 - 752 ppm Y, 47.5 - 360 ppm La and 45.8 - 173 ppm Ce and with averages of 438.1 ppm Y, 215.7 ppm La and 108.1 ppm Ce. Refer to Appendix I for additional sample data and Maps 10, 11 and 12 for location of anomalous samples.

**TABLE 4**

**HISTORIC TRENCH ASSAYS – WAPITI ZONE**

**1980 ESSO RESOURCE**

<b>Trench No.</b>	<b>Location</b>	<b>From : To</b>	<b>Length (m)</b>	<b>P2O5 %</b>	<b>Selected Length (m)</b>	<b>Intervals P2O5%</b>
TE-05	648400E; 6039750N	0.95 to 2.51	1.56	18.60		
		0.95 to 2.15	1.2	21.96	1.2	21.96
TE-06	647550E; 6040250N	0.40 to 4.29	3.89	10.29		
		1.29 to 4.06	2.85	13.29		
		1.21 to 1.69	0.48	22.29		
		3.41 to 4.06	0.65	22.70	0.65	22.70
TG -01	650225E; 6041300N	0.60 to 1.51	0.91	6.4		
		1.51 to 2.44	0.93	22.34	0.93	22.34
TG -02	650500E; 6040925N	0.4 to 1.13	0.73	7.02		
		1.13 to 2.12	0.99	23.59	0.99	23.59
		2.12 to 3.57	1.45	2.83		
TR-03	650850E; 6040450N	1.36 to 3.2	1.84	16.245		
		2.12 to 3.2	1.08	21.16	1.08	21.16
TR-04	650950E; 6040350N	0.91 to 2.44	1.53	15.46		
		1.54 to 2.44	0.90	20.72	0.90	20.72
UTM Co-ordinates Nad 27, Zone 10				Average	0.96	22.0



## **The Phosphorite Unit**

The following general description of the phosphate section from trench mapping and from logging core is taken from Esso's Report on Geological Mapping, Sampling and Drilling Wapiti #1 – 25 Claims (K.J. Heffernan, 1980).

“Whistler: Black and dark grey, carbonaceous, shaly, calcareous siltstone with algal and bio-clastic laminations. Less than 2% P205.

Upper Phosphate: Dark grey, faintly laminated calcareous siltstone with scattered silt and sand-sized pellets, pelletal laminations, and pelletal rip-up clasts, (with grade range of) 6-20% P205; 0.1 to 0.35m (thick).

Whistler Interbed: Light grey, faintly laminated calcareous siltstone. 0.5 to 1.5% P205 (grade range), 0.3-1.5 m (thick).

Main Zone: Black, dark grey or salt and pepper coloured pelletal phosphorite, generally calcite cement, some fine skeletal debris, rare evidence of burrows. In places, this zone has the appearance of a conglomerate with clasts and matrix composed of the same material, 15-25% P205 (grade range); 0.3 to 0.8 m (thick).

Conglomerate Unit: Dark grey, calcareous, conglomeratic siltstone. Clasts are dark grey, silty, occasionally bored, and rarely contain fine skeletal debris, presumed phosphatic. Matrix is tan to light grey calcareous silt with some pellets, abundant sparry calcite, and fossil fragments (including bones), 15-25% P205 (grade range); 0.1 to 0.3 m (thick).

Vega Interbed: Light grey, calcareous, bioturbated siltstone, scattered pellets infill some burrows. 0.5 to 2.5% P205 (grade range); 0.2 to 3.5 m (thick).

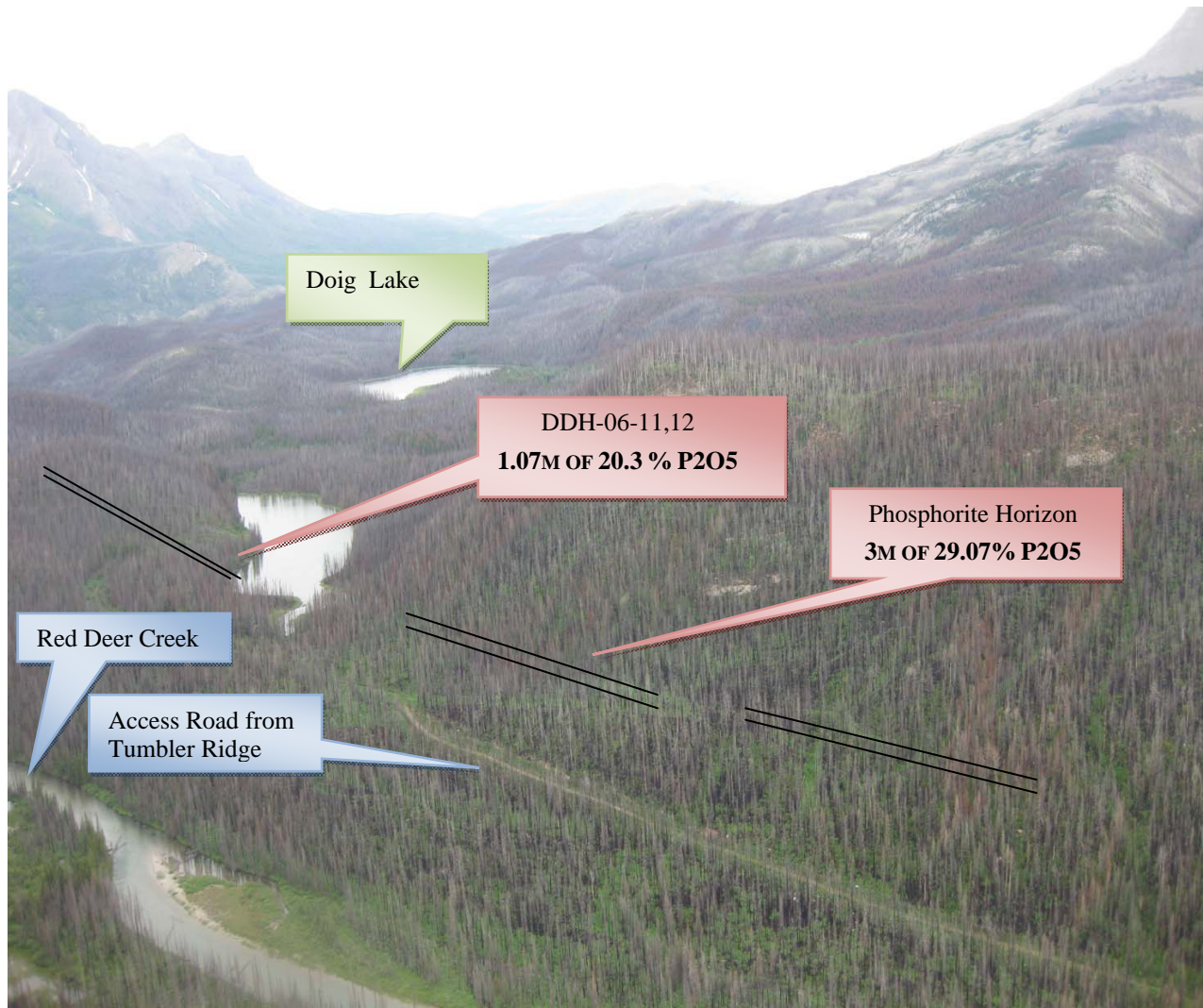


Photo 2

Wapiti Zone Doig Lake Area



Photo 3

WAPITI ZONE adjacent to ESSO 1980 DDH – 6-11 & 6-12

**TABLE 5 TRENCH RESULTS WAPITI ZONE (Pacific Ridge 2008)**

<u>Trench</u>	<u>Interval (m)</u>	<u>P2O5 (%)</u>	<u>Including (m)</u>	<u>P2O5 (%)</u>
#1	2.0	13.05	0.3	25.5
#2	2.0	15.4	1.0	28.9
#3	3.0	28.97	2.0	31.3
#4	3.0	29.07	2.0	34.7
#5	2.0	22.5	1.0	30.5
#6	3.0	2.43	1.0	4.9





**Photo 4 WAPITI ZONE : High Grade Phosphorite (22.6% P<sub>2</sub>O<sub>5</sub>), area adjacent to DDH-6-11& 6-12**

### **Wapiti Phosphorite Open Pit Potential**

GSC Bulletin 98 suggests that the east limb of the Wapiti Syncline offers potential for dip slope mineralization within a potential open pit configuration. The Wapiti claims cover a portion of the phosphorite unit as it is folded by the Wapiti Syncline (Refer to Section WZ-080-01).

With respect to preliminary sectional work completed to date, potential for an open pit mining scenario exists on the Wapiti Zone positioned on the northwest portion of the Red Deer Syncline where parasitic folds provide dip slope horizon repeats along the hillside. Refer to Section WZ – 08 - 02. The phosphorite unit where sampled in trenches TG-01, TR # 02,03 & 04 exhibits a unit approximately 1m thick averaging 22% P<sub>2</sub>O<sub>5</sub> (Table 4).

Additional work is required to determine the dip slope geometry of the phosphorite units.

### **3.4.2 TUNNEL ZONE**

The Tunnel Zone (Photo 6) was discovered during Phase I of the 2008 Tumbler Ridge Exploration prospecting and sampling program within prospective rocks of the Triassic Sulphur Mountain Formation, Whistler Member. The zone is located approximately 10km south southeast from Mount Crum and adjacent to Prince George to Tumbler Ridge B.C. rail line which passes under the Rocky Mountains at the Wolverine Tunnel (Figures 1 & 2). The project area centered at 54° 55' 48" north latitude and 121° 35' 00" west longitude is well located near the railhead as well and within easy access of Sukunka gravel haul road which terminates at the rail line tunnel entrance.

A total of 50 grab and float samples were collected during Phase I Exploration Program and 33 chip samples from Phase II were taken from hand trenching and chip sampling of exposed bed rock of 7 trench sites. The trenches span a strike length of 900 m of prospective phosphate bearing sediments.

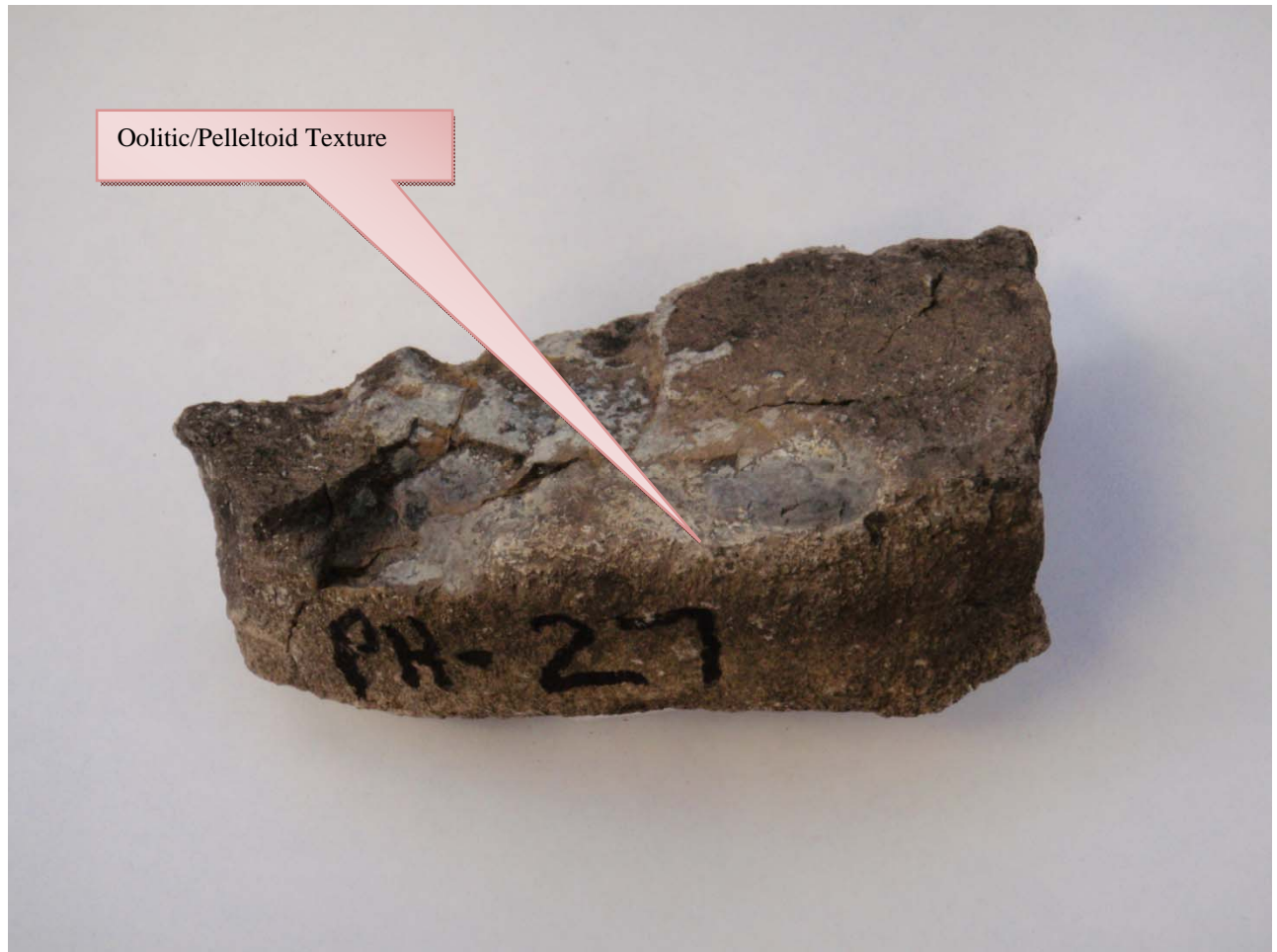
The Tunnel Zone phosphorite as defined by the 2008 hand trenching program averages 3.6m of 16.07% P<sub>2</sub>O<sub>5</sub> or 2.1m of 18.3% P<sub>2</sub>O<sub>5</sub> over a strike length of 900m. Refer to Table 6 and Map 4 located in the map pouches at the back of the report for detailed results of the program. Preliminary compilation of government geology and Pacific Ridge samples collection sites suggests that opportunities for possible open pitable phosphorite resources exist at the Tunnel Zone. Refer to Sections TZ -08-01 & TZ-08-02.

Other minerals of interest include rare earths, yttrium, lanthanum and cerium. A plot of these minerals, Figures 4,5 and 6, show that the Tunnel is weakly anomalous in these rare earths with a range of values from 104 - 206 ppm Y, 54 - 111 ppm La and 47 - 66 ppm Ce and with averages (8 samples analyzed) of 172.7 ppm Y, 89.0 ppm La and 57.4 ppm Ce. Refer to Appendix I for additional sample data and Maps 10, 11 and 12 for location of anomalous samples.

Results and highlights of the trench program are given below:

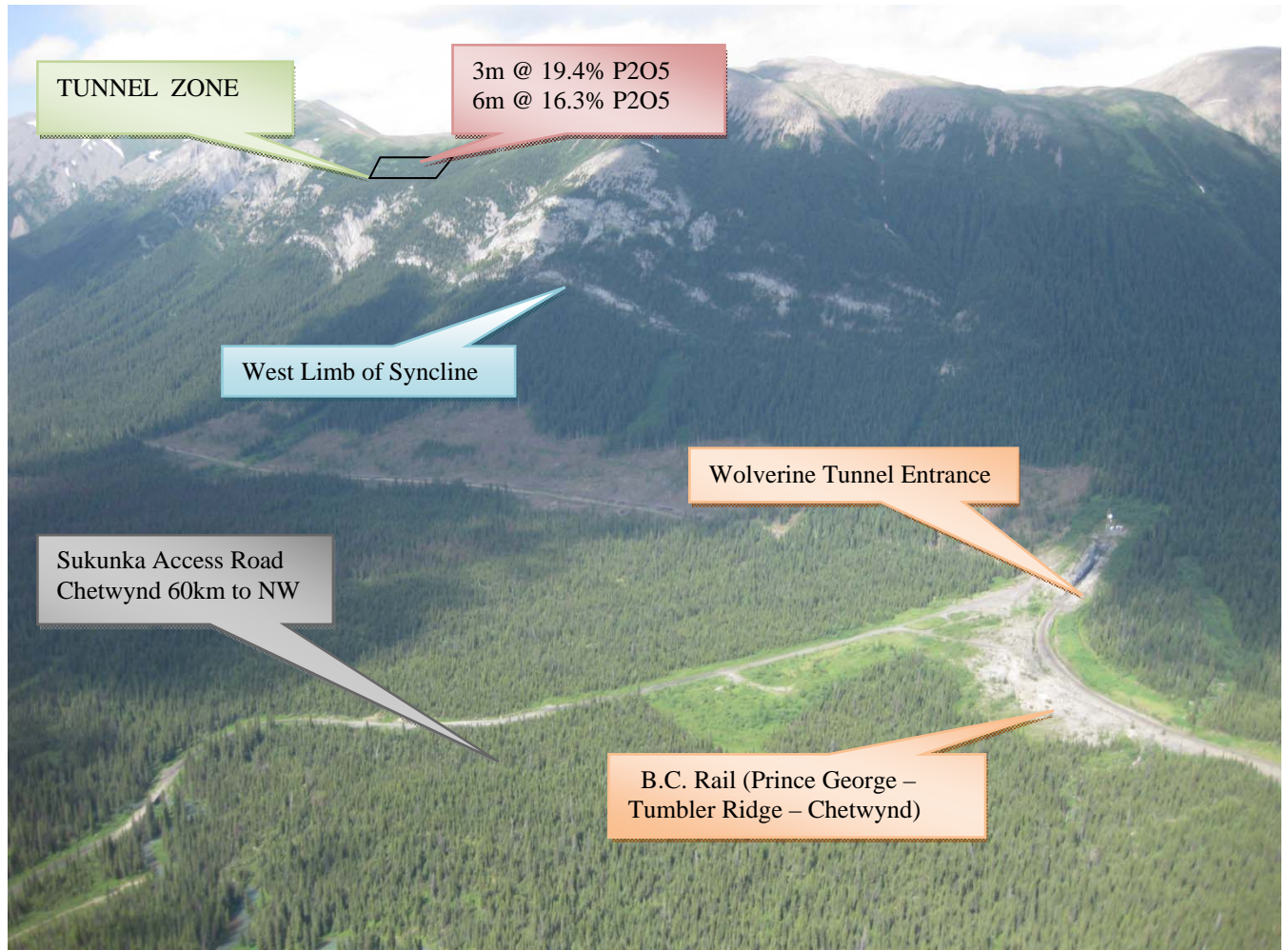
**TABLE 6 TRENCH RESULTS TUNNEL ZONE (Pacific Ridge 2008)**

<b>Trench</b>	<b>Interval (m)</b>	<b>P<sub>2</sub>O<sub>5</sub> (%)</b>	<b>Including (m)</b>	<b>P<sub>2</sub>O<sub>5</sub> (%)</b>	<b>Comments</b>
#1	3.0	19.4	2.0	19.7	includes 1.0m of 20.3%
#2	6.0	16.3	3.0	18.8	includes 2.0m of 21.0%
#3	3.0	17.1			
#4	1.0	13.2			
#5	3.0	17.7	2.0	18.1	
#6	5.0	15.8	2.0	19.7	
#7	4.0	12.3	2.0	19.5	See Photo 5: Phosphate mineralization



**Photo 5**      **Tunnel Area Phosphorite: High grade sample : 2m of 19.48% P<sub>2</sub>O<sub>5</sub>**





**Photo 6**

**Tunnel Zone Area**

With respect an initial and preliminary evaluation of the Tunnel area, the Tunnel Phosphorite Zone presents an attractive target for mining phosphate resources when considering the economically significant grades 16% to 20% P<sub>2</sub>O<sub>5</sub> discovered in trenching to date over significant widths (up to 6m), the excellent accessibility (road and rail) and the attractive low strip open pit mining possibilities.



### 3.4.3 MUINOK ZONE

The Muinok Zone was discovered during Phase I of the 2008 Tumbler Ridge Exploration prospecting and sampling program within prospective rocks of the Triassic Sulphur Mountain Formation, Whistler Member. The zone is located 2km west of Muinok Mountain and centered at 54° 20' 20" north latitude and 120° 25' 30" west longitude (Figure 2). A total of 67 grab samples were collected during Phase I Exploration Program and 133 chip sample were taken during hand trenching of 9 trenches dug and sampled over 400 m of phosphate-bearing sediments.

The Muinok Zone as defined by trenching to date varies from 2 to 10m wide over the 400m length. Trench samples defined to date average 3.4% P<sub>2</sub>O<sub>5</sub> over 7.8m. Narrower zones averaging 7.5% and 11.8% P<sub>2</sub>O<sub>5</sub> over 6.0 and 4.0m respectively and spot highs of 16.0 to 21% over 1.0m widths have also been defined. Refer to Map 5 and Table 5 for results of the program.



**Photo 7**

**TRENCH # 1 MUINOK MOUNTAIN**

A preliminary evaluation of the zone, suggests that grade and thickness as outline by the 2008 trenching program at the Muniok Zone are not of economic significance and provide little opportunity to define resources through drilling. Results and highlights of the trench program are provided withi Table 7.

**TABLE 7 TRENCH RESULTS MUINOK ZONE**

<b>Trench</b>	<b>Interval (m)</b>	<b>P2O5 (%)</b>	<b>Including (m)</b>	<b>P2O5 (%)</b>	<b>Comments</b>
#1	7.0	3.68	5.0	4.5	Sample # 48960, 50m west – 1.5m -15.24% P2O5 Sample # 47161, 20m north – 0.7m – 7.6%
#2	11.0	1.3			
#3	10.0	3.3	2.0	5.9	
#4	8.0	2.79			Trench grab 16.2% P2O5 – Grabs west of trench in talus of to 18.9% P2O5
#5	10.0	4.0	3.0	10.5	including 1.0m of 21.03%
#5a	4.0	2.8			
#6	6.0	2.81	4.0	11.8	including 2.0m of 16.0%
#7	2.0	2.97			
#8	6.0	7.66	2.0	11.8	
#9	6.0	3.97	1.0	13.4	

**3.44 MOUNT PALSSON AREA**

Initial sampling of the Mount Palsson phosphatic sediments was carried out by the British Columbia Geological Survey Branch during the period 1986 to 1987. Two samples taken in returned anomalous phosphate values averaging 26.4% P2O5 as well contained anomalous values in vanadium to 566 ppm and yttrium to 227 ppm. As part of Pacific Ridge's property orientation with Future Metals, an attempt was made to locate and resample the GSC site. To that end, prospecting within the vicinity of the GSC co-ordinates turned up anomalous phosphatic float at location (577390 E, 6105901 N UTM: Nad 83 co-ordinates ). Sample GN-08-PH-12 was collected and analyzed for P2O5. Although the talus sample appears to have originated from a relatively thin bed (~8cm thick) the grade was economically significant at 24.5% P2O5. No additional sampling in the Mount Palsson area was completed due to time restraints and higher priority target areas. Refer to Appendix I, Sample Ledgers for additional sample details and Map 6 for Phosphate Rock Geochemistry sample locations.

**3.45 MEOSIN MOUNTAIN AREA**

Initial sampling of the phosphatic sediments in the Meosin Mountain area was carried out by the Geological Survey of Canada (GSC) during 1987. Sample SB 87-6 (located at 54° 17' 05" north latitude and 120° 19' 40" E longitude) returned anomalous phosphate values grading up to 23.64% P2O5. Sampling of the site reported by the GSC failed to locate the high grade phosphate mineralization with best result from sample GN 08-07 of 6.5% P2O. Additional follow up work later in the summer by Future Metals located phosphatic sediments which returned a value of 24.67% P2O5 (sample 48904 located approximately 800m to the NW of the SB 87-6). Refer to Appendix I, Sample Ledgers and Map

7 located in the map pouches at the back of the report for additional information on analyses of 3 additional samples taken in the area. Only preliminary investigations have been made in the Meosin Mountain area with additional prospecting and sampling follow up required.

### **3.46 WINDY CAMP AREA**

Prospecting and sampling the Whistler Member of the Sulphur Mountain Formation within the Windy Camp Area located 9km northwest of Wapiti Lake and centered at 54° 37' 00" N latitude and 120° 55' 00" E longitude discovered anomalous phosphate within the Whistler Member of the Sulphur Mountain Formation. Anomalous phosphatic sediments have been traced for approximately 7km in a northwest – southeasterly strike direction. A total of 70 float and grab samples rock samples were collected; 17 of the higher grade samples average 17.7% P<sub>2</sub>O<sub>5</sub>. Sampling in one local discovered 2 phosphatic beds which are approximately 3m to 5m apart and average 0.5m to 1m thick. Additional exploration prospecting and sampling in the Windy Camp Area is warranted. The Windy camp area warrents follow up exploration with detailed prospecting, sampling and hand trenching.

Other minerals of interest include rare earths, yttrium, lanthanum and cerium. Windy Camp area is anomalous in these rare earths (Refer to Appendix 1, Statistical Analysis Plots and Maps 10,11 & 12) with a range of values from 99 - 353 ppm Y, 50 - 172 ppm La and 50 - 89 ppm Ce and with averages (4 samples analyzed are: 228.2 ppm Y, 114.6 ppm La and 60.85 ppm Ce.

Refer to Appendix I, Sample Ledgers and Map 8 located in the map pouches at the back of the report for additional sample and analytical data.

### **3.47 HOOK LAKE AREA**

Anomalous phosphatic sediments were discovered within the Whistler Member of the Sulphur Mountain Formation in the Hook Lake Area. The anomalous sediments trend for approximately 10km along Albright Ridge. The area is located approximately 30km southeasterly from the BC rail line at the Wolverine Tunnel and Sukunka gravel road and centered at 54° 50' 00" N latitude and 121° 25' 00" E. A total of 78 float and grab samples rock samples were collected and analyzed for % P<sub>2</sub>O<sub>5</sub>; the majority of samples returned low grade % P<sub>2</sub>O<sub>5</sub> values. Seven of the higher grade samples average 8.1% P<sub>2</sub>O; the four highest grade samples range from 10.1 to 20.3% P<sub>2</sub>O<sub>5</sub>.The area returned low values for rare earth minerals. The Hook Lake area is considered low priority target for follow up exploration work. Refer to Appendix I, Sample Ledgers and Map 9 located in the map pouches at the back of the report for additional sample and analytical data.

## **3.5 DEPOSIT MODEL**

The deposit model at the Tumbler Ridge Project is a phosphatic sedimentary-style deposit. Gibson (1975) has suggested that the better phosphate occurrences are associated with the shelf deposition where slow sedimentation of detritus did not dilute phosphate deposition. Within the Tumbler Ridge Phosphate project area, the majority of the known phosphate occurrences and phosphatic sediments occur in the Whistler member of the Sulphur Mountain Formation and in correlative rocks of the Toad Formation. Phosphate is found in the form of pellets, nodules, phosphate cement, phosphatic fragments, or clasts and phosphatized fossil debris. Minor phosphate is also present within the other members

#### 4.0 ANALYSIS and ASSAYING

A total of 459 rock samples were collected during the 2008 field season. George Norman, P. Geo. and Future Metals technical crew under the supervision of Michael Renning collected all the samples. All samples were submitted to Acme Analytical Laboratories Ltd. "ACME", Vancouver, B.C. for analyses, utilizing Acme's Group 4A and 4B analytical packages. With respect to Group 4A, whole rock analysis by ICP, Pacific Ridge specifically requested analysis for %P2O5 only; however, many assay certificates reported additional oxides and elements. With respect to Group 4B analytical package, whole trace elements analyzed by ICP- Mass Spectrometer included Yttrium (Y), Lanthanum (La) and Cerium (Ce). Sample location maps are located within the pocket of this report. Assay certificates are included in Appendix II.

##### 4.1 *Sampling Method and Chain of Custody*

All samples were collected from various prospects located within the property. The rock samples were collected either collected as a continuous chip sample or a grab samples from outcrops or as float samples and stored in 6 mill plastic bags. All samples were packed into plastic pails and flown via helicopter from the Tumbler Ridge property to Chetwynd. From Chetwynd the samples were either shipped via Greyhound or transported by Michael Renning to ACME's facilities in Vancouver.

##### 4.2 *Sample Preparation, Analysis and Security*

ACME is an ISO 9002 registered and accredited laboratory. All work is guaranteed to ISO 9002 standards. Rock samples were crushed and pulverized to -200 mesh and analyzed by HNO3 digestion and ICP emission spectrograph for the Group 4A (P2O5) and Group 4B (34 elements including Y, La, Ce and U). A more detailed flow sheet for the analytical procedures is given in Appendix IV. The assay certificates are included within Appendix II.

##### 4.3 *Quality Control and Data Verification*

Acme Labs QA/QC protocol incorporates a sample-prep blank (G-1) as the first sample of the job which is carried through all stages of preparation to analysis. A batch of 36 samples incorporates a pulp duplicate to monitor analytical precision and a reagent blank to measure background and aliquots on in-house reference material (SO-18 or CSC). Data undergoes verification by a British Columbia Certified Assayer who then validates the results before it is released.

#### 5.0 2008 EXPLORATION EXPENITURES

Table 8 below summarizes the expenditures of the 2008 Tumbler Ridge Phosphate project exploration program.

**TABLE 8 2008 Tumbler Ridge Project Exploration Expenditures**

Analysis (%P2O5, whole rock)	11,525
Contract Prospecting, Sampling	167,424
Computer Drafting Maps	10,000
Report Preparation	15,755
Consumables	32,402
Transportation – Helicopter	68,095
Transportation – Vehicle	24,603
<u>Consulting, Project Management</u>	<u>34,669</u>
<b><u>TOTAL EXPENDITURES:</u></b>	<b><u>\$364,473</u></b>

The above table outlines the total monies expended on the Tumbler Ridge Phosphate project for the 2008 exploration program. Refer to Appendix V for breakdown of costs for specific claim areas as required for assessment purposes. The various breakdowns include: 1) Area north of Wapiti Provincial Park including Windy Camp Area claims, Tunnel Area and Mount Palsson Area claims, 2) Pacific Ridge claim block south of the Wapiti claim group, 3) Wapiti claim group (15claims).

## 6.0 2009 RECOMMENDED EXPLORATION EXPENITURES

An exploration program of \$700,000 is recommended including prospecting, geological mapping, trenching, sampling and 1000m of diamond drilling in 7 holes on the Wapiti and Tunnel Zones.

**TABLE 9 2009 Tumbler Ridge Project Exploration Expenditures**

Analysis – Assays	20,000
Accommodation	5,000
Contract Prospecting, Sampling	240,000
Computer Drafting Maps	15,000
Expediting- Telephone/Computer	5,000
Equipment – Consumables	50,000
Transportation – Helicopter	100,000
Transportation – Airlines	5,000
Transportation – Vehicle	50,000
Transportation - Freight	10,000
Diamond Drilling 1000m @150/m	150,000
Consulting, Project Management	50,000
<b><u>TOTAL PROPOSED EXPENDITURES:</u></b>	<b><u>\$700,000</u></b>

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

The Tumbler Ridge Phosphate property covers a 127 kilometre long belt of sedimentary rocks with one member hosting widespread phosphate mineralization. Attractive grades of phosphate were defined by surface work that now warrants follow-up exploration including drill testing. The Tumble Ridge project is located within the Liard Mining Division in north-central B.C. approximately 145 km northeasterly from Prince George and 40km southerly from the town of Tumbler Ridge. Pacific Ridge controls an accumulative length of 127 km of prospective sedimentary phosphate bearing stratigraphy located within 137 mineral claims covering a 585.3 sq km area of which 88% (517 sq km) is 100% owned by Pacific Ridge as well as the Wapiti property (15 claims encompassing 68.3 sq km) which was optioned from Lateegra Gold Corp. in July 2008.

Pacific Ridge Exploration Ltd. contracted the services of Future Metals Inc. who conducted helicopter supported reconnaissance style sampling and follow-up hand trenching of anomalous phosphate bearing stratigraphy during the course of the 2008 field season from July to September 2008. Fieldwork consisted of Phase I reconnaissance rock sampling program and a Phase II follow-up hand trenching program.. The Phase II program hand trenching program concentrated on three (3) follow-up target areas comprising the Wapiti, Tunnel and Muinok Zones.

The Tumbler Ridge Property is underlain by Lower and Middle Triassic Sulphur Mountain Formation, Permian Belcourt and Mowich Formations, Lower Carboniferous Rundle Group and Upper Devonian Exshaw and Banff Formations. The stratigraphy comprises a northwest–southeast trending belt of rocks that have been traced the full extent of the 127 km long property. The units have been folded into northwest – southeast trending tight anticlines and relatively broad synclines.

Within the project area, the majority of the known phosphate occurrences and phosphatic sediments occur in the Whistler member of the Sulphur Mountain Formation and in correlative rocks of the Toad Formation. Phosphate is found in the form of pellets, nodules, phosphate cement, phosphatic fragments, or clasts and phosphatized fossil debris. The Sulphur Mountain Formation is divided into Vega-Phroso, Whistler and Llama members. The Vega-Phroso Member overlies Permian strata.

The target sought for at Tumbler Ridge Project is a sedimentary-style phosphate deposit. Pacific Ridge designed the 2008 exploration program to prospect for and sample prospective phosphate showings and horizons with focus on the Sulphur Mount Formation, Whistler Member for phosphate-bearing zones as identified by S. Butrenchuck's Bulletin 98 (BC Geological Survey Branch). Prospecting and sampling was conducted over a large portion of the 127 km long claim package from Meosin Mountain in the southwestern portion of the claims to the Mount Palsson to the northwest. Pacific Ridge crews collected 459 samples during the 2008 field season including 132 grab and 128 float samples (Phase I exploration samples) and 200 Phase II rock chip trench samples.

The best phosphate (% P<sub>2</sub>O<sub>5</sub>) values defined over significant widths are located within the Wapiti and Tunnel Zones with values to 34.7% P<sub>2</sub>O<sub>5</sub> over 2 metres and 19.4% P<sub>2</sub>O<sub>5</sub> over 3 meters respectively. Detailed trenching of the Muinok Zone revealed wider lower grade zones with 6 to 10m widths of 4% to 8% P<sub>2</sub>O<sub>5</sub> and a narrow higher grade zone with grades varying between 14.9% to 21.0% P<sub>2</sub>O<sub>5</sub> over 1.0 metre intervals.

Overall, the Wapiti Zone exhibits one of the best grade- thickness phosphorite units sampled to date within the Tumbler Ridge Phosphate Project. On average the zone of interest where was previously trench sampled by Esso returned 22.1% P<sub>2</sub>O<sub>5</sub> over 1.0 metre and from the Esso core drilling to a maximum depth of approximately 90m on the zone of interest returned an average of 23.5% P<sub>2</sub>O<sub>5</sub> over 1.2 metres.

At Wapiti, eight samples collected to the north of drill site DDH 6-11&12 returned an average grade of 27.1% over 1.0m. The zone from the drill site northerly contains 4.2 km of the prospective phosphate horizon. Southerly from drill site DDH 6-11 and 12 there is a significant increase in P<sub>2</sub>O<sub>5</sub> grade with samples averaging to 29.07% P<sub>2</sub>O<sub>5</sub> over 3.0m (including 2m of 34.7% P<sub>2</sub>O<sub>5</sub>). The zone was hand trenched (Pacific Ridge -2008) in several locations over an approximate 700m strike length bringing the overall strike length of the phosphorite zone to 4.9km. Potential exists within the Wapiti Zone to host an open pitable phosphorite.

With respect to an initial preliminary evaluation of the zone, it is the opinion of the author that grades and widths returned to date are of economic significance owing to Pacific Ridge's mandate to locate phosphates resources averaging in the order of 18% to 20% P<sub>2</sub>O<sub>5</sub>. Additional compilation of the 1980 Esso exploration work and Pacific Ridge work including sectional work is required to decide if the phosphorite units are open pitable. Additional hand trenching and diamond drilling is recommended for exploration work in 2009.

The Tunnel Zone was discovered during Phase I of the 2008 Tumbler Ridge Exploration prospecting and sampling program within prospective rocks of the Triassic Sulphur Mountain Formation, Whistler Member. The zone is located approximately 10km south southeast from Mount Crum and adjacent to Prince George to Tumbler Ridge B.C. rail line which passes under the Rocky Mountains at the Wolverine Tunnel. The Tunnel Zone phosphorite as defined by trenching to date averages 3.6m of 16.07% P<sub>2</sub>O<sub>5</sub> including 2.1m of 18.3% P<sub>2</sub>O<sub>5</sub> over a strike length of 900m. With respect an initial preliminary evaluation of the Tunnel area, it is the opinion of the authors that the Tunnel Phosphorite Zone becomes an attractive target for mining phosphate resources when considering that potentially economically significant grades of 16% to 20% P<sub>2</sub>O<sub>5</sub> have been discovered in trenching to date over significant widths up to 6m, that access is excellent by road and rail line and that there is possibilities for an attractive low strip open pit mining operation. Additional hand trenching and diamond drilling is recommended for exploration work in 2009.

Exploration within the Tumbler Ridge project area has demonstrated that significant amounts of high grade sedimentary phosphate are located within the Wapiti and Tunnel Zones which are easily accessed and exhibit attractive mining possibilities. Additional follow-up exploration including diamond drilling is warranted. Prospects that require additional prospecting and sampling include the Windy Camp, Mount Palsson and Mesoin areas where initial prospecting has returned grab samples up to 26.4% P<sub>2</sub>O<sub>5</sub>.

A recommended program of \$700,000 is warranted including 1000m of drilling in 7 holes on the Wapiti and Tunnel Zones.

Dated at Vancouver, BC, this 14th day of February, 2009

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George Norman, P. Geo

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Michael Renning,

## **8.0 CERTIFICATE OF QUALIFICATIONS**

### **8.1 CERTIFICATE OF QUALIFICATIONS George E. Norman, B.Sc. (Honours) Geology**

I, George E. Norman, of 12252 North Park Crescent in the city of Surrey, in the Province of British Columbia and of the same business address, certify that:

1. I am a consulting geologist registered with the association of Professional Engineers and Geoscientists of B. C. (#121420) and the Association of Professional Engineers, Geologists and Geophysicists of Alberta (#M23376) providing exploration services to the exploration community.
2. I am a graduate of the University of Alberta with a Bachelor of Science (Honors) degree in Geology (1973).
3. I have practiced my profession continuously since 1973 and have been involved in projects and evaluations conducting exploration for precious and base metal deposits in North, Central and South America.
4. I visited the Tumbler Ridge Phosphate property 2 times over the period from July 2 to Sept. 2008 for supervision, program direction, orientation and quality control purposes.
5. I am responsible for the review of data and its presentation in the report entitled "2008 Exploration Report on the Tumbler Ridge Phosphate Property".

Dated at Vancouver, BC, this 14<sup>th</sup> day of February, 2009

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George Norman, B.Sc, P. Geo.



## 8.2 CERTIFICATE OF QUALIFICATIONS

**Michael D. Renning, CTech., Gas & Petroleum**

I, Michael Renning, of 4048 Dollarton Hwy. in the city of North Vancouver, in the Province of British Columbia and of the same business address, certify that:

1. I am a businessman and prospector registered as a Certified Technician in Gas & Petroleum with ASTTBC and have a valid Power Engineering Class 4 Certificate. I provide services to the mining exploration industry.
2. I am a graduate of the British Columbia Institute of Technology with a Diploma in Industrial Instrumentation (1994).
3. I have provided my services as a prospector since 1981 and have been involved in a diversity of regional exploration projects and prospecting ventures throughout Canada.
4. I was responsible for directing field work for a crew of 8 Future Metals employees (who collected samples and performed hand trenching on the Tumbler Ridge Phosphate project during July to Sept 2008) maintaining quality control, documenting expenses, and reporting results to George Norman, B.Sc, P. Geo, operations manager for Pacific Ridge Exploration on a regular basis.

Dated at Vancouver, BC, this 14<sup>th</sup> day of February , 2009

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Michael Renning, Prospector

## 8.0 REFERENCES

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APPENDIX I

SAMPLE LEDGERS

2008

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
47152	666637	6020999	Rock	Michael R	Muinok Mtn	Angular float; oolitic ? Limestone, o/c 50 metres upslope	Angular Float	<b>0.01</b>
47153	667375	6020607	Rock	Michael R	Muinok Mtn	Angular float; fine-medium grained sandstone with oolitic features?	Angular Float	<b>0.4</b>
47154	662712	6025432	Rock	Michael R	Muinok Mtn	Angular float; dark black sediment, coarse texture	Angular Float	<b>0.32</b>
47155	662693	6025389	Rock	Michael R	Muinok Mtn	Angular float; dark black, amonites, gas smell	Angular Float	<b>0.18</b>
47156	662649	6025278	Rock	Michael R	Muinok Mtn	Dark black sediment, very fine py banding	Angular Float	<b>0.23</b>
47157	662618	6025185	Rock	Michael R	Muinok Mtn	Angular float; dark black with calcite stringers	Angular Float	<b>0.11</b>
47158	663288	6024127	Rock	Michael R	Muinok Mtn	Angular float; dark black mudstone	Angular Float	<b>0.05</b>
47159	667583	6024245	Rock	Michael R	Muinok Mtn	Angular float; notable oolite texture in dark black sediment	Angular Float	<b>0.09</b>
47160	667519	6024504	Rock	Michael R	Muinok Mtn	Bedrock; dark black sediment	0.7M	<b>3.22</b>
47161	667647	6024471	Rock	Michael R	Muinok Mtn	Bedrock; oolitic patches in sandstone	1.0M	<b>7.6</b>
47162	667677.39	6024390.84	Rock	Michael R (Lisa Trench - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 48537-50; 15M E of 48537	1.0M	<b>1.88</b>
47163	667677.54	6024391.66	Rock	Michael R (Lisa Trench - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 48537-50; 16M E of 48537	1.0M	<b>2.29</b>
47164	667666.96	6024368.53	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>6.01</b>
47165	667665.92	6024368.38	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>2.2</b>
47166	667664.82	6024368.68	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>1.51</b>

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
47167	667663.92	6024367.63	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>0.99</b>
47168	667663.03	6024367.19	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>0.6</b>
47169	667662.18	6024366.54	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>5.87</b>
47170	667661.43	6024366.09	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>0.31</b>
47171	667660.64	6024365.49	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>4.79</b>
47172	667659.99	6024365.04	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73	1.0M	<b>0.15</b>
47173	667659.34	6024364.6	Rock	Michael R (Thea Trenched - Lisa Sampled)	Muinok Mtn	Chip Sample; Trench 47164-73; 9M east of 47164	1.0M	<b>0.44</b>
47174	667705.78	6024478.74	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>10.03</b>
47176	667705.43	6024477.99	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	0.8M	<b>0.42</b>
47177	667704.85	6024477.24	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>0.19</b>
47178	667704.28	6024476.43	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>0.4</b>
47179	667703.81	6024475.57	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>1.05</b>
47180	667703.24	6024474.64	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>2.21</b>
47181	667702.72	6024473.78	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>6.25</b>
47182	667702.14	6024472.97	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>2.38</b>
47183	667701.62	6024472.16	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	<b>2.67</b>

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
47184	667701.04	6024471.18	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	7.9
47185	667700.58	6024470.31	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	3.27
47186	667700.06	6024469.45	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	0.86
47187	667699.48	6024468.41	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	0.83
47188	667698.79	6024467.60	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	0.85
47189	667706.47	6024479.67	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	6.07
47191	667706.87	6024480.59	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	0.34
47192	667707.39	6024481.52	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	0.67
47193	667707.97	6024482.27	Rock	Michael R	Muinok Mtn	Chip Sample; Trench 47174-93	1.0M	0.27
47194	667675.66	6024182.66	Rock	Michael R	Muinok Mtn	Chip sample; 1M Easterly of 48701	1.0M	12.22
47195	673760	6018791	Rock	Michael R	Muinok Mtn; Meosin	Chip sample; WP70	1.0M	0.15
47196	673752	6018795	Rock	Michael R	Muinok Mtn; Meosin	Chip sample; WP71	1.0M	0.19
47197	673748	6018802	Rock	Michael R	Muinok Mtn; Meosin	Chip sample; WP72	1.0M	0.13
47198	667679	6024184	Rock	Michael R	Muinok Mtn	Trench 48701-05 & 47194, 47198; 1.0M	1.0M	0.22
47302	667624	6024296	Rock	Mike P	Muinok Mtn	Angular float; sulpher small	Angular Float	0.39
47303	667666	6024369	Rock	Mike P	Muinok Mtn	Grab; P2O5 nodules	Grab	16.23
47304	667652	6024366	Rock	Mike P	Muinok Mtn	Angular float; sulpher smell	Angular Float	18.33
47305	667635	6024376	Rock	Mike P	Muinok Mtn	Angular float; oolites	Angular Float	18.93
47306	667637	6024379	Rock	Mike P	Muinok Mtn	Angular float; oolite	Angular Float	1.17
47307	667620	6024345	Rock	Mike P	Muinok Mtn	Angular float	Angular Float	0.55
47308	569588	6111342	Rock	Mike P	Sukunka	Angular float; not on claims	Angular Float	2.38
47309	590252	6087459	Rock	Mike P	Sukunka; Tunnel	Angular float	Angular Float	17.41
47310	590247	6087469	Rock	Mike P	Sukunka; Tunnel	Angular float; ridge top	Angular Float	21.94
47311	590152	6087639	Rock	Mike P	Sukunka; Tunnel	Angular float	Angular Float	1.31
47312	596111	6082629	Rock	Mike P	Muinok Mtn	Angular float	Angular Float	0.53
47313	603183	6081930	Rock	Dave S	Sukunka; Hook Lake	Grab; ridge top, heavy, dark black, gas smell	Grab	0.11

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
47314	603197	6082070	Rock	Dave S	Sukunka; Hook Lake	Grab; ridge top, heavy, dark black, gas smell, blue-white staining	Grab	0.13
47315	603096	6082129	Rock	Dave S	Sukunka; Hook Lake	Grab; P2O5 nodules	Grab	0.14
47316	602585	6082518	Rock	Dave S	Sukunka; Hook Lake	Angular float; ridge top	Angular Float	0.06
47317	602254	6083176	Rock	Dave S	Sukunka; Hook Lake	Angular float; ridge top, lots of fossils (shells), blueish staining	Angular Float	0.09
47318	601148	6079712	Rock	Dave S	Sukunka; Hook Lake	Angular float from subcrop, large nodules - maybe P2O5	Angular Float	0.01
47319	601458	6079625	Rock	Dave S	Sukunka; Hook Lake	Grab; heavy, black, gas smell	Grab	0.01
47320	601594	6079602	Rock	Dave S	Sukunka; Hook Lake	Angular float from talus 100M below outcrop	Angular Float	0.05
47321	602131	6079280	Rock	Dave S	Sukunka; Hook Lake	Grab; nodules present	Grab	0.02
47322	602252	6079041	Rock	Dave S	Sukunka; Hook Lake	Angular float; subcrop, nodules	Angular Float	0.01
47323	630042	6062458	Rock	Dave S	Windy Camps	Angular float; black, heavy, gas smell	Angular Float	0.25
47324	631314	6063638	Rock	Dave S	Windy Camps	Grab; black, heavy	Grab	0.1
47326	631281	6063732	Rock	Dave S	Windy Camps	Angular float	Angular Float	0.19
47327	631412	6063896	Rock	Dave S	Windy Camps	Grab; from contact zone, iron rich	Grab	5.55
47328	631507	6064004	Rock	Dave S	Windy Camps	Angular float; black, heavy, many fossils	Angular Float	0.03
47329	631156	6063828	Rock	Dave S	Windy Camps	Grab; nodules present	Angular Float	7.93
47330	630283	6061636	Rock	Dave S	Windy Camps	Angular float; heavy, dense, unusual texture	Angular Float	0.21
47331	630149	6062061	Rock	Dave S	Windy Camps	Angular float; black, heavy, smells like gas	Angular Float	2.19
47332	629537	6062719	Rock	Dave S	Windy Camps	Angular float; blueish staining, heavy gas smell	Angular Float	0.44
47333	629539	6062731	Rock	Dave S	Windy Camps	Angular float; oolite present	Angular Float	6.14
47334	629409	6062379	Rock	Dave S	Windy Camps	Angular float; oolite present	Angular Float	16.96
47335	629414	6062369	Rock	Mike P	Windy Camps	Angular float; oolites present	Angular Float	15.97



Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48102	604279	6078220	Rock	Ian W	Sukunka; Hook Lake	Grab; black shale	Grab	0.29
48103	604271	6078240	Rock	Ian W	Sukunka; Hook Lake	Grab; black shale	Grab	0.42
48104	604285	6078293	Rock	Ian W	Sukunka; Hook Lake	Grab; black shale	Grab	0.21
48105	604272	6078321	Rock	Ian W	Sukunka; Hook Lake	Grab; black shale	Grab	0.28
48106	603320	6078748	Rock	Ian W	Sukunka; Hook Lake	Angular float; 10M downhill from outcrop, very strong blueish staining, gas smell	Angular Float	4.36
48107	603284	6078766	Rock	Ian W	Sukunka; Hook Lake	Grab; black rock with 'silvery' veinlets and red weathering.	Grab	0.44
48108	603267	6078804	Rock	Ian W	Sukunka; Hook Lake	Chip from bedrock; two visible bands of Oolites about 0.3M each.	0.7M	0.42
48109	603607	6078329	Rock	Ian W	Sukunka; Hook Lake	Grab; light brown-grey sediment with possible oolitic features and black nodules.	Grab	0.01
48110	604678	6078111	Rock	Ian W	Sukunka; Hook Lake	Grab; nodules, strong gas smell	Grab	0.2
48111	606276	6077122	Rock	Ian W	Sukunka; Hook Lake	Angular float, shiny black-silver specs, nodules? 35° slope facing 325°	Angular Float	12.06
48112	606305	6077122	Rock	Ian W	Sukunka; Hook Lake	Frost heave; oolitic material, blueish stained fragments, 15M East of 48111	Angular Float	0.17
48113	606883	6076495	Rock	Ian W	Sukunka; Hook Lake	Grab; subcrop, slate black, nodules, oolites	Grab	0.13
48114	607000	6076453	Rock	Ian W	Sukunka; Hook Lake	Frost heave; downslope from ridge top, 20° slope facing 310°, 15M downslope from ridge top	Angular Float	1.76
48115	607045	6076474	Rock	Ian W	Sukunka; Hook Lake	Frost heave; white crystals, blueish stain, oolitic texture, crest of ridge	Angular Float	15.94
48116	607672	6076086	Rock	Ian W	Sukunka; Hook Lake	Grab; 20M East of ridge, nodules, calcite veinlets	Grab	0.05

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48117	607628	6076027	Rock	Ian W	Sukunka; Hook Lake	Angular float; on crest of ridge, frost heave, black, strong gas smell, oolitic	Angular Float	0.2
48118	607055	6076417	Rock	Ian W	Sukunka; Hook Lake	Angular float; 40M south of crest of ridge, large black, circular features - nodules?	Angular Float	10.08
48119	632598	6056790	Rock	Ian W	Windy Camps	Angular float; oolitic texture, gas small, 25° slope facing 310°, 40M downslope of ridge	Angular Float	0.01
48120	631872	6056907	Rock	Ian W	Windy Camps	Grab; black, oolitic, carbonate veins about 0.3M wide, exposed in creek	Grab	23.18
48121	631871	6056907	Rock	Ian W	Windy Camps	Grab; black, oolitic, carbonate veins, exposed in creek, 1M east of 48120	Grab	0.14
48122	631871	6056907	Rock	Ian W	Windy Camps	Grab; exposed in Creek, 1M west of 48120	Grab	0.1
48123	631464	6057117	Rock	Ian W	Windy Camps	Grab; bedrock; strong blueish stain, trace pyrite	Grab	0.87
48124	631550	6057228	Rock	Ian W	Windy Camps	Angular float; bedrock nearby	Grab	0.22
48126	631523	6057258	Rock	Ian W	Windy Camps	Grab; 0.2M oolitic bed, nodules	2.0M	17.19
48127	631523	6057258	Rock	Ian W	Windy Camps	Grab; 1M chip, 1M west of 48126	1.0M	4.04
48128	631523	6057258	Rock	Ian W	Windy Camps	Grab; 1M chip, 1M east of 48126, shiny black surface	1.0M	8.45
48129	631524	6057276	Rock	Ian W	Windy Camps	Grab	Grab	5.15
48130	632875	6055677	Rock	Ian W	Windy Camps	Grab; a few nodules noted	Grab	0.19
48131	632772	6057463	Rock	Ian W	Windy Camps	Angular float; 10° slope facing 10°	Angular Float	0.26
48132	631388	6057483	Rock	Ian W	Windy Camps	Grab; ridge crest, 1M wide vein, crumbly bedrock	Grab	0.52
48133	631383	6057418	Rock	Ian W	Windy Camps	Grab; ridge top, shattered outcrop, smells of gas	Grab	0.62
48134	631386	6057382	Rock	Ian W	Windy Camps	Grab; same weathered surface as 48126, rust red carbonate alteration	Grab	14.36

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48135	640540	6057026	Rock	Ian W	Windy Camps	Frost Heave; 200M SW of unconformity, black sed	Angular Float	2.88
48136	652614.74	6037898.48	Rock	Ian W	Lateegra	1M chip sample; high grade oolitic vein 0.4M wide	1.0M	24.27
48137	652615.77	6037899.06	Rock	Ian W	Lateegra	1M chip sample; east of 48136	1.0M	29.73
48138	652613.72	6037897.97	Rock	Ian W	Lateegra	1M chip sample; west of 48136	1.0M	32.92
48139	652677.8	6037823.31	Rock	Ian W	Lateegra	1M chip sample; oolitic, 400M @ 316° from quarry	1.0M	17.77
48140	652678.87	6037823.82	Rock	Ian W	Lateegra	1M chip sample; east of 48139, wet looking, black, oolitic	1.0M	36.6
48141	652676.78	6037822.75	Rock	Ian W	Lateegra	1M chip sample; west of 48139, red stained, soft	1.0M	32.85
48142	652852.01	6037595.99	Rock	Ian W	Lateegra	1M chip sample; 0.5M oolitic, 0.5M sandy texture, nodules present	1.0M	30.45
48143	652852.81	6037596.83	Rock	Ian W	Lateegra	1M chip sample; 715M south of quarry, east of 48142	1.0M	10.48
48144	652844	6037588	Rock	Ian W	Lateegra	1M chip sample; 1M west of 48142	1.0M	8.63
48152	667807	6020429	Rock	Mike P	Muinok Mtn	Angular float	Angular Float	0.03
48153	668137	6020470	Rock	Mike P	Muinok Mtn	Grab; black shale	Angular Float	0.39
48154	668150	6020501	Rock	Mike P	Muinok Mtn	Angular float	Angular Float	0.47
48155	666899	6022969	Rock	Dale S	Muinok Mtn	Angular float	Angular Float	0.19
48156	666532	6024259	Rock	Dale S	Muinok Mtn	Grab	Grab	1.27
48157	666484	6024259	Rock	Dale S	Muinok Mtn	1M chip sample	1.0M	0.91
48158	666684	6024179	Rock	Dale S	Muinok Mtn	Grab	Grab	0.15
48159	667595	6024265	Rock	Dale S	Muinok Mtn	Grab from ridge top	Grab	0.16
48160	667655	6024339	Rock	Dale S	Muinok Mtn	Grab; black, crumbly sed	Grab	1.44
48161	667706	6024476	Rock	Dale S	Muinok Mtn	Grab; shattered bedrock on ridge top	Grab	2.76
48162	667604	6024277	Rock	Mike P	Muinok Mtn	2M x 2M panel sample; outcrop on ridge top	2.0MX2.0M	0.17

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48163	667605	6024279	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; outcrop on ridge top; nodules present	2.0MX2.0M	0.12
48164	667609	6024284	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.13
48165	667613	6024289	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.1
48166	667616	6024291	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; black soil, nodules present	2.0MX2.0M	0.24
48167	667619	6024292	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.2
48168	667623	6024298	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.19
48169	667626	6024302	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.29
48170	667629	6024309	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.15
48171	667634	6024313	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.22
48172	667638	6024315	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	1.04
48173	667641	6024318	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	1.99
48174	667646	6024327	Rock	Mike P	Muinok Mtn	2M X 2M panel sample; nodules present	2.0MX2.0M	0.13
48176	582491	6096126	Rock	Mike P	Sukunka; Tunnel	Angular float; clear cut area 100 metres to base of slope	Angular Float	0.06
48177	572109	6107763	Rock	Mike P	Sukunka	1M X 1M panel; shells in black sed	1.0M	0.02
48178	594464	6084642	Rock	Mike P	Sukunka	1M X 1M panel; nodules present, thin pieces on ridge top	1.0MX1.0M	0.18
48179	594997	6083804	Rock	Mike P	Sukunka	Angular float; subcrop	Angular Float	0.08
48180	603473	6081402	Rock	Mike P	Sukunka; Hook Lake	Angular float; ridge top	Angular Float	0.19
48181	604014	6081066	Rock	Mike P	Sukunka; Hook Lake	Angular float; gas smell in seds	Angular Float	0.11

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48182	604106	6081066	Rock	Mike P	Sukunka; Hook Lake	1M X 1M panel sample	1.0MX1.0M	0.13
48183	604177	6081079	Rock	Mike P	Sukunka; Hook Lake	Angular float; subcrop in frost boil, dark soil, nodules?	Angular Float	0.5
48184	603942	6081012	Rock	Mike P	Sukunka; Hook Lake	Angular float; subcrop	Angular Float	0.04
48185	601157	6079661	Rock	Mike P	Sukunka; Hook Lake	Angular float; subcrop, gas smell, shells	Angular Float	0.01
48186	601340	6079734	Rock	Mike P	Sukunka; Hook Lake	Angular float; subcrop	Angular Float	0.01
48187	601348	6079754	Rock	Mike P	Sukunka; Hook Lake	1M chip sample; fossils, nodules?	1.0M	0.01
48188	601897	6079579	Rock	Mike P	Sukunka; Hook Lake	Angular float; subcrop	Angular Float	0.13
48189	602072	6079484	Rock	Mike P	Sukunka; Hook Lake	1M X 1M panel sample; subcrop	1.0M	0.01
48190	602272	6079079	Rock	Mike P	Sukunka; Hook Lake	1M X 1M panel sample; blueish staining, fossils, gas smell, nodules present	1.0MX1.0M	0.01
48191	601789	6078800	Rock	Mike P	Sukunka; Hook Lake	Angular float; shale in north east talus	Angular Float	13.32
48192	631320	6063239	Rock	Mike P	Windy Camps	Angular float; black, heavy, smells like gas	Angular Float	0.01
48193	631428	6063513	Rock	Mike P	Windy Camps	Angular float; black, heavy, smells like gas, ridge top	Angular Float	0.13
48194	631298	6063729	Rock	Mike P	Windy Camps	1M X 1M sub crop; frost boil, heavy, gas smell, oolitic	1.0MX1.0M	0.2
48195	631218	6063805	Rock	Mike P	Windy Camps	Grab sample; Sub crop, P2O5 nodules, strong gas smell, heavy	Grab	2.25
48196	631209	6063813	Rock	Mike P	Windy Camps	Grab; fossils, gas smell, dark black, nodules?	Grab	4.09
48197	630320	6061928	Rock	Mike P	Windy Camps	Angular float; black sed., heavy, gas smell	Angular Float	1.52
48198	630094	6062146	Rock	Mike P	Windy Camps	Angular float; dark sed, gas smell	Angular Float	1.33
48199	629671	6062368	Rock	Mike P	Windy Camps	Angular float; edge of frost boil, gas smell	Angular Float	1.32

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48200	629361	6062394	Rock	Mike P	Windy Camps	Angular float; heavy, fossils (shells), gas smell	Angular Float	7.83
48202	666133	6021033	Rock	Thea G	Muinok Mtn	Angular float; looks like this dark black sed is coal from a 3metre wide seam up the hill.	Angular Float	0.01
48203	665416	6020289	Rock	Thea G	Muinok Mtn	Angular float; collected in talus below below what looks like a coal seam	Angular Float	0.09
48204	662672	6025366	Rock	Thea G	Muinok Mtn	Grab	Grab	0.18
48205	662615	6025283	Rock	Thea G	Muinok Mtn	Grab	Grab	0.14
48206	662585	6025053	Rock	Thea G	Muinok Mtn	Grab	Grab	0.28
48207	667661	6024332	Rock	Thea G	Muinok Mtn	Grab	Grab	0.07
48208	590714	6086796	Rock	Thea G	Sukunka; Tunnel	Grab	Grab	0.19
48209	590275	6087419	Rock	Thea G	Sukunka; Tunnel	Grab	Grab	21.9
48210	590133	6087720	Rock	Thea G	Sukunka; Tunnel	Grab	Grab	10.99
48211	586261	6094405	Rock	Thea G	Sukunka	Grab	Grab	0.23
48212	587613	6092156	Rock	Thea G	Sukunka; Tunnel		Angular Float	0.21
48213	587577	6092062	Rock	Thea G	Sukunka; Tunnel	Oolitic band in sediments	Grab	19.82
48214	588709	6090264	Rock	Thea G	Sukunka	Dark black sediment	Grab	0.01
48215	604697	6078106	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment, shell fossils	Grab	0.07
48216	604951	6077812	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment, strong sulfur-gas odour	Angular Float	1.22
48217	605674	6077450	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment, heavy, blueish staining	Grab	0.29
48218	605677	6077459	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment, blueish staining, bitumen, calcite veinlets	Grab	0.7
48219	605672	6077492	Rock	Thea G	Sukunka; Hook Lake	Dark black slate with blueish staining, iron staining	Grab	0.35
48220	605683	6077333	Rock	Thea G	Sukunka; Hook Lake	Iron-rich dark black sediment, small voids, calcite veinlets, blueish staining	Grab	8.57



Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48221	605851	6077242	Rock	Thea G	Sukunka; Hook Lake	Dark black-grey sediments	Grab	0.06
48222	606265	6076849	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment, shell fossils, sulfur odour	Grab	0.04
48223	606326	6076980	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment	Grab	0.02
48224	606333	6077026	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment	Grab	0.25
48226	606321	6077071	Rock	Thea G	Sukunka; Hook Lake	Dark black sediment, sulfur odour	Grab	0.09
48227	633937	6054600	Rock	Thea G	Windy Camps	Dark black sediment	1.0Mx1.0M	0.73
48228	633125	6053848	Rock	Thea G	Windy Camps	Dark black sediment	Grab	0.01
48229	633007	6054001	Rock	Thea G	Windy Camps	Greyish 'cement-like' weathered appearance, dark black on fresh surface	Grab	0.01
48230	633192	6054011	Rock	Thea G	Windy Camps	Greyish 'cement-like' weathered appearance, dark black on fresh surface	Grab	0.01
48231	634827	6054107	Rock	Thea G	Windy Camps	Two oolitic beds, 3-5 metres apart, each about 0.5M to 1.0M wide	Grab	21.9
48232	634822	6054100	Rock	Thea G	Windy Camps	Two oolitic beds, 3-5 metres apart, each about 0.5M to 1.0M wide	Grab	14.05
48233	634819	6054115	Rock	Thea G	Windy Camps	Two oolitic beds, 3-5 metres apart, each about 0.5M to 1.0M wide	Grab	17.98
48234	634814	6054133	Rock	Thea G	Windy Camps	Two oolitic beds, 3-5 metres apart, each about 0.5M to 1.0M wide	Grab	19.47
48235	639793	6056549	Rock	Thea G	Windy Camps	Grab; black sed with gold coloured pyrite	Grab	3.46
48302	666687	6020918	Rock	Vanessa F	Muinok Mtn	Talus sample	Angular Float	0.01
48303	665751	6020456	Rock	Vanessa F	Muinok Mtn	Grab sample	Grab	0.63
48304	665582	6020264	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	4.69
48305	665516	6020223	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	0.26

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P205 (%)
48306	664957	6019961	Rock	Vanessa F	Muinok Mtn	Grab sample	Grab	0.07
48307	662632	6025287	Rock	Vanessa F	Muinok Mtn	Grab sample	Grab	0.25
48308	662609	6025190	Rock	Vanessa F	Muinok Mtn	Grab sample	Grab	0.11
48309	662586	6024480	Rock	Vanessa F	Muinok Mtn	Grab sample	Grab	0.5
48310	667669	6024364	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	7.74
48311	667673	6024345	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	0.46
48312	667669	6024340	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	0.58
48313	667655	6024339	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	1.02
48314	667656	6024339	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	0.65
48315	667653	6024335	Rock	Vanessa F	Muinok Mtn	Angular float	Angular Float	0.29
48316	590309	6087403	Rock	Vanessa F	Sukunka; Tunnel	Chip sample	1.0MX1.0M panel	2.25
48317	590153	6087644	Rock	Vanessa F	Sukunka; Tunnel	Angular float	Angular Float	20.16
48319	601458	6078971	Rock	Vanessa F	Sukunka; Hook Lake	Frost boil	Angular Float	9.4
48320	601434	6078956	Rock	Vanessa F	Sukunka; Hook Lake	Frost boil	Angular Float	1.61
48321	629234	6062135	Rock	Vanessa F	Windy Camps	Grab sample	Grab	0.5
48322	629117	6061987	Rock	Vanessa F	Windy Camps	Angular float	Angular Float	0.53
48323	628947	6062486	Rock	Vanessa F	Windy Camps	Angular float	Angular Float	3.51
48324	628948	6062491	Rock	Vanessa F	Windy Camps	Angular float	Angular Float	5
48326	628941	6062521	Rock	Vanessa F	Windy Camps	Frost boil	Angular Float	10.53
48327	629421	6062352	Rock	Vanessa F	Windy Camps	Frost boil	Angular Float	11.22
48328	628743	6061627	Rock	Vanessa F	Windy Camps	Grab sample; subcrop	Grab	0.06
48329	628601	6061392	Rock	Vanessa F	Windy Camps	Talus sample	Angular Float	0.39
48330	628349	6061340	Rock	Vanessa F	Windy Camps	Talus sample	Angular Float	0.43
48331	627842	6060921	Rock	Vanessa F	Windy Camps	Grab sample	Grab	0.28
48332	627765	6060811	Rock	Vanessa F	Windy Camps	Grab sample	Grab	0.02
48353	662624	6025269	Rock	Shawn B	Muinok Mtn	Grab sample	Grab	0.24
48354	662583	6025108	Rock	Shawn B	Muinok Mtn	Grab sample	Grab	0.31
48355	662560	6024937	Rock	Shawn B	Muinok	Grab sample	Grab	0.12

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
					Mtn			
48357	572096	6107809	Rock	Shawn B	Sukunka	Grab sample	Grab	0.01
48358	587856	6091389	Rock	Shawn B	Sukunka; Tunnel	Frost boil	Angular Float	8.59
48359	602038	6078490	Rock	Shawn B	Sukunka; Tunnel	Frost boil	Angular Float	0.07
48360	602006	6078469	Rock	Shawn B	Sukunka; Tunnel			0.33
48361	601977	6078444	Rock	Shawn B	Sukunka; Tunnel	Frost boil	Angular Float	1.23
48362	600274	6078578	Rock	Shawn B	Sukunka; Tunnel	Frost boil	Angular Float	0.33
48363	600366	6078469	Rock	Shawn B	Sukunka; Tunnel	Grab sample	Grab	0.19
48364	600810	6080113	Rock	Shawn B	Sukunka; Hook Lake	Grab sample	Grab	0.03
48365	600707	6080164	Rock	Shawn B	Sukunka; Hook Lake	Grab sample	Grab	0.01
48366	600555	6079976	Rock	Shawn B	Sukunka; Hook Lake	Grab sample	Grab	0.01
48367	600512	6079933	Rock	Shawn B	Sukunka; Hook Lake	Angular float	Angular Float	0.06
48368	600469	6079926	Rock	Shawn B	Sukunka; Hook Lake	Angular float	Angular Float	0.72
48369	600437	6079904	Rock	Shawn B	Sukunka; Hook Lake	Angular float	Angular Float	0.36
48370	600485	6079738	Rock	Shawn B	Sukunka; Hook Lake	Angular float	Angular Float	0.04
48371	600915	6079470	Rock	Shawn B	Sukunka; Hook Lake	Frost boil	Angular Float	1.15
48372	627771	6060433	Rock	Shawn B	Windy Camps	Angular float	Angular Float	0.03
48402	576274	6104199	Rock	Lisa P	Sukunka	Grab sample	Grab	0.03
48403	590229	6087500	Rock	Lisa P	Sukunka; Tunnel	Grab sample	Grab	18.23
48404	590037	6087835	Rock	Lisa P	Sukunka; Tunnel	Grab sample	Grab	8.88
48405	589637	6089011	Rock	Lisa P	Sukunka; Tunnel	Grab sample	Grab	18.33
48406	589717	6088516	Rock	Lisa P	Sukunka; Tunnel	Grab sample	Grab	20.71
48407	589799	6088383	Rock	Lisa P	Sukunka; Tunnel	Grab sample	Grab	17.1
48409	605655	6077438	Rock	Lisa P	Sukunka; Hook Lake	Grab sample	Grab	0.07
48410	606113	6077196	Rock	Lisa P	Sukunka; Hook Lake	Grab sample	Grab	0.93
48411	606114	6077186	Rock	Lisa P	Sukunka; Hook	Grab sample	Grab	0.07

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
					Lake			
48412	606190	6077211	Rock	Lisa P	Sukunka; Hook Lake	Grab sample	Grab	0.17
48413	605052	6077855	Rock	Lisa P	Sukunka; Hook Lake	Grab sample	Grab	7.13
48414	606248	6076866	Rock	Lisa P	Sukunka; Hook Lake	Talus sample	Angular Float	0.06
48415	606427	6076943	Rock	Lisa P	Sukunka; Hook Lake	Talus slope; angular float ('black band') upslope in cliff area	Angular Float	5.27
48416	606427	6077017	Rock	Lisa P	Sukunka; Hook Lake	Talus slope; angular float	Angular Float	0.15
48417	606402	6077062	Rock	Lisa P	Sukunka; Hook Lake	Talus slope; angular float	Angular Float	0.46
48418	634828	6054167	Rock	Lisa P	Windy Camps	Talus slope; angular float	Angular Float	26.21
48419	633849	6054822	Rock	Lisa P	Windy Camps	Talus slope; angular float with possible source within sight on stteped cliff face	Angular Float	19.19
48420	633413	6054942	Rock	Lisa P	Windy Camps	Talus slope; angular float	Angular Float	0.53
48421	634353	6054368	Rock	Lisa P	Windy Camps	Talus slope; angular float	Angular Float	0.48
48422	634366	6054360	Rock	Lisa P	Windy Camps	Grab sample; oolitic	Grab	0.23
48423	634818	6054112	Rock	Lisa P	Windy Camps	Grab sample; oolitic	Grab	16.75
48424	634810	6054119	Rock	Lisa P	Windy Camps	Grab sample; oolitic	Grab	25.38
48426	667817	6023816	Rock	Lisa P	Muinok Mtn	Chip sample	1.0M	2.91
48427	667811	6023869	Rock	Lisa P	Muinok Mtn	Chip sample	1.0M	4.51
48428	667791	6023989	Rock	Lisa P	Muinok Mtn	Chip sample	1.0M	0.44
48429	667992.00	6023989.01	Rock	Lisa P	Muinok Mtn	Chip sample; oolitic	1.0M	3.3
48430	667992.84	6023989.57	Rock	Lisa P	Muinok Mtn	Chip sample; oolitic	1.0M	3.68
48452	569876	6110955	Rock	Dale S	Sukunka	Angular float; 569880E, 6110961N	Angular Float	0.35
48453	570826	6109895	Rock	Dale S	Sukunka	Angular float; 571280E, 611084N	Angular Float	0.08
48454	590081	6087874	Rock	Ian W	Sukunka; Tunnel	Angular float; 5901251E, 6087874N	Angular Float	0.17
48455	579390	6101941	Rock	Ian W	Sukunka	Grab sample; 579391E, 6101941N oolitic limestone (subcrop?)	Grab	0.15

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P205 (%)
48456	579508	6101820	Rock	Ian W	Sukunka	Grab sample; 579507E, 6101819N, subcrop	Grab	0.14
48457	580043	6101659	Rock	Ian W	Sukunka	Grab sample; 580043E, 6101659N	Grab	3.88
48458	580096	6101527	Rock	Ian W	Sukunka	Grab sample; 580096E, 610152N	Grab	0.15
48459	580129	6101406	Rock	Ian W	Sukunka	Grab sample; 580129E, 6101408N	Grab	0.09
48460	585615	6096587	Rock	Ian W	Sukunka	Talus sample: 585615E, 6096587N, black shale	Angular Float	0.11
48461	585703	6096585	Rock	Ian W	Sukunka	Talus sample: 585703E, 60965857N, black shale	Angular Float	5.78
48462	585753	6096605	Rock	Ian W	Sukunka	Grab sample; 585753E, 6096605N	Grab	0.16
48463	585752	6096584	Rock	Ian W	Sukunka	Grab sample; 585753E, 6096584N	Grab	0.15
48464	604247	6078217	Rock	Dale S	Sukunka; Hook Lake	Angular float sample; 604246E, 6078217N	Angular Float	0.13
48465	603861	6078479	Rock	Dale S	Sukunka; Hook Lake	Frost boil sample; 603861E, 6078479N	Angular Float	5.3
48466	603835	6078518	Rock	Dale S	Sukunka; Hook Lake	Frost boil sample; 603826E, 6078518N	Angular Float	0.27
48467	603328	6078749	Rock	Dale S	Sukunka; Hook Lake	Angular float sample; 603328E, 6078749N	Angular Float	0.33
48468	603299	6078774	Rock	Dale S	Sukunka; Hook Lake	Angular float sample; 603899E, 6078774N	Angular Float	0.33
48469	603008	6079029	Rock	Dale S	Sukunka; Hook Lake	Angular float sample; 6030081E, 6079029N	Angular Float	0.13
48470	603199	6078396	Rock	Dale S	Sukunka; Hook Lake	Angular float sample; 603199E, 6078396N	Angular Float	0.01
48471	631850	6056881	Rock	Dale S	Windy Camps	Angular float sample; 631849E, 6056881N	Angular Float	16.8
48472	631454	6057111	Rock	Dale S	Windy Camps	Angular float sample; 631454E, 6057111N	Angular Float	0.19
48473	631527	6057266	Rock	Dale S	Windy Camps	Angular float sample; 631528E, 6057266N	Angular Float	9.64
48474	631387	6057378	Rock	Dale S	Windy Camps	Angular float; 631387E, 657378N	Angular Float	4.26

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48475	651267.75	6040195.88	Rock	Dale S	Lateegra	Chip sample; 651268E, 6040195N, Band of Oolite.	0.3M	<b>25.46</b>
48476	651268.83	6040196.26	Rock	Dale S	Lateegra	1M east of 48475	1.0M	<b>0.64</b>
48477	651319.89	6040070.57	Rock	Dale S	Lateegra	0.3M wide band of Oolite.	0.3M	<b>28.9</b>
48478	651320.79	6040071.01	Rock	Dale S	Lateegra	1M east of 48477	1.0M	<b>1.98</b>
48479	651492	6039753	Rock	Dale S	Lateegra	Angular float; oolite present	Angular Float	<b>24.98</b>
48480	651644	6039470	Rock	Dale S	Lateegra	Band of Oolite	2.0M	25.39
48501	589898.02	6088207.89	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 1	1.0M	<b>19.06</b>
48502	589899.72	6088208.5	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 1	1.0M	<b>23.8</b>
48503	589901.3	6088209.08	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 1	1.0M	<b>18.95</b>
48504	590057.00	6087788.87	Rock	Lisa P for notes on sample; Mike P	Sukunka; Tunnel	Chip sample; Trench 2	1.0M	<b>14.23</b>
48505	590057.95	6087789.17	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 2	1.0M	<b>12.14</b>
48506	590058.83	6087789.39	Rock	Lisa P for notes on sample; Mike P	Sukunka; Tunnel	Chip sample; Trench 2	1.0M	<b>19.72</b>
48507	590059.65	6087789.67	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 2	1.0M	<b>22.25</b>
48508	590060.49	6087789.91	Rock	Lisa P for notes on trench; Shawn B	Sukunka; Tunnel	Chip sample; Trench 2	1.0M	<b>14.1</b>
48509	590061.48	6087790.10	Rock	Lisa P for notes on trench; Shawn B	Sukunka; Tunnel	Chip sample; Trench 2	1.0M	<b>15.4</b>
48510	590062.50	6087790.34	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 2	1.0M	<b>2.94</b>
48511	590216.04	6087512.87	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 3	1.0M	<b>2.08</b>
48512	590217.11	6087513.33	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 3	1.0M	<b>21.5</b>
48513	590218.15	6087513.68	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 3	1.0M	<b>14.13</b>
48514	590219.05	6087514.06	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 3	1.0M	<b>18.05</b>
48515	590166.05	6087615.69	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 4	1.0M	<b>0.19</b>
48516	590167.12	6087616.00	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 4	1.0M	<b>13.52</b>
48517	590168.05	6087616.31	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 4	1.0M	<b>7.9</b>



Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48518	590169.09	6087616.69	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 4	1.0M	0.39
48519	590224.19	6087498.65	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 5	1.0M	6.87
48520	590225.08	6087499.11	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 5	1.0M	17.74
48521	590226.03	6087499.66	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 5	1.0M	16.77
48522	590226.93	6087500.12	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 5	1.0M	18.44
48523	590253.18	6087452.86	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 6	1.0M	10.87
48524	590254.19	6087453.41	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 6	1.0M	15.99
48525	590254.91	6087453.90	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 6	1.0M	19.66
48526	590255.69	6087454.36	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 6	1.0M	19.73
48527	590256.53	6087454.97	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 6	1.0M	12.55
48528	590272.06	6087420.89	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 7	1.0M	16.1
48529	590272.95	6087421.27	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 7	1.0M	19.31
48530	590273.76	6087421.58	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 7	1.0M	4.06
48531	590274.64	6087421.91	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 7	1.0M	6.34
48532	590275.45	6087422.23	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 7	1.0M	0.27
48533	590276.32	6087422.55	Rock	Lisa P	Sukunka; Tunnel	Chip sample; Trench 7	1.0M	1.12
48534	652311	6038213	Rock	Lisa P	Lateegra	Very crumbly rock, dirt	Angular Float	5.39
48535	652174	6038373	Rock	Lisa P	Lateegra	Very crumbly rock, dirt	Angular Float	28.62
48536	652134	6038412	Rock	Lisa P	Lateegra	Very crumbly rock, dirt	Angular Float	36.09
48537	667667.99	6024380.45	Rock	Lisa P	Muinok Mtn	Trench 48537-50	1.0M	0.27
48538	667668.72	6024381.07	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 2M E of 48537	1.0M	0.25
48539	667669.42	6024381.77	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 3M E of 48537	1.0M	0.26
48540	667669.94	6024382.49	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 4M E of 48537	1.0M	0.37
48541	667670.58	6024383.27	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 5M E of 48537	1.0M	2.34

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48542	667671.32	6024384.02	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 6M E of 48537	1.0M	2.09
48543	667672.14	6024384.74	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 7M E of 48537	1.0M	1.09
48544	667673.07	6024385.44	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 8M E of 48537	1.0M	1.58
48545	667673.85	6024386.2	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 9M E of 48537	1.0M	4.07
48546	667674.55	6024386.90	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 10M E of 48537	1.0M	2.48
48547	667675.25	6024387.73	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 11M E of 48537	1.0M	1.9
48548	667675.95	6024388.5	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 12M E of 48537	1.0M	5.74
48549	667676.50	6024389.24	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 13M E of 48537	1.0M	6.2
48550	667676.99	6024390.07	Rock	Lisa P	Muinok Mtn	Trench 48537-50; Chip sample 14M E of 48537	1.0M	1.29
48551	590944	6087239	Rock	Ian W	Sukunka; Tunnel	Chip sample; east side steep ridge	1.0M	0.25
48552	590936	6087254	Rock	Ian W	Sukunka; Tunnel	Grab sample	Grab	0.24
48553	667635.91	6024315.54	Rock	Ian W	Muinok Mtn	Chip sample	1.0M	9.47
48554	667634.90	6024314.82	Rock	Ian W	Muinok Mtn	Chip sample 1M south of 48553	1.0M	0.42
48555	667633.88	6024314.22	Rock	Ian W	Muinok Mtn	Chip sample 2M south of 48553	1.0M	0.32
48556	667633.16	6024313.33	Rock	Ian W	Muinok Mtn	Chip sample 3M south of 48553	1.0M	0.24
48557	667632.15	6024312.43	Rock	Ian W	Muinok Mtn	Chip sample 4M south of 48553	1.0M	0.21
48558	667631.43	6024311.53	Rock	Ian W	Muinok Mtn	Chip sample 5M south of 48553	1.0M	0.39
48559	667636.67	6024316.30	Rock	Ian W	Muinok Mtn	Chip sample 1M north of 48553	1.0M	17.84
48560	667637.35	6024316.91	Rock	Ian W	Muinok Mtn	Chip sample 2M north of 48553	1.0M	14.17
48561	667638.01	6024317.81	Rock	Ian W	Muinok Mtn	Chip sample 3M north of 48553	1.0M	5.72
48562	667638.72	6024318.35	Rock	Ian W	Muinok Mtn	Chip sample 4M north of 48553	1.0M	2.48
48563	667639.38	6024318.83	Rock	Ian W	Muinok Mtn	Chip sample 5M north of 48553	1.0M	3.15
48601	667672.69	6024396.44	Rock	Shawn B	Muinok Mtn	Chip sample	1.0M	1.32

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48602	667672.19	6024395.49	Rock	Shawn B	Muinok Mtn	Chip sample; 1M SW of 48601	1.0M	2.39
48604	667671.74	6024394.67	Rock	Shawn B	Muinok Mtn	Chip sample; 2M SW of 48601	1.0M	0.9
48605	667671.24	6024393.88	Rock	Shawn B	Muinok Mtn	Chip sample; 3M SW of 48601	1.0M	1.85
48606	667670.84	6024393.10	Rock	Shawn B	Muinok Mtn	Chip sample; 4M SW of 48601	1.0M	0.81
48607	667670.42	6024392.21	Rock	Shawn B	Muinok Mtn	Chip sample; 5M SW of 48601	1.0M	1.31
48608	667673.04	6024397.31	Rock	Shawn B	Muinok Mtn	Chip sample; 6M SW of 48601	1.0M	1.75
48609	667673.41	6024398.38	Rock	Shawn B	Muinok Mtn	Chip sample; 1M NE of 48601	1.0M	0.72
48610	667673.86	6024399.38	Rock	Shawn B	Muinok Mtn	Chip sample; 2M NE of 48601	1.0M	1.97
48611	667674.28	6024400.22	Rock	Shawn B	Muinok Mtn	Chip sample; 3M NE of 48601	1.0M	0.19
48612	667674.85	6024401.00	Rock	Shawn B	Muinok Mtn	Chip sample; 4M NE of 48601	1.0M	1.46
48613	667653.57	6024339.63	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	5.67
48614	667654.16	6024340.37	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	4.72
48615	667654.76	6024341.12	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	21.02
48616	667655.31	6024342.07	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	0.42
48617	667655.86	6024343.01	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	0.6
48618	667656.40	6024343.96	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	0.47
48619	667657.05	6024344.90	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	2.99
48620	667657.50	6024345.90	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	1.94
48621	667658.30	6024346.75	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	0.65
48622	667658.45	6024347.79	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	1.49
48623	667658.70	6024348.79	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	0.65
48624	667659.39	6024349.48	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	0.3
48651	655777	6034554	Rock	Thea G	Lateegra	Angular float grab; oolitic boulder	Angular Float	11.93
48652	655776.12	6034535.9	Rock	Thea G	Lateegra	Chip sample	1.0M	1.95
48653	655775.14	6034535.03	Rock	Thea G	Lateegra	Chip sample	1.0M	4.92
48654	655773.99	6034534.02	Rock	Thea G	Lateegra	Chip sample	1.0M	0.41
48655	655775	6034532	Rock	Thea G	Lateegra	Chip sample; 1.6M SE of 48653	0.5M	0.41
48656	655772.29	6034539.41	Rock	Thea G	Lateegra	Chip sample; approximately 50M north west of 48653.	1.0M	0.67
48657	667551	6024699	Rock	Thea G	Muinok Mtn	Chip across oolitic band	0.5M	0.79

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48701	667674.80	6024182.34	Rock	Mike P	Muinok Mtn	Trench 48701-05 & 47194, 47198; Chip sample, 2M east of 48703	2.0M	1.85
48702	667673.82	6024182.01	Rock	Mike P	Muinok Mtn	Chip sample; 1M east of 48703	1.0M	3.03
48703	667671.88	6024181.38	Rock	Mike P	Muinok Mtn	Chip sample	1.0M	8.69
48704	667672.86	6024181.67	Rock	Mike P	Muinok Mtn	Chip sample; 1M west of 48703	1.0M	14.93
48705	667670.98	6024181.03	Rock	Mike P	Muinok Mtn	Chip sample; 2M west of 48703	1.0M	5.22
48851	655975	6034412	Rock	Ian W	Lateegra	Angular float; oolitic	Angular Float	24.47
48852	656720	6033622	Rock	Ian W	Lateegra	Angular float; boulder,oolitic	1.0MX1.0M	0.01
48853	667676.05	6024336.09	Rock	Ian W	Muinok Mtn	Chip sample	1.0M	6.05
48854	667675.61	6024335.13	Rock	Ian W	Muinok Mtn	Chip sample; 1M Southerly of 48853	1.0M	1.46
48855	667675.20	6024334.28	Rock	Ian W	Muinok Mtn	Chip sample; 2M Southerly of 48853	1.0M	1.88
48856	667674.61	6024333.13	Rock	Ian W	Muinok Mtn	Chip sample; 3M Southerly of 48853	1.0M	0.93
48857	667676.50	6024336.87	Rock	Ian W	Muinok Mtn	Chip sample; 1M Northerly of 48853	1.0M	1.85
48858	667676.87	6024337.68	Rock	Ian W	Muinok Mtn	Chip sample; 2M Northelry of 48853	1.0M	0.33
48859	667760	6024177	Rock	Ian W	Muinok Mtn	Chip from bedrock; 213m @155 degrees from trench 3. On trend with trench 3.	1.0M	0.25
48860	667686.76	6024098.9	Rock	Ian W	Muinok Mtn	Chip from bedrock; large visible bands of Oolites	1.0M	2.27
48861	667687.78	6024099.26	Rock	Ian W	Muinok Mtn	Chip sample; 1M east (downhill) of 48860. Oolite bed approximately 1M thick.	1.0M	1.44
48862	667688.7	6024099.55	Rock	Ian W	Muinok Mtn	Chip sample; 2M east (downhill) of 48860 and situated between oolitic bands on more greyish limy sandstone.	1.0M	0.67
48863	667689.72	6024099.88	Rock	Ian W	Muinok Mtn	1M chip sample; 3M east (downhill) of 48860.	1.0M	4.11
48864	667690.74	6024100.18	Rock	Ian W	Muinok Mtn	1M chip sample; 3M east (downhill) of 48860.	1.0M	0.19

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
48865	667685.80	6024098.63	Rock	Ian W	Muinok Mtn	1M chip sample; 1M west (uphill) from 48860. Crumbly black, oolitic	1.0M	1.92
48866	667684.82	6024098.33	Rock	Ian W	Muinok Mtn	2M W(uphill) of 48860;	1.0M	13.38
48867	667683.86	6024097.94	Rock	Ian W	Muinok Mtn	3M W(uphill) of 48860;	1.0M	0.39
48868	667682.90	6024097.67	Rock	Ian W	Muinok Mtn	4M W(uphill) of 48860;	1.0M	0.46
48869	667681.95	6024097.34	Rock	Ian W	Muinok Mtn	5M W(uphill) of 48860;	1.0M	1.64
48870	667680.99	6024097.16	Rock	Ian W	Muinok Mtn	6M W(uphill) of 48860;	1.0M	0.21
48871	667690.91	6023695.27	Rock	Ian W	Muinok Mtn	Blue stained, oolitic	1.0M	2.21
48872	667690.01	6023695.05	Rock	Ian W	Muinok Mtn	Chip sample, 1M W (uphill) of 48871; calcite veins	1.0M	1.15
48873	667691.87	6023695.55	Rock	Ian W	Muinok Mtn	1M chip sample, 1M E (downhill) of 48871. 0.3M of crumbly oolitic material.	1.0M	0.41
48874	667692.85	6023695.82	Rock	Ian W	Muinok Mtn	2M E (downhill) from 48871. Chip, black, yellowish & crumbly	1.0M	0.35
48901	673428	6018928	Rock	Lisa P	Muinok Mtn; Meosin	Grab from bedrock;	Grab	0.4
48902	673459	6018950	Rock	Lisa P	Muinok Mtn; Meosin	Grab from bedrock;	Grab	0.11
48903	673569	6019010	Rock	Lisa P	Muinok Mtn; Meosin	Grab from bedrock;	Grab	14.61
48904	673580	6019016	Rock	Lisa P	Muinok Mtn; Meosin	Grab from bedrock;	Grab	23.67
48951	667665	6024253	Rock	Shawn B	Muinok Mtn	Oolitic band; trench at 40°	1.0M	2.28
48952	667660.14	6024249.84	Rock	Shawn B	Muinok Mtn	Chip sample	1.0M	0.99
48953	667666.34	6024252.81	Rock	Shawn B	Muinok Mtn	Chip; 7M E of 48952	1.0M	3.66
48954	667665.54	6024252.27	Rock	Shawn B	Muinok Mtn	Chip; 6M E of 48952	1.0M	1.07
48955	667664.61	6024251.79	Rock	Shawn B	Muinok Mtn	Chip; 5M E of 48952	1.0M	0.72
48956	667663.65	6024251.4	Rock	Shawn B	Muinok Mtn	Chip; 4M E of 48952	1.0M	0.28
48957	667662.79	6024251.02	Rock	Shawn B	Muinok Mtn	Chip; 3M E of 48952	1.0M	0.37
48958	667661.86	6024250.60	Rock	Shawn B	Muinok Mtn	Chip; 2M E of 48952	1.0M	0.55
48959	667660.93	6024250.18	Rock	Shawn B	Muinok Mtn	Chip; 1M E of 48952	1.0M	0.25
48960	667653	6024451	Rock	Shawn B	Muinok Mtn	Chip, visible oolites	0.5M	15.24

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
GN-08-PH-01	646979	6045222	Rock	George N	Lateegra	Brn, v f g rx shale-argil, poss oolitic, worm burrows; WP525	-99	0.17
GN-08-PH-02	650773	6045121	Rock	George N	Lateegra	V f g shaley pelletoid-oolitic rx w/ wht blue oxide on fr; WP526	-99	1.34
GN-08-PH-03	651503	6043690	Rock	George N	Lateegra	Pelletoid-oolitic phosphatic rx w/ wht blue precip on fr; WP527	-99	27.74
GN-08-PH-04	651505	6043034	Rock	George N	Lateegra	Blk shaley lst w/ gas odour, wht blue precip. On fr; WP530	-99	0.09
GN-08-PH-05	674895	6017414	Rock	George N	Muinok Mtn; Meosin	Platay f g rx (shaley), well fr'td, wht blue precip.; WP532	-99	0.25
GN-08-PH-06a	674906	6017422	Rock	George N	Muinok Mtn; Meosin	F g rx , tr pellet/ollites of phosph, lt wht bl precip., wk gas od; WP533	-99	0.2
GN-08-PH-06b	674922	6017445	Rock	George N	Muinok Mtn; Meosin	Dk f g sed, some pellets of phosph, v wk gas odour; WP534	-99	0.53
GN-08-PH-07	674967	6017498	Rock	George N	Muinok Mtn; Meosin	Bl shaley rx, gas odour, ollites/pellets/ammonite shells; WP535	-99	6.54
GN-08-PH-08	652352	6038128	Rock	George N	Lateegra	Lt gry f g lst , chip sampled over 1.0m; WP546	-99	6.18
GN-08-PH-09	652352	6038128	Rock	George N	Lateegra	Phosphatic pelletoid/oolitic rx (heavy); WP546	-99	22.62
GN-08-PH-10	652352	6038128	Rock	George N	Lateegra	Brn gry weath dk gry f g lst, chip sampled over 1.0m; WP546	-99	1.93
GN-08-PH-11	652352	6038128	Rock	George N	Lateegra	Brn gry weath dk gry f g lst w/ wht bl prec, chip smp over 1.0m; WP546	-99	0.4
GN-08-PH-12	577390	6105901	Rock	George N	Sukunka; Mount Palsson	Thin (8cm) Phosphatic unit in talusw/ oolites/pellets; WP549	-99	24.52
GN-08-PH-16	667642	6024328	Rock	George N	Muinok Mtn	Srtong gas odour, blk organic; WP 552	-99	-99

Sample Number	Easting	Northing	Notes	Sampler	Area	Sampler Notes	Sample Width	P2O5 (%)
GN-08-PH-24	650387	6041221	Rock	George N	Lateegra	brn pltely str calc shale (shaley lst), 1.0m chip sample; WP563	-99	<b>0.28</b>
GN-08-PH-25	650387	6041221	Rock	George N	Lateegra	phosphate bed ( c g oolitic , str calc, 1.05m chip sample; WP 563	-99	<b>24.5</b>
GN-08-PH-26	650387	6041221	Rock	George N	Lateegra	str calc shale (shaley lst), 0.82m chip sample; WP563	-99	<b>7.46</b>
GN-08-PH-27	590271	6087420	Rock	George N	Sukunka; Tunnel	Oolitic phosphate bed, possibly up to 2m; WP 565	-99	-99

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
47152	666637	6020999	Muinok Mtn	-99	<b>0.01</b>	-99	-99	-99	-99	VAN08007664
47153	667375	6020607	Muinok Mtn	-99	<b>0.4</b>	-99	-99	-99	-99	VAN08007664
47154	662712	6025432	Muinok Mtn	-99	<b>0.32</b>	-99	-99	-99	-99	VAN08007664
47155	662693	6025389	Muinok Mtn	-99	<b>0.18</b>	-99	-99	-99	-99	VAN08007664
47156	662649	6025278	Muinok Mtn	-99	<b>0.23</b>	-99	-99	-99	-99	VAN08007664
47157	662618	6025185	Muinok Mtn	-99	<b>0.11</b>	-99	-99	-99	-99	VAN08007664
47158	663288	6024127	Muinok Mtn	-99	<b>0.05</b>	-99	-99	-99	-99	VAN08007664
47159	667583	6024245	Muinok Mtn	-99	<b>0.09</b>	-99	-99	-99	-99	VAN08007664
47160	667519	6024504	Muinok Mtn	-99	<b>3.22</b>	-99	-99	-99	-99	VAN08007664
47161	667647	6024471	Muinok Mtn	-99	<b>7.6</b>	-99	-99	-99	-99	VAN08007664
47162	667677.39	6024390.84	Muinok Mtn	29.64	<b>1.88</b>	-99	-99	-99	-99	VAN08008821
47163	667677.54	6024391.66	Muinok Mtn	33.34	<b>2.29</b>	-99	-99	-99	-99	VAN08008821
47164	667666.96	6024368.53	Muinok Mtn	33.15	<b>6.01</b>	-99	-99	-99	-99	VAN08008821
47165	667665.92	6024368.38	Muinok Mtn	40.45	<b>2.2</b>	-99	-99	-99	-99	VAN08008821
47166	667664.82	6024368.68	Muinok Mtn	30.58	<b>1.51</b>	-99	-99	-99	-99	VAN08008821
47167	667663.92	6024367.63	Muinok Mtn	21.11	<b>0.99</b>	-99	-99	-99	-99	VAN08008821
47168	667663.03	6024367.19	Muinok Mtn	34.45	<b>0.6</b>	-99	-99	-99	-99	VAN08008821
47169	667662.18	6024366.54	Muinok Mtn	22.97	<b>5.87</b>	-99	-99	-99	-99	VAN08008821
47170	667661.43	6024366.09	Muinok Mtn	17.02	<b>0.31</b>	-99	-99	-99	-99	VAN08008821
47171	667660.64	6024365.49	Muinok Mtn	37.33	<b>4.79</b>	-99	-99	-99	-99	VAN08008821
47172	667659.99	6024365.04	Muinok Mtn	31.48	<b>0.15</b>	-99	-99	-99	-99	VAN08008821
47173	667659.34	6024364.6	Muinok	7.99	<b>0.44</b>	-99	-99	-99	-99	VAN08008821



Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
			Mtn							
47174	667705.78	6024478.74	Muinok Mtn	43.6	<b>10.03</b>	-99	-99	-99	-99	VAN08008821
47176	667705.43	6024477.99	Muinok Mtn	26.16	<b>0.42</b>	-99	-99	-99	-99	VAN08008821
47177	667704.85	6024477.24	Muinok Mtn	34.91	<b>0.19</b>	-99	-99	-99	-99	VAN08008821
47178	667704.28	6024476.43	Muinok Mtn	29.84	<b>0.4</b>	-99	-99	-99	-99	VAN08008821
47179	667703.81	6024475.57	Muinok Mtn	25.92	<b>1.05</b>	-99	-99	-99	-99	VAN08008821
47180	667703.24	6024474.64	Muinok Mtn	38.54	<b>2.21</b>	-99	-99	-99	-99	VAN08008821
47181	667702.72	6024473.78	Muinok Mtn	40.86	<b>6.25</b>	-99	-99	-99	-99	VAN08008821
47182	667702.14	6024472.97	Muinok Mtn	22.93	<b>2.38</b>	-99	-99	-99	-99	VAN08008821
47183	667701.62	6024472.16	Muinok Mtn	30.04	<b>2.67</b>	-99	-99	-99	-99	VAN08008821
47184	667701.04	6024471.18	Muinok Mtn	25.4	<b>7.9</b>	-99	-99	-99	-99	VAN08008821
47185	667700.58	6024470.31	Muinok Mtn	16.58	<b>3.27</b>	-99	-99	-99	-99	VAN08008821
47186	667700.06	6024469.45	Muinok Mtn	26.9	<b>0.86</b>	-99	-99	-99	-99	VAN08008821
47187	667699.48	6024468.41	Muinok Mtn	37.26	<b>0.83</b>	-99	-99	-99	-99	VAN08008821
47188	667698.79	6024467.60	Muinok Mtn	30.85	<b>0.85</b>	-99	-99	-99	-99	VAN08008821
47189	667706.47	6024479.67	Muinok Mtn	21.22	<b>6.07</b>	-99	-99	-99	-99	VAN08008821
47191	667706.87	6024480.59	Muinok Mtn	9.79	<b>0.34</b>	-99	-99	-99	-99	VAN08008821
47192	667707.39	6024481.52	Muinok Mtn	11.56	<b>0.67</b>	-99	-99	-99	-99	VAN08008821
47193	667707.97	6024482.27	Muinok Mtn	10.16	<b>0.27</b>	-99	-99	-99	-99	VAN08008821
47194	667675.66	6024182.66	Muinok Mtn	30.19	<b>12.22</b>	-99	-99	-99	-99	VAN08008821
47195	673760	6018791	Muinok Mtn; Meosin	8.37	<b>0.15</b>	-99	-99	-99	-99	VAN08008821
47196	673752	6018795	Muinok Mtn; Meosin	4.71	<b>0.19</b>	-99	-99	-99	-99	VAN08008821
47197	673748	6018802	Muinok Mtn; Meosin	11.62	<b>0.13</b>	-99	-99	-99	-99	VAN08008821
47198	667679	6024184	Muinok Mtn	27.55	<b>0.22</b>	-99	-99	-99	-99	VAN08008821
47302	667624	6024296	Muinok Mtn	-99	<b>0.39</b>	-99	-99	-99	-99	VAN08007664
47303	667666	6024369	Muinok Mtn	-99	<b>16.23</b>	-99	-99	-99	-99	VAN08007664
47304	667652	6024366	Muinok Mtn	-99	<b>18.33</b>	-99	-99	-99	-99	VAN08007664
47305	667635	6024376	Muinok Mtn	-99	<b>18.93</b>	-99	-99	-99	-99	VAN08007664
47306	667637	6024379	Muinok Mtn	-99	<b>1.17</b>	-99	-99	-99	-99	VAN08007664
47307	667620	6024345	Muinok Mtn	-99	<b>0.55</b>	-99	-99	-99	-99	VAN08007664
47308	569588	6111342	Sukunka	-99	<b>2.38</b>	-99	-99	-99	-99	VAN08007664

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
47309	590252	6087459	Sukunka; Tunnel	43.05	17.41	-99	-99	-99	-99	VAN08007763
47310	590247	6087469	Sukunka; Tunnel	46.82	21.94	78.8	197.2	98.9	58.5	VAN08007763
47311	590152	6087639	Sukunka; Tunnel	44.37	1.31	-99	-99	-99	-99	VAN08007763
47312	596111	6082629	Muinok Mtn	44.73	0.53	-99	-99	-99	-99	VAN08007763
47313	603183	6081930	Sukunka; Hook Lake	30.06	0.11	-99	-99	-99	-99	VAN08007984
47314	603197	6082070	Sukunka; Hook Lake	42.43	0.13	-99	-99	-99	-99	VAN08007984
47315	603096	6082129	Sukunka; Hook Lake	40.29	0.14	-99	-99	-99	-99	VAN08007984
47316	602585	6082518	Sukunka; Hook Lake	45.62	0.06	-99	-99	-99	-99	VAN08007984
47317	602254	6083176	Sukunka; Hook Lake	30.52	0.09	-99	-99	-99	-99	VAN08007984
47318	601148	6079712	Sukunka; Hook Lake	43.36	0.01	-99	-99	-99	-99	VAN08007984
47319	601458	6079625	Sukunka; Hook Lake	54.66	0.01	-99	-99	-99	-99	VAN08007984
47320	601594	6079602	Sukunka; Hook Lake	26.97	0.05	-99	-99	-99	-99	VAN08007984
47321	602131	6079280	Sukunka; Hook Lake	42.33	0.02	-99	-99	-99	-99	VAN08007984
47322	602252	6079041	Sukunka; Hook Lake	47.71	0.01	-99	-99	-99	-99	VAN08007984
47323	630042	6062458	Windy Camps	18.51	0.25	-99	-99	-99	-99	VAN08007984
47324	631314	6063638	Windy Camps	51.81	0.1	-99	-99	-99	-99	VAN08007984
47326	631281	6063732	Windy Camps	38.68	0.19	-99	-99	-99	-99	VAN08007984
47327	631412	6063896	Windy Camps	8.13	5.55	-99	-99	-99	-99	VAN08007984
47328	631507	6064004	Windy Camps	44.2	0.03	-99	-99	-99	-99	VAN08007984
47329	631156	6063828	Windy Camps	36.29	7.93	-99	-99	-99	-99	VAN08007984
47330	630283	6061636	Windy Camps	20.09	0.21	-99	-99	-99	-99	VAN08007984
47331	630149	6062061	Windy Camps	48.14	2.19	-99	-99	-99	-99	VAN08007984
47332	629537	6062719	Windy Camps	33.28	0.44	-99	-99	-99	-99	VAN08007984
47333	629539	6062731	Windy Camps	42.13	6.14	-99	-99	-99	-99	VAN08007984
47334	629409	6062379	Windy Camps	45.15	16.96	-99	-99	-99	-99	VAN08007984
47335	629414	6062369	Windy Camps	46.76	15.97	-99	-99	-99	-99	VAN08007984

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48102	604279	6078220	Sukunka; Hook Lake	25.42	<b>0.29</b>	-99	-99	-99	-99	VAN08007984
48103	604271	6078240	Sukunka; Hook Lake	23.21	<b>0.42</b>	-99	-99	-99	-99	VAN08007984
48104	604285	6078293	Sukunka; Hook Lake	21.51	<b>0.21</b>	-99	-99	-99	-99	VAN08007984
48105	604272	6078321	Sukunka; Hook Lake	35.08	<b>0.28</b>	-99	-99	-99	-99	VAN08007984
48106	603320	6078748	Sukunka; Hook Lake	40.38	<b>4.36</b>	-99	-99	-99	-99	VAN08007984
48107	603284	6078766	Sukunka; Hook Lake	26.38	<b>0.44</b>	-99	-99	-99	-99	VAN08007984
48108	603267	6078804	Sukunka; Hook Lake	26.18	<b>0.42</b>	-99	-99	-99	-99	VAN08007984
48109	603607	6078329	Sukunka; Hook Lake	47.25	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48110	604678	6078111	Sukunka; Hook Lake	45.17	<b>0.2</b>	-99	-99	-99	-99	VAN08007984
48111	606276	6077122	Sukunka; Hook Lake	46.14	<b>12.06</b>	-99	-99	-99	-99	VAN08007984
48112	606305	6077122	Sukunka; Hook Lake	39.96	<b>0.17</b>	-99	-99	-99	-99	VAN08007984
48113	606883	6076495	Sukunka; Hook Lake	40.07	<b>0.13</b>	-99	-99	-99	-99	VAN08007984
48114	607000	6076453	Sukunka; Hook Lake	33.35	<b>1.76</b>	-99	-99	-99	-99	VAN08007984
48115	607045	6076474	Sukunka; Hook Lake	45.23	<b>15.94</b>	-99	-99	-99	-99	VAN08007984
48116	607672	6076086	Sukunka; Hook Lake	52.47	<b>0.05</b>	-99	-99	-99	-99	VAN08007984
48117	607628	6076027	Sukunka; Hook Lake	51.83	<b>0.2</b>	-99	-99	-99	-99	VAN08007984
48118	607055	6076417	Sukunka; Hook Lake	45.27	<b>10.08</b>	-99	-99	-99	-99	VAN08007984
48119	632598	6056790	Windy Camps	56.88	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48120	631872	6056907	Windy Camps	42.96	<b>23.18</b>	-99	-99	-99	-99	VAN08007984
48121	631871	6056907	Windy Camps	33.62	<b>0.14</b>	-99	-99	-99	-99	VAN08007984
48122	631871	6056907	Windy Camps	35.94	<b>0.1</b>	-99	-99	-99	-99	VAN08007984
48123	631464	6057117	Windy Camps	9.66	<b>0.87</b>	-99	-99	-99	-99	VAN08007984
48124	631550	6057228	Windy Camps	8.86	<b>0.22</b>	-99	-99	-99	-99	VAN08007984
48126	631523	6057258	Windy Camps	37.39	<b>17.19</b>	-99	-99	-99	-99	VAN08007984
48127	631523	6057258	Windy Camps	19.54	<b>4.04</b>	-99	-99	-99	-99	VAN08007984
48128	631523	6057258	Windy Camps	31.9	<b>8.45</b>	-99	-99	-99	-99	VAN08007984

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48129	631524	6057276	Windy Camps	39.65	<b>5.15</b>	-99	-99	-99	-99	VAN08007984
48130	632875	6055677	Windy Camps	5.05	<b>0.19</b>	-99	-99	-99	-99	VAN08007984
48131	632772	6057463	Windy Camps	31.86	<b>0.26</b>	-99	-99	-99	-99	VAN08007984
48132	631388	6057483	Windy Camps	25.39	<b>0.52</b>	-99	-99	-99	-99	VAN08007984
48133	631383	6057418	Windy Camps	50.05	<b>0.62</b>	-99	-99	-99	-99	VAN08007984
48134	631386	6057382	Windy Camps	41.55	<b>14.36</b>	-99	-99	-99	-99	VAN08007984
48135	640540	6057026	Windy Camps	34.78	<b>2.88</b>	-99	-99	-99	-99	VAN08008248
48136	652614.74	6037898.48	Lateegra	48.75	<b>24.27</b>	-99	-99	-99	-99	VAN08008248
48137	652615.77	6037899.06	Lateegra	39.68	<b>29.73</b>	-99	-99	-99	-99	VAN08008248
48138	652613.72	6037897.97	Lateegra	45.06	<b>32.92</b>	139.8	583.8	271	110.8	VAN08008248
48139	652677.8	6037823.31	Lateegra	48.26	<b>17.77</b>	-99	-99	-99	-99	VAN08008248
48140	652678.87	6037823.82	Lateegra	49.68	<b>36.6</b>	164.4	567.6	277	128.4	VAN08008248
48141	652676.78	6037822.75	Lateegra	45.75	<b>32.85</b>	-99	-99	-99	-99	VAN08008248
48142	652852.01	6037595.99	Lateegra	39.95	<b>30.45</b>	182.2	541.3	262.7	130.8	VAN08008248
48143	652852.81	6037596.83	Lateegra	14.57	<b>10.48</b>	-99	-99	-99	-99	VAN08008248
48144	652844	6037588	Lateegra	12.32	<b>8.63</b>	-99	-99	-99	-99	VAN08008248
48152	667807	6020429	Muinok Mtn	-99	<b>0.03</b>	-99	-99	-99	-99	VAN08007664
48153	668137	6020470	Muinok Mtn	-99	<b>0.39</b>	-99	-99	-99	-99	VAN08007664
48154	668150	6020501	Muinok Mtn	-99	<b>0.47</b>	-99	-99	-99	-99	VAN08007664
48155	666899	6022969	Muinok Mtn	-99	<b>0.19</b>	-99	-99	-99	-99	VAN08007664
48156	666532	6024259	Muinok Mtn	-99	<b>1.27</b>	-99	-99	-99	-99	VAN08007664
48157	666484	6024259	Muinok Mtn	-99	<b>0.91</b>	-99	-99	-99	-99	VAN08007664
48158	666684	6024179	Muinok Mtn	-99	<b>0.15</b>	-99	-99	-99	-99	VAN08007664
48159	667595	6024265	Muinok Mtn	-99	<b>0.16</b>	-99	-99	-99	-99	VAN08007664
48160	667655	6024339	Muinok Mtn	-99	<b>1.44</b>	-99	-99	-99	-99	VAN08007664
48161	667706	6024476	Muinok Mtn	-99	<b>2.76</b>	-99	-99	-99	-99	VAN08007664
48162	667604	6024277	Muinok Mtn	-99	<b>0.17</b>	-99	-99	-99	-99	VAN08007664
48163	667605	6024279	Muinok Mtn	-99	<b>0.12</b>	-99	-99	-99	-99	VAN08007664
48164	667609	6024284	Muinok Mtn	-99	<b>0.13</b>	-99	-99	-99	-99	VAN08007664
48165	667613	6024289	Muinok Mtn	-99	<b>0.1</b>	-99	-99	-99	-99	VAN08007664
48166	667616	6024291	Muinok Mtn	-99	<b>0.24</b>	-99	-99	-99	-99	VAN08007664
48167	667619	6024292	Muinok Mtn	-99	<b>0.2</b>	-99	-99	-99	-99	VAN08007664
48168	667623	6024298	Muinok Mtn	-99	<b>0.19</b>	-99	-99	-99	-99	VAN08007664

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48169	667626	6024302	Muinok Mtn	-99	<b>0.29</b>	-99	-99	-99	-99	VAN08007664
48170	667629	6024309	Muinok Mtn	-99	<b>0.15</b>	-99	-99	-99	-99	VAN08007664
48171	667634	6024313	Muinok Mtn	-99	<b>0.22</b>	-99	-99	-99	-99	VAN08007664
48172	667638	6024315	Muinok Mtn	-99	<b>1.04</b>	-99	-99	-99	-99	VAN08007664
48173	667641	6024318	Muinok Mtn	-99	<b>1.99</b>	-99	-99	-99	-99	VAN08007664
48174	667646	6024327	Muinok Mtn	-99	<b>0.13</b>	-99	-99	-99	-99	VAN08007664
48176	582491	6096126	Sukunka; Tunnel	42.41	<b>0.06</b>	-99	-99	-99	-99	VAN08007763
48177	572109	6107763	Sukunka	49.64	<b>0.02</b>	-99	-99	-99	-99	VAN08007763
48178	594464	6084642	Sukunka	33.22	<b>0.18</b>	-99	-99	-99	-99	VAN08007763
48179	594997	6083804	Sukunka	50.41	<b>0.08</b>	-99	-99	-99	-99	VAN08007763
48180	603473	6081402	Sukunka; Hook Lake	45.16	<b>0.19</b>	-99	-99	-99	-99	VAN08007984
48181	604014	6081066	Sukunka; Hook Lake	48.46	<b>0.11</b>	-99	-99	-99	-99	VAN08007984
48182	604106	6081066	Sukunka; Hook Lake	46.72	<b>0.13</b>	-99	-99	-99	-99	VAN08007984
48183	604177	6081079	Sukunka; Hook Lake	37.68	<b>0.5</b>	-99	-99	-99	-99	VAN08007984
48184	603942	6081012	Sukunka; Hook Lake	49.66	<b>0.04</b>	-99	-99	-99	-99	VAN08007984
48185	601157	6079661	Sukunka; Hook Lake	52.81	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48186	601340	6079734	Sukunka; Hook Lake	53.65	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48187	601348	6079754	Sukunka; Hook Lake	29.92	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48188	601897	6079579	Sukunka; Hook Lake	30.17	<b>0.13</b>	-99	-99	-99	-99	VAN08007984
48189	602072	6079484	Sukunka; Hook Lake	53.97	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48190	602272	6079079	Sukunka; Hook Lake	54.19	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48191	601789	6078800	Sukunka; Hook Lake	30.01	<b>13.32</b>	-99	-99	-99	-99	VAN08007984
48192	631320	6063239	Windy Camps	55.68	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48193	631428	6063513	Windy Camps	17.15	<b>0.13</b>	-99	-99	-99	-99	VAN08007984
48194	631298	6063729	Windy Camps	45.94	<b>0.2</b>	-99	-99	-99	-99	VAN08007984
48195	631218	6063805	Windy Camps	26.59	<b>2.25</b>	-99	-99	-99	-99	VAN08007984
48196	631209	6063813	Windy Camps	44.45	<b>4.09</b>	-99	-99	-99	-99	VAN08007984
48197	630320	6061928	Windy Camps	47.29	<b>1.52</b>	-99	-99	-99	-99	VAN08007984
48198	630094	6062146	Windy Camps	8.65	<b>1.33</b>	-99	-99	-99	-99	VAN08007984

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48199	629671	6062368	Windy Camps	46.77	<b>1.32</b>	-99	-99	-99	-99	VAN08007984
48200	629361	6062394	Windy Camps	37.74	<b>7.83</b>	-99	-99	-99	-99	VAN08007984
48202	666133	6021033	Muinok Mtn	-99	<b>0.01</b>	-99	-99	-99	-99	VAN08007664
48203	665416	6020289	Muinok Mtn	-99	<b>0.09</b>	-99	-99	-99	-99	VAN08007664
48204	662672	6025366	Muinok Mtn	-99	<b>0.18</b>	-99	-99	-99	-99	VAN08007664
48205	662615	6025283	Muinok Mtn	-99	<b>0.14</b>	-99	-99	-99	-99	VAN08007664
48206	662585	6025053	Muinok Mtn	-99	<b>0.28</b>	-99	-99	-99	-99	VAN08007664
48207	667661	6024332	Muinok Mtn	-99	<b>0.07</b>	-99	-99	-99	-99	VAN08007664
48208	590714	6086796	Sukunka; Tunnel	17.7	<b>0.19</b>	-99	-99	-99	-99	VAN08007763
48209	590275	6087419	Sukunka; Tunnel	46.17	<b>21.9</b>	77.3	103.6	53.8	47.1	VAN08007763
48210	590133	6087720	Sukunka; Tunnel	46	<b>10.99</b>	-99	-99	-99	-99	VAN08007763
48211	586261	6094405	Sukunka	31.98	<b>0.23</b>	-99	-99	-99	-99	VAN08007763
48212	587613	6092156	Sukunka; Tunnel	6.69	<b>0.21</b>	-99	-99	-99	-99	VAN08007763
48213	587577	6092062	Sukunka; Tunnel	45.21	<b>19.82</b>	67.3	214.3	110.8	62.6	VAN08007763
48214	588709	6090264	Sukunka	54.47	<b>0.01</b>	-99	-99	-99	-99	VAN08007763
48215	604697	6078106	Sukunka; Hook Lake	49.52	<b>0.07</b>	-99	-99	-99	-99	VAN08007763
48216	604951	6077812	Sukunka; Hook Lake	40.52	<b>1.22</b>	-99	-99	-99	-99	VAN08007763
48217	605674	6077450	Sukunka; Hook Lake	33.18	<b>0.29</b>	4.7	20.8	15.5	22.5	VAN08007763
48218	605677	6077459	Sukunka; Hook Lake	30.59	<b>0.7</b>	-99	-99	-99	-99	VAN08007763
48219	605672	6077492	Sukunka; Hook Lake	24.5	<b>0.35</b>	-99	-99	-99	-99	VAN08007763
48220	605683	6077333	Sukunka; Hook Lake	21.89	<b>8.57</b>	-99	-99	-99	-99	VAN08007763
48221	605851	6077242	Sukunka; Hook Lake	43.86	<b>0.06</b>	-99	-99	-99	-99	VAN08007763
48222	606265	6076849	Sukunka; Hook Lake	38.9	<b>0.04</b>	-99	-99	-99	-99	VAN08007763
48223	606326	6076980	Sukunka; Hook Lake	18.14	<b>0.02</b>	-99	-99	-99	-99	VAN08007763
48224	606333	6077026	Sukunka; Hook Lake	25.81	<b>0.25</b>	-99	-99	-99	-99	VAN08007763
48226	606321	6077071	Sukunka; Hook Lake	39.77	<b>0.09</b>	-99	-99	-99	-99	VAN08007763
48227	633937	6054600	Windy Camps	0.18	<b>0.73</b>	-99	-99	-99	-99	VAN08007763
48228	633125	6053848	Windy Camps	52.4	<b>0.01</b>	-99	-99	-99	-99	VAN08007763

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48229	633007	6054001	Windy Camps	53.62	0.01	-99	-99	-99	-99	VAN08007763
48230	633192	6054011	Windy Camps	45.62	0.01	-99	-99	-99	-99	VAN08007763
48231	634827	6054107	Windy Camps	50.4	21.9	78.5	99	49.8	27.5	VAN08007763
48232	634822	6054100	Windy Camps	25.64	14.05	-99	-99	-99	-99	VAN08007763
48233	634819	6054115	Windy Camps	45.13	17.98	-99	-99	-99	-99	VAN08007763
48234	634814	6054133	Windy Camps	49.4	19.47	103.9	353.3	171.5	76.1	VAN08007763
48235	639793	6056549	Windy Camps	4.17	3.46	-99	-99	-99	-99	VAN08008248
48302	666687	6020918	Muinok Mtn	-99	0.01	-99	-99	-99	-99	VAN08007664
48303	665751	6020456	Muinok Mtn	-99	0.63	-99	-99	-99	-99	VAN08007664
48304	665582	6020264	Muinok Mtn	-99	4.69	-99	-99	-99	-99	VAN08007664
48305	665516	6020223	Muinok Mtn	-99	0.26	-99	-99	-99	-99	VAN08007664
48306	664957	6019961	Muinok Mtn	-99	0.07	-99	-99	-99	-99	VAN08007664
48307	662632	6025287	Muinok Mtn	-99	0.25	-99	-99	-99	-99	VAN08007664
48308	662609	6025190	Muinok Mtn	-99	0.11	-99	-99	-99	-99	VAN08007664
48309	662586	6024480	Muinok Mtn	-99	0.5	-99	-99	-99	-99	VAN08007664
48310	667669	6024364	Muinok Mtn	-99	7.74	-99	-99	-99	-99	VAN08007664
48311	667673	6024345	Muinok Mtn	-99	0.46	-99	-99	-99	-99	VAN08007664
48312	667669	6024340	Muinok Mtn	-99	0.58	-99	-99	-99	-99	VAN08007664
48313	667655	6024339	Muinok Mtn	-99	1.02	-99	-99	-99	-99	VAN08007664
48314	667656	6024339	Muinok Mtn	-99	0.65	-99	-99	-99	-99	VAN08007664
48315	667653	6024335	Muinok Mtn	-99	0.29	-99	-99	-99	-99	VAN08007664
48316	590309	6087403	Sukunka; Tunnel	24.81	2.25	-99	-99	-99	-99	VAN08007664
48317	590153	6087644	Sukunka; Tunnel	47.35	20.16	-99	-99	-99	-99	VAN08007664
48319	601458	6078971	Sukunka; Hook Lake	35.87	9.4	-99	-99	-99	-99	VAN08007984
48320	601434	6078956	Sukunka; Hook Lake	41.55	1.61	-99	-99	-99	-99	VAN08007984
48321	629234	6062135	Windy Camps	23.41	0.5	-99	-99	-99	-99	VAN08007984
48322	629117	6061987	Windy Camps	26.4	0.53	-99	-99	-99	-99	VAN08007984
48323	628947	6062486	Windy Camps	41.24	3.51	-99	-99	-99	-99	VAN08007984
48324	628948	6062491	Windy Camps	38.98	5	-99	-99	-99	-99	VAN08007984



Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48326	628941	6062521	Windy Camps	41.57	<b>10.53</b>	-99	-99	-99	-99	VAN08007984
48327	629421	6062352	Windy Camps	43.52	<b>11.22</b>	-99	-99	-99	-99	VAN08007984
48328	628743	6061627	Windy Camps	46.64	<b>0.06</b>	-99	-99	-99	-99	VAN08007984
48329	628601	6061392	Windy Camps	30.74	<b>0.39</b>	-99	-99	-99	-99	VAN08007984
48330	628349	6061340	Windy Camps	36.27	<b>0.43</b>	-99	-99	-99	-99	VAN08007984
48331	627842	6060921	Windy Camps	10.12	<b>0.28</b>	-99	-99	-99	-99	VAN08007984
48332	627765	6060811	Windy Camps	50.51	<b>0.02</b>	-99	-99	-99	-99	VAN08007984
48353	662624	6025269	Muinok Mtn	-99	<b>0.24</b>	-99	-99	-99	-99	VAN08007664
48354	662583	6025108	Muinok Mtn	-99	<b>0.31</b>	-99	-99	-99	-99	VAN08007664
48355	662560	6024937	Muinok Mtn	-99	<b>0.12</b>	-99	-99	-99	-99	VAN08007664
48357	572096	6107809	Sukunka	51.97	<b>0.01</b>	-99	-99	-99	-99	VAN08007763
48358	587856	6091389	Sukunka; Tunnel	43.41	<b>8.59</b>	-99	-99	-99	-99	VAN08007763
48359	602038	6078490	Sukunka; Tunnel	37.21	<b>0.07</b>	-99	-99	-99	-99	VAN08007984
48360	602006	6078469	Sukunka; Tunnel	9.34	<b>0.33</b>	-99	-99	-99	-99	VAN08007984
48361	601977	6078444	Sukunka; Tunnel	49.25	<b>1.23</b>	-99	-99	-99	-99	VAN08007984
48362	600274	6078578	Sukunka; Tunnel	40.45	<b>0.33</b>	-99	-99	-99	-99	VAN08007984
48363	600366	6078469	Sukunka; Tunnel	35.82	<b>0.19</b>	-99	-99	-99	-99	VAN08007984
48364	600810	6080113	Sukunka; Hook Lake	53.67	<b>0.03</b>	-99	-99	-99	-99	VAN08007984
48365	600707	6080164	Sukunka; Hook Lake	49.93	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48366	600555	6079976	Sukunka; Hook Lake	48.76	<b>0.01</b>	-99	-99	-99	-99	VAN08007984
48367	600512	6079933	Sukunka; Hook Lake	43.09	<b>0.06</b>	-99	-99	-99	-99	VAN08007984
48368	600469	6079926	Sukunka; Hook Lake	9.49	<b>0.72</b>	-99	-99	-99	-99	VAN08007984
48369	600437	6079904	Sukunka; Hook Lake	43.06	<b>0.36</b>	-99	-99	-99	-99	VAN08007984
48370	600485	6079738	Sukunka; Hook Lake	48.94	<b>0.04</b>	-99	-99	-99	-99	VAN08007984
48371	600915	6079470	Sukunka; Hook Lake	30.25	<b>1.15</b>	-99	-99	-99	-99	VAN08007984
48372	627771	6060433	Windy Camps	52.8	<b>0.03</b>	-99	-99	-99	-99	VAN08007984
48402	576274	6104199	Sukunka	48.55	<b>0.03</b>	-99	-99	-99	-99	VAN08007763
48403	590229	6087500	Sukunka; Tunnel	44.66	<b>18.23</b>	-99	-99	-99	-99	VAN08007763

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48404	590037	6087835	Sukunka; Tunnel	42.27	<b>8.88</b>	-99	-99	-99	-99	VAN08007763
48405	589637	6089011	Sukunka; Tunnel	48.99	<b>18.33</b>	76.3	169	87.3	53.1	VAN08007763
48406	589717	6088516	Sukunka; Tunnel	43.8	<b>20.71</b>	69.4	175.2	93.3	66.3	VAN08007763
48407	589799	6088383	Sukunka; Tunnel	48.07	<b>17.1</b>	-99	-99	-99	-99	VAN08007763
48409	605655	6077438	Sukunka; Hook Lake	44.31	<b>0.07</b>	-99	-99	-99	-99	VAN08007984
48410	606113	6077196	Sukunka; Hook Lake	36.83	<b>0.93</b>	-99	-99	-99	-99	VAN08007984
48411	606114	6077186	Sukunka; Hook Lake	43.06	<b>0.07</b>	-99	-99	-99	-99	VAN08007984
48412	606190	6077211	Sukunka; Hook Lake	35.25	<b>0.17</b>	-99	-99	-99	-99	VAN08007984
48413	605052	6077855	Sukunka; Hook Lake	40.46	<b>7.13</b>	-99	-99	-99	-99	VAN08007984
48414	606248	6076866	Sukunka; Hook Lake	48.46	<b>0.06</b>	-99	-99	-99	-99	VAN08007984
48415	606427	6076943	Sukunka; Hook Lake	44.19	<b>5.27</b>	-99	-99	-99	-99	VAN08007984
48416	606427	6077017	Sukunka; Hook Lake	41.55	<b>0.15</b>	-99	-99	-99	-99	VAN08007984
48417	606402	6077062	Sukunka; Hook Lake	35.62	<b>0.46</b>	-99	-99	-99	-99	VAN08007984
48418	634828	6054167	Windy Camps	48.32	<b>26.21</b>	83.2	209.5	98.2	50.4	VAN08007984
48419	633849	6054822	Windy Camps	26.78	<b>19.19</b>	-99	-99	-99	-99	VAN08007984
48420	633413	6054942	Windy Camps	7.59	<b>0.53</b>	-99	-99	-99	-99	VAN08007984
48421	634353	6054368	Windy Camps	10.25	<b>0.48</b>	-99	-99	-99	-99	VAN08007984
48422	634366	6054360	Windy Camps	41.78	<b>0.23</b>	-99	-99	-99	-99	VAN08007984
48423	634818	6054112	Windy Camps	32.26	<b>16.75</b>	-99	-99	-99	-99	VAN08007984
48424	634810	6054119	Windy Camps	43.45	<b>25.38</b>	73.4	250.9	138.8	89.4	VAN08007984
48426	667817	6023816	Muinok Mtn	-99	<b>2.91</b>	-99	-99	-99	-99	VAN08010153
48427	667811	6023869	Muinok Mtn	-99	<b>4.51</b>	-99	-99	-99	-99	VAN08010153
48428	667791	6023989	Muinok Mtn	-99	<b>0.44</b>	-99	-99	-99	-99	VAN08010153
48429	667992.00	6023989.01	Muinok Mtn	-99	<b>3.3</b>	-99	-99	-99	-99	VAN08010153
48430	667992.84	6023989.57	Muinok Mtn	-99	<b>3.68</b>	-99	-99	-99	-99	VAN08010153
48452	569876	6110955	Sukunka	33.78	<b>0.35</b>	-99	-99	-99	-99	VAN08007763
48453	570826	6109895	Sukunka	43.83	<b>0.08</b>	-99	-99	-99	-99	VAN08007763
48454	590081	6087874	Sukunka; Tunnel	32.17	<b>0.17</b>	-99	-99	-99	-99	VAN08007763

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48455	579390	6101941	Sukunka	38.95	0.15	-99	-99	-99	-99	VAN08007763
48456	579508	6101820	Sukunka	24.68	0.14	-99	-99	-99	-99	VAN08007763
48457	580043	6101659	Sukunka	45.64	3.88	-99	-99	-99	-99	VAN08007763
48458	580096	6101527	Sukunka	31.16	0.15	-99	-99	-99	-99	VAN08007763
48459	580129	6101406	Sukunka	35.55	0.09	-99	-99	-99	-99	VAN08007763
48460	585615	6096587	Sukunka	32.16	0.11	-99	-99	-99	-99	VAN08007763
48461	585703	6096585	Sukunka	37.67	5.78	-99	-99	-99	-99	VAN08007763
48462	585753	6096605	Sukunka	36.31	0.16	-99	-99	-99	-99	VAN08007763
48463	585752	6096584	Sukunka	37.53	0.15	-99	-99	-99	-99	VAN08007763
48464	604247	6078217	Sukunka; Hook Lake	36.46	0.13	-99	-99	-99	-99	VAN08007984
48465	603861	6078479	Sukunka; Hook Lake	42.41	5.3	-99	-99	-99	-99	VAN08007984
48466	603835	6078518	Sukunka; Hook Lake	36.97	0.27	-99	-99	-99	-99	VAN08007984
48467	603328	6078749	Sukunka; Hook Lake	26.1	0.33	-99	-99	-99	-99	VAN08007984
48468	603299	6078774	Sukunka; Hook Lake	26.11	0.33	-99	-99	-99	-99	VAN08007984
48469	603008	6079029	Sukunka; Hook Lake	40.6	0.13	-99	-99	-99	-99	VAN08007984
48470	603199	6078396	Sukunka; Hook Lake	46.14	0.01	-99	-99	-99	-99	VAN08007984
48471	631850	6056881	Windy Camps	36.38	16.8	-99	-99	-99	-99	VAN08007984
48472	631454	6057111	Windy Camps	6.51	0.19	-99	-99	-99	-99	VAN08007984
48473	631527	6057266	Windy Camps	42.97	9.64	-99	-99	-99	-99	VAN08007984
48474	631387	6057378	Windy Camps	53.55	4.26	-99	-99	-99	-99	VAN08007984
48475	651267.75	6040195.88	Lateegra	35.11	25.46	-99	-99	-99	-99	VAN08008084
48476	651268.83	6040196.26	Lateegra	0.51	0.64	-99	-99	-99	-99	VAN08008084
48477	651319.89	6040070.57	Lateegra	37.25	28.9	-99	-99	-99	-99	VAN08008084
48478	651320.79	6040071.01	Lateegra	2.39	1.98	-99	-99	-99	-99	VAN08008084
48479	651492	6039753	Lateegra	34.24	24.98	-99	-99	-99	-99	VAN08008084
48480	651644	6039470	Lateegra	35.19	25.39	119.3	76	47.5	45.8	VAN08008084
48501	589898.02	6088207.89	Sukunka; Tunnel	-99	19.06	-99	-99	-99	-99	VAN08008084
48502	589899.72	6088208.5	Sukunka; Tunnel	1.3	23.8	73.9	205.8	105.6	62.5	VAN08008084
48503	589901.3	6088209.08	Sukunka; Tunnel	-99	18.95	-99	-99	-99	-99	VAN08008084
48504	590057.00	6087788.87	Sukunka; Tunnel	-99	14.23	-99	-99	-99	-99	VAN08008084
48505	590057.95	6087789.17	Sukunka; Tunnel	-99	12.14	-99	-99	-99	-99	VAN08008084
48506	590058.83	6087789.39	Sukunka; Tunnel	-99	19.72	-99	-99	-99	-99	VAN08008084
48507	590059.65	6087789.67	Sukunka; Tunnel	-99	22.25	-99	-99	-99	-99	VAN08008084

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48508	590060.49	6087789.91	Sukunka; Tunnel	-99	14.1	-99	-99	-99	-99	VAN08008084
48509	590061.48	6087790.10	Sukunka; Tunnel	-99	15.4	-99	-99	-99	-99	VAN08008084
48510	590062.50	6087790.34	Sukunka; Tunnel	-99	2.94	-99	-99	-99	-99	VAN08008084
48511	590216.04	6087512.87	Sukunka; Tunnel	-99	2.08	-99	-99	-99	-99	VAN08008084
48512	590217.11	6087513.33	Sukunka; Tunnel	1.2	21.5	52.1	190.5	97.7	60.9	VAN08008084
48513	590218.15	6087513.68	Sukunka; Tunnel	-99	14.13	-99	-99	-99	-99	VAN08008084
48514	590219.05	6087514.06	Sukunka; Tunnel	-99	18.05	-99	-99	-99	-99	VAN08008084
48515	590166.05	6087615.69	Sukunka; Tunnel	-99	0.19	-99	-99	-99	-99	VAN08008084
48516	590167.12	6087616.00	Sukunka; Tunnel	-99	13.52	-99	-99	-99	-99	VAN08008084
48517	590168.05	6087616.31	Sukunka; Tunnel	-99	7.9	-99	-99	-99	-99	VAN08008084
48518	590169.09	6087616.69	Sukunka; Tunnel	-99	0.39	-99	-99	-99	-99	VAN08008084
48519	590224.19	6087498.65	Sukunka; Tunnel	-99	6.87	-99	-99	-99	-99	VAN08008084
48520	590225.08	6087499.11	Sukunka; Tunnel	-99	17.74	-99	-99	-99	-99	VAN08008084
48521	590226.03	6087499.66	Sukunka; Tunnel	-99	16.77	-99	-99	-99	-99	VAN08008084
48522	590226.93	6087500.12	Sukunka; Tunnel	-99	18.44	-99	-99	-99	-99	VAN08008084
48523	590253.18	6087452.86	Sukunka; Tunnel	-99	10.87	-99	-99	-99	-99	VAN08008084
48524	590254.19	6087453.41	Sukunka; Tunnel	-99	15.99	-99	-99	-99	-99	VAN08008084
48525	590254.91	6087453.90	Sukunka; Tunnel	-99	19.66	-99	-99	-99	-99	VAN08008084
48526	590255.69	6087454.36	Sukunka; Tunnel	-99	19.73	-99	-99	-99	-99	VAN08008084
48527	590256.53	6087454.97	Sukunka; Tunnel	-99	12.55	-99	-99	-99	-99	VAN08008084
48528	590272.06	6087420.89	Sukunka; Tunnel	0.8	16.1	99.8	126.2	64.8	48.4	VAN08008084
48529	590272.95	6087421.27	Sukunka; Tunnel	-99	19.31	-99	-99	-99	-99	VAN08008084
48530	590273.76	6087421.58	Sukunka; Tunnel	-99	4.06	-99	-99	-99	-99	VAN08008084
48531	590274.64	6087421.91	Sukunka; Tunnel	-99	6.34	-99	-99	-99	-99	VAN08008084
48532	590275.45	6087422.23	Sukunka; Tunnel	-99	0.27	-99	-99	-99	-99	VAN08008084
48533	590276.32	6087422.55	Sukunka; Tunnel	-99	1.12	-99	-99	-99	-99	VAN08008084
48534	652311	6038213	Lateegra	7.9	5.39	-99	-99	-99	-99	VAN08008251

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48535	652174	6038373	Lateegra	46.93	<b>28.62</b>	-99	-99	-99	-99	VAN08008248
48536	652134	6038412	Lateegra	48.21	<b>36.09</b>	182.3	752.9	359.6	173	VAN08008248
48537	667667.99	6024380.45	Muinok Mtn	7.32	<b>0.27</b>	-99	-99	-99	-99	VAN08008821
48538	667668.72	6024381.07	Muinok Mtn	10.85	<b>0.25</b>	-99	-99	-99	-99	VAN08008821
48539	667669.42	6024381.77	Muinok Mtn	7.36	<b>0.26</b>	-99	-99	-99	-99	VAN08008821
48540	667669.94	6024382.49	Muinok Mtn	28.5	<b>0.37</b>	-99	-99	-99	-99	VAN08008821
48541	667670.58	6024383.27	Muinok Mtn	20.46	<b>2.34</b>	-99	-99	-99	-99	VAN08008821
48542	667671.32	6024384.02	Muinok Mtn	17.71	<b>2.09</b>	-99	-99	-99	-99	VAN08008821
48543	667672.14	6024384.74	Muinok Mtn	36.54	<b>1.09</b>	-99	-99	-99	-99	VAN08008821
48544	667673.07	6024385.44	Muinok Mtn	35.67	<b>1.58</b>	-99	-99	-99	-99	VAN08008821
48545	667673.85	6024386.2	Muinok Mtn	22.79	<b>4.07</b>	-99	-99	-99	-99	VAN08008821
48546	667674.55	6024386.90	Muinok Mtn	33.77	<b>2.48</b>	-99	-99	-99	-99	VAN08008821
48547	667675.25	6024387.73	Muinok Mtn	33.12	<b>1.9</b>	-99	-99	-99	-99	VAN08008821
48548	667675.95	6024388.5	Muinok Mtn	25.6	<b>5.74</b>	-99	-99	-99	-99	VAN08008821
48549	667676.50	6024389.24	Muinok Mtn	25.23	<b>6.2</b>	-99	-99	-99	-99	VAN08008821
48550	667676.99	6024390.07	Muinok Mtn	33.95	<b>1.29</b>	-99	-99	-99	-99	VAN08008821
48551	590944	6087239	Sukunka; Tunnel	-99	<b>0.25</b>	-99	-99	-99	-99	VAN08008084
48552	590936	6087254	Sukunka; Tunnel	-99	<b>0.24</b>	-99	-99	-99	-99	VAN08008084
48553	667635.91	6024315.54	Muinok Mtn	-99	<b>9.47</b>	-99	-99	-99	-99	VAN08010153
48554	667634.90	6024314.82	Muinok Mtn	-99	<b>0.42</b>	-99	-99	-99	-99	VAN08010153
48555	667633.88	6024314.22	Muinok Mtn	-99	<b>0.32</b>	-99	-99	-99	-99	VAN08010153
48556	667633.16	6024313.33	Muinok Mtn	-99	<b>0.24</b>	-99	-99	-99	-99	VAN08010153
48557	667632.15	6024312.43	Muinok Mtn	-99	<b>0.21</b>	-99	-99	-99	-99	VAN08010153
48558	667631.43	6024311.53	Muinok Mtn	-99	<b>0.39</b>	-99	-99	-99	-99	VAN08010153
48559	667636.67	6024316.30	Muinok Mtn	-99	<b>17.84</b>	-99	-99	-99	-99	VAN08010153
48560	667637.35	6024316.91	Muinok Mtn	-99	<b>14.17</b>	-99	-99	-99	-99	VAN08010153
48561	667638.01	6024317.81	Muinok Mtn	-99	<b>5.72</b>	-99	-99	-99	-99	VAN08010153
48562	667638.72	6024318.35	Muinok Mtn	-99	<b>2.48</b>	-99	-99	-99	-99	VAN08010153
48563	667639.38	6024318.83	Muinok Mtn	-99	<b>3.15</b>	-99	-99	-99	-99	VAN08010153
48601	667672.69	6024396.44	Muinok Mtn	-99	<b>1.32</b>	-99	-99	-99	-99	VAN08010153
48602	667672.19	6024395.49	Muinok Mtn	-99	<b>2.39</b>	-99	-99	-99	-99	VAN08010153
48604	667671.74	6024394.67	Muinok Mtn	-99	<b>0.9</b>	-99	-99	-99	-99	VAN08010153

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
48605	667671.24	6024393.88	Muinok Mtn	-99	<b>1.85</b>	-99	-99	-99	-99	VAN08010153
48606	667670.84	6024393.10	Muinok Mtn	-99	<b>0.81</b>	-99	-99	-99	-99	VAN08010153
48607	667670.42	6024392.21	Muinok Mtn	-99	<b>1.31</b>	-99	-99	-99	-99	VAN08010153
48608	667673.04	6024397.31	Muinok Mtn	-99	<b>1.75</b>	-99	-99	-99	-99	VAN08010153
48609	667673.41	6024398.38	Muinok Mtn	-99	<b>0.72</b>	-99	-99	-99	-99	VAN08010153
48610	667673.86	6024399.38	Muinok Mtn	-99	<b>1.97</b>	-99	-99	-99	-99	VAN08010153
48611	667674.28	6024400.22	Muinok Mtn	-99	<b>0.19</b>	-99	-99	-99	-99	VAN08010153
48612	667674.85	6024401.00	Muinok Mtn	-99	<b>1.46</b>	-99	-99	-99	-99	VAN08010153
48613	667653.57	6024339.63	Muinok Mtn	-99	<b>5.67</b>	-99	-99	-99	-99	VAN08010153
48614	667654.16	6024340.37	Muinok Mtn	-99	<b>4.72</b>	-99	-99	-99	-99	VAN08010153
48615	667654.76	6024341.12	Muinok Mtn	-99	<b>21.02</b>	38.8	208.1	94.9	64	VAN08010153
48616	667655.31	6024342.07	Muinok Mtn	-99	<b>0.42</b>	-99	-99	-99	-99	VAN08010153
48617	667655.86	6024343.01	Muinok Mtn	-99	<b>0.6</b>	-99	-99	-99	-99	VAN08010153
48618	667656.40	6024343.96	Muinok Mtn	-99	<b>0.47</b>	-99	-99	-99	-99	VAN08010153
48619	667657.05	6024344.90	Muinok Mtn	-99	<b>2.99</b>	-99	-99	-99	-99	VAN08010153
48620	667657.50	6024345.90	Muinok Mtn	-99	<b>1.94</b>	-99	-99	-99	-99	VAN08010153
48621	667658.30	6024346.75	Muinok Mtn	-99	<b>0.65</b>	-99	-99	-99	-99	VAN08010153
48622	667658.45	6024347.79	Muinok Mtn	-99	<b>1.49</b>	-99	-99	-99	-99	VAN08010153
48623	667658.70	6024348.79	Muinok Mtn	-99	<b>0.65</b>	-99	-99	-99	-99	VAN08010153
48624	667659.39	6024349.48	Muinok Mtn	-99	<b>0.3</b>	-99	-99	-99	-99	VAN08010153
48651	655777	6034554	Lateegra	18.15	<b>11.93</b>	-99	-99	-99	-99	VAN08008821
48652	655776.12	6034535.9	Lateegra	2.88	<b>1.95</b>	-99	-99	-99	-99	VAN08008821
48653	655775.14	6034535.03	Lateegra	6.48	<b>4.92</b>	-99	-99	-99	-99	VAN08008821
48654	655773.99	6034534.02	Lateegra	0.36	<b>0.41</b>	-99	-99	-99	-99	VAN08008821
48655	655775	6034532	Lateegra	0.58	<b>0.41</b>	-99	-99	-99	-99	VAN08008821
48656	655772.29	6034539.41	Lateegra	22.06	<b>0.67</b>	-99	-99	-99	-99	VAN08008821
48657	667551	6024699	Muinok Mtn	10.36	<b>0.79</b>	-99	-99	-99	-99	VAN08008821
48701	667674.80	6024182.34	Muinok Mtn	28.13	<b>1.85</b>	-99	-99	-99	-99	VAN08008821
48702	667673.82	6024182.01	Muinok Mtn	35.37	<b>3.03</b>	-99	-99	-99	-99	VAN08008821
48703	667671.88	6024181.38	Muinok Mtn	34.65	<b>8.69</b>	-99	-99	-99	-99	VAN08008821
48704	667672.86	6024181.67	Muinok Mtn	40.47	<b>14.93</b>	-99	-99	-99	-99	VAN08008821
48705	667670.98	6024181.03	Muinok Mtn	29.62	<b>5.22</b>	-99	-99	-99	-99	VAN08008821
48851	655975	6034412	Lateegra	32.99	<b>24.47</b>	84.1	97.8	69.9	52.7	VAN08008821
48852	656720	6033622	Lateegra	54.11	<b>0.01</b>	-99	-99	-99	-99	VAN08008821
48853	667676.05	6024336.09	Muinok	23.39	<b>6.05</b>	-99	-99	-99	-99	VAN08008821

Sample Number	Easting	Northing	Area	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)	Analysis Certificate Number
			Mtn							
48854	667675.61	6024335.13	Muinok Mtn	26.23	<b>1.46</b>	-99	-99	-99	-99	VAN08008821
48855	667675.20	6024334.28	Muinok Mtn	34.64	<b>1.88</b>	-99	-99	-99	-99	VAN08008821
48856	667674.61	6024333.13	Muinok Mtn	38.47	<b>0.93</b>	-99	-99	-99	-99	VAN08008821
48857	667676.50	6024336.87	Muinok Mtn	19.55	<b>1.85</b>	-99	-99	-99	-99	VAN08008821
48858	667676.87	6024337.68	Muinok Mtn	17.63	<b>0.33</b>	-99	-99	-99	-99	VAN08008821
48859	667760	6024177	Muinok Mtn	7.66	<b>0.25</b>	-99	-99	-99	-99	VAN08008821
48860	667686.76	6024098.9	Muinok Mtn	36.76	<b>2.27</b>	-99	-99	-99	-99	VAN08008821
48861	667687.78	6024099.26	Muinok Mtn	42.26	<b>1.44</b>	-99	-99	-99	-99	VAN08008821
48862	667688.7	6024099.55	Muinok Mtn	22.65	<b>0.67</b>	-99	-99	-99	-99	VAN08008821
48863	667689.72	6024099.88	Muinok Mtn	33.42	<b>4.11</b>	-99	-99	-99	-99	VAN08008821
48864	667690.74	6024100.18	Muinok Mtn	13.33	<b>0.19</b>	-99	-99	-99	-99	VAN08008821
48865	667685.80	6024098.63	Muinok Mtn	24.57	<b>1.92</b>	-99	-99	-99	-99	VAN08008821
48866	667684.82	6024098.33	Muinok Mtn	31.37	<b>13.38</b>	-99	-99	-99	-99	VAN08008821
48867	667683.86	6024097.94	Muinok Mtn	26.16	<b>0.39</b>	-99	-99	-99	-99	VAN08008821
48868	667682.90	6024097.67	Muinok Mtn	11.3	<b>0.46</b>	-99	-99	-99	-99	VAN08008821
48869	667681.95	6024097.34	Muinok Mtn	26.26	<b>1.64</b>	-99	-99	-99	-99	VAN08008821
48870	667680.99	6024097.16	Muinok Mtn	24.88	<b>0.21</b>	-99	-99	-99	-99	VAN08008821
48871	667690.91	6023695.27	Muinok Mtn	40.48	<b>2.21</b>	-99	-99	-99	-99	VAN08008821
48872	667690.01	6023695.05	Muinok Mtn	33.12	<b>1.15</b>	-99	-99	-99	-99	VAN08008821
48873	667691.87	6023695.55	Muinok Mtn	13.98	<b>0.41</b>	-99	-99	-99	-99	VAN08008821
48874	667692.85	6023695.82	Muinok Mtn	6.3	<b>0.35</b>	-99	-99	-99	-99	VAN08008821
48901	673428	6018928	Muinok Mtn; Meosin	4.7	<b>0.4</b>	-99	-99	-99	-99	VAN08008821
48902	673459	6018950	Muinok Mtn; Meosin	9.25	<b>0.11</b>	-99	-99	-99	-99	VAN08008821
48903	673569	6019010	Muinok Mtn; Meosin	19.28	<b>14.61</b>	-99	-99	-99	-99	VAN08008821
48904	673580	6019016	Muinok Mtn; Meosin	29.9	<b>23.67</b>	38.7	179.4	85.7	77.6	VAN08008821
48951	667665	6024253	Muinok Mtn	39.34	<b>2.28</b>	-99	-99	-99	-99	VAN08008821
48952	667660.14	6024249.84	Muinok Mtn	24.73	<b>0.99</b>	-99	-99	-99	-99	VAN08008821
48953	667666.34	6024252.81	Muinok Mtn	39.15	<b>3.66</b>	-99	-99	-99	-99	VAN08008821
48954	667665.54	6024252.27	Muinok Mtn	36.64	<b>1.07</b>	-99	-99	-99	-99	VAN08008821
48955	667664.61	6024251.79	Muinok	36.55	<b>0.72</b>	-99	-99	-99	-99	VAN08008821





APPENDIX II

CERTIFICATES OF ASSAY

ACME ANALYTICAL LABORATORIES LTD.

2008



ACME ANALYTICAL LABORATORIES LTD.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

[www.acmelab.com](http://www.acmelab.com)

Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Submitted By:

George Norman

Receiving Lab:

Canada-Vancouver

Received:

July 11, 2008

Report Date:

August 17, 2008

Page:

1 of 2

## CERTIFICATE OF ANALYSIS

VAN08007233.1

### CLIENT JOB INFORMATION

Project: Phosphate BC  
Shipment ID:  
P.O. Number  
Number of Samples: 11

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT Store After 90 days Invoice for Storage

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:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	11	Crush, split and pulverize rock to 200 mesh		
4A	11	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### 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.



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Client:

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1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Phosphate BC

Report Date:

August 17, 2008

Page:

2 of 2

Part 1

## CERTIFICATE OF ANALYSIS

VAN08007233.1

Method Analyte	WGHT	4A	
		Wgt	P2O5
Unit	kg	%	
MDL	0.01	0.01	
GN-08-PH-01	Rock	0.81	0.17
GN-08-PH-02	Rock	1.20	1.34
GN-08-PH-04	Rock	1.33	0.09
GN-08-PH-05	Rock	1.35	0.25
GN-08-PH-06A	Rock	0.70	0.20
GN-08-PH-06B	Rock	1.00	0.53
GN-08-PH-07	Rock	1.42	6.54
GN-08-PH-08	Rock	1.62	6.18
GN-08-PH-10	Rock	1.34	1.93
GN-08-PH-11	Rock	1.90	0.40
GN-08-PH-12	Rock	1.84	24.52

## QUALITY CONTROL REPORT

VAN08007233.1

Method	WGHT	4A
Analyte	Wgt	P2O5
Unit	kg	%
MDL	0.01	0.01
GN-08-PH-01	Rock	0.81 0.17
GN-08-PH-12	Rock	1.84 24.52
Reference Materials		
STD SO-18	Standard	0.83
STD SO-18	Standard	0.81
STD SO-18 Expected		0.83
BLK	Blank	<0.01
Prep Wash		
G1	Prep Blank	<0.01 0.24
G1	Prep Blank	<0.01 0.22



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**Client:** Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Submitted By: George Norman  
 Receiving Lab: Canada-Vancouver  
 Received: July 11, 2008  
 Report Date: August 11, 2008  
 Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN08007462.1

CLIENT JOB INFORMATION

Project: Phosphate BC  
 Shipment ID:  
 P.O. Number  
 Number of Samples: 3

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
 STOR-RJT Store After 90 days Invoice for Storage

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:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	3	Crush, split and pulverize rock to 200 mesh		
4A	3	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
2A C/S	3	Analysis by Leco	0.1	Completed

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.



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Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Phosphate BC

Report Date: August 11, 2008

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN08007462.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
GN-08-CR-01	Rock	0.48	16.28	1.92	0.86	1.29	43.45	0.26	0.71	0.18	22.84	0.01	0.022	488	48	1228	222	364	<5	29	11.8
GN-08-PH-03	Rock	2.83	10.94	0.56	0.27	0.24	49.69	0.41	0.21	0.04	27.74	0.02	0.011	136	<20	719	68	724	<5	4	9.5
GN-08-PH-09	Rock	2.15	13.15	1.62	1.06	0.79	45.82	0.57	0.66	0.13	22.62	0.02	0.009	204	23	537	134	404	<5	4	13.2





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**Client:** Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

**Project:** Phosphate BC

**Report Date:** August 11, 2008

**Page:** 2 of 2 Part 2

## CERTIFICATE OF ANALYSIS

VAN08007462.1

Method	Analyte	4A2A LECO2A LECO		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
GN-08-CR-01	Rock	99.93	4.29	0.45
GN-08-PH-03	Rock	99.84	3.23	0.36
GN-08-PH-09	Rock	99.83	4.24	0.43

QUALITY CONTROL REPORT

VAN08007462.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
Pulp Duplicates																					
GN-08-CR-01	Rock	0.48	16.28	1.92	0.86	1.29	43.45	0.26	0.71	0.18	22.84	0.01	0.022	488	48	1228	222	364	<5	29	11.8
REP GN-08-CR-01	QC																				
Reference Materials																					
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard		58.06	14.10	7.82	3.32	6.26	3.69	2.13	0.69	0.82	0.39	0.550	491	43	397	295	32	20	25	1.9
STD SO-18	Standard		58.01	14.03	7.84	3.31	6.38	3.66	2.11	0.69	0.83	0.39	0.543	497	45	398	296	32	23	25	1.9
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected			58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25	
BLK	Blank																				
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
Prep Wash																					
G1	Prep Blank	<0.01	66.54	15.66	3.68	1.24	3.79	3.54	3.65	0.43	0.23	0.10	0.004	1072	<20	750	140	18	21	6	0.9



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Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Phosphate BC

Report Date:

August 11, 2008

Page:

1 of 1

Part 2

# QUALITY CONTROL REPORT

VAN08007462.1

Method	Analyte	4A2A LECO2A LECO		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
Pulp Duplicates				
GN-08-CR-01	Rock	99.93	4.29	0.45
REP GN-08-CR-01	QC		4.35	0.49
Reference Materials				
STD CSC	Standard		3.10	4.18
STD OREAS76A	Standard		0.19	17.59
STD SO-18	Standard	99.88		
STD SO-18	Standard	99.87		
STD CSC Expected			3.13	4.19
STD OREAS76A Expected			0.16	18
STD SO-18 Expected				
BLK	Blank		<0.02	<0.02
BLK	Blank	<0.01		
Prep Wash				
G1	Prep Blank	99.96	0.04	<0.02



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

July 25, 2008

Report Date:

August 12, 2008

Page:

1 of 4

## CERTIFICATE OF ANALYSIS

VAN08007664.1

### CLIENT JOB INFORMATION

Project: Tumbler Ridge Phosphate  
Shipment ID:  
P.O. Number  
Number of Samples: 64

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	63	Crush, split and pulverize rock to 200 mesh		
4A	63	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### 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.



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Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Tumbler Ridge Phosphate

Report Date: August 12, 2008

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

VAN08007664.1

Method	WGHT	4A
Analyte	Wgt	P2O5
Unit	kg	%
MDL	0.01	0.01
47152	Rock	0.83 <0.01
47153	Rock	0.77 0.40
47154	Rock	0.66 0.32
47155	Rock	0.62 0.18
47156	Rock	1.01 0.23
47157	Rock	0.68 0.11
47158	Rock	1.28 0.05
47159	Rock	0.93 0.09
47160	Rock	3.70 3.22
47161	Rock	1.66 7.60
47302	Rock	0.80 0.39
47303	Rock	1.00 16.23
47304	Rock	0.79 18.33
47305	Rock	0.92 18.93
47306	Rock	0.65 1.17
47307	Rock	0.50 0.55
48130	Rock	L.N.R. L.N.R.
48152	Rock	0.48 0.03
48153	Rock	0.62 0.39
48154	Rock	0.57 0.47
48155	Rock	0.51 0.19
48156	Rock	0.58 1.27
48157	Rock	0.68 0.91
48158	Rock	0.61 0.15
48159	Rock	0.46 0.16
48160	Rock	0.60 1.44
48161	Rock	0.64 2.76
48162	Rock	0.77 0.17
48163	Rock	0.88 0.12
48164	Rock	0.81 0.13



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**Client:** Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

**Project:** Tumbler Ridge Phosphate

**Report Date:** August 12, 2008

**Page:** 3 of 4 Part 1

## CERTIFICATE OF ANALYSIS

VAN08007664.1

Method	WGHT	4A
Analyte	Wgt	P2O5
Unit	kg	%
MDL	0.01	0.01
48165	Rock	0.79 0.10
48166	Rock	1.17 0.24
48167	Rock	1.10 0.20
48168	Rock	1.01 0.19
48169	Rock	0.69 0.29
48170	Rock	0.78 0.15
48171	Rock	0.91 0.22
48172	Rock	0.73 1.04
48173	Rock	0.78 1.99
48174	Rock	0.77 0.13
48202	Rock	0.61 0.01
48203	Rock	0.92 0.09
48204	Rock	0.84 0.18
48205	Rock	0.75 0.14
48206	Rock	1.32 0.28
48207	Rock	1.08 0.07
48302	Rock	0.89 0.01
48303	Rock	0.56 0.63
48304	Rock	0.76 4.69
48305	Rock	1.10 0.26
48306	Rock	0.92 0.07
48307	Rock	0.36 0.25
48308	Rock	0.63 0.11
48309	Rock	0.83 0.50
48310	Rock	1.65 7.74
48311	Rock	0.57 0.46
48312	Rock	1.14 0.58
48313	Rock	0.98 1.02
48314	Rock	1.22 0.65
48315	Rock	0.76 0.29



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

August 12, 2008

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

VAN08007664.1

	Method	WGHT	4A
	Analyte	Wgt	P2O5
	Unit	kg	%
	MDL	0.01	0.01
48353	Rock	0.36	0.24
48354	Rock	0.60	0.31
48355	Rock	0.84	0.12
47308	Rock	0.72	2.38



## QUALITY CONTROL REPORT

VAN08007664.1

Method	WGHT	4A
Analyte	Wgt	P2O5
Unit	kg	%
MDL	0.01	0.01
47304	Rock	0.79 18.33
48159	Rock	0.46 0.16
48170	Rock	0.78 0.15
48311	Rock	0.57 0.46
Pulp Duplicates		
48302	Rock	0.89 0.01
REP 48302	QC	<0.01
Reference Materials		
STD SO-18	Standard	0.82
STD SO-18	Standard	0.83
STD SO-18	Standard	0.82
STD SO-18	Standard	0.82
STD SO-18	Standard	0.84
STD SO-18	Standard	0.83
STD SO-18 Expected		0.83
BLK	Blank	<0.01
BLK	Blank	<0.01
BLK	Blank	<0.01
Prep Wash		
G1	Prep Blank	<0.01 0.22
G1	Prep Blank	<0.01 0.21



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

July 25, 2008

Report Date:

August 12, 2008

Page:

1 of 2

## CERTIFICATE OF ANALYSIS

VAN08007678.1

### CLIENT JOB INFORMATION

Project: Tumbler Ridge Phosphate  
Shipment ID:  
P.O. Number  
Number of Samples: 2

### 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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	2	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	2	Dry at 60C		
4A	2	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### 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.



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

August 12, 2008

Page:

2 of 2

Part 1

## CERTIFICATE OF ANALYSIS

VAN08007678.1

	Method	4A
	Analyte	P2O5
	Unit	%
	MDL	0.01
SS1	Soil	0.91
SS2	Soil	2.68

## QUALITY CONTROL REPORT

VAN08007678.1

	Method	4A
	Analyte	P2O5
	Unit	%
	MDL	0.01
Reference Materials		
STD SO-18	Standard	0.81
STD SO-18	Standard	0.82
STD SO-18 Expected		0.83
BLK	Blank	<0.01



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

July 30, 2008

Report Date:

September 17, 2008

Page:

1 of 3

## CERTIFICATE OF ANALYSIS

VAN08007763.1

### CLIENT JOB INFORMATION

Project: Tumbler Ridge Phosphate  
Shipment ID:  
P.O. Number  
Number of Samples: 38

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	37	Crush, split and pulverize rock to 200 mesh		
4A	37	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### ADDITIONAL COMMENTS



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 Vancouver BC V6E 3T5 Canada

Project: Tumbler Ridge Phosphate

Report Date: September 17, 2008

Page: 2 of 3 Part 1

# CERTIFICATE OF ANALYSIS

VAN08007763.1

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	Unit	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	1	-5.1
47309	Rock	0.62	13.71	2.00	0.99	1.66	43.05	0.36	0.73	0.15	17.41	0.02	0.013	183	26	660	107	181	8	4	19.6
47310	Rock	0.69	9.19	1.60	0.63	0.79	46.82	0.32	0.63	0.09	21.94	0.01	0.013	121	25	706	54	195	<5	5	17.7
47311	Rock	0.59	12.00	1.97	0.67	1.37	44.37	0.33	0.70	0.14	1.31	0.02	0.005	141	<20	635	72	23	10	2	36.8
47312	Rock	1.47	12.95	1.80	0.96	1.07	44.73	0.24	0.80	0.13	0.53	0.03	0.005	73	42	466	77	26	<5	2	36.6
47853	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
48176	Rock	1.00	9.61	0.68	0.47	5.92	42.41	0.07	0.29	0.03	0.06	0.02	<0.002	64	<20	1042	13	8	<5	<1	40.2
48177	Rock	0.80	10.10	0.06	0.09	1.03	49.64	0.02	0.03	<0.01	0.02	<0.01	<0.002	25	<20	537	<5	4	8	<1	38.9
48178	Rock	0.43	23.87	3.60	1.41	2.86	33.22	0.38	1.50	0.24	0.18	0.03	0.007	121	47	276	129	19	8	4	32.4
48179	Rock	0.89	5.47	0.91	0.32	0.80	50.41	0.11	0.39	0.05	0.08	0.02	0.002	36	<20	532	31	7	<5	<1	41.3
48208	Rock	0.51	44.13	5.99	2.17	4.31	17.70	0.69	2.42	0.40	0.19	0.03	0.011	200	83	142	193	20	12	5	21.6
48209	Rock	0.67	11.89	1.61	0.65	1.02	46.17	0.33	0.61	0.10	21.90	0.01	0.007	83	<20	651	60	105	<5	3	15.5
48210	Rock	0.87	12.24	1.42	0.68	1.25	46.00	0.36	0.49	0.10	10.99	0.02	0.003	99	<20	594	120	121	6	3	26.2
48211	Rock	0.93	26.76	4.79	3.80	2.19	31.98	0.63	1.78	0.28	0.23	0.07	0.004	150	<20	135	115	20	13	5	27.4
48212	Rock	0.86	61.65	10.04	3.75	2.28	6.69	1.02	3.83	0.64	0.21	0.03	0.008	294	40	97	240	27	19	10	9.7
48213	Rock	1.08	10.94	1.78	0.74	1.26	45.21	0.24	0.70	0.11	19.82	0.02	0.016	112	29	630	68	216	10	4	18.8
48214	Rock	1.14	1.10	0.21	0.05	0.63	54.47	0.03	0.07	0.01	<0.01	<0.01	<0.002	11	<20	408	<5	5	8	<1	43.3
48216	Rock	0.64	37.03	4.27	1.77	2.74	24.81	0.40	1.57	0.25	2.25	0.03	0.009	165	61	268	104	30	14	4	24.4
48217	Rock	0.99	8.45	1.35	0.60	0.94	47.35	0.30	0.49	0.08	20.16	0.02	0.010	131	39	723	56	177	6	3	20.0
48357	Rock	1.02	0.96	0.06	<0.04	3.17	51.97	0.02	0.02	<0.01	<0.01	<0.01	0.002	38	<20	652	<5	6	<5	<1	43.6
48358	Rock	0.47	13.46	1.89	0.98	1.29	43.41	0.36	0.66	0.14	8.59	0.02	0.006	88	20	518	88	68	7	2	29.0
48402	Rock	0.94	11.72	0.23	0.28	0.57	48.55	0.02	0.09	0.02	0.03	<0.01	<0.002	92	<20	932	21	5	8	<1	38.4
48403	Rock	0.63	12.74	1.71	0.70	1.58	44.66	0.35	0.62	0.12	18.23	0.02	0.006	90	<20	609	92	65	6	3	18.9
48404	Rock	0.40	14.35	2.57	1.25	1.14	42.27	0.35	0.94	0.16	8.88	0.02	0.008	109	29	528	79	84	10	3	27.7
48405	Rock	0.67	6.88	1.10	0.53	0.85	48.99	0.24	0.41	0.07	18.33	0.02	0.010	87	<20	622	55	168	7	3	22.3
48406	Rock	0.74	13.22	2.63	1.25	0.87	43.80	0.34	0.99	0.14	20.71	0.02	0.015	92	75	640	58	182	9	4	15.7
48407	Rock	0.75	7.17	1.13	0.70	0.91	48.07	0.24	0.43	0.07	17.10	0.02	0.015	103	<20	692	47	211	10	3	23.9
48452	Rock	0.93	15.64	2.63	1.23	7.50	33.78	0.32	0.90	0.18	0.35	0.07	0.003	274	<20	264	114	17	9	3	37.2
48453	Rock	1.00	14.79	0.16	0.22	2.71	43.83	0.02	0.05	<0.01	0.08	<0.01	<0.002	22	<20	494	<5	9	<5	<1	38.0
48454	Rock	0.38	25.29	3.86	1.54	2.34	32.17	0.46	1.61	0.26	0.17	0.03	0.006	115	71	293	129	21	<5	4	32.0
48455	Rock	0.51	14.53	2.60	1.61	2.93	38.95	0.28	1.10	0.16	0.15	0.09	0.003	117	46	335	77	13	6	2	37.5



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Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Tumbler Ridge Phosphate

Report Date: September 17, 2008

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN08007763.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
47309	Rock	99.85	6.57	0.35
47310	Rock	99.83	6.11	0.29
47311	Rock	99.80	11.30	0.11
47312	Rock	99.87	11.00	0.08
47853	Rock	L.N.R.	L.N.R.	L.N.R.
48176	Rock	99.87	11.63	0.04
48177	Rock	99.97	11.51	<0.02
48178	Rock	99.78	9.65	0.18
48179	Rock	99.95	12.05	0.05
48208	Rock	99.67	8.29	1.10
48209	Rock	99.89	5.23	0.33
48210	Rock	99.85	7.93	0.27
48211	Rock	99.97	8.31	1.72
48212	Rock	99.91	3.39	1.38
48213	Rock	99.76	6.56	0.25
48214	Rock	99.95	13.18	0.07
48216	Rock	99.64	8.13	0.19
48217	Rock	99.87	6.63	0.30
48357	Rock	99.95	12.83	0.04
48358	Rock	99.85	8.68	0.20
48402	Rock	99.98	11.34	0.03
48403	Rock	99.78	6.16	0.25
48404	Rock	99.75	8.53	0.29
48405	Rock	99.85	7.50	0.26
48406	Rock	99.85	5.83	0.35
48407	Rock	99.88	7.37	0.28
48452	Rock	99.83	10.58	0.11
48453	Rock	99.91	11.24	0.06
48454	Rock	99.84	10.30	0.24
48455	Rock	99.95	11.58	0.13

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1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

**Project:** Tumbler Ridge Phosphate

**Report Date:** September 17, 2008

**Page:** 3 of 3 **Part** 1

**CERTIFICATE OF ANALYSIS**

**VAN08007763.1**

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48456	Rock	0.41	37.62	4.60	2.19	2.62	24.68	0.81	1.75	0.33	0.14	0.03	0.007	161	56	213	252	22	10	4	25.0
48457	Rock	0.41	10.23	1.63	0.70	0.98	45.64	0.27	0.61	0.11	3.88	0.02	0.006	126	35	664	51	33	5	3	35.7
48458	Rock	0.28	26.33	3.54	1.37	4.74	31.16	0.75	1.26	0.27	0.15	0.10	0.005	222	<20	307	217	14	<5	3	30.1
48459	Rock	0.56	22.82	2.89	1.07	2.66	35.55	0.60	1.07	0.21	0.09	0.03	0.004	125	21	327	165	12	7	3	32.8
48460	Rock	0.33	26.71	4.24	2.53	2.29	32.16	0.57	1.53	0.27	0.11	0.09	0.004	138	<20	143	131	18	11	5	29.4
48461	Rock	0.78	19.75	3.14	1.12	1.39	37.67	0.42	1.10	0.21	5.78	0.02	0.012	128	52	431	106	60	<5	3	29.1
48462	Rock	0.52	14.58	2.51	1.69	5.99	36.31	0.34	0.97	0.17	0.16	0.08	0.003	140	37	277	94	13	<5	2	37.0
48463	Rock	0.74	14.67	2.66	1.71	3.89	37.53	0.32	1.12	0.17	0.15	0.08	0.004	133	82	338	87	14	<5	3	37.5



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

September 17, 2008

Page:

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Part 2

## CERTIFICATE OF ANALYSIS

VAN08007763.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48456	Rock	99.87	7.52	0.44
48457	Rock	99.88	10.68	0.13
48458	Rock	99.91	8.98	0.28
48459	Rock	99.92	9.40	0.31
48460	Rock	99.93	8.76	0.58
48461	Rock	99.79	9.32	0.24
48462	Rock	99.90	11.19	0.43
48463	Rock	99.89	11.98	0.63

QUALITY CONTROL REPORT

VAN08007763.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48460	Rock	0.33	26.71	4.24	2.53	2.29	32.16	0.57	1.53	0.27	0.11	0.09	0.004	138	<20	143	131	18	11	5	29.4
Pulp Duplicates																					
48213	Rock	1.08	10.94	1.78	0.74	1.26	45.21	0.24	0.70	0.11	19.82	0.02	0.016	112	29	630	68	216	10	4	18.8
REP 48213	QC		10.98	1.74	0.75	1.24	45.21	0.24	0.69	0.11	19.81	0.02	0.015	114	20	630	67	216	9	4	18.8
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	58.08	14.05	7.78	3.32	6.39	3.72	2.00	0.69	0.84	0.39	0.539	488	33	398	291	31	23	25	1.9	
STD SO-18	Standard	57.94	14.09	7.79	3.32	6.39	3.71	2.13	0.69	0.83	0.39	0.548	494	28	403	298	32	26	25	1.9	
STD SO-18	Standard	57.92	14.20	7.72	3.32	6.37	3.75	2.09	0.69	0.84	0.38	0.541	484	62	402	301	32	30	25	1.9	
STD SO-18	Standard	58.10	14.11	7.67	3.32	6.32	3.79	2.11	0.69	0.83	0.39	0.549	483	49	401	300	31	17	25	1.9	
STD SO-18	Standard	58.10	14.12	7.56	3.35	6.38	3.70	2.16	0.69	0.82	0.39	0.547	485	50	400	293	31	32	25	1.9	
STD SO-18	Standard	58.14	14.12	7.57	3.34	6.39	3.68	2.14	0.69	0.83	0.39	0.550	481	51	403	295	32	26	25	1.9	
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
Prep Wash																					
G1	Prep Blank	<0.01	66.62	15.76	3.75	1.28	3.87	3.50	3.72	0.42	0.22	0.10	0.002	1593	<20	772	155	17	24	6	0.4
G1	Prep Blank	<0.01	66.26	15.73	3.78	1.25	3.77	3.49	3.69	0.42	0.21	0.09	0.003	1134	<20	777	139	18	24	6	1.0



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**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

September 17, 2008

Page:

1 of 1

Part 2

## QUALITY CONTROL REPORT

VAN08007763.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48460	Rock	99.93	8.76	0.58
Pulp Duplicates				
48213	Rock	99.76	6.56	0.25
REP 48213	QC	99.72		
Reference Materials				
STD CSC	Standard		3.25	4.19
STD CSC	Standard		3.10	4.41
STD OREAS76A	Standard		0.17	17.96
STD OREAS76A	Standard		0.18	18.03
STD SO-18	Standard	99.86		
STD SO-18	Standard	99.89		
STD SO-18	Standard	99.89		
STD SO-18	Standard	99.93		
STD SO-18	Standard	99.87		
STD SO-18	Standard	99.90		
STD CSC Expected			3.13	4.19
STD OREAS76A Expected			0.16	18
STD SO-18 Expected				
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank		<0.02	<0.02
BLK	Blank		<0.02	<0.02
BLK	Blank	<0.01		
Prep Wash				
G1	Prep Blank	99.93	0.06	0.07
G1	Prep Blank	99.95	0.05	<0.02



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**Client:** Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Submitted By: Wayne Roberts  
 Receiving Lab: Canada-Vancouver  
 Received: August 05, 2008  
 Report Date: September 18, 2008  
 Page: 1 of 6

**CERTIFICATE OF ANALYSIS**

**VAN08007984.1**

**CLIENT JOB INFORMATION**

Project: Fly Camp  
 Shipment ID:  
 P.O. Number  
 Number of Samples: 149

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	148	Crush, split and pulverize rock to 200 mesh		
4A	148	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

**SAMPLE DISPOSAL**

STOR-PLP Store After 90 days Invoice for Storage  
 DISP-RJT Dispose of Reject After 90 days

**ADDITIONAL COMMENTS**

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: George Norman  
 John Brock  
 Michael Renning



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.



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1100 - 1199 West Hastings Street  
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Project: Fly Camp

Report Date: September 18, 2008

Page: 2 of 6

Part 1

# CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
47313	Rock	0.81	30.83	3.79	0.82	3.96	30.06	0.78	1.49	0.28	0.11	0.03	0.005	135	28	262	243	18	<5	3	27.6
47314	Rock	0.94	12.22	1.95	0.67	3.48	42.43	0.23	0.75	0.12	0.13	0.03	0.003	117	40	411	69	10	<5	2	37.7
47315	Rock	0.51	15.51	2.87	1.57	1.72	40.29	0.35	1.13	0.18	0.14	0.05	0.003	112	52	333	86	14	<5	3	36.0
47316	Rock	0.65	11.80	1.46	0.25	1.92	45.62	0.35	0.50	0.10	0.06	0.02	0.002	52	<20	474	84	8	<5	1	37.8
47317	Rock	0.62	30.43	3.48	0.77	3.75	30.52	0.63	1.34	0.25	0.09	0.03	0.004	125	27	319	192	15	<5	3	28.5
47318	Rock	0.84	5.01	0.63	0.38	7.56	43.36	0.02	0.18	0.03	<0.01	0.02	<0.002	21	<20	335	9	<3	<5	<1	42.6
47319	Rock	1.05	0.50	0.07	<0.04	0.64	54.66	0.01	0.02	<0.01	<0.01	<0.01	<0.002	14	<20	557	<5	<3	<5	<1	44.0
47320	Rock	0.64	49.90	0.34	0.53	0.44	26.97	0.04	0.11	<0.01	0.05	<0.01	<0.002	<5	<20	189	<5	5	13	<1	21.5
47321	Rock	0.65	11.27	2.45	0.77	3.41	42.33	0.04	0.79	0.10	0.02	<0.01	0.003	39	<20	497	18	7	13	2	38.6
47322	Rock	0.79	8.17	1.17	0.39	1.89	47.71	0.05	0.37	0.05	<0.01	<0.01	0.002	24	<20	488	8	6	6	<1	40.1
47323	Rock	0.68	44.22	5.91	1.80	4.25	18.51	0.72	2.74	0.43	0.25	0.03	0.007	186	61	148	350	26	15	5	20.9
47324	Rock	0.78	4.19	0.72	0.28	0.92	51.81	0.11	0.30	0.05	0.10	0.02	<0.002	31	<20	390	25	6	11	<1	41.4
47326	Rock	0.52	18.27	2.61	0.95	2.24	38.68	0.40	1.09	0.18	0.19	0.03	0.004	106	69	326	108	19	19	3	35.1
47327	Rock	0.94	81.34	1.01	1.38	0.18	8.13	0.06	0.32	0.07	5.55	<0.01	0.026	2226	<20	103	42	69	7	2	1.6
47328	Rock	1.11	12.51	2.05	0.72	1.54	44.20	0.03	1.15	0.08	0.03	0.01	<0.002	39	<20	405	13	5	9	2	37.6
47329	Rock	0.91	21.08	2.04	0.50	4.13	36.29	0.49	0.98	0.15	7.93	0.03	0.004	435	50	526	152	125	<5	3	26.1
47330	Rock	0.78	44.20	8.39	2.62	1.91	20.09	0.18	3.88	0.32	0.21	0.08	0.006	270	<20	169	207	12	17	7	18.0
47331	Rock	0.80	7.50	0.97	0.34	1.86	48.14	0.19	0.43	0.07	2.19	0.02	<0.002	200	<20	383	58	22	8	1	38.1
47332	Rock	0.82	24.36	2.66	0.90	4.73	33.28	0.51	1.11	0.21	0.44	0.04	0.003	113	<20	342	223	21	11	2	31.6
47333	Rock	0.90	16.29	1.49	0.60	2.05	42.13	0.30	0.71	0.10	6.14	0.03	0.005	77	52	550	110	121	8	3	29.9
47334	Rock	0.56	10.35	1.03	0.39	1.99	45.15	0.41	0.45	0.08	16.96	0.02	0.004	69	54	634	74	199	<5	3	22.9
47335	Rock	0.48	9.64	0.91	0.43	1.04	46.76	0.41	0.44	0.06	15.97	0.02	0.004	179	24	681	63	280	8	3	24.1
48102	Rock	0.70	32.68	5.32	2.09	3.04	25.42	0.59	1.95	0.35	0.29	0.03	0.011	221	154	288	178	30	16	6	27.6
48103	Rock	0.88	35.40	6.20	1.75	2.48	23.21	0.64	2.38	0.40	0.42	0.03	0.021	288	141	249	187	37	14	7	26.2
48104	Rock	1.12	36.62	6.64	2.17	2.49	21.51	0.70	2.40	0.45	0.21	0.02	0.011	209	196	264	200	34	<5	7	26.0
48105	Rock	0.80	20.55	3.63	1.30	2.34	35.08	0.42	1.30	0.23	0.28	0.02	0.008	130	134	480	114	26	8	4	34.2
48106	Rock	1.08	18.12	1.16	0.53	1.01	40.38	0.23	0.42	0.07	4.36	0.02	0.004	2296	26	633	44	35	<5	3	33.1
48107	Rock	1.17	32.40	5.25	1.60	2.56	26.38	0.66	2.01	0.35	0.44	0.02	0.017	328	118	309	175	31	11	6	27.7
48108	Rock	0.70	29.67	4.84	1.57	2.43	26.18	0.48	1.88	0.31	0.42	0.02	0.017	157	211	260	149	29	9	5	31.3
48109	Rock	1.02	14.24	0.34	0.85	0.35	47.25	0.01	0.12	0.02	<0.01	<0.01	0.002	11	28	287	<5	6	6	<1	36.7

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.



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1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Fly Camp

Report Date: September 18, 2008

Page: 2 of 6

Part 2

CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
47313	Rock	99.88	8.36	0.35
47314	Rock	99.83	11.19	0.12
47315	Rock	99.89	11.00	0.09
47316	Rock	99.95	11.14	0.03
47317	Rock	99.89	7.78	0.16
47318	Rock	99.82	12.15	0.03
47319	Rock	99.95	12.75	0.02
47320	Rock	99.94	6.34	0.07
47321	Rock	99.91	10.88	0.06
47322	Rock	99.95	11.79	0.06
47323	Rock	99.84	6.80	0.97
47324	Rock	99.94	11.87	0.02
47326	Rock	99.79	10.94	0.11
47327	Rock	99.93	0.33	0.14
47328	Rock	99.92	10.87	0.07
47329	Rock	99.90	8.26	0.31
47330	Rock	99.92	4.61	0.10
47331	Rock	99.93	11.26	0.11
47332	Rock	99.88	9.13	0.28
47333	Rock	99.88	9.21	0.23
47334	Rock	99.84	7.77	0.36
47335	Rock	99.90	8.23	0.43
48102	Rock	99.42	11.00	1.02
48103	Rock	99.24	11.72	1.37
48104	Rock	99.32	11.68	1.17
48105	Rock	99.51	11.96	0.51
48106	Rock	99.79	9.73	0.45
48107	Rock	99.51	11.03	1.23
48108	Rock	99.18	14.59	1.12
48109	Rock	99.95	10.76	0.03



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Project:

Fly Camp

Report Date:

September 18, 2008

Page:

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Part 1

CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	1	-5.1
48110	Rock	1.43	9.49	1.14	0.51	3.49	45.17	0.14	0.47	0.07	0.20	0.03	<0.002	81	28	420	38	10	9	1	39.1
48111	Rock	0.48	10.41	1.42	0.83	0.69	46.14	0.44	0.48	0.09	12.06	0.02	0.005	120	39	952	74	131	<5	6	27.1
48112	Rock	0.38	16.92	2.65	0.93	1.99	39.96	0.42	0.96	0.19	0.17	0.03	0.004	123	52	697	101	16	8	3	35.4
48113	Rock	0.44	19.31	3.25	1.24	1.23	40.07	0.56	0.95	0.21	0.13	0.06	<0.002	285	<20	250	93	12	13	3	32.8
48114	Rock	0.47	22.64	3.75	1.19	2.74	33.35	0.37	1.68	0.24	1.76	0.04	0.012	859	80	322	92	53	<5	4	31.9
48115	Rock	0.71	13.75	1.24	0.96	1.01	45.23	0.48	0.47	0.09	15.94	0.02	0.003	110	24	1174	107	112	6	3	20.5
48116	Rock	0.83	4.00	0.64	0.21	0.57	52.47	0.07	0.28	0.04	0.05	0.02	<0.002	19	<20	484	23	7	7	<1	41.5
48117	Rock	0.60	4.80	0.63	0.29	0.61	51.83	0.11	0.29	0.04	0.20	0.02	<0.002	28	<20	452	28	6	<5	<1	41.0
48118	Rock	0.59	11.62	1.27	0.42	2.15	45.27	0.30	0.57	0.09	10.08	0.05	0.003	60	20	742	76	106	<5	3	28.0
48119	Rock	0.83	0.19	0.03	<0.04	0.64	56.88	0.03	0.02	<0.01	<0.01	<0.01	<0.002	<5	<20	223	<5	7	<5	<1	42.1
48120	Rock	0.40	15.83	2.12	0.68	1.30	42.96	0.69	0.93	0.17	23.18	0.01	0.010	233	43	874	157	625	<5	5	11.6
48121	Rock	1.00	25.89	4.24	1.29	1.95	33.62	0.61	1.64	0.31	0.14	0.02	0.006	142	52	312	177	20	9	4	29.9
48122	Rock	0.84	22.21	3.30	1.34	1.86	35.94	0.51	1.38	0.25	0.10	0.02	0.010	130	146	361	152	26	13	4	32.5
48123	Rock	0.85	52.84	10.48	3.57	3.10	9.66	0.88	4.35	0.63	0.87	0.04	0.011	531	66	113	254	48	16	11	13.2
48124	Rock	0.42	54.68	10.07	3.56	2.87	8.86	0.94	4.33	0.64	0.22	0.04	0.010	284	52	87	277	30	15	10	13.5
48126	Rock	0.62	24.44	2.72	1.40	1.44	37.39	0.61	1.25	0.21	17.19	0.02	0.008	135	<20	485	219	243	14	5	13.2
48127	Rock	0.50	45.31	6.04	1.72	3.15	19.54	0.84	2.55	0.46	4.04	0.03	0.010	216	55	215	396	110	8	7	16.1
48128	Rock	0.77	24.49	3.38	1.32	4.36	31.90	0.49	1.47	0.23	8.45	0.02	0.009	135	43	315	186	103	<5	4	23.6
48129	Rock	1.36	15.47	2.02	0.67	4.00	39.65	0.35	0.89	0.14	5.15	0.02	0.004	105	<20	330	101	60	5	3	31.4
48130	Rock	0.60	63.13	11.41	3.78	1.73	5.05	1.05	4.83	0.70	0.19	0.06	0.010	372	45	83	299	29	18	11	7.8
48131	Rock	0.71	27.39	2.81	0.87	3.88	31.86	0.39	1.29	0.21	0.26	0.04	0.005	101	38	325	206	15	9	3	30.8
48132	Rock	0.80	35.10	5.06	1.77	2.24	25.39	0.64	2.20	0.35	0.52	0.03	0.009	159	64	197	216	44	9	5	26.4
48133	Rock	0.73	4.20	0.72	0.31	1.73	50.05	0.11	0.30	0.05	0.62	0.03	0.002	44	29	256	32	10	<5	<1	41.7
48134	Rock	1.06	15.25	2.06	0.81	1.69	41.55	0.38	0.91	0.15	14.36	0.02	0.006	93	36	552	132	129	<5	3	22.6
48135	Rock		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
48180	Rock	0.69	12.93	1.78	0.75	0.85	45.16	0.25	0.69	0.12	0.19	0.03	0.004	55	21	718	92	12	<5	2	37.2
48181	Rock	0.92	7.97	1.10	0.43	1.22	48.46	0.17	0.40	0.07	0.11	0.02	0.003	46	<20	484	49	7	<5	<1	39.9
48182	Rock	0.93	9.00	1.42	0.63	1.51	46.72	0.17	0.57	0.09	0.13	0.02	0.004	74	60	775	45	11	<5	1	39.5
48183	Rock	0.78	19.30	2.68	1.57	2.43	37.68	0.39	1.14	0.19	0.50	0.03	0.006	126	65	592	116	21	7	4	33.8
48184	Rock	1.08	6.02	1.11	0.47	1.00	49.66	0.14	0.43	0.07	0.04	0.02	0.003	56	<20	629	38	7	<5	<1	40.9





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1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Fly Camp

Report Date: September 18, 2008

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## CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48110	Rock	99.84	11.37	0.10
48111	Rock	99.81	10.15	0.68
48112	Rock	99.76	11.24	0.17
48113	Rock	99.91	9.84	0.41
48114	Rock	99.83	11.17	0.27
48115	Rock	99.88	6.65	0.59
48116	Rock	99.92	12.28	0.03
48117	Rock	99.91	12.22	0.03
48118	Rock	99.89	8.69	0.22
48119	Rock	99.96	12.65	0.03
48120	Rock	99.73	4.10	0.71
48121	Rock	99.73	9.42	0.82
48122	Rock	99.56	11.39	1.03
48123	Rock	99.74	4.75	1.32
48124	Rock	99.84	5.07	1.51
48126	Rock	100.03	4.33	1.08
48127	Rock	99.92	5.21	0.97
48128	Rock	99.87	8.01	0.97
48129	Rock	99.87	9.55	0.39
48130	Rock	99.89	2.80	0.85
48131	Rock	99.89	9.25	0.34
48132	Rock	99.85	8.00	0.15
48133	Rock	99.89	12.39	0.09
48134	Rock	99.89	7.47	0.47
48135	Rock	L.N.R.	L.N.R.	L.N.R.
48180	Rock	100.04	10.59	0.03
48181	Rock	99.96	11.60	0.10
48182	Rock	99.83	12.00	0.22
48183	Rock	99.83	10.28	0.14
48184	Rock	99.94	11.91	0.05



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Project: Fly Camp

Report Date: September 18, 2008

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# CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48185	Rock	1.09	2.87	0.62	0.33	0.74	52.81	0.03	0.20	0.02	<0.01	<0.01	<0.002	16	<20	437	5	5	<5	<1	42.3
48186	Rock	1.07	1.35	0.23	0.14	0.96	53.65	0.01	0.07	0.02	<0.01	<0.01	0.004	8	<20	486	6	10	<5	<1	43.5
48187	Rock	1.01	45.96	0.02	0.17	0.16	29.92	0.02	0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	154	<5	<3	<5	<1	23.8
48188	Rock	0.70	31.01	4.14	1.07	2.75	30.17	0.79	1.52	0.30	0.13	0.03	0.004	129	<20	240	258	20	5	4	28.0
48189	Rock	0.84	1.77	0.24	0.12	0.63	53.97	0.03	0.10	0.01	<0.01	<0.01	0.002	11	<20	508	<5	<3	<5	<1	43.0
48190	Rock	0.82	1.22	0.34	0.09	0.66	54.19	0.02	0.11	0.01	<0.01	<0.01	<0.002	13	<20	421	<5	<3	<5	<1	43.3
48191	Rock	0.92	25.00	5.05	2.31	2.29	30.01	0.53	1.78	0.29	13.32	0.02	0.024	258	106	521	128	123	<5	7	19.1
48192	Rock	0.78	0.73	0.10	<0.04	0.47	55.68	0.02	0.05	<0.01	<0.01	<0.01	<0.002	10	<20	279	5	<3	<5	<1	42.9
48193	Rock	0.51	48.96	4.92	0.99	4.21	17.15	0.77	2.46	0.34	0.13	0.03	0.006	194	<20	111	378	16	<5	3	19.9
48194	Rock	0.70	9.45	1.47	0.65	1.61	45.94	0.21	0.59	0.09	0.20	0.02	0.004	64	34	468	59	15	<5	2	39.5
48195	Rock	0.70	35.96	4.49	1.08	2.24	26.59	0.69	1.93	0.34	2.25	0.03	0.007	159	34	300	270	65	<5	5	24.2
48196	Rock	0.72	13.36	1.54	0.57	1.35	44.45	0.27	0.69	0.10	4.09	0.03	0.006	69	37	488	71	59	<5	3	33.3
48197	Rock	0.82	8.62	1.02	0.28	1.59	47.29	0.18	0.49	0.06	1.52	0.02	0.002	58	<20	376	61	22	<5	1	38.8
48198	Rock	0.51	64.52	7.90	1.96	1.52	8.65	1.18	3.49	0.61	1.33	0.10	0.008	353	<20	121	515	50	9	7	8.6
48199	Rock	0.53	9.68	1.31	0.45	1.66	46.77	0.20	0.56	0.09	1.32	0.02	0.004	49	40	441	71	27	6	2	37.8
48200	Rock	0.71	19.61	2.15	0.62	3.26	37.74	0.49	0.95	0.16	7.83	0.03	0.005	111	<20	550	172	79	<5	3	26.9
48215	Rock	1.12	6.45	0.93	0.46	1.19	49.52	0.14	0.36	0.06	0.07	0.04	<0.002	84	<20	317	35	10	7	1	40.7
48216	Rock	1.04	21.75	1.32	0.43	0.92	40.52	0.20	0.50	0.08	1.22	0.02	0.005	467	<20	690	42	24	<5	2	32.7
48217	Rock	0.78	26.63	3.91	1.86	1.89	33.18	0.63	1.41	0.27	0.29	0.05	0.011	183	79	320	154	22	<5	4	29.6
48218	Rock	1.15	27.00	4.37	1.81	2.67	30.59	0.53	1.60	0.28	0.70	0.03	0.010	1206	127	461	144	42	6	5	29.9
48219	Rock	0.90	31.75	5.07	1.91	2.84	24.50	0.56	1.90	0.33	0.35	0.02	0.017	205	210	320	202	43	<5	6	29.9
48220	Rock	1.17	59.03	0.59	0.82	0.12	21.89	0.07	0.16	0.03	8.57	0.01	0.017	58	30	202	35	109	<5	2	8.6
48221	Rock	0.60	18.42	0.33	1.70	0.63	43.86	0.04	0.09	0.01	0.06	0.02	0.003	11	<20	352	<5	6	<5	<1	34.8
48222	Rock	0.52	15.99	2.63	1.19	4.38	38.90	0.05	0.91	0.11	0.04	0.01	0.003	42	<20	322	23	10	<5	3	35.7
48223	Rock	0.88	65.58	0.36	0.35	0.65	18.14	0.05	0.10	0.01	0.02	<0.01	0.002	24	<20	64	<5	<3	<5	<1	14.8
48224	Rock	0.79	30.85	5.57	2.82	3.68	25.81	0.58	2.22	0.35	0.25	0.04	0.006	223	65	221	174	27	<5	7	27.6
48226	Rock	0.76	16.59	2.22	0.93	2.83	39.77	0.39	0.87	0.16	0.09	0.06	0.004	209	<20	394	97	13	<5	3	36.0
48227	Rock	1.03	75.67	1.23	16.12	0.14	0.18	0.07	0.41	0.08	0.73	0.05	0.013	473	<20	97	43	8	<5	2	4.9
48228	Rock	0.86	2.45	0.47	0.19	0.68	52.40	0.03	0.24	0.02	<0.01	<0.01	0.002	14	<20	575	6	<3	<5	<1	43.4
48229	Rock	0.81	2.71	0.15	0.18	0.76	53.62	0.03	0.06	<0.01	<0.01	<0.01	<0.002	5	<20	448	<5	<3	<5	<1	42.4



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CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48185	Rock	99.99	12.27	0.05
48186	Rock	99.96	12.93	0.05
48187	Rock	100.04	6.84	<0.02
48188	Rock	99.95	7.78	0.07
48189	Rock	99.98	12.64	0.03
48190	Rock	100.00	12.70	0.03
48191	Rock	99.85	9.02	1.50
48192	Rock	99.97	12.92	0.04
48193	Rock	99.93	5.35	0.03
48194	Rock	99.78	11.67	0.13
48195	Rock	99.87	7.16	0.15
48196	Rock	99.86	10.63	0.36
48197	Rock	99.94	11.15	0.09
48198	Rock	99.95	2.42	0.16
48199	Rock	99.94	11.11	0.12
48200	Rock	99.87	8.19	0.36
48215	Rock	99.92	6.61	0.61
48216	Rock	99.82	12.31	0.03
48217	Rock	99.85	12.07	0.02
48218	Rock	99.68	10.61	1.00
48219	Rock	99.31	14.22	1.58
48220	Rock	99.95	2.45	0.05
48221	Rock	100.00	10.31	0.18
48222	Rock	99.91	10.45	0.24
48223	Rock	100.03	4.23	0.04
48224	Rock	99.83	9.63	0.69
48226	Rock	99.99	11.32	0.37
48227	Rock	99.69	0.14	0.37
48228	Rock	99.98	13.74	0.17
48229	Rock	100.00	12.43	0.07



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# CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48230	Rock	1.15	6.82	1.88	0.76	3.32	45.62	0.04	0.70	0.08	<0.01	<0.01	0.003	41	<20	358	15	6	<5	2	40.6
48231	Rock	0.90	5.95	0.65	0.27	0.32	50.40	0.26	0.27	0.04	21.90	0.02	0.002	32	<20	766	49	103	<5	2	19.8
48232	Rock	1.22	43.60	3.68	0.99	1.31	25.64	0.72	1.62	0.27	14.05	0.03	0.009	175	24	322	352	225	<5	4	7.9
48233	Rock	1.12	14.08	1.05	0.41	0.32	45.13	0.23	0.48	0.07	17.98	0.02	0.009	63	<20	666	107	325	<5	4	20.0
48234	Rock	0.97	8.01	0.77	0.29	0.24	49.40	0.23	0.34	0.06	19.47	0.02	0.006	48	<20	661	82	366	<5	3	20.9
48319	Rock	0.82	13.20	2.10	0.69	7.56	35.87	0.33	0.82	0.14	9.40	0.06	0.003	92	<20	477	75	41	<5	3	29.5
48320	Rock	0.59	16.49	2.22	0.68	1.34	41.55	0.33	0.87	0.15	1.61	0.05	0.005	106	24	477	95	51	<5	4	34.5
48321	Rock	0.95	41.48	2.55	0.90	4.49	23.41	0.37	1.26	0.21	0.50	0.02	0.005	83	<20	130	234	18	6	2	24.7
48322	Rock	0.99	29.47	2.80	0.61	7.64	26.40	0.43	1.58	0.23	0.53	0.02	0.004	109	<20	143	310	17	<5	3	30.1
48323	Rock	0.70	14.71	1.66	0.52	3.62	41.24	0.38	0.72	0.15	3.51	0.03	0.003	119	<20	322	135	29	<5	2	33.3
48324	Rock	0.98	18.54	2.10	0.60	3.22	38.98	0.46	0.92	0.18	5.00	0.03	0.005	97	<20	366	156	68	<5	3	29.9
48326	Rock	1.16	15.05	1.49	0.54	1.43	41.57	0.37	0.70	0.10	10.53	0.02	0.006	73	23	642	87	190	<5	5	28.0
48327	Rock	0.82	11.53	1.35	0.53	1.30	43.52	0.35	0.61	0.09	11.22	0.02	0.005	81	28	658	65	185	<5	5	29.2
48328	Rock	0.61	1.00	0.29	0.15	6.74	46.64	0.02	0.09	0.02	0.06	<0.01	<0.002	110	<20	204	7	<3	<5	<1	44.8
48329	Rock	0.77	6.89	0.73	0.22	17.19	30.74	0.11	0.20	0.04	0.39	<0.01	0.002	13	<20	109	24	6	<5	<1	43.2
48330	Rock	0.77	24.22	1.51	0.49	3.28	36.27	0.20	0.83	0.11	0.43	0.01	0.003	64	<20	252	145	11	<5	1	32.5
48331	Rock	0.37	54.88	9.52	2.92	2.39	10.12	0.99	4.31	0.66	0.28	0.03	0.010	271	39	100	287	32	11	9	13.7
48332	Rock	0.66	4.77	0.14	0.16	2.49	50.51	0.02	0.06	<0.01	0.02	<0.01	0.002	<5	<20	180	<5	4	<5	<1	41.7
48359	Rock	0.80	21.79	4.03	1.55	1.58	37.21	0.55	1.22	0.26	0.07	0.05	0.003	197	<20	244	101	15	<5	4	31.6
48360	Rock	0.95	54.41	10.74	3.38	3.23	9.34	1.04	3.16	0.69	0.33	0.04	0.011	349	52	136	286	33	8	11	13.4
48361	Rock	1.04	8.16	0.74	0.48	0.94	49.25	0.08	0.27	0.04	1.23	0.04	<0.002	31	<20	433	24	10	<5	1	38.7
48362	Rock	0.82	12.67	2.19	1.06	3.95	40.45	0.27	0.86	0.14	0.33	0.11	0.005	101	<20	295	69	15	<5	2	37.8
48363	Rock	1.03	20.41	3.17	1.20	2.80	35.82	0.46	1.18	0.23	0.19	0.02	0.008	114	72	442	121	21	5	4	34.1
48364	Rock	0.54	2.20	0.11	0.73	0.42	53.67	0.02	0.04	<0.01	0.03	0.01	<0.002	7	<20	671	<5	<3	<5	<1	42.7
48365	Rock	0.53	3.17	0.24	1.11	3.01	49.93	0.03	0.09	0.01	0.01	0.01	0.003	9	31	533	<5	3	<5	<1	42.3
48366	Rock	0.58	6.52	1.81	0.85	0.77	48.76	0.05	0.67	0.08	<0.01	<0.01	0.003	33	<20	432	13	4	<5	2	40.4
48367	Rock	0.47	14.99	2.48	0.90	0.95	43.09	0.43	0.74	0.16	0.06	0.07	<0.002	1478	<20	347	61	11	10	3	35.9
48368	Rock	0.53	53.51	10.79	3.31	2.85	9.49	1.01	3.19	0.68	0.72	0.04	0.014	401	86	158	273	43	17	10	14.0
48369	Rock	0.89	14.87	1.95	0.57	1.04	43.06	0.29	0.74	0.13	0.36	0.05	0.005	77	25	402	70	19	7	2	36.7
48370	Rock	0.89	6.61	2.28	0.36	0.40	48.94	0.02	1.50	0.02	0.04	0.04	<0.002	33	<20	383	12	<3	<5	<1	39.7



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Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48230	Rock	99.89	11.85	0.14
48231	Rock	99.96	6.46	0.28
48232	Rock	99.97	2.59	0.32
48233	Rock	99.95	6.43	0.21
48234	Rock	99.93	6.58	0.22
48319	Rock	99.81	9.10	0.17
48320	Rock	99.91	11.03	0.28
48321	Rock	99.90	6.58	0.11
48322	Rock	99.84	8.22	0.03
48323	Rock	99.88	9.94	0.26
48324	Rock	99.95	9.18	0.33
48326	Rock	99.86	8.53	0.32
48327	Rock	99.85	9.46	0.34
48328	Rock	99.86	13.01	0.05
48329	Rock	99.73	12.54	0.04
48330	Rock	99.95	9.14	0.03
48331	Rock	99.91	4.93	0.22
48332	Rock	99.90	12.49	0.02
48359	Rock	99.95	9.59	0.53
48360	Rock	99.85	4.60	1.12
48361	Rock	99.97	11.67	0.11
48362	Rock	99.89	11.74	0.31
48363	Rock	99.72	11.51	0.81
48364	Rock	99.97	12.57	0.04
48365	Rock	99.96	12.69	0.07
48366	Rock	99.95	11.37	0.11
48367	Rock	99.95	10.65	0.42
48368	Rock	99.69	5.12	0.90
48369	Rock	99.89	11.37	0.28
48370	Rock	99.96	11.27	<0.02

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.



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# CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48371	Rock	0.73	18.20	2.74	1.01	9.28	30.25	0.36	1.15	0.19	1.15	0.09	0.004	99	39	290	116	29	<5	3	35.2
48372	Rock	0.96	1.49	0.29	0.21	0.81	52.80	0.02	0.14	0.01	0.03	<0.01	<0.002	7	<20	417	5	<3	<5	<1	44.1
48409	Rock	0.70	13.23	2.11	1.02	0.85	44.31	0.36	0.59	0.13	0.07	0.12	<0.002	489	<20	316	60	11	<5	3	37.0
48410	Rock	1.10	20.10	2.70	0.93	1.45	36.83	0.38	1.00	0.17	0.93	0.03	0.012	1810	76	414	91	48	5	4	34.9
48411	Rock	0.58	10.58	1.82	1.09	3.28	43.06	0.22	0.63	0.09	0.07	0.09	0.004	90	30	289	35	10	<5	2	38.8
48412	Rock	0.49	23.56	3.63	1.24	1.90	35.25	0.49	1.32	0.26	0.17	0.02	0.006	143	69	544	148	19	<5	4	31.8
48413	Rock	0.35	18.27	2.28	0.72	1.31	40.46	0.51	0.90	0.17	7.13	0.02	0.004	127	42	741	126	52	<5	4	28.0
48414	Rock	0.32	7.71	1.51	0.70	1.07	48.46	0.04	0.55	0.07	0.06	0.01	0.003	58	<20	341	15	5	<5	2	39.7
48415	Rock	0.58	12.37	1.51	0.60	1.74	44.19	0.19	0.66	0.09	5.27	0.03	0.007	78	45	664	53	52	<5	2	33.0
48416	Rock	0.54	14.27	2.28	0.98	2.15	41.55	0.29	0.91	0.15	0.15	0.02	0.006	87	68	665	77	18	<5	3	36.9
48417	Rock	0.32	22.23	3.34	1.10	2.23	35.62	0.49	1.24	0.23	0.46	0.03	0.006	127	62	529	130	25	<5	4	32.7
48418	Rock	0.49	8.42	0.95	0.41	0.27	48.32	0.30	0.39	0.06	26.21	0.01	0.005	48	49	616	60	223	<5	3	14.4
48419	Rock	0.58	49.54	0.85	1.03	0.11	26.78	0.14	0.22	0.05	19.19	0.01	0.020	140	<20	291	47	105	<5	2	1.9
48420	Rock	0.29	57.60	10.89	3.35	2.41	7.59	0.90	4.39	0.66	0.53	0.03	0.011	805	78	104	256	45	9	11	11.1
48421	Rock	0.55	54.83	10.49	3.50	2.05	10.25	0.83	4.12	0.64	0.48	0.04	0.011	733	77	111	240	31	7	10	12.3
48422	Rock	0.69	12.56	1.36	0.70	4.99	41.78	0.03	0.54	0.05	0.23	0.01	0.002	41	<20	302	10	4	<5	1	37.6
48423	Rock	1.17	30.76	3.10	1.51	1.93	32.26	0.68	1.23	0.27	16.75	0.03	0.007	162	29	348	331	113	8	3	11.3
48424	Rock	0.84	15.75	1.93	1.33	0.85	43.45	0.44	0.76	0.16	25.38	0.02	0.014	96	67	490	161	258	12	2	9.7
48464	Rock	0.48	22.72	4.02	1.93	1.80	36.46	0.63	1.04	0.26	0.13	0.07	0.003	218	<20	188	113	14	15	4	30.8
48465	Rock	0.37	19.34	1.14	0.41	0.97	42.41	0.24	0.44	0.08	5.30	0.03	0.003	422	23	606	56	33	<5	2	29.4
48466	Rock	0.41	27.04	1.05	0.28	1.59	36.97	0.12	0.48	0.06	0.27	0.07	0.004	87	34	314	28	9	<5	1	31.9
48467	Rock	0.36	32.19	5.03	1.99	3.45	26.10	0.58	2.13	0.33	0.33	0.03	0.021	200	86	250	167	31	<5	5	27.5
48468	Rock	0.36	28.98	4.63	1.40	2.76	26.11	0.52	1.79	0.30	0.33	0.03	0.026	170	130	271	151	28	<5	6	32.5
48469	Rock	0.40	14.84	2.25	0.84	3.35	40.60	0.31	0.95	0.15	0.13	0.07	0.005	105	61	371	75	15	<5	3	36.3
48470	Rock	0.45	11.27	2.22	0.69	1.06	46.14	0.11	0.72	0.08	<0.01	<0.01	0.004	28	<20	811	14	18	<5	3	37.6
48471	Rock	0.63	21.67	3.16	1.34	2.29	36.38	0.56	1.29	0.24	16.80	0.02	0.010	154	52	441	181	229	<5	5	16.0
48472	Rock	0.45	57.61	11.42	3.36	2.37	6.51	0.87	4.87	0.69	0.19	0.03	0.014	321	90	81	234	27	12	11	11.5
48473	Rock	0.67	14.29	1.81	0.56	1.87	42.97	0.26	0.86	0.11	9.64	0.02	0.006	75	50	525	80	256	<5	5	27.3
48474	Rock	0.72	2.19	0.26	<0.04	0.84	53.55	0.07	0.13	0.02	4.26	0.02	0.003	25	44	376	17	62	<5	<1	38.6



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Project: Fly Camp

Report Date: September 18, 2008

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CERTIFICATE OF ANALYSIS

VAN08007984.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48371	Rock	99.74	10.91	0.30
48372	Rock	99.96	12.67	0.04
48409	Rock	99.91	10.70	0.25
48410	Rock	99.68	12.65	0.64
48411	Rock	99.82	11.42	0.16
48412	Rock	99.70	10.26	0.40
48413	Rock	99.86	8.86	0.29
48414	Rock	99.95	11.53	0.10
48415	Rock	99.78	11.25	0.39
48416	Rock	99.75	11.22	0.15
48417	Rock	99.75	10.10	0.17
48418	Rock	99.84	5.67	0.38
48419	Rock	99.91	0.45	0.17
48420	Rock	99.60	3.89	0.89
48421	Rock	99.67	4.28	0.73
48422	Rock	99.91	10.80	0.23
48423	Rock	99.95	3.61	0.72
48424	Rock	99.95	3.91	1.07
48464	Rock	99.95	9.20	0.95
48465	Rock	99.90	9.04	0.22
48466	Rock	99.93	9.78	0.10
48467	Rock	99.76	10.59	1.06
48468	Rock	99.43	15.81	1.07
48469	Rock	99.86	11.53	0.38
48470	Rock	99.97	10.92	0.24
48471	Rock	99.88	5.97	1.11
48472	Rock	99.55	4.77	1.47
48473	Rock	99.86	9.48	0.59
48474	Rock	99.93	11.79	0.10

**QUALITY CONTROL REPORT**

**VAN08007984.1**

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48103	Rock	0.88	35.40	6.20	1.75	2.48	23.21	0.64	2.38	0.40	0.42	0.03	0.021	288	141	249	187	37	14	7	26.2
48200	Rock	0.71	19.61	2.15	0.62	3.26	37.74	0.49	0.95	0.16	7.83	0.03	0.005	111	<20	550	172	79	<5	3	26.9
48326	Rock	1.16	15.05	1.49	0.54	1.43	41.57	0.37	0.70	0.10	10.53	0.02	0.006	73	23	642	87	190	<5	5	28.0
48471	Rock	0.63	21.67	3.16	1.34	2.29	36.38	0.56	1.29	0.24	16.80	0.02	0.010	154	52	441	181	229	<5	5	16.0
Pulp Duplicates																					
48112	Rock	0.38	16.92	2.65	0.93	1.99	39.96	0.42	0.96	0.19	0.17	0.03	0.004	123	52	697	101	16	8	3	35.4
REP 48112	QC																				
48181	Rock	0.92	7.97	1.10	0.43	1.22	48.46	0.17	0.40	0.07	0.11	0.02	0.003	46	<20	484	49	7	<5	<1	39.9
REP 48181	QC																				
48227	Rock	1.03	75.67	1.23	16.12	0.14	0.18	0.07	0.41	0.08	0.73	0.05	0.013	473	<20	97	43	8	<5	2	4.9
REP 48227	QC		76.01	1.21	15.73	0.14	0.31	0.07	0.39	0.08	0.71	0.05	0.013	463	<20	94	44	7	5	2	4.9
48363	Rock	1.03	20.41	3.17	1.20	2.80	35.82	0.46	1.18	0.23	0.19	0.02	0.008	114	72	442	121	21	5	4	34.1
REP 48363	QC																				
48464	Rock	0.48	22.72	4.02	1.93	1.80	36.46	0.63	1.04	0.26	0.13	0.07	0.003	218	<20	188	113	14	15	4	30.8
REP 48464	QC																				
48474	Rock	0.72	2.19	0.26	<0.04	0.84	53.55	0.07	0.13	0.02	4.26	0.02	0.003	25	44	376	17	62	<5	<1	38.6
REP 48474	QC		2.19	0.26	<0.04	0.85	53.54	0.07	0.13	0.02	4.34	0.02	<0.002	25	<20	381	19	63	<5	<1	38.6
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
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Project:

Fly Camp

Report Date:

September 18, 2008

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Part 2

## QUALITY CONTROL REPORT

VAN08007984.1

Method Analyte	Unit	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
MDL		%	%	%
		0.01	0.02	0.02
48103	Rock	99.24	11.72	1.37
48200	Rock	99.87	8.19	0.36
48326	Rock	99.86	8.53	0.32
48471	Rock	99.88	5.97	1.11
Pulp Duplicates				
48112	Rock	99.76	11.24	0.17
REP 48112	QC		10.96	0.18
48181	Rock	99.96	11.60	0.10
REP 48181	QC		11.67	0.12
48227	Rock	99.69	0.14	0.37
REP 48227	QC	99.71		
48363	Rock	99.72	11.51	0.81
REP 48363	QC		11.62	0.83
48464	Rock	99.95	9.20	0.95
REP 48464	QC		9.16	0.96
48474	Rock	99.93	11.79	0.10
REP 48474	QC	99.93		
Reference Materials				
STD CSC	Standard		3.20	4.17
STD CSC	Standard		3.14	4.22
STD CSC	Standard		3.13	4.26
STD CSC	Standard		3.26	4.32
STD CSC	Standard		3.15	4.21
STD CSC	Standard		3.14	4.26
STD OREAS76A	Standard		0.17	17.82
STD OREAS76A	Standard		0.20	17.25
STD OREAS76A	Standard		0.17	17.12
STD OREAS76A	Standard		0.16	16.89
STD OREAS76A	Standard		0.17	16.81

**QUALITY CONTROL REPORT**

**VAN08007984.1**

	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
STD OREAS76A	Standard																			
STD SO-18	Standard	58.12	14.12	7.56	3.35	6.37	3.71	2.14	0.69	0.82	0.39	0.550	469	46	397	298	32	23	25	1.9
STD SO-18	Standard	58.13	14.10	7.56	3.34	6.36	3.71	2.14	0.69	0.81	0.40	0.549	474	52	401	300	32	26	25	1.9
STD SO-18	Standard	58.20	14.10	7.53	3.34	6.38	3.72	2.14	0.69	0.83	0.39	0.549	474	32	402	295	32	17	25	1.9
STD SO-18	Standard	58.13	14.08	7.57	3.34	6.36	3.72	2.15	0.69	0.84	0.39	0.548	483	36	403	299	32	19	25	1.9
STD SO-18	Standard	58.11	14.10	7.60	3.34	6.37	3.69	2.14	0.69	0.83	0.39	0.550	481	47	403	294	32	17	26	1.9
STD SO-18	Standard	58.05	14.12	7.61	3.35	6.37	3.70	2.16	0.69	0.84	0.39	0.552	487	50	401	296	32	13	26	1.9
STD SO-18	Standard	58.07	14.09	7.64	3.34	6.38	3.70	2.16	0.69	0.80	0.39	0.549	479	57	400	302	32	20	25	1.9
STD SO-18	Standard	58.04	14.09	7.60	3.34	6.38	3.72	2.16	0.69	0.82	0.39	0.551	481	41	402	300	31	21	25	1.9
STD SO-18	Standard	58.13	14.08	7.60	3.35	6.42	3.68	2.12	0.69	0.83	0.39	0.540	479	59	397	297	32	22	25	1.9
STD SO-18	Standard	58.13	14.06	7.60	3.33	6.38	3.69	2.13	0.69	0.82	0.39	0.546	476	55	399	299	32	23	25	1.9
STD SO-18	Standard	57.98	14.12	7.64	3.34	6.39	3.73	2.16	0.69	0.83	0.40	0.546	492	41	402	317	32	20	25	1.9
STD SO-18	Standard	58.25	14.07	7.52	3.34	6.41	3.69	2.14	0.69	0.83	0.39	0.544	493	31	393	301	32	27	25	1.9
STD SO-18	Standard	58.11	14.12	7.55	3.34	6.38	3.70	2.14	0.69	0.85	0.39	0.550	477	42	401	293	32	33	25	1.9
STD SO-18	Standard	58.02	14.13	7.58	3.35	6.39	3.70	2.15	0.69	0.85	0.39	0.552	482	45	402	295	32	19	25	1.9
STD SO-18	Standard	58.07	14.13	7.56	3.35	6.37	3.73	2.17	0.69	0.82	0.40	0.551	492	43	413	297	32	21	26	1.9
STD SO-18	Standard	58.04	14.12	7.60	3.35	6.38	3.71	2.16	0.69	0.83	0.39	0.553	481	74	406	296	32	20	26	1.9
STD SO-18	Standard	57.90	14.18	7.64	3.36	6.40	3.71	2.15	0.69	0.84	0.39	0.554	483	51	401	297	32	22	25	1.9
STD SO-18	Standard	57.98	14.16	7.61	3.35	6.38	3.72	2.16	0.69	0.83	0.39	0.555	486	53	400	300	32	19	25	1.9
STD SO-18	Standard	58.25	14.10	7.46	3.34	6.41	3.74	2.12	0.69	0.88	0.39	0.542	472	38	400	302	32	17	25	1.9
STD SO-18	Standard	58.04	14.22	7.57	3.34	6.45	3.74	2.13	0.70	0.83	0.39	0.544	467	27	405	303	32	25	25	1.9
STD CSC Expected																				
STD OREAS76A Expected																				
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0

## QUALITY CONTROL REPORT

VAN08007984.1

		4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
		%	%	%
		0.01	0.02	0.02
STD OREAS76A	Standard		0.16	17.00
STD SO-18	Standard	99.87		
STD SO-18	Standard	99.85		
STD SO-18	Standard	99.92		
STD SO-18	Standard	99.88		
STD SO-18	Standard	99.87		
STD SO-18	Standard	99.90		
STD SO-18	Standard	99.87		
STD SO-18	Standard	99.83		
STD SO-18	Standard	99.89		
STD SO-18	Standard	99.84		
STD SO-18	Standard	99.90		
STD SO-18	Standard	99.92		
STD SO-18	Standard	99.88		
STD SO-18	Standard	99.86		
STD SO-18	Standard	99.90		
STD SO-18	Standard	99.88		
STD SO-18	Standard	99.88		
STD SO-18	Standard	99.90		
STD SO-18	Standard	99.98		
STD SO-18	Standard	100.01		
STD CSC Expected			3.13	4.19
STD OREAS76A Expected			0.16	18
STD SO-18 Expected				
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank	<0.02	<0.02	

QUALITY CONTROL REPORT

VAN08007984.1

		WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A		
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																					
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																					
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
Prep Wash																						
G1	Prep Blank	<0.01	66.32	15.78	3.60	1.30	3.74	3.46	3.59	0.43	0.19	0.10	<0.002	1029	<20	767	151	17	17	7	1.2	
G1	Prep Blank	<0.01	66.83	15.94	3.40	1.29	3.75	3.48	3.57	0.42	0.21	0.10	<0.002	1064	<20	779	153	18	15	7	0.7	



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Client:

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1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Project:

Fly Camp

Report Date:

September 18, 2008

Page:

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Part 2

## QUALITY CONTROL REPORT

VAN08007984.1

		4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
		%	%	%
		0.01	0.02	0.02
BLK	Blank	<0.02	0.02	
BLK	Blank	<0.02	<0.02	
BLK	Blank	<0.01		
BLK	Blank	0.13		
BLK	Blank	<0.01		
BLK	Blank	<0.02	<0.02	
BLK	Blank	<0.01		
BLK	Blank	<0.02	<0.02	
BLK	Blank	<0.02	<0.02	
BLK	Blank	<0.01		
BLK	Blank	<0.01		
Prep Wash				
G1	Prep Blank	99.97	0.03	<0.02
G1	Prep Blank	99.94	0.03	<0.02



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 07, 2008

Report Date:

October 08, 2008

Page:

1 of 3

## CERTIFICATE OF ANALYSIS

VAN08008084.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 35

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	35	Crush, split and pulverize rock to 200 mesh		
4A	35	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### 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.



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**Pacific Ridge Exploration Ltd.**

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Vancouver BC V6E 3T5 Canada

Project:

None Given

Report Date:

October 08, 2008

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

VAN08008084.1

Method	Analyte	WGHT	4A
		Wgt	P2O5
Unit		kg	%
MDL		0.01	0.01
48501	Rock	0.98	19.06
48502	Rock	1.21	20.32
48503	Rock	0.68	18.95
48504	Rock	1.46	14.23
48505	Rock	1.28	12.14
48506	Rock	0.96	19.72
48507	Rock	1.31	22.25
48508	Rock	0.69	14.10
48509	Rock	0.87	15.40
48510	Rock	0.67	2.94
48511	Rock	0.83	2.08
48512	Rock	1.09	19.02
48513	Rock	1.17	14.13
48514	Rock	0.69	18.05
48515	Rock	1.00	0.19
48516	Rock	1.13	13.52
48517	Rock	0.98	7.90
48518	Rock	0.80	0.39
48519	Rock	0.95	6.87
48520	Rock	1.16	17.74
48521	Rock	1.42	16.77
48522	Rock	0.79	18.44
48523	Rock	1.07	10.87
48524	Rock	1.20	15.99
48525	Rock	0.93	19.66
48526	Rock	1.30	19.73
48527	Rock	0.88	12.55
48528	Rock	1.25	19.58
48529	Rock	1.00	19.31
48530	Rock	0.91	4.06



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Vancouver BC V6E 3T5 Canada

Project:

None Given

Report Date:

October 08, 2008

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

VAN08008084.1

	Method	WGHT	4A
	Analyte	Wgt	P2O5
	Unit	kg	%
	MDL	0.01	0.01
48531	Rock	1.08	6.34
48532	Rock	0.82	0.27
48533	Rock	0.74	1.12
48551	Rock	0.73	0.25
48552	Rock	0.69	0.24



QUALITY CONTROL REPORT

VAN08008084.1

Method	WGHT	4A
Analyte	Wgt	P2O5
Unit	kg	%
MDL	0.01	0.01
48524	Rock	1.20 15.99
Reference Materials		
STD SO-18	Standard	0.83
STD SO-18	Standard	0.84
STD SO-18	Standard	0.84
STD SO-18	Standard	0.83
STD SO-18	Standard	0.83
STD SO-18	Standard	0.81
STD SO-18	Standard	0.83
STD SO-18	Standard	0.84
STD SO-18	Standard	0.83
STD SO-18	Standard	0.83
STD SO-18	Standard	0.82
STD SO-18	Standard	0.86
STD SO-18	Standard	0.84
STD SO-18 Expected		0.83
BLK	Blank	<0.01
BLK	Blank	<0.01
BLK	Blank	<0.01
BLK	Blank	<0.01
BLK	Blank	<0.01
BLK	Blank	<0.01
BLK	Blank	<0.01
Prep Wash		
G1	Prep Blank	<0.01 0.21
G1	Prep Blank	<0.01 0.21



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 13, 2008

Report Date:

August 28, 2008

Page:

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## CERTIFICATE OF ANALYSIS

VAN08008234.1

### CLIENT JOB INFORMATION

Project: Tumbler Ridge Phosphate  
Shipment ID:  
P.O. Number  
Number of Samples: 3

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	3	Crush, split and pulverize rock to 200 mesh		
4A	3	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### 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.



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Project:

Tumbler Ridge Phosphate

Report Date:

August 28, 2008

Page:

2 of 2

Part 1

## CERTIFICATE OF ANALYSIS

VAN08008234.1

Method	WGHT	4A
Analyte	Wgt	P2O5
Unit	kg	%
MDL	0.01	0.01
GN-08-PH-24	Rock	0.95 0.28
GN-08-PH-25	Rock	1.47 24.50
GN-08-PH-26	Rock	0.86 7.46

**QUALITY CONTROL REPORT**

**VAN08008234.1**

	Method	WGHT	4A
	Analyte	Wgt	P2O5
	Unit	kg	%
	MDL	0.01	0.01
Reference Materials			
STD SO-18	Standard		0.83
STD SO-18	Standard		0.83
STD SO-18 Expected			0.83
BLK	Blank		<0.01
Prep Wash			
G1	Prep Blank	<0.01	0.19



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Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 13, 2008

Report Date:

September 04, 2008

Page:

1 of 2

## CERTIFICATE OF ANALYSIS

VAN08008248.1

### CLIENT JOB INFORMATION

Project: Tumbler Ridge  
Shipment ID:  
P.O. Number  
Number of Samples: 18

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	19	Crush, split and pulverize rock to 200 mesh		
4A	19	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### 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.



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**Client:** Pacific Ridge Exploration Ltd.

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 Vancouver BC V6E 3T5 Canada

**Project:** Tumbler Ridge

**Report Date:** September 04, 2008

**Page:** 2 of 2 **Part** 1

**CERTIFICATE OF ANALYSIS**

**VAN08008248.1**

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48135	Rock	0.47	24.11	2.92	1.21	3.04	34.78	0.51	1.22	0.21	2.88	0.03	0.005	181	39	350	179	43	7	3	28.9
48136	Rock	0.86	9.16	0.72	0.72	0.27	48.75	0.38	0.27	0.05	24.27	0.02	0.007	124	23	520	94	468	<5	3	15.1
48137	Rock	0.46	19.01	2.56	1.81	0.14	39.68	0.67	0.94	0.20	29.73	0.01	0.011	307	73	458	189	258	<5	3	5.1
48138	Rock	0.59	12.46	0.72	1.00	0.09	45.06	0.37	0.25	0.04	32.92	0.02	0.010	158	63	529	91	629	<5	4	6.8
48139	Rock	1.00	8.37	1.06	0.83	0.81	48.26	0.28	0.39	0.08	17.77	0.03	0.006	128	39	389	83	272	<5	2	21.9
48140	Rock	0.81	5.62	0.75	0.47	0.09	49.68	0.50	0.27	0.05	36.60	0.01	0.009	109	<20	641	73	638	<5	4	5.6
48141	Rock	0.95	13.83	0.77	0.98	0.10	45.75	0.48	0.29	0.06	32.85	0.02	0.007	72	25	538	119	631	<5	4	4.5
48142	Rock	1.28	16.39	2.75	1.46	0.24	39.95	0.45	0.98	0.17	30.45	0.02	0.018	209	65	572	134	571	5	5	6.7
48143	Rock	0.95	55.64	7.35	2.23	0.27	14.57	1.20	2.82	0.59	10.48	0.04	0.008	285	28	213	479	180	6	7	4.6
48144	Rock	0.51	49.91	9.09	4.01	0.50	12.32	0.85	3.75	0.58	8.63	0.05	0.016	411	77	214	293	225	10	11	9.8
48475	Rock	0.92	33.60	0.77	1.54	0.10	35.11	0.19	0.28	0.05	25.46	<0.01	0.020	208	20	261	43	91	<5	2	2.6
48476	Rock	0.68	94.40	0.78	1.71	0.09	0.51	0.03	0.30	0.06	0.64	<0.01	0.017	103	<20	25	39	5	<5	1	1.4
48477	Rock	0.71	29.91	0.71	0.48	0.09	37.25	0.17	0.24	0.04	28.90	<0.01	0.019	94	26	263	34	93	<5	1	2.1
48478	Rock	0.67	83.30	1.08	6.20	0.15	2.39	0.03	0.37	0.08	1.98	<0.01	0.028	95	<20	43	49	32	<5	2	4.2
48479	Rock	0.81	36.60	0.65	0.58	0.10	34.24	0.20	0.23	0.04	24.98	<0.01	0.020	191	<20	261	38	82	<5	2	2.2
48480	Rock	0.68	35.06	0.61	0.61	0.10	35.19	0.19	0.23	0.04	25.39	<0.01	0.021	186	<20	279	37	78	<5	2	2.4
48535	Rock	1.10	11.19	1.20	0.77	0.17	46.93	0.49	0.41	0.09	28.62	0.02	0.008	120	<20	519	106	581	<5	4	9.8
48536	Rock	0.73	7.28	1.02	0.74	0.12	48.21	0.56	0.35	0.07	36.09	0.02	0.010	121	<20	701	101	872	<5	5	5.2
48235	Rock	0.64	77.85	0.54	10.05	0.06	4.17	0.04	0.10	0.02	3.46	<0.01	0.013	2091	22	104	14	41	5	<1	3.4



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Client:

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Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge

Report Date:

September 04, 2008

Page:

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Part 2

## CERTIFICATE OF ANALYSIS

VAN08008248.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48135	Rock	99.89	8.76	0.30
48136	Rock	99.88	5.05	0.44
48137	Rock	99.97	1.81	0.48
48138	Rock	99.89	2.70	0.46
48139	Rock	99.89	7.08	0.38
48140	Rock	99.79	2.07	0.44
48141	Rock	99.79	2.05	0.43
48142	Rock	99.73	2.72	0.44
48143	Rock	99.91	1.19	0.21
48144	Rock	99.64	4.13	0.29
48475	Rock	99.75	0.79	0.71
48476	Rock	99.95	0.25	0.09
48477	Rock	99.94	0.82	0.25
48478	Rock	99.81	0.27	4.06
48479	Rock	99.90	0.80	0.34
48480	Rock	99.87	0.80	0.31
48535	Rock	99.85	3.44	0.40
48536	Rock	99.84	1.49	0.44
48235	Rock	99.95	0.12	1.25

QUALITY CONTROL REPORT

VAN08008248.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
Pulp Duplicates																					
REP G1	QC	66.53	15.74	3.47	1.26	3.84	3.52	3.45	0.41	0.21	0.10	0.003	938	<20	768	142	18	22	6	1.2	
48536	Rock	0.73	7.28	1.02	0.74	0.12	48.21	0.56	0.35	0.07	36.09	0.02	0.010	121	<20	701	101	872	<5	5	5.2
REP 48536	QC		7.26	1.00	0.78	0.12	48.42	0.56	0.35	0.07	35.84	0.02	0.010	123	<20	701	95	869	<5	5	5.2
Reference Materials																					
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	58.20	14.07	7.52	3.34	6.39	3.69	2.15	0.69	0.82	0.39	0.548	476	43	396	295	32	20	25	1.9	
STD SO-18	Standard	58.08	14.09	7.58	3.33	6.39	3.70	2.15	0.69	0.82	0.39	0.549	473	40	398	295	32	21	25	1.9	
STD SO-18	Standard	58.07	14.09	7.64	3.34	6.38	3.70	2.16	0.69	0.80	0.39	0.549	479	57	400	302	32	20	25	1.9	
STD SO-18	Standard	58.04	14.09	7.60	3.34	6.38	3.72	2.16	0.69	0.82	0.39	0.551	481	41	402	300	31	21	25	1.9	
STD SO-18	Standard	57.90	14.18	7.64	3.36	6.40	3.71	2.15	0.69	0.84	0.39	0.554	483	51	401	297	32	22	25	1.9	
STD SO-18	Standard	57.98	14.16	7.61	3.35	6.38	3.72	2.16	0.69	0.83	0.39	0.555	486	53	400	300	32	19	25	1.9	
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
Prep Wash																					
G1	Prep Blank																				
G1	Prep Blank	66.65	15.51	3.60	1.30	3.60	3.40	3.88	0.42	0.22	0.10	0.002	1124	<20	734	152	18	24	6	1.0	
G1	Prep Blank	66.69	15.64	3.37	1.25	3.81	3.55	3.52	0.40	0.21	0.09	0.005	919	<20	762	137	17	21	6	1.2	



## QUALITY CONTROL REPORT

VAN08008248.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
Pulp Duplicates				
REP G1	QC	99.93		
48536	Rock	99.84	1.49	0.44
REP 48536	QC	99.79		
Reference Materials				
STD CSC	Standard		3.01	4.33
STD OREAS76A	Standard		0.16	17.05
STD SO-18	Standard	99.88		
STD SO-18	Standard	99.83		
STD SO-18	Standard	99.87		
STD SO-18	Standard	99.83		
STD SO-18	Standard	99.88		
STD SO-18	Standard	99.90		
STD CSC Expected			3.13	4.19
STD OREAS76A Expected			0.16	18
STD SO-18 Expected				
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank		<0.02	<0.02
BLK	Blank	<0.01		
Prep Wash				
G1	Prep Blank		0.05	<0.02
G1	Prep Blank	99.92	0.04	<0.02
G1	Prep Blank	99.94		



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**Client:** Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Submitted By: Wayne Roberts  
 Receiving Lab: Canada-Vancouver  
 Received: August 13, 2008  
 Report Date: August 29, 2008  
 Page: 1 of 2

**CERTIFICATE OF ANALYSIS**

**VAN08008251.1**

**CLIENT JOB INFORMATION**

Project: Tumbler Ridge  
 Shipment ID:  
 P.O. Number  
 Number of Samples: 1

**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:

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	1	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	1	Dry at 60C		
4A	1	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

**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.



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Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
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Project: Tumbler Ridge

Report Date: August 29, 2008

Page: 2 of 2 Part 1

## CERTIFICATE OF ANALYSIS

VAN08008251.1

Method	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	Sum	
Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	0.01	
48534	Soil	45.61	10.77	5.36	0.89	7.90	0.37	4.15	0.62	5.39	0.04	0.055	224	177	196	271	193	5	16	17.7	99.02



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1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge

Report Date:

August 29, 2008

Page:

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Part 2

## CERTIFICATE OF ANALYSIS

VAN08008251.1

Method	Analyte	LECO2A	LECO
		TOT/C	TOT/S
Unit		%	%
MDL		0.02	0.02
48534	Soil	7.01	0.35

QUALITY CONTROL REPORT

VAN08008251.1

Method		4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	Sum
Unit		%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	0.01
Reference Materials																					
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	58.11	14.10	7.60	3.34	6.37	3.69	2.14	0.69	0.83	0.39	0.550	481	47	403	294	32	17	26	1.9	99.87
STD SO-18	Standard	58.05	14.12	7.61	3.35	6.37	3.70	2.16	0.69	0.84	0.39	0.552	487	50	401	296	32	13	26	1.9	99.90
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
STD CSC Expected																					
STD OREAS76A Expected																					
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	<0.01
BLK	Blank																				

## QUALITY CONTROL REPORT

VAN08008251.1

Reference Materials	Method	2A LECO2A LECO	
		TOT/C	TOT/S
Analyte	Unit	%	%
MDL		0.02	0.02
STD CSC	Standard	3.01	4.33
STD OREAS76A	Standard	0.16	17.05
STD SO-18	Standard		
STD SO-18	Standard		
STD SO-18 Expected			
STD CSC Expected		3.13	4.19
STD OREAS76A Expected		0.16	18
BLK	Blank		
BLK	Blank	<0.02	<0.02



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 29, 2008

Report Date:

October 28, 2008

Page:

1 of 5

## CERTIFICATE OF ANALYSIS

VAN08008821.1

### CLIENT JOB INFORMATION

Project: Tumbler Ridge  
Shipment ID:  
P.O. Number  
Number of Samples: 99

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	99	Crush, split and pulverize rock to 200 mesh		
4A	99	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

### ADDITIONAL COMMENTS

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: George Norman  
John Brock  
Michael Renning



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.

\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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**Client:** Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

**Project:** Tumbler Ridge

**Report Date:** October 28, 2008

**Page:** 2 of 5 **Part** 1

**CERTIFICATE OF ANALYSIS**

**VAN08008821.1**

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
47162	Rock	2.38	26.59	3.99	1.66	3.88	29.64	0.45	1.71	0.26	1.88	0.03	0.011	145	87	239	148	36	12	5	29.5
47163	Rock	2.34	19.65	3.11	1.22	5.63	33.34	0.36	1.40	0.21	2.29	0.03	0.007	153	37	243	103	37	10	3	32.5
47164	Rock	1.46	24.51	3.42	1.27	3.17	33.15	0.53	1.52	0.23	6.01	0.02	0.006	164	57	291	145	77	7	5	25.9
47165	Rock	1.62	15.02	2.41	1.24	2.01	40.45	0.28	1.02	0.16	2.20	0.03	0.009	119	105	294	91	34	11	3	34.7
47166	Rock	1.28	26.53	3.89	1.52	4.11	30.58	0.49	1.67	0.27	1.51	0.03	0.009	158	59	271	145	33	11	4	29.1
47167	Rock	1.67	33.96	5.80	2.41	5.76	21.11	0.49	2.41	0.37	0.99	0.04	0.014	222	135	162	204	32	15	6	26.2
47168	Rock	1.89	20.86	3.96	2.06	2.38	34.45	0.35	1.66	0.25	0.60	0.03	0.008	161	77	200	117	24	14	4	33.1
47169	Rock	1.74	38.84	6.57	2.75	2.64	22.97	0.84	2.61	0.44	5.87	0.03	0.008	295	46	242	222	60	12	7	16.2
47170	Rock	2.08	40.60	7.43	2.33	3.85	17.02	0.83	2.91	0.49	0.31	0.03	0.007	338	31	132	205	21	11	7	24.0
47171	Rock	1.72	25.23	4.24	2.64	2.43	37.33	0.61	1.60	0.30	4.79	0.04	0.007	187	29	288	148	63	13	4	20.5
47172	Rock	1.41	27.49	4.76	2.38	3.31	31.48	0.62	1.74	0.33	0.15	0.05	<0.002	273	<20	141	159	18	13	5	27.5
47173	Rock	1.79	58.53	9.91	3.21	2.66	7.99	1.13	3.98	0.68	0.44	0.04	0.009	346	30	99	356	35	17	10	11.2
47174	Rock	1.40	13.15	2.22	1.01	1.14	43.60	0.31	0.89	0.14	10.03	0.03	0.006	93	51	330	81	86	<5	3	27.2
47176	Rock	1.61	28.75	5.60	2.51	2.58	26.16	0.45	2.31	0.36	0.42	0.03	0.013	194	106	166	161	26	12	6	30.4
47177	Rock	1.55	20.83	3.59	1.76	2.84	34.91	0.38	1.56	0.24	0.19	0.03	0.006	145	38	218	126	18	18	4	33.5
47178	Rock	1.71	25.39	4.32	1.80	4.03	29.84	0.38	1.88	0.28	0.40	0.03	0.009	149	96	189	137	20	10	5	31.3
47179	Rock	1.39	29.67	4.81	2.04	4.94	25.92	0.50	2.13	0.32	1.05	0.04	0.014	162	69	249	162	35	11	5	28.3
47180	Rock	1.74	18.66	3.11	1.27	2.07	38.54	0.33	1.32	0.20	2.21	0.02	0.008	122	68	257	114	34	9	3	32.0
47181	Rock	1.56	14.82	2.37	0.84	3.08	40.86	0.32	1.02	0.15	6.25	0.02	0.004	102	35	324	94	52	17	3	30.1
47182	Rock	1.65	30.08	5.31	1.72	7.66	22.93	0.50	2.27	0.35	2.38	0.05	0.012	186	43	192	171	44	16	6	26.5
47183	Rock	1.32	23.58	3.73	1.21	5.53	30.04	0.40	1.57	0.26	2.67	0.04	0.009	148	43	254	133	50	18	4	30.6
47184	Rock	1.39	26.70	5.49	2.93	3.84	25.40	0.42	2.25	0.32	7.90	0.02	0.015	217	448	307	153	109	13	7	23.8
47185	Rock	1.37	36.21	6.32	2.83	5.78	16.58	0.53	2.58	0.42	3.27	0.05	0.024	219	367	165	237	61	19	7	24.5
47186	Rock	1.65	26.53	5.48	2.28	3.71	26.90	0.39	2.27	0.33	0.86	0.03	0.014	189	207	212	133	34	15	6	30.5
47187	Rock	2.11	18.81	3.12	1.34	2.13	37.26	0.36	1.33	0.20	0.83	0.02	0.010	121	69	292	102	24	8	4	34.2
47188	Rock	1.77	26.25	4.76	1.80	2.48	30.85	0.50	1.94	0.31	0.85	0.02	0.012	153	78	223	146	28	7	5	29.9
47189	Rock	2.33	39.20	7.05	2.36	3.19	21.22	0.79	2.83	0.49	6.07	0.03	0.009	232	40	207	232	50	11	7	16.5
47191	Rock	1.35	55.12	9.30	2.81	3.41	9.79	1.06	3.71	0.64	0.34	0.04	0.009	319	33	104	328	31	14	9	13.5
47192	Rock	1.06	52.54	8.74	2.94	3.79	11.56	1.02	3.51	0.60	0.67	0.04	0.008	300	27	112	322	37	16	8	14.3
47193	Rock	1.34	53.79	9.13	3.14	3.55	10.16	0.99	3.64	0.62	0.27	0.04	0.008	289	23	101	318	29	13	9	14.5

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Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Tumbler Ridge

Report Date: October 28, 2008

Page: 2 of 5 Part 2

CERTIFICATE OF ANALYSIS

VAN08008821.1

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
47162	Rock	99.73	8.31	0.21
47163	Rock	99.82	9.91	0.30
47164	Rock	99.83	8.54	0.56
47165	Rock	99.57	11.31	0.56
47166	Rock	99.83	9.36	0.65
47167	Rock	99.64	8.86	0.33
47168	Rock	99.82	10.21	0.31
47169	Rock	99.85	5.32	1.07
47170	Rock	99.88	6.09	1.48
47171	Rock	99.75	7.64	0.96
47172	Rock	99.92	8.19	1.02
47173	Rock	99.90	3.33	0.12
47174	Rock	99.83	8.88	0.27
47176	Rock	99.70	9.80	0.20
47177	Rock	99.88	10.21	0.18
47178	Rock	99.78	9.80	0.16
47179	Rock	99.83	8.65	0.12
47180	Rock	99.78	9.93	0.24
47181	Rock	99.86	9.64	0.27
47182	Rock	99.82	8.32	0.16
47183	Rock	99.76	8.97	0.16
47184	Rock	99.27	9.24	0.52
47185	Rock	99.26	9.35	0.45
47186	Rock	99.38	10.55	0.27
47187	Rock	99.73	10.21	0.14
47188	Rock	99.78	8.97	0.14
47189	Rock	99.86	5.03	0.20
47191	Rock	99.88	3.85	0.13
47192	Rock	99.86	4.36	0.40
47193	Rock	99.90	4.06	0.10



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Project: Tumbler Ridge

Report Date: October 28, 2008

Page: 3 of 5 Part 1

# CERTIFICATE OF ANALYSIS

VAN08008821.1

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A		
			Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
			Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
			MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
47194	Rock	2.30	26.67	5.04	2.35	2.23	30.19	0.64	2.08	0.32	12.22	0.02	0.015	232	88	358	149	142	14	6	17.7		
47195	Rock	1.01	57.19	9.87	3.69	2.98	8.37	0.87	4.34	0.62	0.15	0.06	0.010	307	47	85	239	26	23	10	11.6		
47196	Rock	1.15	61.76	10.61	3.63	3.16	4.71	0.96	4.51	0.70	0.19	0.05	0.011	421	43	77	276	30	19	10	9.5		
47197	Rock	1.79	50.26	7.42	3.53	5.45	11.62	0.73	3.09	0.48	0.13	0.09	0.012	383	34	97	190	24	9	7	17.0		
47198	Rock	1.91	31.38	5.41	2.28	3.44	27.55	0.72	2.18	0.37	0.22	0.04	0.006	324	35	138	191	20	8	5	26.2		
48537	Rock	1.70	58.05	10.09	3.42	2.90	7.32	1.12	4.36	0.67	0.27	0.04	0.009	341	48	96	327	33	15	10	11.6		
48538	Rock	1.93	50.30	9.24	3.01	4.99	10.85	0.98	3.88	0.60	0.25	0.05	0.008	295	40	106	280	31	9	9	15.6		
48539	Rock	2.08	59.03	10.31	2.88	2.74	7.36	1.13	4.28	0.70	0.26	0.03	0.009	315	52	92	338	31	11	9	11.1		
48540	Rock	1.91	31.20	5.23	2.01	3.24	28.50	0.65	2.11	0.36	0.37	0.05	0.004	281	22	149	178	19	<5	5	26.2		
48541	Rock	1.95	37.01	7.37	3.27	2.35	20.46	0.64	3.10	0.46	2.34	0.03	0.019	273	141	164	209	53	9	8	22.4		
48542	Rock	2.44	39.02	7.84	3.27	3.06	17.71	0.67	3.30	0.48	2.09	0.03	0.021	279	167	160	227	67	10	9	22.0		
48543	Rock	1.44	19.59	3.57	1.46	2.51	36.54	0.38	1.44	0.23	1.09	0.03	0.009	122	98	235	120	28	9	4	32.8		
48544	Rock	1.75	18.46	2.95	1.06	4.91	35.67	0.37	1.31	0.19	1.58	0.03	0.005	131	28	278	112	30	<5	3	33.3		
48545	Rock	1.94	32.03	5.36	1.59	6.65	22.79	0.60	2.35	0.36	4.07	0.05	0.009	210	58	219	198	60	7	6	23.9		
48546	Rock	2.76	21.20	3.26	0.96	4.92	33.77	0.44	1.44	0.22	2.48	0.03	0.004	150	35	257	133	38	<5	4	31.1		
48547	Rock	1.53	17.72	3.05	1.08	6.95	33.12	0.31	1.39	0.19	1.90	0.04	0.006	125	39	241	97	37	<5	3	34.1		
48548	Rock	1.47	29.70	5.31	1.58	5.43	25.60	0.60	2.32	0.35	5.74	0.04	0.009	194	49	287	172	75	<5	6	23.1		
48549	Rock	2.30	29.70	4.69	1.40	6.50	25.23	0.53	2.17	0.31	6.20	0.04	0.008	333	55	267	188	76	6	6	22.9		
48550	Rock	2.59	21.31	4.06	1.58	3.38	33.95	0.38	1.71	0.25	1.29	0.03	0.008	136	79	241	116	26	<5	4	31.7		
48651	Rock	1.40	61.99	1.62	1.08	0.47	18.15	0.19	0.60	0.11	11.93	0.01	0.025	238	<20	167	68	56	<5	3	3.7		
48652	Rock	1.17	73.66	8.78	3.56	0.69	2.88	0.66	3.40	0.55	1.95	0.08	0.015	501	30	74	220	39	8	9	3.6		
48653	Rock	1.16	68.71	7.95	3.29	0.59	6.48	0.62	2.89	0.48	4.92	0.07	0.014	453	33	104	190	50	11	8	3.8		
48654	Rock	0.86	77.41	8.69	4.01	0.62	0.36	0.66	3.23	0.54	0.41	0.12	0.015	907	29	55	210	27	6	8	3.8		
48655	Rock	1.26	88.39	3.59	2.48	0.32	0.58	0.37	1.36	0.25	0.41	0.03	0.021	237	<20	36	184	17	8	3	2.1		
48656	Rock	1.24	39.43	6.71	2.07	3.33	22.06	0.76	2.86	0.45	0.67	0.04	0.006	219	41	164	229	28	7	6	21.5		
48657	Rock	1.36	58.01	6.77	2.25	3.93	10.36	0.91	3.02	0.43	0.79	0.16	0.006	408	57	99	314	36	13	7	13.1		
48701	Rock	0.97	28.83	4.74	2.03	3.71	28.13	0.44	2.09	0.30	1.85	0.03	0.010	175	96	191	166	49	8	5	27.5		
48702	Rock	0.90	20.63	3.76	1.53	3.10	35.37	0.35	1.61	0.23	3.03	0.03	0.010	145	114	294	121	38	<5	4	30.0		
48703	Rock	1.03	21.79	3.94	1.40	2.31	34.65	0.49	1.74	0.25	8.69	0.02	0.011	451	122	389	130	102	8	5	24.3		
48704	Rock	1.53	14.63	2.11	0.68	2.72	40.47	0.43	0.98	0.14	14.93	0.02	0.005	294	47	489	90	135	8	4	22.5		



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## CERTIFICATE OF ANALYSIS

VAN08008821.1

Method Analyte Unit MDL		4A 2A Leco 2A Leco		
		Sum %	TOT/C %	TOT/S %
		0.01	0.02	0.02
47194	Rock	99.61	7.52	1.71
47195	Rock	99.89	4.00	1.46
47196	Rock	99.90	3.03	1.58
47197	Rock	99.90	5.49	1.46
47198	Rock	99.93	7.78	1.37
48537	Rock	99.95	3.90	0.55
48538	Rock	99.86	5.09	1.01
48539	Rock	99.92	3.46	0.39
48540	Rock	99.95	7.84	0.45
48541	Rock	99.59	8.92	0.51
48542	Rock	99.60	8.66	0.47
48543	Rock	99.76	10.92	0.72
48544	Rock	99.87	10.16	0.36
48545	Rock	99.84	7.41	0.21
48546	Rock	99.88	9.64	0.33
48547	Rock	99.88	10.63	0.13
48548	Rock	99.85	7.34	0.21
48549	Rock	99.83	7.21	0.22
48550	Rock	99.71	10.24	0.60
48651	Rock	99.92	1.05	0.31
48652	Rock	99.95	0.72	0.07
48653	Rock	99.91	0.68	0.09
48654	Rock	99.97	0.78	0.05
48655	Rock	99.97	0.40	0.23
48656	Rock	99.95	6.78	0.87
48657	Rock	99.82	4.29	0.80
48701	Rock	99.71	10.26	1.37
48702	Rock	99.70	10.43	1.00
48703	Rock	99.72	9.09	1.21
48704	Rock	99.79	8.43	0.80



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
48705	Rock	0.93	26.85	3.92	1.27	4.74	29.62	0.58	1.73	0.27	5.22	0.03	0.008	299	77	292	179	80	6	5	25.4	
48851	Rock	1.09	38.89	0.59	0.30	0.12	32.99	0.16	0.22	0.04	24.47	<0.01	0.015	82	<20	263	36	96	<5	2	2.1	
48852	Rock	0.64	1.60	0.26	0.14	0.86	54.11	0.04	0.11	0.01	<0.01	<0.01	<0.002	9	<20	409	<5	<3	5	<1	42.8	
48853	Rock	1.34	38.03	6.67	2.72	2.16	23.39	0.80	2.75	0.44	6.05	0.03	0.006	235	86	216	212	51	9	7	16.7	
48854	Rock	1.05	30.12	5.08	2.08	4.80	26.23	0.53	2.21	0.33	1.46	0.04	0.012	214	97	209	186	38	10	6	26.8	
48855	Rock	1.03	21.69	4.11	1.72	2.35	34.64	0.44	1.75	0.25	1.88	0.02	0.010	184	104	242	115	38	7	5	30.8	
48856	Rock	1.09	17.99	2.74	0.88	2.98	38.47	0.41	1.18	0.18	0.93	0.03	0.005	110	38	273	94	24	6	3	34.1	
48857	Rock	0.90	41.95	7.22	3.69	3.30	19.55	0.87	2.94	0.48	1.85	0.03	0.006	235	55	171	222	34	16	7	17.9	
48858	Rock	0.71	45.66	7.93	3.07	2.83	17.63	0.93	3.27	0.54	0.33	0.05	0.006	264	53	107	270	28	13	8	17.6	
48859	Rock	0.95	56.06	10.28	3.57	3.46	7.66	1.09	4.34	0.67	0.25	0.03	0.008	297	45	92	326	31	10	10	12.4	
48860	Rock	1.02	20.69	3.06	1.09	3.13	36.76	0.44	1.39	0.20	2.27	0.02	0.007	184	84	272	123	36	10	4	30.7	
48861	Rock	1.38	14.16	2.46	1.19	2.05	42.26	0.25	1.04	0.15	1.44	0.02	0.008	107	108	265	85	26	<5	4	34.6	
48862	Rock	0.86	31.87	5.63	2.43	6.00	22.65	0.61	2.39	0.37	0.67	0.03	0.010	176	78	160	196	28	<5	7	27.0	
48863	Rock	1.28	23.90	3.89	2.07	3.04	33.42	0.52	1.74	0.26	4.11	0.03	0.005	203	56	221	151	61	16	5	26.7	
48864	Rock	1.05	47.66	8.67	2.89	4.71	13.33	0.87	3.78	0.58	0.19	0.04	0.007	292	35	101	274	25	11	9	17.0	
48865	Rock	1.30	23.27	4.45	1.60	9.26	24.57	0.37	1.97	0.28	1.92	0.04	0.009	182	89	190	128	33	8	5	31.8	
48866	Rock	0.80	21.80	3.98	1.53	3.71	31.37	0.52	1.72	0.25	13.38	0.02	0.010	372	110	433	132	149	8	6	21.2	
48867	Rock	1.22	20.98	4.02	2.25	9.99	26.16	0.30	1.94	0.24	0.39	0.04	0.007	141	144	173	112	29	8	5	33.2	
48868	Rock	0.77	36.20	7.60	4.39	4.53	11.30	0.48	3.18	0.46	0.46	0.02	0.030	256	504	101	216	44	5	9	29.8	
48869	Rock	0.67	24.37	3.83	2.01	7.86	26.26	0.35	1.80	0.25	1.64	0.03	0.008	185	118	231	133	64	13	5	31.2	
48870	Rock	1.03	18.16	3.46	2.07	12.75	24.88	0.25	1.68	0.21	0.21	0.04	0.005	119	119	149	95	22	5	4	35.9	
48871	Rock	0.89	15.24	2.65	1.39	1.90	40.48	0.31	1.15	0.17	2.21	0.03	0.008	109	67	294	82	35	<5	3	34.1	
48872	Rock	0.73	23.08	3.77	1.33	3.67	33.12	0.49	1.64	0.24	1.15	0.02	0.007	137	44	248	127	26	<5	5	31.3	
48873	Rock	1.03	48.96	8.92	3.11	2.32	13.98	0.77	3.91	0.58	0.41	0.03	0.011	277	123	117	269	33	8	9	16.6	
48874	Rock	0.92	57.77	10.56	3.93	3.18	6.30	0.93	4.77	0.69	0.35	0.05	0.008	326	96	86	330	34	7	10	11.2	
48901	Rock	1.10	64.91	10.28	2.37	2.62	4.70	1.50	4.89	0.58	0.40	0.09	0.007	343	21	71	298	25	12	9	7.5	
48902	Rock	2.42	52.52	8.27	2.52	5.66	9.25	0.27	5.55	0.53	0.11	0.14	0.007	375	21	63	227	28	13	8	14.9	
48903	Rock	2.04	49.42	1.21	8.77	0.23	19.28	0.13	0.52	0.08	14.61	0.01	0.033	19963	<20	488	57	169	<5	3	3.2	
48904	Rock	2.13	36.25	1.46	3.35	0.23	29.90	0.19	0.64	0.09	23.67	<0.01	0.031	14010	<20	461	70	180	7	4	2.4	
48951	Rock	1.10	16.99	2.88	1.46	2.21	39.34	0.33	1.21	0.19	2.28	0.03	0.009	306	102	257	98	46	7	4	32.6	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48705	Rock	99.75	9.22	1.01
48851	Rock	99.95	0.94	0.19
48852	Rock	100.00	12.30	0.03
48853	Rock	99.85	5.38	0.29
48854	Rock	99.80	9.21	0.63
48855	Rock	99.79	10.33	0.61
48856	Rock	99.92	10.41	0.25
48857	Rock	99.87	5.85	1.90
48858	Rock	99.90	5.39	0.46
48859	Rock	99.90	4.41	1.60
48860	Rock	99.84	10.38	0.79
48861	Rock	99.68	11.45	0.75
48862	Rock	99.76	9.33	1.61
48863	Rock	99.74	8.84	1.14
48864	Rock	99.84	5.45	1.21
48865	Rock	99.63	11.04	0.68
48866	Rock	99.60	8.89	1.01
48867	Rock	99.62	11.54	1.05
48868	Rock	98.63	16.18	2.45
48869	Rock	99.67	11.25	0.78
48870	Rock	99.64	11.71	0.64
48871	Rock	99.72	10.99	0.67
48872	Rock	99.85	9.78	0.50
48873	Rock	99.69	5.80	0.52
48874	Rock	99.83	3.60	0.15
48901	Rock	99.91	2.07	0.11
48902	Rock	99.84	4.23	0.15
48903	Rock	99.81	0.30	0.65
48904	Rock	99.84	0.40	0.54
48951	Rock	99.65	11.04	0.80

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.



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# CERTIFICATE OF ANALYSIS

VAN08008821.1

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48952	Rock	0.54	30.14	5.19	1.72	5.50	24.73	0.54	2.30	0.35	0.99	0.03	0.009	340	63	214	195	42	<5	6	28.1
48953	Rock	0.85	14.78	2.27	0.97	3.93	39.15	0.34	1.06	0.15	3.66	0.03	0.004	136	41	338	79	44	<5	3	33.4
48954	Rock	1.03	18.79	3.53	1.48	2.18	36.64	0.36	1.50	0.22	1.07	0.02	0.010	142	94	224	104	28	6	4	33.7
48955	Rock	0.98	16.98	2.46	0.72	5.34	36.55	0.39	1.12	0.19	0.72	0.04	0.004	172	<20	206	104	21	<5	3	35.3
48956	Rock	0.99	30.62	6.84	2.80	6.15	19.38	0.38	3.02	0.40	0.28	0.03	0.016	265	227	146	156	32	7	7	29.2
48957	Rock	1.02	20.58	3.95	2.52	9.16	26.45	0.29	1.88	0.24	0.37	0.04	0.011	177	349	212	117	29	<5	4	33.8
48958	Rock	0.90	44.13	7.97	2.87	3.97	12.92	0.76	3.41	0.51	0.55	0.03	0.013	325	215	123	252	42	<5	8	22.3
48959	Rock	1.31	26.65	5.09	1.80	9.56	22.96	0.44	2.46	0.32	0.25	0.05	0.008	200	84	149	135	23	<5	5	30.0
48960	Rock	2.58	12.13	1.94	1.48	1.15	44.52	0.46	0.85	0.14	15.24	0.02	0.009	187	45	573	85	330	<5	5	21.8



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## CERTIFICATE OF ANALYSIS

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Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48952	Rock	99.67	10.27	0.94
48953	Rock	99.83	10.38	0.43
48954	Rock	99.59	10.62	0.61
48955	Rock	99.90	10.50	0.28
48956	Rock	99.22	12.14	0.61
48957	Rock	99.43	12.29	1.05
48958	Rock	99.55	10.72	0.90
48959	Rock	99.66	9.95	0.47
48960	Rock	99.86	7.23	0.74

**QUALITY CONTROL REPORT**

**VAN08008821.1**

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
47185	Rock	1.37	36.21	6.32	2.83	5.78	16.58	0.53	2.58	0.42	3.27	0.05	0.024	219	367	165	237	61	19	7	24.5
48541	Rock	1.95	37.01	7.37	3.27	2.35	20.46	0.64	3.10	0.46	2.34	0.03	0.019	273	141	164	209	53	9	8	22.4
48856	Rock	1.09	17.99	2.74	0.88	2.98	38.47	0.41	1.18	0.18	0.93	0.03	0.005	110	38	273	94	24	6	3	34.1
Pulp Duplicates																					
47164	Rock	1.46	24.51	3.42	1.27	3.17	33.15	0.53	1.52	0.23	6.01	0.02	0.006	164	57	291	145	77	7	5	25.9
REP 47164	QC																				
47195	Rock	1.01	57.19	9.87	3.69	2.98	8.37	0.87	4.34	0.62	0.15	0.06	0.010	307	47	85	239	26	23	10	11.6
REP 47195	QC		57.18	9.89	3.67	2.97	8.35	0.89	4.40	0.63	0.17	0.06	0.010	295	42	86	245	26	23	10	11.6
48653	Rock	1.16	68.71	7.95	3.29	0.59	6.48	0.62	2.89	0.48	4.92	0.07	0.014	453	33	104	190	50	11	8	3.8
REP 48653	QC																				
48859	Rock	0.95	56.06	10.28	3.57	3.46	7.66	1.09	4.34	0.67	0.25	0.03	0.008	297	45	92	326	31	10	10	12.4
REP 48859	QC		55.55	10.54	3.62	3.56	7.63	1.11	4.41	0.68	0.23	0.03	0.008	294	47	95	324	33	13	10	12.4
48873	Rock	1.03	48.96	8.92	3.11	2.32	13.98	0.77	3.91	0.58	0.41	0.03	0.011	277	123	117	269	33	8	9	16.6
REP 48873	QC		49.17	8.92	3.10	2.32	13.81	0.78	3.95	0.57	0.38	0.03	0.011	276	122	116	267	32	14	9	16.6
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard		57.99	14.10	7.66	3.34	6.37	3.70	2.15	0.69	0.83	0.39	0.553	489	36	401	295	32	25	25	1.9
STD SO-18	Standard		58.06	14.07	7.64	3.34	6.37	3.71	2.15	0.69	0.82	0.39	0.550	477	84	397	291	31	20	25	1.9
STD SO-18	Standard		58.13	14.10	7.62	3.34	6.39	3.69	2.15	0.69	0.82	0.39	0.545	479	35	400	300	32	26	25	1.9
STD SO-18	Standard		58.04	14.09	7.60	3.34	6.39	3.70	2.16	0.69	0.82	0.39	0.547	476	48	397	297	32	28	25	1.9
STD SO-18	Standard		58.02	14.06	7.64	3.34	6.37	3.70	2.14	0.69	0.88	0.41	0.544	481	31	401	302	32	24	25	1.9
STD SO-18	Standard		58.00	14.11	7.65	3.36	6.40	3.69	2.13	0.69	0.83	0.39	0.546	477	28	398	297	31	18	25	1.9
STD SO-18	Standard		58.16	14.08	7.56	3.35	6.38	3.73	2.15	0.69	0.82	0.39	0.551	471	36	400	295	32	27	25	1.9
STD SO-18	Standard		58.19	14.09	7.53	3.33	6.36	3.71	2.15	0.69	0.82	0.39	0.553	472	42	405	296	32	27	25	1.9





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Part 2

## QUALITY CONTROL REPORT

VAN08008821.1

Method Analyte Unit MDL		4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
		%	%	%
		0.01	0.02	0.02
47185	Rock	99.26	9.35	0.45
48541	Rock	99.59	8.92	0.51
48856	Rock	99.92	10.41	0.25
Pulp Duplicates				
47164	Rock	99.83	8.54	0.56
REP 47164	QC		8.45	0.56
47195	Rock	99.89	4.00	1.46
REP 47195	QC	99.92		
48653	Rock	99.91	0.68	0.09
REP 48653	QC		0.67	0.08
48859	Rock	99.90	4.41	1.60
REP 48859	QC	99.88		
48873	Rock	99.69	5.80	0.52
REP 48873	QC	99.73	5.81	0.51
Reference Materials				
STD CSC	Standard		3.10	4.25
STD CSC	Standard		3.07	4.24
STD CSC	Standard		3.14	4.23
STD OREAS76A	Standard		0.16	17.91
STD OREAS76A	Standard		0.16	17.40
STD OREAS76A	Standard		0.16	17.46
STD SO-18	Standard	99.85		
STD SO-18	Standard	99.86		
STD SO-18	Standard	99.93		
STD SO-18	Standard	99.82		
STD SO-18	Standard	99.85		
STD SO-18	Standard	99.85		
STD SO-18	Standard	99.92		
STD SO-18	Standard	99.89		

QUALITY CONTROL REPORT

VAN08008821.1

	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
STD SO-18	Standard	57.97	14.26	7.63	3.34	6.32	3.71	2.13	0.70	0.83	0.39	0.547	481	72	389	298	33	14	26	1.9	
STD SO-18	Standard	58.01	14.15	7.61	3.35	6.44	3.71	2.13	0.69	0.82	0.39	0.547	486	51	404	298	32	22	25	1.9	
STD SO-18	Standard	57.99	14.08	7.66	3.34	6.40	3.68	2.15	0.69	0.83	0.39	0.547	499	42	402	295	32	24	25	1.9	
STD SO-18	Standard	58.08	14.04	7.65	3.33	6.40	3.66	2.14	0.69	0.83	0.39	0.547	501	47	401	295	32	24	25	1.9	
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
Prep Wash																					
G1	Prep Blank	<0.01	66.11	16.23	3.14	1.26	3.91	3.69	3.69	0.40	0.19	0.10	0.002	1025	<20	804	126	16	25	6	1.0
G1	Prep Blank	<0.01	66.36	15.66	3.53	1.34	3.90	3.50	3.58	0.43	0.22	0.10	0.003	997	<20	765	143	18	27	7	1.1

## QUALITY CONTROL REPORT

VAN08008821.1

		4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
		%	%	%
		0.01	0.02	0.02
STD SO-18	Standard	99.89		
STD SO-18	Standard	99.92		
STD SO-18	Standard	99.80		
STD SO-18	Standard	99.83		
STD CSC Expected			2.94	4.25
STD OREAS76A Expected			0.16	18
STD SO-18 Expected				
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank		<0.02	<0.02
BLK	Blank		<0.02	<0.02
BLK	Blank		<0.02	<0.02
BLK	Blank	<0.01		
BLK	Blank	<0.01		
Prep Wash				
G1	Prep Blank	99.95	0.05	<0.02
G1	Prep Blank	99.96	0.07	<0.02



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Client: Pacific Ridge Exploration Ltd.

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 Vancouver BC V6E 3T5 Canada

Submitted By: Wayne Roberts  
 Receiving Lab: Canada-Vancouver  
 Received: October 10, 2008  
 Report Date: October 31, 2008  
 Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN08010153.1

CLIENT JOB INFORMATION

Project: Tumbler Ridge  
 Shipment ID: SHIPMENT #7  
 P.O. Number  
 Number of Samples: 39

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	39	Crush, split and pulverize rock to 200 mesh		
4A	39	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
 DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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: John Brock  
 George Norman  
 Michael Renning



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.  
 "\*\*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

Tumbler Ridge

Report Date:

October 31, 2008

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Part 1

## CERTIFICATE OF ANALYSIS

VAN08010153.1

Method	Analyte	WGHT	4A
		Wgt	P2O5
Unit		kg	%
MDL		0.01	0.01
48601	Rock	0.60	1.32
48602	Rock	0.73	2.39
48604	Rock	0.60	0.90
48605	Rock	0.59	1.85
48606	Rock	0.66	0.81
48607	Rock	0.53	1.31
48608	Rock	0.62	1.75
48609	Rock	0.54	0.72
48610	Rock	0.67	1.97
48611	Rock	0.67	0.19
48612	Rock	0.42	1.46
48613	Rock	1.46	5.67
48614	Rock	1.41	4.72
48615	Rock	1.91	21.02
48616	Rock	1.33	0.42
48617	Rock	1.87	0.60
48618	Rock	1.54	0.47
48619	Rock	1.23	2.99
48620	Rock	1.42	1.94
48621	Rock	1.04	0.65
48622	Rock	1.47	1.49
48623	Rock	1.62	0.65
48624	Rock	1.28	0.30
48553	Rock	0.89	9.47
48554	Rock	1.06	0.42
48555	Rock	0.59	0.32
48556	Rock	0.97	0.24
48557	Rock	1.03	0.21
48558	Rock	1.03	0.39
48559	Rock	1.08	17.84



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Project:

Tumbler Ridge

Report Date:

October 31, 2008

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

**VAN08010153.1**

Method	Analyte	WGHT	4A
		Wgt	P2O5
Unit		kg	%
MDL		0.01	0.01
48560	Rock	0.98	14.17
48561	Rock	1.18	5.72
48562	Rock	1.11	2.48
48563	Rock	1.08	3.15
48426	Rock	0.70	2.91
48427	Rock	0.85	4.51
48428	Rock	1.06	0.44
48429	Rock	0.84	3.30
48430	Rock	2.01	3.68

QUALITY CONTROL REPORT

VAN08010153.1

	Method	WGHT	4A
Analyte		Wgt	P2O5
	Unit	kg	%
	MDL	0.01	0.01
48557	Rock	1.03	0.21
Pulp Duplicates			
REP G1	QC		0.20
48624	Rock	1.28	0.30
REP 48624	QC		0.32
Reference Materials			
STD SO-18	Standard		0.84
STD SO-18	Standard		0.84
STD SO-18	Standard		0.84
STD SO-18	Standard		0.83
STD SO-18	Standard		0.84
STD SO-18	Standard		0.85
STD SO-18 Expected			0.83
BLK	Blank		<0.01
BLK	Blank		<0.01
BLK	Blank		<0.01
Prep Wash			
G1	Prep Blank	<0.01	
G1	Prep Blank	<0.01	0.19
G1	Prep Blank		0.20



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 Vancouver BC V6E 3T5 Canada

Submitted By: George Norman  
 Receiving Lab: Canada-Vancouver  
 Received: July 11, 2008  
 Report Date: December 02, 2008  
 Page: 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN08007462.2

**CLIENT JOB INFORMATION**

Project: Phosphate BC  
 Shipment ID:  
 P.O. Number  
 Number of Samples: 3

**SAMPLE DISPOSAL**

STOR-PLP Store After 90 days Invoice for Storage  
 STOR-RJT Store After 90 days Invoice for Storage

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:

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	3	Crush, split and pulverize rock to 200 mesh		
4A	3	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
2A C/S	3	Analysis by Leco	0.1	Completed
4B Full Suite	1	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

**ADDITIONAL COMMENTS**

Version 2: Group 4B full suite included



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.  
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Project: Phosphate BC

Report Date: December 02, 2008

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN08007462.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
GN-08-CR-01	Rock	0.48	16.28	1.92	0.86	1.29	43.45	0.26	0.71	0.18	22.84	0.01	0.022	488	48	1228	222	364	<5	29	11.8
GN-08-PH-03	Rock	2.83	10.94	0.56	0.27	0.24	49.69	0.41	0.21	0.04	27.74	0.02	0.011	136	<20	719	68	724	<5	4	9.5
GN-08-PH-09	Rock	2.15	13.15	1.62	1.06	0.79	45.82	0.57	0.66	0.13	22.62	0.02	0.009	204	23	537	134	404	<5	4	13.2



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Project: Phosphate BC

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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN08007462.2

Method		4A	2A	Leco	2A	Leco	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
GN-08-CR-01	Rock	99.93	4.29	0.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GN-08-PH-03	Rock	99.84	3.23	0.36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GN-08-PH-09	Rock	99.83	4.24	0.43	214	1	1.4	0.6	2.7	3.0	2.6	15.2	<1	567.3	0.1	5.4	100.1	285	<0.5	132.7	365.8



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Project:

Phosphate BC

Report Date:

December 02, 2008

Page:

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Part 3

# CERTIFICATE OF ANALYSIS

VAN08007462.2

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
GN-08-CR-01	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GN-08-PH-03	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GN-08-PH-09	Rock	193.0	106.5	36.92	165.4	27.82	6.71	33.02	5.03	31.01	6.87	19.19	2.54	13.17	1.74	5.0	10.8	5.8	329	18.7	17.2



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Project:

Phosphate BC

Report Date:

December 02, 2008

Page:

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Part 4

# CERTIFICATE OF ANALYSIS

# VAN08007462.2

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
GN-08-CR-01	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GN-08-PH-03	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GN-08-PH-09	Rock	13.5	1.8	<0.1	0.2	<0.5	0.07	0.2	3.3



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Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN08007462.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
Pulp Duplicates																					
GN-08-CR-01	Rock	0.48	16.28	1.92	0.86	1.29	43.45	0.26	0.71	0.18	22.84	0.01	0.022	488	48	1228	222	364	<5	29	11.8
REP GN-08-CR-01	QC																				
Reference Materials																					
STD CSC	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	58.06	14.10	7.82	3.32	6.26	3.69	2.13	0.69	0.82	0.39	0.550	491	43	397	295	32	20	25	1.9	
STD SO-18	Standard	58.01	14.03	7.84	3.31	6.38	3.66	2.11	0.69	0.83	0.39	0.543	497	45	398	296	32	23	25	1.9	
STD SO-18	Standard																				
STD SO-18	Standard																				
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
STD DS7 Expected																					
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	66.54	15.66	3.68	1.24	3.79	3.54	3.65	0.43	0.23	0.10	0.004	1072	<20	750	140	18	21	6	0.9



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Project: Phosphate BC

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Page: 1 of 1 Part 2

# QUALITY CONTROL REPORT

VAN08007462.2

Method		4A	2A	Leco	2A	Leco	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Pulp Duplicates																					
GN-08-CR-01	Rock	99.93	4.29	0.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP GN-08-CR-01	QC		4.35	0.49																	
Reference Materials																					
STD CSC	Standard		3.10	4.18																	
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard		0.19	17.59																	
STD SO-18	Standard	99.88																			
STD SO-18	Standard	99.87																			
STD SO-18	Standard				516	<1	27.4	7.2	18.0	10.2	22.7	29.2	15	415.1	7.4	10.1	16.6	209	15.7	301.0	31.9
STD SO-18	Standard				510	<1	27.3	7.1	17.9	10.4	22.3	29.2	15	415.0	7.3	10.2	16.9	208	15.7	301.7	31.8
STD CSC Expected			2.94	4.25																	
STD OREAS76A Expected			0.16	18																	
STD SO-18 Expected					514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33
STD DS7 Expected																					
BLK	Blank		<0.02	<0.02																	
BLK	Blank	<0.01																			
BLK	Blank				<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.0	<0.1
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	99.96	0.04	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Phosphate BC

Report Date: December 02, 2008

Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

VAN08007462.2

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX		
Analyte		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	
Pulp Duplicates																						
GN-08-CR-01	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP GN-08-CR-01	QC																					
Reference Materials																						
STD CSC	Standard																					
STD DS7	Standard															18.0	99.8	63.9	361	50.7	47.1	
STD DS7	Standard															16.5	102.4	59.3	356	48.9	45.1	
STD OREAS76A	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard																					
STD SO-18	Standard	12.3	27.2	3.45	14.3	2.95	0.88	2.94	0.51	3.01	0.62	1.80	0.28	1.79	0.27							
STD SO-18	Standard	12.3	27.1	3.42	14.0	2.95	0.88	2.96	0.51	3.01	0.62	1.80	0.28	1.79	0.27							
STD CSC Expected																						
STD OREAS76A Expected																						
STD SO-18 Expected		12.3	27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27							
STD DS7 Expected																20.9	109	70.6	411	56	48.2	
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank															<0.1	<0.1	<0.1	<1	<0.1	<0.5	
Prep Wash																						
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project:

Phosphate BC

Report Date:

December 02, 2008

Page:

1 of 1

Part 4

## QUALITY CONTROL REPORT

VAN08007462.2

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Pulp Duplicates									
GN-08-CR-01	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP GN-08-CR-01	QC								
Reference Materials									
STD CSC	Standard								
STD DS7	Standard	6.0	4.4	4.0	0.8	48.7	0.15	3.7	3.3
STD DS7	Standard	5.8	4.5	3.7	0.7	45.9	0.14	3.4	3.1
STD OREAS76A	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD CSC Expected									
STD OREAS76A Expected									
STD SO-18 Expected									
STD DS7 Expected		6.4	5.9	4.5	0.9	70	0.2	4.2	3.5
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash									
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



**Client:** Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Submitted By: Wayne Roberts  
 Receiving Lab: Canada-Vancouver  
 Received: July 30, 2008  
 Report Date: November 15, 2008  
 Page: 1 of 3

## CERTIFICATE OF ANALYSIS

VAN08007763.2

### CLIENT JOB INFORMATION

Project: Tumbler Ridge Phosphate  
 Shipment ID:  
 P.O. Number  
 Number of Samples: 38

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
 DISP-RJT Dispose of Reject After 90 days

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: George Norman  
 John Brock  
 Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	37	Crush, split and pulverize rock to 200 mesh		
4A	37	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed

### ADDITIONAL COMMENTS

Version 2: Revised Sample IDs (should be 48316 & 48317)





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 Vancouver BC V6E 3T5 Canada

**Project:** Tumbler Ridge Phosphate

**Report Date:** November 15, 2008

**Page:** 2 of 3 **Part** 1

**CERTIFICATE OF ANALYSIS**

**VAN08007763.2**

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
47309	Rock	0.62	13.71	2.00	0.99	1.66	43.05	0.36	0.73	0.15	17.41	0.02	0.013	183	26	660	107	181	8	4	19.6	
47310	Rock	0.69	9.19	1.60	0.63	0.79	46.82	0.32	0.63	0.09	21.94	0.01	0.013	121	25	706	54	195	<5	5	17.7	
47311	Rock	0.59	12.00	1.97	0.67	1.37	44.37	0.33	0.70	0.14	1.31	0.02	0.005	141	<20	635	72	23	10	2	36.8	
47312	Rock	1.47	12.95	1.80	0.96	1.07	44.73	0.24	0.80	0.13	0.53	0.03	0.005	73	42	466	77	26	<5	2	36.6	
47853	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
48176	Rock	1.00	9.61	0.68	0.47	5.92	42.41	0.07	0.29	0.03	0.06	0.02	<0.002	64	<20	1042	13	8	<5	<1	40.2	
48177	Rock	0.80	10.10	0.06	0.09	1.03	49.64	0.02	0.03	<0.01	0.02	<0.01	<0.002	25	<20	537	<5	4	8	<1	38.9	
48178	Rock	0.43	23.87	3.60	1.41	2.86	33.22	0.38	1.50	0.24	0.18	0.03	0.007	121	47	276	129	19	8	4	32.4	
48179	Rock	0.89	5.47	0.91	0.32	0.80	50.41	0.11	0.39	0.05	0.08	0.02	0.002	36	<20	532	31	7	<5	<1	41.3	
48208	Rock	0.51	44.13	5.99	2.17	4.31	17.70	0.69	2.42	0.40	0.19	0.03	0.011	200	83	142	193	20	12	5	21.6	
48209	Rock	0.67	11.89	1.61	0.65	1.02	46.17	0.33	0.61	0.10	21.90	0.01	0.007	83	<20	651	60	105	<5	3	15.5	
48210	Rock	0.87	12.24	1.42	0.68	1.25	46.00	0.36	0.49	0.10	10.99	0.02	0.003	99	<20	594	120	121	6	3	26.2	
48211	Rock	0.93	26.76	4.79	3.80	2.19	31.98	0.63	1.78	0.28	0.23	0.07	0.004	150	<20	135	115	20	13	5	27.4	
48212	Rock	0.86	61.65	10.04	3.75	2.28	6.69	1.02	3.83	0.64	0.21	0.03	0.008	294	40	97	240	27	19	10	9.7	
48213	Rock	1.08	10.94	1.78	0.74	1.26	45.21	0.24	0.70	0.11	19.82	0.02	0.016	112	29	630	68	216	10	4	18.8	
48214	Rock	1.14	1.10	0.21	0.05	0.63	54.47	0.03	0.07	0.01	<0.01	<0.01	<0.002	11	<20	408	<5	5	8	<1	43.3	
48316	Rock	0.64	37.03	4.27	1.77	2.74	24.81	0.40	1.57	0.25	2.25	0.03	0.009	165	61	268	104	30	14	4	24.4	
48317	Rock	0.99	8.45	1.35	0.60	0.94	47.35	0.30	0.49	0.08	20.16	0.02	0.010	131	39	723	56	177	6	3	20.0	
48357	Rock	1.02	0.96	0.06	<0.04	3.17	51.97	0.02	0.02	<0.01	<0.01	<0.01	0.002	38	<20	652	<5	6	<5	<1	43.6	
48358	Rock	0.47	13.46	1.89	0.98	1.29	43.41	0.36	0.66	0.14	8.59	0.02	0.006	88	20	518	88	68	7	2	29.0	
48402	Rock	0.94	11.72	0.23	0.28	0.57	48.55	0.02	0.09	0.02	0.03	<0.01	<0.002	92	<20	932	21	5	8	<1	38.4	
48403	Rock	0.63	12.74	1.71	0.70	1.58	44.66	0.35	0.62	0.12	18.23	0.02	0.006	90	<20	609	92	65	6	3	18.9	
48404	Rock	0.40	14.35	2.57	1.25	1.14	42.27	0.35	0.94	0.16	8.88	0.02	0.008	109	29	528	79	84	10	3	27.7	
48405	Rock	0.67	6.88	1.10	0.53	0.85	48.99	0.24	0.41	0.07	18.33	0.02	0.010	87	<20	622	55	168	7	3	22.3	
48406	Rock	0.74	13.22	2.63	1.25	0.87	43.80	0.34	0.99	0.14	20.71	0.02	0.015	92	75	640	58	182	9	4	15.7	
48407	Rock	0.75	7.17	1.13	0.70	0.91	48.07	0.24	0.43	0.07	17.10	0.02	0.015	103	<20	692	47	211	10	3	23.9	
48452	Rock	0.93	15.64	2.63	1.23	7.50	33.78	0.32	0.90	0.18	0.35	0.07	0.003	274	<20	264	114	17	9	3	37.2	
48453	Rock	1.00	14.79	0.16	0.22	2.71	43.83	0.02	0.05	<0.01	0.08	<0.01	<0.002	22	<20	494	<5	9	<5	<1	38.0	
48454	Rock	0.38	25.29	3.86	1.54	2.34	32.17	0.46	1.61	0.26	0.17	0.03	0.006	115	71	293	129	21	<5	4	32.0	
48455	Rock	0.51	14.53	2.60	1.61	2.93	38.95	0.28	1.10	0.16	0.15	0.09	0.003	117	46	335	77	13	6	2	37.5	

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.



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Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Tumbler Ridge Phosphate

Report Date: November 15, 2008

Page: 2 of 3 Part 2

## CERTIFICATE OF ANALYSIS

VAN08007763.2

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
47309	Rock	99.85	6.57	0.35
47310	Rock	99.83	6.11	0.29
47311	Rock	99.80	11.30	0.11
47312	Rock	99.87	11.00	0.08
47853	Rock	L.N.R.	L.N.R.	L.N.R.
48176	Rock	99.87	11.63	0.04
48177	Rock	99.97	11.51	<0.02
48178	Rock	99.78	9.65	0.18
48179	Rock	99.95	12.05	0.05
48208	Rock	99.67	8.29	1.10
48209	Rock	99.89	5.23	0.33
48210	Rock	99.85	7.93	0.27
48211	Rock	99.97	8.31	1.72
48212	Rock	99.91	3.39	1.38
48213	Rock	99.76	6.56	0.25
48214	Rock	99.95	13.18	0.07
48316	Rock	99.64	8.13	0.19
48317	Rock	99.87	6.63	0.30
48357	Rock	99.95	12.83	0.04
48358	Rock	99.85	8.68	0.20
48402	Rock	99.98	11.34	0.03
48403	Rock	99.78	6.16	0.25
48404	Rock	99.75	8.53	0.29
48405	Rock	99.85	7.50	0.26
48406	Rock	99.85	5.83	0.35
48407	Rock	99.88	7.37	0.28
48452	Rock	99.83	10.58	0.11
48453	Rock	99.91	11.24	0.06
48454	Rock	99.84	10.30	0.24
48455	Rock	99.95	11.58	0.13



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Project: Tumbler Ridge Phosphate

Report Date: November 15, 2008

Page: 3 of 3 Part 1

# CERTIFICATE OF ANALYSIS

VAN08007763.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48456	Rock	0.41	37.62	4.60	2.19	2.62	24.68	0.81	1.75	0.33	0.14	0.03	0.007	161	56	213	252	22	10	4	25.0
48457	Rock	0.41	10.23	1.63	0.70	0.98	45.64	0.27	0.61	0.11	3.88	0.02	0.006	126	35	664	51	33	5	3	35.7
48458	Rock	0.28	26.33	3.54	1.37	4.74	31.16	0.75	1.26	0.27	0.15	0.10	0.005	222	<20	307	217	14	<5	3	30.1
48459	Rock	0.56	22.82	2.89	1.07	2.66	35.55	0.60	1.07	0.21	0.09	0.03	0.004	125	21	327	165	12	7	3	32.8
48460	Rock	0.33	26.71	4.24	2.53	2.29	32.16	0.57	1.53	0.27	0.11	0.09	0.004	138	<20	143	131	18	11	5	29.4
48461	Rock	0.78	19.75	3.14	1.12	1.39	37.67	0.42	1.10	0.21	5.78	0.02	0.012	128	52	431	106	60	<5	3	29.1
48462	Rock	0.52	14.58	2.51	1.69	5.99	36.31	0.34	0.97	0.17	0.16	0.08	0.003	140	37	277	94	13	<5	2	37.0
48463	Rock	0.74	14.67	2.66	1.71	3.89	37.53	0.32	1.12	0.17	0.15	0.08	0.004	133	82	338	87	14	<5	3	37.5



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1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

November 15, 2008

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Part 2

## CERTIFICATE OF ANALYSIS

VAN08007763.2

Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		0.01	0.02	0.02
48456	Rock	99.87	7.52	0.44
48457	Rock	99.88	10.68	0.13
48458	Rock	99.91	8.98	0.28
48459	Rock	99.92	9.40	0.31
48460	Rock	99.93	8.76	0.58
48461	Rock	99.79	9.32	0.24
48462	Rock	99.90	11.19	0.43
48463	Rock	99.89	11.98	0.63

QUALITY CONTROL REPORT

VAN08007763.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48460	Rock	0.33	26.71	4.24	2.53	2.29	32.16	0.57	1.53	0.27	0.11	0.09	0.004	138	<20	143	131	18	11	5	29.4
Pulp Duplicates																					
48213	Rock	1.08	10.94	1.78	0.74	1.26	45.21	0.24	0.70	0.11	19.82	0.02	0.016	112	29	630	68	216	10	4	18.8
REP 48213	QC		10.98	1.74	0.75	1.24	45.21	0.24	0.69	0.11	19.81	0.02	0.015	114	20	630	67	216	9	4	18.8
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	58.08	14.05	7.78	3.32	6.39	3.72	2.00	0.69	0.84	0.39	0.539	488	33	398	291	31	23	25	1.9	
STD SO-18	Standard	57.94	14.09	7.79	3.32	6.39	3.71	2.13	0.69	0.83	0.39	0.548	494	28	403	298	32	26	25	1.9	
STD SO-18	Standard	57.92	14.20	7.72	3.32	6.37	3.75	2.09	0.69	0.84	0.38	0.541	484	62	402	301	32	30	25	1.9	
STD SO-18	Standard	58.10	14.11	7.67	3.32	6.32	3.79	2.11	0.69	0.83	0.39	0.549	483	49	401	300	31	17	25	1.9	
STD SO-18	Standard	58.10	14.12	7.56	3.35	6.38	3.70	2.16	0.69	0.82	0.39	0.547	485	50	400	293	31	32	25	1.9	
STD SO-18	Standard	58.14	14.12	7.57	3.34	6.39	3.68	2.14	0.69	0.83	0.39	0.550	481	51	403	295	32	26	25	1.9	
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
Prep Wash																					
G1	Prep Blank	<0.01	66.62	15.76	3.75	1.28	3.87	3.50	3.72	0.42	0.22	0.10	0.002	1593	<20	772	155	17	24	6	0.4
G1	Prep Blank	<0.01	66.26	15.73	3.78	1.25	3.77	3.49	3.69	0.42	0.21	0.09	0.003	1134	<20	777	139	18	24	6	1.0



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**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

November 15, 2008

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Part 2

## QUALITY CONTROL REPORT

VAN08007763.2

Method Analyte Unit MDL		4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
		%	%	%
		0.01	0.02	0.02
48460	Rock	99.93	8.76	0.58
Pulp Duplicates				
48213	Rock	99.76	6.56	0.25
REP 48213	QC	99.72		
Reference Materials				
STD CSC	Standard		3.25	4.19
STD CSC	Standard		3.10	4.41
STD OREAS76A	Standard		0.17	17.96
STD OREAS76A	Standard		0.18	18.03
STD SO-18	Standard	99.86		
STD SO-18	Standard	99.89		
STD SO-18	Standard	99.89		
STD SO-18	Standard	99.93		
STD SO-18	Standard	99.87		
STD SO-18	Standard	99.90		
STD CSC Expected			2.94	4.25
STD OREAS76A Expected			0.16	18
STD SO-18 Expected				
BLK	Blank	<0.01		
BLK	Blank	<0.01		
BLK	Blank		<0.02	<0.02
BLK	Blank		<0.02	<0.02
BLK	Blank	<0.01		
Prep Wash				
G1	Prep Blank	99.93	0.06	0.07
G1	Prep Blank	99.95	0.05	<0.02



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

July 30, 2008

Report Date:

November 29, 2008

Page:

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## CERTIFICATE OF ANALYSIS

VAN08007763.3

### CLIENT JOB INFORMATION

Project: Tumbler Ridge Phosphate  
Shipment ID:  
P.O. Number  
Number of Samples: 38

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	38	Crush, split and pulverize rock to 200 mesh		
4A	38	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	5	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

### ADDITIONAL COMMENTS

Version 3: Group 4B full suite included



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.

“\*\*” asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.





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Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

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Part 1

CERTIFICATE OF ANALYSIS

VAN08007763.3

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
47309	Rock	0.62	13.71	2.00	0.99	1.66	43.05	0.36	0.73	0.15	17.41	0.02	0.013	183	26	660	107	181	8	4	19.6	
47310	Rock	0.69	9.19	1.60	0.63	0.79	46.82	0.32	0.63	0.09	21.94	0.01	0.013	121	25	706	54	195	<5	5	17.7	
47311	Rock	0.59	12.00	1.97	0.67	1.37	44.37	0.33	0.70	0.14	1.31	0.02	0.005	141	<20	635	72	23	10	2	36.8	
47312	Rock	1.47	12.95	1.80	0.96	1.07	44.73	0.24	0.80	0.13	0.53	0.03	0.005	73	42	466	77	26	<5	2	36.6	
47853	Rock		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
48176	Rock	1.00	9.61	0.68	0.47	5.92	42.41	0.07	0.29	0.03	0.06	0.02	<0.002	64	<20	1042	13	8	<5	<1	40.2	
48177	Rock	0.80	10.10	0.06	0.09	1.03	49.64	0.02	0.03	<0.01	0.02	<0.01	<0.002	25	<20	537	<5	4	8	<1	38.9	
48178	Rock	0.43	23.87	3.60	1.41	2.86	33.22	0.38	1.50	0.24	0.18	0.03	0.007	121	47	276	129	19	8	4	32.4	
48179	Rock	0.89	5.47	0.91	0.32	0.80	50.41	0.11	0.39	0.05	0.08	0.02	0.002	36	<20	532	31	7	<5	<1	41.3	
48208	Rock	0.51	44.13	5.99	2.17	4.31	17.70	0.69	2.42	0.40	0.19	0.03	0.011	200	83	142	193	20	12	5	21.6	
48209	Rock	0.67	11.89	1.61	0.65	1.02	46.17	0.33	0.61	0.10	21.90	0.01	0.007	83	<20	651	60	105	<5	3	15.5	
48210	Rock	0.87	12.24	1.42	0.68	1.25	46.00	0.36	0.49	0.10	10.99	0.02	0.003	99	<20	594	120	121	6	3	26.2	
48211	Rock	0.93	26.76	4.79	3.80	2.19	31.98	0.63	1.78	0.28	0.23	0.07	0.004	150	<20	135	115	20	13	5	27.4	
48212	Rock	0.86	61.65	10.04	3.75	2.28	6.69	1.02	3.83	0.64	0.21	0.03	0.008	294	40	97	240	27	19	10	9.7	
48213	Rock	1.08	10.94	1.78	0.74	1.26	45.21	0.24	0.70	0.11	19.82	0.02	0.016	112	29	630	68	216	10	4	18.8	
48214	Rock	1.14	1.10	0.21	0.05	0.63	54.47	0.03	0.07	0.01	<0.01	<0.01	<0.002	11	<20	408	<5	5	8	<1	43.3	
48316	Rock	0.64	37.03	4.27	1.77	2.74	24.81	0.40	1.57	0.25	2.25	0.03	0.009	165	61	268	104	30	14	4	24.4	
48317	Rock	0.99	8.45	1.35	0.60	0.94	47.35	0.30	0.49	0.08	20.16	0.02	0.010	131	39	723	56	177	6	3	20.0	
48357	Rock	1.02	0.96	0.06	<0.04	3.17	51.97	0.02	0.02	<0.01	<0.01	<0.01	0.002	38	<20	652	<5	6	<5	<1	43.6	
48358	Rock	0.47	13.46	1.89	0.98	1.29	43.41	0.36	0.66	0.14	8.59	0.02	0.006	88	20	518	88	68	7	2	29.0	
48402	Rock	0.94	11.72	0.23	0.28	0.57	48.55	0.02	0.09	0.02	0.03	<0.01	<0.002	92	<20	932	21	5	8	<1	38.4	
48403	Rock	0.63	12.74	1.71	0.70	1.58	44.66	0.35	0.62	0.12	18.23	0.02	0.006	90	<20	609	92	65	6	3	18.9	
48404	Rock	0.40	14.35	2.57	1.25	1.14	42.27	0.35	0.94	0.16	8.88	0.02	0.008	109	29	528	79	84	10	3	27.7	
48405	Rock	0.67	6.88	1.10	0.53	0.85	48.99	0.24	0.41	0.07	18.33	0.02	0.010	87	<20	622	55	168	7	3	22.3	
48406	Rock	0.74	13.22	2.63	1.25	0.87	43.80	0.34	0.99	0.14	20.71	0.02	0.015	92	75	640	58	182	9	4	15.7	
48407	Rock	0.75	7.17	1.13	0.70	0.91	48.07	0.24	0.43	0.07	17.10	0.02	0.015	103	<20	692	47	211	10	3	23.9	
48452	Rock	0.93	15.64	2.63	1.23	7.50	33.78	0.32	0.90	0.18	0.35	0.07	0.003	274	<20	264	114	17	9	3	37.2	
48453	Rock	1.00	14.79	0.16	0.22	2.71	43.83	0.02	0.05	<0.01	0.08	<0.01	<0.002	22	<20	494	<5	9	<5	<1	38.0	
48454	Rock	0.38	25.29	3.86	1.54	2.34	32.17	0.46	1.61	0.26	0.17	0.03	0.006	115	71	293	129	21	<5	4	32.0	
48455	Rock	0.51	14.53	2.60	1.61	2.93	38.95	0.28	1.10	0.16	0.15	0.09	0.003	117	46	335	77	13	6	2	37.5	



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Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

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Part 2

CERTIFICATE OF ANALYSIS

VAN08007763.3

Method	Analyte	4A 2A Leco 2A Leco		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1
47309	Rock	99.85	6.57	0.35	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47310	Rock	99.83	6.11	0.29	151	<1	1.2	1.0	2.9	1.1	2.2	19.8	<1	725.4	0.1	3.2	78.8	390	<0.5	56.0	197.2
47311	Rock	99.80	11.30	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47312	Rock	99.87	11.00	0.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47853	Rock	L.N.R.	<0.02	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48176	Rock	99.87	11.63	0.04	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48177	Rock	99.97	11.51	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48178	Rock	99.78	9.65	0.18	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48179	Rock	99.95	12.05	0.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48208	Rock	99.67	8.29	1.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48209	Rock	99.89	5.23	0.33	97	<1	1.7	1.0	3.1	1.3	2.2	18.8	<1	664.9	0.1	2.8	77.3	380	<0.5	62.9	103.6
48210	Rock	99.85	7.93	0.27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48211	Rock	99.97	8.31	1.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48212	Rock	99.91	3.39	1.38	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48213	Rock	99.76	6.56	0.25	125	<1	1.4	1.0	2.8	1.6	2.4	20.3	<1	650.9	0.1	3.6	67.3	337	<0.5	73.8	214.3
48214	Rock	99.95	13.18	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48316	Rock	99.64	8.13	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48317	Rock	99.87	6.63	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48357	Rock	99.95	12.83	0.04	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48358	Rock	99.85	8.68	0.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48402	Rock	99.98	11.34	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48403	Rock	99.78	6.16	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48404	Rock	99.75	8.53	0.29	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48405	Rock	99.85	7.50	0.26	93	<1	0.4	0.7	1.8	1.1	1.5	12.4	<1	648.4	0.1	3.0	76.3	283	<0.5	52.3	169.0
48406	Rock	99.85	5.83	0.35	101	<1	3.1	1.5	4.2	1.6	2.8	27.8	2	661.7	0.2	3.8	69.4	401	<0.5	65.1	175.2
48407	Rock	99.88	7.37	0.28	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48452	Rock	99.83	10.58	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48453	Rock	99.91	11.24	0.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48454	Rock	99.84	10.30	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48455	Rock	99.95	11.58	0.13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

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Part 3

CERTIFICATE OF ANALYSIS

VAN08007763.3

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
47309	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47310	Rock	98.9	58.5	20.87	88.1	16.00	3.84	18.90	2.97	17.26	3.74	10.69	1.47	7.79	1.03	2.3	15.8	4.3	284	25.3	8.3
47311	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47312	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47853	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48176	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48177	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48178	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48179	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48208	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48209	Rock	53.8	47.1	11.95	48.6	9.20	2.14	10.52	1.67	9.92	2.13	5.99	0.83	4.49	0.60	2.6	16.5	2.5	284	24.1	6.5
48210	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48211	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48212	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48213	Rock	110.8	62.6	23.24	98.9	17.65	4.18	20.55	3.25	18.71	4.03	11.65	1.59	8.35	1.12	4.8	18.2	4.2	891	25.2	7.9
48214	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48316	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48317	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48357	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48358	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48402	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48403	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48404	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48405	Rock	87.3	53.1	18.26	79.1	13.88	3.34	16.34	2.54	14.72	3.20	9.10	1.22	6.41	0.86	1.6	7.2	2.9	260	14.4	4.6
48406	Rock	93.3	66.3	20.92	92.4	16.21	3.78	18.02	2.85	16.29	3.42	9.85	1.36	7.25	0.94	10.2	21.3	4.4	216	41.2	13.9
48407	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48452	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48453	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48454	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48455	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

Page:

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Part 4

## CERTIFICATE OF ANALYSIS

VAN08007763.3

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
47309	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47310	Rock	10.8	3.7	<0.1	0.2	<0.5	0.05	<0.1	11.0
47311	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47312	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47853	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48176	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48177	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48178	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48179	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48208	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48209	Rock	28.9	5.7	<0.1	0.3	<0.5	0.06	<0.1	11.9
48210	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48211	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48212	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48213	Rock	17.4	4.0	<0.1	0.2	<0.5	0.05	<0.1	11.5
48214	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48316	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48317	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48357	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48358	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48402	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48403	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48404	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48405	Rock	5.3	3.1	<0.1	0.1	<0.5	0.03	<0.1	7.7
48406	Rock	3.5	10.7	<0.1	0.3	<0.5	0.05	<0.1	12.9
48407	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48452	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48453	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48454	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48455	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Tumbler Ridge Phosphate

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08007763.3

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48456	Rock	0.41	37.62	4.60	2.19	2.62	24.68	0.81	1.75	0.33	0.14	0.03	0.007	161	56	213	252	22	10	4	25.0
48457	Rock	0.41	10.23	1.63	0.70	0.98	45.64	0.27	0.61	0.11	3.88	0.02	0.006	126	35	664	51	33	5	3	35.7
48458	Rock	0.28	26.33	3.54	1.37	4.74	31.16	0.75	1.26	0.27	0.15	0.10	0.005	222	<20	307	217	14	<5	3	30.1
48459	Rock	0.56	22.82	2.89	1.07	2.66	35.55	0.60	1.07	0.21	0.09	0.03	0.004	125	21	327	165	12	7	3	32.8
48460	Rock	0.33	26.71	4.24	2.53	2.29	32.16	0.57	1.53	0.27	0.11	0.09	0.004	138	<20	143	131	18	11	5	29.4
48461	Rock	0.78	19.75	3.14	1.12	1.39	37.67	0.42	1.10	0.21	5.78	0.02	0.012	128	52	431	106	60	<5	3	29.1
48462	Rock	0.52	14.58	2.51	1.69	5.99	36.31	0.34	0.97	0.17	0.16	0.08	0.003	140	37	277	94	13	<5	2	37.0
48463	Rock	0.74	14.67	2.66	1.71	3.89	37.53	0.32	1.12	0.17	0.15	0.08	0.004	133	82	338	87	14	<5	3	37.5



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Project: Tumbler Ridge Phosphate

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08007763.3

Method	Analyte	4A 2A Leco 2A Leco			4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1
48456	Rock	99.87	7.52	0.44	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48457	Rock	99.88	10.68	0.13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48458	Rock	99.91	8.98	0.28	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48459	Rock	99.92	9.40	0.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48460	Rock	99.93	8.76	0.58	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48461	Rock	99.79	9.32	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48462	Rock	99.90	11.19	0.43	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48463	Rock	99.89	11.98	0.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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 Vancouver BC V6E 3T5 Canada

Project: Tumbler Ridge Phosphate

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08007763.3

Method	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48456	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48457	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48458	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48459	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48460	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48461	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48462	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48463	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 4

## CERTIFICATE OF ANALYSIS

**VAN08007763.3**

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48456	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48457	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48458	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48459	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48460	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48461	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48462	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48463	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Part 1

QUALITY CONTROL REPORT

VAN08007763.3

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48460	Rock	0.33	26.71	4.24	2.53	2.29	32.16	0.57	1.53	0.27	0.11	0.09	0.004	138	<20	143	131	18	11	5	29.4
Pulp Duplicates																					
47853	Rock		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
REP 47853	QC																				
48213	Rock	1.08	10.94	1.78	0.74	1.26	45.21	0.24	0.70	0.11	19.82	0.02	0.016	112	29	630	68	216	10	4	18.8
REP 48213	QC		10.98	1.74	0.75	1.24	45.21	0.24	0.69	0.11	19.81	0.02	0.015	114	20	630	67	216	9	4	18.8
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard		58.08	14.05	7.78	3.32	6.39	3.72	2.00	0.69	0.84	0.39	0.539	488	33	398	291	31	23	25	1.9
STD SO-18	Standard		57.94	14.09	7.79	3.32	6.39	3.71	2.13	0.69	0.83	0.39	0.548	494	28	403	298	32	26	25	1.9
STD SO-18	Standard		57.92	14.20	7.72	3.32	6.37	3.75	2.09	0.69	0.84	0.38	0.541	484	62	402	301	32	30	25	1.9
STD SO-18	Standard		58.10	14.11	7.67	3.32	6.32	3.79	2.11	0.69	0.83	0.39	0.549	483	49	401	300	31	17	25	1.9
STD SO-18	Standard		58.10	14.12	7.56	3.35	6.38	3.70	2.16	0.69	0.82	0.39	0.547	485	50	400	293	31	32	25	1.9
STD SO-18	Standard		58.14	14.12	7.57	3.34	6.39	3.68	2.14	0.69	0.83	0.39	0.550	481	51	403	295	32	26	25	1.9
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected			58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25	
STD DS7 Expected																					



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QUALITY CONTROL REPORT

VAN08007763.3

Method	Analyte	4A 2A Leco 2A Leco			4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit	MDL	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1
48460	Rock	99.93	8.76	0.58	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates																					
47853	Rock	L.N.R.	<0.02	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 47853		QC																			
48213	Rock	99.76	6.56	0.25	125	<1	1.4	1.0	2.8	1.6	2.4	20.3	<1	650.9	0.1	3.6	67.3	337	<0.5	73.8	214.3
REP 48213		QC																			
Reference Materials																					
STD CSC	Standard		3.25	4.19																	
STD CSC	Standard		3.10	4.41																	
STD CSC	Standard		3.12	4.06																	
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard		0.17	17.96																	
STD OREAS76A	Standard		0.18	18.03																	
STD OREAS76A	Standard		0.15	17.14																	
STD SO-18	Standard	99.86																			
STD SO-18	Standard	99.89																			
STD SO-18	Standard	99.89																			
STD SO-18	Standard	99.93																			
STD SO-18	Standard	99.87																			
STD SO-18	Standard	99.90																			
STD SO-18	Standard				516	<1	27.4	7.2	18.0	10.2	22.7	29.2	15	415.1	7.4	10.1	16.6	209	15.7	301.0	31.9
STD SO-18	Standard				510	<1	27.3	7.1	17.9	10.4	22.3	29.2	15	415.0	7.3	10.2	16.9	208	15.7	301.7	31.8
STD SO-18	Standard																				
STD SO-18	Standard																				
STD CSC Expected			2.94	4.25																	
STD OREAS76A Expected			0.16	18																	
STD SO-18 Expected					514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33
STD DS7 Expected																					

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.



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QUALITY CONTROL REPORT

VAN08007763.3

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48460	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates																					
47853	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 47853	QC																				
48213	Rock	110.8	62.6	23.24	98.9	17.65	4.18	20.55	3.25	18.71	4.03	11.65	1.59	8.35	1.12	4.8	18.2	4.2	891	25.2	7.9
REP 48213	QC																				
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD DS7	Standard															17.4	93.2	61.0	347	46.6	50.9
STD DS7	Standard															17.3	106.0	63.6	366	45.0	51.7
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard	12.3	27.2	3.45	14.3	2.95	0.88	2.94	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD SO-18	Standard	12.3	27.1	3.42	14.0	2.95	0.88	2.96	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD SO-18	Standard																				
STD SO-18	Standard																				
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		12.3	27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27						
STD DS7 Expected																20.9	109	70.6	411	56	48.2

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Part 4

## QUALITY CONTROL REPORT

VAN08007763.3

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
48460	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates									
47853	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 47853	QC								
48213	Rock	17.4	4.0	<0.1	0.2	<0.5	0.05	<0.1	11.5
REP 48213	QC								
Reference Materials									
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD DS7	Standard	6.0	4.5	4.0	0.7	41.5	0.16	3.5	3.5
STD DS7	Standard	6.3	4.5	4.4	0.7	49.5	0.19	4.1	3.1
STD OREAS76A	Standard								
STD OREAS76A	Standard								
STD OREAS76A	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD CSC Expected									
STD OREAS76A Expected									
STD SO-18 Expected									
STD DS7 Expected		6.4	5.9	4.5	0.9	70	0.2	4.2	3.5



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QUALITY CONTROL REPORT

VAN08007763.3

		WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A		
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
BLK	Blank	<0.01	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.01	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
G1	Prep Blank	<0.01	66.62	15.76	3.75	1.28	3.87	3.50	3.72	0.42	0.22	0.10	0.002	1593	<20	772	155	17	24	6	0.4	
G1	Prep Blank	<0.01	66.26	15.73	3.78	1.25	3.77	3.49	3.69	0.42	0.21	0.09	0.003	1134	<20	777	139	18	24	6	1.0	



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Part 2

## QUALITY CONTROL REPORT

VAN08007763.3

		4A	2A	Leco	2A	Leco	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B																																																																	
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y																																																																	
		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm																																																																	
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1																																																																	
BLK	Blank	<0.01																																																																																				
BLK	Blank	<0.01																																																																																				
BLK	Blank	<0.02		<0.02																																																																																		
BLK	Blank	<0.02		<0.02																																																																																		
BLK	Blank	<0.01																																																																																				
BLK	Blank	<1					<1					<0.2					<0.1					<0.5					<0.1					<0.1					<0.1					<0.1					<0.5					<0.1					<0.2					<0.1					<8					<0.5					2.0					<0.1				
BLK	Blank	<0.02		<0.02																																																																																		
BLK	Blank																																																																																					
BLK	Blank																																																																																					
Prep Wash																																																																																						
G1	Prep Blank	99.93	0.06	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.																																																																
G1	Prep Blank	99.95	0.05	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.																																																																



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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street

Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

Page:

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Part 3

## QUALITY CONTROL REPORT

VAN08007763.3

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX		
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank																					
BLK	Blank																					
BLK	Blank															<0.1	<0.1	<0.1	<1	<0.1	<0.5	
Prep Wash																						
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

Tumbler Ridge Phosphate

Report Date:

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Part 4

## QUALITY CONTROL REPORT

VAN08007763.3

		1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash									
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Client:

**Pacific Ridge Exploration Ltd.**

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 05, 2008

Report Date:

November 29, 2008

Page:

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## CERTIFICATE OF ANALYSIS

VAN08007984.2

### CLIENT JOB INFORMATION

Project: Fly Camp  
Shipment ID:  
P.O. Number  
Number of Samples: 149

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	149	Crush, split and pulverize rock to 200 mesh		
4A	149	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	5	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

### ADDITIONAL COMMENTS

Version 2: Group 4B full suite included



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.

\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Vancouver BC V6E 3T5 Canada

Project:

Fly Camp

Report Date:

November 29, 2008

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Part 1

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
47313	Rock	0.81	30.83	3.79	0.82	3.96	30.06	0.78	1.49	0.28	0.11	0.03	0.005	135	28	262	243	18	<5	3	27.6
47314	Rock	0.94	12.22	1.95	0.67	3.48	42.43	0.23	0.75	0.12	0.13	0.03	0.003	117	40	411	69	10	<5	2	37.7
47315	Rock	0.51	15.51	2.87	1.57	1.72	40.29	0.35	1.13	0.18	0.14	0.05	0.003	112	52	333	86	14	<5	3	36.0
47316	Rock	0.65	11.80	1.46	0.25	1.92	45.62	0.35	0.50	0.10	0.06	0.02	0.002	52	<20	474	84	8	<5	1	37.8
47317	Rock	0.62	30.43	3.48	0.77	3.75	30.52	0.63	1.34	0.25	0.09	0.03	0.004	125	27	319	192	15	<5	3	28.5
47318	Rock	0.84	5.01	0.63	0.38	7.56	43.36	0.02	0.18	0.03	<0.01	0.02	<0.002	21	<20	335	9	<3	<5	<1	42.6
47319	Rock	1.05	0.50	0.07	<0.04	0.64	54.66	0.01	0.02	<0.01	<0.01	<0.01	<0.002	14	<20	557	<5	<3	<5	<1	44.0
47320	Rock	0.64	49.90	0.34	0.53	0.44	26.97	0.04	0.11	<0.01	0.05	<0.01	<0.002	<5	<20	189	<5	5	13	<1	21.5
47321	Rock	0.65	11.27	2.45	0.77	3.41	42.33	0.04	0.79	0.10	0.02	<0.01	0.003	39	<20	497	18	7	13	2	38.6
47322	Rock	0.79	8.17	1.17	0.39	1.89	47.71	0.05	0.37	0.05	<0.01	<0.01	0.002	24	<20	488	8	6	6	<1	40.1
47323	Rock	0.68	44.22	5.91	1.80	4.25	18.51	0.72	2.74	0.43	0.25	0.03	0.007	186	61	148	350	26	15	5	20.9
47324	Rock	0.78	4.19	0.72	0.28	0.92	51.81	0.11	0.30	0.05	0.10	0.02	<0.002	31	<20	390	25	6	11	<1	41.4
47326	Rock	0.52	18.27	2.61	0.95	2.24	38.68	0.40	1.09	0.18	0.19	0.03	0.004	106	69	326	108	19	19	3	35.1
47327	Rock	0.94	81.34	1.01	1.38	0.18	8.13	0.06	0.32	0.07	5.55	<0.01	0.026	2226	<20	103	42	69	7	2	1.6
47328	Rock	1.11	12.51	2.05	0.72	1.54	44.20	0.03	1.15	0.08	0.03	0.01	<0.002	39	<20	405	13	5	9	2	37.6
47329	Rock	0.91	21.08	2.04	0.50	4.13	36.29	0.49	0.98	0.15	7.93	0.03	0.004	435	50	526	152	125	<5	3	26.1
47330	Rock	0.78	44.20	8.39	2.62	1.91	20.09	0.18	3.88	0.32	0.21	0.08	0.006	270	<20	169	207	12	17	7	18.0
47331	Rock	0.80	7.50	0.97	0.34	1.86	48.14	0.19	0.43	0.07	2.19	0.02	<0.002	200	<20	383	58	22	8	1	38.1
47332	Rock	0.82	24.36	2.66	0.90	4.73	33.28	0.51	1.11	0.21	0.44	0.04	0.003	113	<20	342	223	21	11	2	31.6
47333	Rock	0.90	16.29	1.49	0.60	2.05	42.13	0.30	0.71	0.10	6.14	0.03	0.005	77	52	550	110	121	8	3	29.9
47334	Rock	0.56	10.35	1.03	0.39	1.99	45.15	0.41	0.45	0.08	16.96	0.02	0.004	69	54	634	74	199	<5	3	22.9
47335	Rock	0.48	9.64	0.91	0.43	1.04	46.76	0.41	0.44	0.06	15.97	0.02	0.004	179	24	681	63	280	8	3	24.1
48102	Rock	0.70	32.68	5.32	2.09	3.04	25.42	0.59	1.95	0.35	0.29	0.03	0.011	221	154	288	178	30	16	6	27.6
48103	Rock	0.88	35.40	6.20	1.75	2.48	23.21	0.64	2.38	0.40	0.42	0.03	0.021	288	141	249	187	37	14	7	26.2
48104	Rock	1.12	36.62	6.64	2.17	2.49	21.51	0.70	2.40	0.45	0.21	0.02	0.011	209	196	264	200	34	<5	7	26.0
48105	Rock	0.80	20.55	3.63	1.30	2.34	35.08	0.42	1.30	0.23	0.28	0.02	0.008	130	134	480	114	26	8	4	34.2
48106	Rock	1.08	18.12	1.16	0.53	1.01	40.38	0.23	0.42	0.07	4.36	0.02	0.004	2296	26	633	44	35	<5	3	33.1
48107	Rock	1.17	32.40	5.25	1.60	2.56	26.38	0.66	2.01	0.35	0.44	0.02	0.017	328	118	309	175	31	11	6	27.7
48108	Rock	0.70	29.67	4.84	1.57	2.43	26.18	0.48	1.88	0.31	0.42	0.02	0.017	157	211	260	149	29	9	5	31.3
48109	Rock	1.02	14.24	0.34	0.85	0.35	47.25	0.01	0.12	0.02	<0.01	<0.01	0.002	11	28	287	<5	6	6	<1	36.7

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.



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1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Project:

Fly Camp

Report Date:

November 29, 2008

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Part 2

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4A 2A Leco 2A Leco		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
47313	Rock	99.88	8.36	0.35	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47314	Rock	99.83	11.19	0.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47315	Rock	99.89	11.00	0.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47316	Rock	99.95	11.14	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47317	Rock	99.89	7.78	0.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47318	Rock	99.82	12.15	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47319	Rock	99.95	12.75	0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47320	Rock	99.94	6.34	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47321	Rock	99.91	10.88	0.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47322	Rock	99.95	11.79	0.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47323	Rock	99.84	6.80	0.97	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47324	Rock	99.94	11.87	0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47326	Rock	99.79	10.94	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47327	Rock	99.93	0.33	0.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47328	Rock	99.92	10.87	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47329	Rock	99.90	8.26	0.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47330	Rock	99.92	4.61	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47331	Rock	99.93	11.26	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47332	Rock	99.88	9.13	0.28	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47333	Rock	99.88	9.21	0.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47334	Rock	99.84	7.77	0.36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47335	Rock	99.90	8.23	0.43	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48102	Rock	99.42	11.00	1.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48103	Rock	99.24	11.72	1.37	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48104	Rock	99.32	11.68	1.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48105	Rock	99.51	11.96	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48106	Rock	99.79	9.73	0.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48107	Rock	99.51	11.03	1.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48108	Rock	99.18	14.59	1.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48109	Rock	99.95	10.76	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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 Vancouver BC V6E 3T5 Canada

Project:

Fly Camp

Report Date:

November 29, 2008

Page:

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Part 3

# CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
47313	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47314	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47315	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47316	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47317	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47318	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47319	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47320	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47321	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47322	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47323	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47324	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47326	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47327	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47328	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47329	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47330	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47331	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47332	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47333	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47334	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47335	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48102	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48103	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48104	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48105	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48106	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48107	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48108	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48109	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	



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Project:

Fly Camp

Report Date:

November 29, 2008

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Part 4

# CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
47313	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47314	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47315	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47316	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47317	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47318	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47319	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47320	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47321	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47322	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47323	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47324	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47326	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47327	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47328	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47329	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47330	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47331	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47332	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47333	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47334	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47335	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48102	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48103	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48104	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48105	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48106	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48107	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48108	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48109	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Fly Camp

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
48110	Rock	1.43	9.49	1.14	0.51	3.49	45.17	0.14	0.47	0.07	0.20	0.03	<0.002	81	28	420	38	10	9	1	39.1	
48111	Rock	0.48	10.41	1.42	0.83	0.69	46.14	0.44	0.48	0.09	12.06	0.02	0.005	120	39	952	74	131	<5	6	27.1	
48112	Rock	0.38	16.92	2.65	0.93	1.99	39.96	0.42	0.96	0.19	0.17	0.03	0.004	123	52	697	101	16	8	3	35.4	
48113	Rock	0.44	19.31	3.25	1.24	1.23	40.07	0.56	0.95	0.21	0.13	0.06	<0.002	285	<20	250	93	12	13	3	32.8	
48114	Rock	0.47	22.64	3.75	1.19	2.74	33.35	0.37	1.68	0.24	1.76	0.04	0.012	859	80	322	92	53	<5	4	31.9	
48115	Rock	0.71	13.75	1.24	0.96	1.01	45.23	0.48	0.47	0.09	15.94	0.02	0.003	110	24	1174	107	112	6	3	20.5	
48116	Rock	0.83	4.00	0.64	0.21	0.57	52.47	0.07	0.28	0.04	0.05	0.02	<0.002	19	<20	484	23	7	7	<1	41.5	
48117	Rock	0.60	4.80	0.63	0.29	0.61	51.83	0.11	0.29	0.04	0.20	0.02	<0.002	28	<20	452	28	6	<5	<1	41.0	
48118	Rock	0.59	11.62	1.27	0.42	2.15	45.27	0.30	0.57	0.09	10.08	0.05	0.003	60	20	742	76	106	<5	3	28.0	
48119	Rock	0.83	0.19	0.03	<0.04	0.64	56.88	0.03	0.02	<0.01	<0.01	<0.01	<0.002	<5	<20	223	<5	7	<5	<1	42.1	
48120	Rock	0.40	15.83	2.12	0.68	1.30	42.96	0.69	0.93	0.17	23.18	0.01	0.010	233	43	874	157	625	<5	5	11.6	
48121	Rock	1.00	25.89	4.24	1.29	1.95	33.62	0.61	1.64	0.31	0.14	0.02	0.006	142	52	312	177	20	9	4	29.9	
48122	Rock	0.84	22.21	3.30	1.34	1.86	35.94	0.51	1.38	0.25	0.10	0.02	0.010	130	146	361	152	26	13	4	32.5	
48123	Rock	0.85	52.84	10.48	3.57	3.10	9.66	0.88	4.35	0.63	0.87	0.04	0.011	531	66	113	254	48	16	11	13.2	
48124	Rock	0.42	54.68	10.07	3.56	2.87	8.86	0.94	4.33	0.64	0.22	0.04	0.010	284	52	87	277	30	15	10	13.5	
48126	Rock	0.62	24.44	2.72	1.40	1.44	37.39	0.61	1.25	0.21	17.19	0.02	0.008	135	<20	485	219	243	14	5	13.2	
48127	Rock	0.50	45.31	6.04	1.72	3.15	19.54	0.84	2.55	0.46	4.04	0.03	0.010	216	55	215	396	110	8	7	16.1	
48128	Rock	0.77	24.49	3.38	1.32	4.36	31.90	0.49	1.47	0.23	8.45	0.02	0.009	135	43	315	186	103	<5	4	23.6	
48129	Rock	1.36	15.47	2.02	0.67	4.00	39.65	0.35	0.89	0.14	5.15	0.02	0.004	105	<20	330	101	60	5	3	31.4	
48130	Rock	0.60	63.13	11.41	3.78	1.73	5.05	1.05	4.83	0.70	0.19	0.06	0.010	372	45	83	299	29	18	11	7.8	
48131	Rock	0.71	27.39	2.81	0.87	3.88	31.86	0.39	1.29	0.21	0.26	0.04	0.005	101	38	325	206	15	9	3	30.8	
48132	Rock	0.80	35.10	5.06	1.77	2.24	25.39	0.64	2.20	0.35	0.52	0.03	0.009	159	64	197	216	44	9	5	26.4	
48133	Rock	0.73	4.20	0.72	0.31	1.73	50.05	0.11	0.30	0.05	0.62	0.03	0.002	44	29	256	32	10	<5	<1	41.7	
48134	Rock	1.06	15.25	2.06	0.81	1.69	41.55	0.38	0.91	0.15	14.36	0.02	0.006	93	36	552	132	129	<5	3	22.6	
48135	Rock																					
48180	Rock	0.69	12.93	1.78	0.75	0.85	45.16	0.25	0.69	0.12	0.19	0.03	0.004	55	21	718	92	12	<5	2	37.2	
48181	Rock	0.92	7.97	1.10	0.43	1.22	48.46	0.17	0.40	0.07	0.11	0.02	0.003	46	<20	484	49	7	<5	<1	39.9	
48182	Rock	0.93	9.00	1.42	0.63	1.51	46.72	0.17	0.57	0.09	0.13	0.02	0.004	74	60	775	45	11	<5	1	39.5	
48183	Rock	0.78	19.30	2.68	1.57	2.43	37.68	0.39	1.14	0.19	0.50	0.03	0.006	126	65	592	116	21	7	4	33.8	
48184	Rock	1.08	6.02	1.11	0.47	1.00	49.66	0.14	0.43	0.07	0.04	0.02	0.003	56	<20	629	38	7	<5	<1	40.9	

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.



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Part 2

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4A		2A		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
48110	Rock	99.84	11.37	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48111	Rock	99.81	10.15	0.68	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48112	Rock	99.76	11.24	0.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48113	Rock	99.91	9.84	0.41	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48114	Rock	99.83	11.17	0.27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48115	Rock	99.88	6.65	0.59	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48116	Rock	99.92	12.28	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48117	Rock	99.91	12.22	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48118	Rock	99.89	8.69	0.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48119	Rock	99.96	12.65	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48120	Rock	99.73	4.10	0.71	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48121	Rock	99.73	9.42	0.82	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48122	Rock	99.56	11.39	1.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48123	Rock	99.74	4.75	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48124	Rock	99.84	5.07	1.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48126	Rock	100.03	4.33	1.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48127	Rock	99.92	5.21	0.97	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48128	Rock	99.87	8.01	0.97	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48129	Rock	99.87	9.55	0.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48130	Rock	99.89	2.80	0.85	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48131	Rock	99.89	9.25	0.34	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48132	Rock	99.85	8.00	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48133	Rock	99.89	12.39	0.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48134	Rock	99.89	7.47	0.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48135	Rock		L.N.R.	L.N.R.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48180	Rock	100.04	10.59	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48181	Rock	99.96	11.60	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48182	Rock	99.83	12.00	0.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48183	Rock	99.83	10.28	0.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48184	Rock	99.94	11.91	0.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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Project:

Fly Camp

Report Date:

November 29, 2008

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Part 3

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48110	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48111	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48112	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48113	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48114	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48115	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48116	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48117	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48118	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48119	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48120	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48121	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48122	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48123	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48124	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48126	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48127	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48128	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48129	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48130	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48131	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48132	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48133	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48134	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48135	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48180	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48181	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48182	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48183	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48184	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Fly Camp

Report Date:

November 29, 2008

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Part 4

## CERTIFICATE OF ANALYSIS

**VAN08007984.2**

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48110	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48111	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48112	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48113	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48114	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48115	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48116	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48117	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48118	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48119	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48120	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48121	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48122	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48123	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48124	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48126	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48127	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48128	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48129	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48130	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48131	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48132	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48133	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48134	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48135	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48180	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48181	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48182	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48183	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48184	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Fly Camp

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	1	-5.1
48185	Rock	1.09	2.87	0.62	0.33	0.74	52.81	0.03	0.20	0.02	<0.01	<0.01	<0.002	16	<20	437	5	5	<5	<1	42.3
48186	Rock	1.07	1.35	0.23	0.14	0.96	53.65	0.01	0.07	0.02	<0.01	<0.01	0.004	8	<20	486	6	10	<5	<1	43.5
48187	Rock	1.01	45.96	0.02	0.17	0.16	29.92	0.02	0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	154	<5	<3	<5	<1	23.8
48188	Rock	0.70	31.01	4.14	1.07	2.75	30.17	0.79	1.52	0.30	0.13	0.03	0.004	129	<20	240	258	20	5	4	28.0
48189	Rock	0.84	1.77	0.24	0.12	0.63	53.97	0.03	0.10	0.01	<0.01	<0.01	0.002	11	<20	508	<5	<3	<5	<1	43.0
48190	Rock	0.82	1.22	0.34	0.09	0.66	54.19	0.02	0.11	0.01	<0.01	<0.01	<0.002	13	<20	421	<5	<3	<5	<1	43.3
48191	Rock	0.92	25.00	5.05	2.31	2.29	30.01	0.53	1.78	0.29	13.32	0.02	0.024	258	106	521	128	123	<5	7	19.1
48192	Rock	0.78	0.73	0.10	<0.04	0.47	55.68	0.02	0.05	<0.01	<0.01	<0.01	<0.002	10	<20	279	5	<3	<5	<1	42.9
48193	Rock	0.51	48.96	4.92	0.99	4.21	17.15	0.77	2.46	0.34	0.13	0.03	0.006	194	<20	111	378	16	<5	3	19.9
48194	Rock	0.70	9.45	1.47	0.65	1.61	45.94	0.21	0.59	0.09	0.20	0.02	0.004	64	34	468	59	15	<5	2	39.5
48195	Rock	0.70	35.96	4.49	1.08	2.24	26.59	0.69	1.93	0.34	2.25	0.03	0.007	159	34	300	270	65	<5	5	24.2
48196	Rock	0.72	13.36	1.54	0.57	1.35	44.45	0.27	0.69	0.10	4.09	0.03	0.006	69	37	488	71	59	<5	3	33.3
48197	Rock	0.82	8.62	1.02	0.28	1.59	47.29	0.18	0.49	0.06	1.52	0.02	0.002	58	<20	376	61	22	<5	1	38.8
48198	Rock	0.51	64.52	7.90	1.96	1.52	8.65	1.18	3.49	0.61	1.33	0.10	0.008	353	<20	121	515	50	9	7	8.6
48199	Rock	0.53	9.68	1.31	0.45	1.66	46.77	0.20	0.56	0.09	1.32	0.02	0.004	49	40	441	71	27	6	2	37.8
48200	Rock	0.71	19.61	2.15	0.62	3.26	37.74	0.49	0.95	0.16	7.83	0.03	0.005	111	<20	550	172	79	<5	3	26.9
48215	Rock	1.12	6.45	0.93	0.46	1.19	49.52	0.14	0.36	0.06	0.07	0.04	<0.002	84	<20	317	35	10	7	1	40.7
48216	Rock	1.04	21.75	1.32	0.43	0.92	40.52	0.20	0.50	0.08	1.22	0.02	0.005	467	<20	690	42	24	<5	2	32.7
48217	Rock	0.78	26.63	3.91	1.86	1.89	33.18	0.63	1.41	0.27	0.29	0.05	0.011	183	79	320	154	22	<5	4	29.6
48218	Rock	1.15	27.00	4.37	1.81	2.67	30.59	0.53	1.60	0.28	0.70	0.03	0.010	1206	127	461	144	42	6	5	29.9
48219	Rock	0.90	31.75	5.07	1.91	2.84	24.50	0.56	1.90	0.33	0.35	0.02	0.017	205	210	320	202	43	<5	6	29.9
48220	Rock	1.17	59.03	0.59	0.82	0.12	21.89	0.07	0.16	0.03	8.57	0.01	0.017	58	30	202	35	109	<5	2	8.6
48221	Rock	0.60	18.42	0.33	1.70	0.63	43.86	0.04	0.09	0.01	0.06	0.02	0.003	11	<20	352	<5	6	<5	<1	34.8
48222	Rock	0.52	15.99	2.63	1.19	4.38	38.90	0.05	0.91	0.11	0.04	0.01	0.003	42	<20	322	23	10	<5	3	35.7
48223	Rock	0.88	65.58	0.36	0.35	0.65	18.14	0.05	0.10	0.01	0.02	<0.01	0.002	24	<20	64	<5	<3	<5	<1	14.8
48224	Rock	0.79	30.85	5.57	2.82	3.68	25.81	0.58	2.22	0.35	0.25	0.04	0.006	223	65	221	174	27	<5	7	27.6
48226	Rock	0.76	16.59	2.22	0.93	2.83	39.77	0.39	0.87	0.16	0.09	0.06	0.004	209	<20	394	97	13	<5	3	36.0
48227	Rock	1.03	75.67	1.23	16.12	0.14	0.18	0.07	0.41	0.08	0.73	0.05	0.013	473	<20	97	43	8	<5	2	4.9
48228	Rock	0.86	2.45	0.47	0.19	0.68	52.40	0.03	0.24	0.02	<0.01	<0.01	0.002	14	<20	575	6	<3	<5	<1	43.4
48229	Rock	0.81	2.71	0.15	0.18	0.76	53.62	0.03	0.06	<0.01	<0.01	<0.01	<0.002	5	<20	448	<5	<3	<5	<1	42.4

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.



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Fly Camp

Report Date:

November 29, 2008

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Part 2

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4A 2A Leco 2A Leco		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B			
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y		
Unit		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	
48185	Rock	99.99	12.27	0.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48186	Rock	99.96	12.93	0.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48187	Rock	100.04	6.84	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48188	Rock	99.95	7.78	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48189	Rock	99.98	12.64	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48190	Rock	100.00	12.70	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48191	Rock	99.85	9.02	1.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48192	Rock	99.97	12.92	0.04	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48193	Rock	99.93	5.35	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48194	Rock	99.78	11.67	0.13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48195	Rock	99.87	7.16	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48196	Rock	99.86	10.63	0.36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48197	Rock	99.94	11.15	0.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48198	Rock	99.95	2.42	0.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48199	Rock	99.94	11.11	0.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48200	Rock	99.87	8.19	0.36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48215	Rock	99.92	6.61	0.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48216	Rock	99.82	12.31	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48217	Rock	99.85	12.07	0.02	187	<1	2.8	1.1	4.6	3.9	4.7	32.7	1	333.5	0.3	3.4	4.7	510	0.7	149.4	20.8		
48218	Rock	99.68	10.61	1.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48219	Rock	99.31	14.22	1.58	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48220	Rock	99.95	2.45	0.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48221	Rock	100.00	10.31	0.18	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48222	Rock	99.91	10.45	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48223	Rock	100.03	4.23	0.04	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48224	Rock	99.83	9.63	0.69	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48226	Rock	99.99	11.32	0.37	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48227	Rock	99.69	0.14	0.37	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48228	Rock	99.98	13.74	0.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48229	Rock	100.00	12.43	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Report Date:

November 29, 2008

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Part 3

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48185	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48186	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48187	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48188	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48189	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48190	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48191	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48192	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48193	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48194	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48195	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48196	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48197	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48198	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48199	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48200	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48215	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48216	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48217	Rock	15.5	22.5	3.72	15.5	2.80	0.60	2.84	0.48	2.74	0.56	1.67	0.26	1.63	0.22	11.7	15.4	6.9	177	48.7	20.3
48218	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48219	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48220	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48221	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48222	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48223	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48224	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48226	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48227	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48228	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48229	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

Fly Camp

Report Date:

November 29, 2008

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Part 4

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
48185	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48186	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48187	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48188	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48189	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48190	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48191	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48192	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48193	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48194	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48195	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48196	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48197	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48198	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48199	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48200	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48215	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48216	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48217	Rock	6.8	5.7	<0.1	0.5	<0.5	0.05	0.6	4.1
48218	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48219	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48220	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48221	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48222	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48223	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48224	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48226	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48227	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48228	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48229	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	



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Project: Fly Camp

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48230	Rock	1.15	6.82	1.88	0.76	3.32	45.62	0.04	0.70	0.08	<0.01	<0.01	0.003	41	<20	358	15	6	<5	2	40.6
48231	Rock	0.90	5.95	0.65	0.27	0.32	50.40	0.26	0.27	0.04	21.90	0.02	0.002	32	<20	766	49	103	<5	2	19.8
48232	Rock	1.22	43.60	3.68	0.99	1.31	25.64	0.72	1.62	0.27	14.05	0.03	0.009	175	24	322	352	225	<5	4	7.9
48233	Rock	1.12	14.08	1.05	0.41	0.32	45.13	0.23	0.48	0.07	17.98	0.02	0.009	63	<20	666	107	325	<5	4	20.0
48234	Rock	0.97	8.01	0.77	0.29	0.24	49.40	0.23	0.34	0.06	19.47	0.02	0.006	48	<20	661	82	366	<5	3	20.9
48319	Rock	0.82	13.20	2.10	0.69	7.56	35.87	0.33	0.82	0.14	9.40	0.06	0.003	92	<20	477	75	41	<5	3	29.5
48320	Rock	0.59	16.49	2.22	0.68	1.34	41.55	0.33	0.87	0.15	1.61	0.05	0.005	106	24	477	95	51	<5	4	34.5
48321	Rock	0.95	41.48	2.55	0.90	4.49	23.41	0.37	1.26	0.21	0.50	0.02	0.005	83	<20	130	234	18	6	2	24.7
48322	Rock	0.99	29.47	2.80	0.61	7.64	26.40	0.43	1.58	0.23	0.53	0.02	0.004	109	<20	143	310	17	<5	3	30.1
48323	Rock	0.70	14.71	1.66	0.52	3.62	41.24	0.38	0.72	0.15	3.51	0.03	0.003	119	<20	322	135	29	<5	2	33.3
48324	Rock	0.98	18.54	2.10	0.60	3.22	38.98	0.46	0.92	0.18	5.00	0.03	0.005	97	<20	366	156	68	<5	3	29.9
48326	Rock	1.16	15.05	1.49	0.54	1.43	41.57	0.37	0.70	0.10	10.53	0.02	0.006	73	23	642	87	190	<5	5	28.0
48327	Rock	0.82	11.53	1.35	0.53	1.30	43.52	0.35	0.61	0.09	11.22	0.02	0.005	81	28	658	65	185	<5	5	29.2
48328	Rock	0.61	1.00	0.29	0.15	6.74	46.64	0.02	0.09	0.02	0.06	<0.01	<0.002	110	<20	204	7	<3	<5	<1	44.8
48329	Rock	0.77	6.89	0.73	0.22	17.19	30.74	0.11	0.20	0.04	0.39	<0.01	0.002	13	<20	109	24	6	<5	<1	43.2
48330	Rock	0.77	24.22	1.51	0.49	3.28	36.27	0.20	0.83	0.11	0.43	0.01	0.003	64	<20	252	145	11	<5	1	32.5
48331	Rock	0.37	54.88	9.52	2.92	2.39	10.12	0.99	4.31	0.66	0.28	0.03	0.010	271	39	100	287	32	11	9	13.7
48332	Rock	0.66	4.77	0.14	0.16	2.49	50.51	0.02	0.06	<0.01	0.02	<0.01	0.002	<5	<20	180	<5	4	<5	<1	41.7
48359	Rock	0.80	21.79	4.03	1.55	1.58	37.21	0.55	1.22	0.26	0.07	0.05	0.003	197	<20	244	101	15	<5	4	31.6
48360	Rock	0.95	54.41	10.74	3.38	3.23	9.34	1.04	3.16	0.69	0.33	0.04	0.011	349	52	136	286	33	8	11	13.4
48361	Rock	1.04	8.16	0.74	0.48	0.94	49.25	0.08	0.27	0.04	1.23	0.04	<0.002	31	<20	433	24	10	<5	1	38.7
48362	Rock	0.82	12.67	2.19	1.06	3.95	40.45	0.27	0.86	0.14	0.33	0.11	0.005	101	<20	295	69	15	<5	2	37.8
48363	Rock	1.03	20.41	3.17	1.20	2.80	35.82	0.46	1.18	0.23	0.19	0.02	0.008	114	72	442	121	21	5	4	34.1
48364	Rock	0.54	2.20	0.11	0.73	0.42	53.67	0.02	0.04	<0.01	0.03	0.01	<0.002	7	<20	671	<5	<3	<5	<1	42.7
48365	Rock	0.53	3.17	0.24	1.11	3.01	49.93	0.03	0.09	0.01	0.01	0.01	0.003	9	31	533	<5	3	<5	<1	42.3
48366	Rock	0.58	6.52	1.81	0.85	0.77	48.76	0.05	0.67	0.08	<0.01	<0.01	0.003	33	<20	432	13	4	<5	2	40.4
48367	Rock	0.47	14.99	2.48	0.90	0.95	43.09	0.43	0.74	0.16	0.06	0.07	<0.002	1478	<20	347	61	11	10	3	35.9
48368	Rock	0.53	53.51	10.79	3.31	2.85	9.49	1.01	3.19	0.68	0.72	0.04	0.014	401	86	158	273	43	17	10	14.0
48369	Rock	0.89	14.87	1.95	0.57	1.04	43.06	0.29	0.74	0.13	0.36	0.05	0.005	77	25	402	70	19	7	2	36.7
48370	Rock	0.89	6.61	2.28	0.36	0.40	48.94	0.02	1.50	0.02	0.04	0.04	<0.002	33	<20	383	12	<3	<5	<1	39.7

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.



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Project:

Fly Camp

Report Date:

November 29, 2008

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Part 2

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4A		2A		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	
Unit	MDL	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
48230	Rock	99.89	11.85	0.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48231	Rock	99.96	6.46	0.28	37	<1	0.5	0.2	1.2	1.1	0.8	6.2	<1	762.0	<0.1	1.6	78.5	133	<0.5	50.1	99.0	
48232	Rock	99.97	2.59	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48233	Rock	99.95	6.43	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48234	Rock	99.93	6.58	0.22	56	<1	<0.2	0.3	2.0	1.8	1.2	8.1	<1	682.2	<0.1	4.0	103.9	172	<0.5	87.4	353.3	
48319	Rock	99.81	9.10	0.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48320	Rock	99.91	11.03	0.28	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48321	Rock	99.90	6.58	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48322	Rock	99.84	8.22	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48323	Rock	99.88	9.94	0.26	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48324	Rock	99.95	9.18	0.33	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48326	Rock	99.86	8.53	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48327	Rock	99.85	9.46	0.34	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48328	Rock	99.86	13.01	0.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48329	Rock	99.73	12.54	0.04	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48330	Rock	99.95	9.14	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48331	Rock	99.91	4.93	0.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48332	Rock	99.90	12.49	0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48359	Rock	99.95	9.59	0.53	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48360	Rock	99.85	4.60	1.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48361	Rock	99.97	11.67	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48362	Rock	99.89	11.74	0.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48363	Rock	99.72	11.51	0.81	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48364	Rock	99.97	12.57	0.04	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48365	Rock	99.96	12.69	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48366	Rock	99.95	11.37	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48367	Rock	99.95	10.65	0.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48368	Rock	99.69	5.12	0.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48369	Rock	99.89	11.37	0.28	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48370	Rock	99.96	11.27	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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Project:

Fly Camp

Report Date:

November 29, 2008

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Part 3

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48230	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48231	Rock	49.8	27.5	9.15	38.5	6.63	1.58	7.94	1.30	7.85	1.75	5.03	0.71	3.77	0.51	12.2	5.0	0.8	88	12.9	2.1
48232	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48233	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48234	Rock	171.5	76.1	34.34	151.3	26.15	6.26	31.76	4.92	29.98	6.62	18.68	2.46	12.72	1.66	1.3	6.7	2.2	97	6.4	3.4
48319	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48320	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48321	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48322	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48323	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48324	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48326	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48327	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48328	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48329	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48330	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48331	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48332	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48359	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48360	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48361	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48362	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48363	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48364	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48365	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48366	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48367	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48368	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48369	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48370	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Report Date:

November 29, 2008

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Part 4

## CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48230	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48231	Rock	9.3	8.4	<0.1	<0.1	<0.5	0.02	<0.1	25.5
48232	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48233	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48234	Rock	21.7	1.3	<0.1	0.1	<0.5	0.06	<0.1	4.6
48319	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48320	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48321	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48322	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48323	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48324	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48326	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48327	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48328	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48329	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48330	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48331	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48332	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48359	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48360	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48361	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48362	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48363	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48364	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48365	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48366	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48367	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48368	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48369	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48370	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Report Date:

November 29, 2008

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Part 1

# CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	1	-5.1
48371	Rock	0.73	18.20	2.74	1.01	9.28	30.25	0.36	1.15	0.19	1.15	0.09	0.004	99	39	290	116	29	<5	3	35.2
48372	Rock	0.96	1.49	0.29	0.21	0.81	52.80	0.02	0.14	0.01	0.03	<0.01	<0.002	7	<20	417	5	<3	<5	<1	44.1
48409	Rock	0.70	13.23	2.11	1.02	0.85	44.31	0.36	0.59	0.13	0.07	0.12	<0.002	489	<20	316	60	11	<5	3	37.0
48410	Rock	1.10	20.10	2.70	0.93	1.45	36.83	0.38	1.00	0.17	0.93	0.03	0.012	1810	76	414	91	48	5	4	34.9
48411	Rock	0.58	10.58	1.82	1.09	3.28	43.06	0.22	0.63	0.09	0.07	0.09	0.004	90	30	289	35	10	<5	2	38.8
48412	Rock	0.49	23.56	3.63	1.24	1.90	35.25	0.49	1.32	0.26	0.17	0.02	0.006	143	69	544	148	19	<5	4	31.8
48413	Rock	0.35	18.27	2.28	0.72	1.31	40.46	0.51	0.90	0.17	7.13	0.02	0.004	127	42	741	126	52	<5	4	28.0
48414	Rock	0.32	7.71	1.51	0.70	1.07	48.46	0.04	0.55	0.07	0.06	0.01	0.003	58	<20	341	15	5	<5	2	39.7
48415	Rock	0.58	12.37	1.51	0.60	1.74	44.19	0.19	0.66	0.09	5.27	0.03	0.007	78	45	664	53	52	<5	2	33.0
48416	Rock	0.54	14.27	2.28	0.98	2.15	41.55	0.29	0.91	0.15	0.15	0.02	0.006	87	68	665	77	18	<5	3	36.9
48417	Rock	0.32	22.23	3.34	1.10	2.23	35.62	0.49	1.24	0.23	0.46	0.03	0.006	127	62	529	130	25	<5	4	32.7
48418	Rock	0.49	8.42	0.95	0.41	0.27	48.32	0.30	0.39	0.06	26.21	0.01	0.005	48	49	616	60	223	<5	3	14.4
48419	Rock	0.58	49.54	0.85	1.03	0.11	26.78	0.14	0.22	0.05	19.19	0.01	0.020	140	<20	291	47	105	<5	2	1.9
48420	Rock	0.29	57.60	10.89	3.35	2.41	7.59	0.90	4.39	0.66	0.53	0.03	0.011	805	78	104	256	45	9	11	11.1
48421	Rock	0.55	54.83	10.49	3.50	2.05	10.25	0.83	4.12	0.64	0.48	0.04	0.011	733	77	111	240	31	7	10	12.3
48422	Rock	0.69	12.56	1.36	0.70	4.99	41.78	0.03	0.54	0.05	0.23	0.01	0.002	41	<20	302	10	4	<5	1	37.6
48423	Rock	1.17	30.76	3.10	1.51	1.93	32.26	0.68	1.23	0.27	16.75	0.03	0.007	162	29	348	331	113	8	3	11.3
48424	Rock	0.84	15.75	1.93	1.33	0.85	43.45	0.44	0.76	0.16	25.38	0.02	0.014	96	67	490	161	258	12	2	9.7
48464	Rock	0.48	22.72	4.02	1.93	1.80	36.46	0.63	1.04	0.26	0.13	0.07	0.003	218	<20	188	113	14	15	4	30.8
48465	Rock	0.37	19.34	1.14	0.41	0.97	42.41	0.24	0.44	0.08	5.30	0.03	0.003	422	23	606	56	33	<5	2	29.4
48466	Rock	0.41	27.04	1.05	0.28	1.59	36.97	0.12	0.48	0.06	0.27	0.07	0.004	87	34	314	28	9	<5	1	31.9
48467	Rock	0.36	32.19	5.03	1.99	3.45	26.10	0.58	2.13	0.33	0.33	0.03	0.021	200	86	250	167	31	<5	5	27.5
48468	Rock	0.36	28.98	4.63	1.40	2.76	26.11	0.52	1.79	0.30	0.33	0.03	0.026	170	130	271	151	28	<5	6	32.5
48469	Rock	0.40	14.84	2.25	0.84	3.35	40.60	0.31	0.95	0.15	0.13	0.07	0.005	105	61	371	75	15	<5	3	36.3
48470	Rock	0.45	11.27	2.22	0.69	1.06	46.14	0.11	0.72	0.08	<0.01	<0.01	0.004	28	<20	811	14	18	<5	3	37.6
48471	Rock	0.63	21.67	3.16	1.34	2.29	36.38	0.56	1.29	0.24	16.80	0.02	0.010	154	52	441	181	229	<5	5	16.0
48472	Rock	0.45	57.61	11.42	3.36	2.37	6.51	0.87	4.87	0.69	0.19	0.03	0.014	321	90	81	234	27	12	11	11.5
48473	Rock	0.67	14.29	1.81	0.56	1.87	42.97	0.26	0.86	0.11	9.64	0.02	0.006	75	50	525	80	256	<5	5	27.3
48474	Rock	0.72	2.19	0.26	<0.04	0.84	53.55	0.07	0.13	0.02	4.26	0.02	0.003	25	44	376	17	62	<5	<1	38.6



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November 29, 2008

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Part 2

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4A		2A		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B		
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	
Unit	MDL	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
48371	Rock	99.74	10.91	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48372	Rock	99.96	12.67	0.04	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48409	Rock	99.91	10.70	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48410	Rock	99.68	12.65	0.64	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48411	Rock	99.82	11.42	0.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48412	Rock	99.70	10.26	0.40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48413	Rock	99.86	8.86	0.29	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48414	Rock	99.95	11.53	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48415	Rock	99.78	11.25	0.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48416	Rock	99.75	11.22	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48417	Rock	99.75	10.10	0.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48418	Rock	99.84	5.67	0.38	51	<1	0.5	0.4	1.9	1.4	1.2	10.2	<1	623.7	<0.1	2.7	83.2	467	<0.5	64.2	209.5	
48419	Rock	99.91	0.45	0.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48420	Rock	99.60	3.89	0.89	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48421	Rock	99.67	4.28	0.73	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48422	Rock	99.91	10.80	0.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48423	Rock	99.95	3.61	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48424	Rock	99.95	3.91	1.07	102	1	2.2	0.6	2.9	4.1	3.1	16.8	<1	514.3	0.2	6.6	73.4	107	<0.5	168.0	250.9	
48464	Rock	99.95	9.20	0.95	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48465	Rock	99.90	9.04	0.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48466	Rock	99.93	9.78	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48467	Rock	99.76	10.59	1.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48468	Rock	99.43	15.81	1.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48469	Rock	99.86	11.53	0.38	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48470	Rock	99.97	10.92	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48471	Rock	99.88	5.97	1.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48472	Rock	99.55	4.77	1.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48473	Rock	99.86	9.48	0.59	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48474	Rock	99.93	11.79	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 3

CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48371	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48372	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48409	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48410	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48411	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48412	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48413	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48414	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48415	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48416	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48417	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48418	Rock	98.2	50.4	18.14	78.8	13.49	3.28	16.43	2.61	16.47	3.81	10.84	1.48	7.91	1.07	6.6	9.2	1.9	145	23.2	4.7
48419	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48420	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48421	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48422	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48423	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48424	Rock	138.8	89.4	28.98	128.3	21.88	5.13	25.17	3.79	22.37	4.92	13.34	1.78	9.37	1.20	5.5	9.4	7.6	51	28.6	41.0
48464	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48465	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48466	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48467	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48468	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48469	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48470	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48471	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48472	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48473	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48474	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

Fly Camp

Report Date:

November 29, 2008

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Part 4

## CERTIFICATE OF ANALYSIS

VAN08007984.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
48371	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48372	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48409	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48410	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48411	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48412	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48413	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48414	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48415	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48416	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48417	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48418	Rock	29.8	2.9	<0.1	0.2	<0.5	0.04	<0.1	5.6
48419	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48420	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48421	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48422	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48423	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48424	Rock	0.5	3.2	<0.1	0.1	<0.5	0.11	0.3	7.6
48464	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48465	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48466	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48467	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48468	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48469	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48470	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48471	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48472	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48473	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48474	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Fly Camp

Report Date: November 29, 2008

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QUALITY CONTROL REPORT

VAN08007984.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48103	Rock	0.88	35.40	6.20	1.75	2.48	23.21	0.64	2.38	0.40	0.42	0.03	0.021	288	141	249	187	37	14	7	26.2
48200	Rock	0.71	19.61	2.15	0.62	3.26	37.74	0.49	0.95	0.16	7.83	0.03	0.005	111	<20	550	172	79	<5	3	26.9
48326	Rock	1.16	15.05	1.49	0.54	1.43	41.57	0.37	0.70	0.10	10.53	0.02	0.006	73	23	642	87	190	<5	5	28.0
48471	Rock	0.63	21.67	3.16	1.34	2.29	36.38	0.56	1.29	0.24	16.80	0.02	0.010	154	52	441	181	229	<5	5	16.0
Pulp Duplicates																					
48112	Rock	0.38	16.92	2.65	0.93	1.99	39.96	0.42	0.96	0.19	0.17	0.03	0.004	123	52	697	101	16	8	3	35.4
REP 48112	QC																				
48181	Rock	0.92	7.97	1.10	0.43	1.22	48.46	0.17	0.40	0.07	0.11	0.02	0.003	46	<20	484	49	7	<5	<1	39.9
REP 48181	QC																				
48227	Rock	1.03	75.67	1.23	16.12	0.14	0.18	0.07	0.41	0.08	0.73	0.05	0.013	473	<20	97	43	8	<5	2	4.9
REP 48227	QC		76.01	1.21	15.73	0.14	0.31	0.07	0.39	0.08	0.71	0.05	0.013	463	<20	94	44	7	5	2	4.9
48363	Rock	1.03	20.41	3.17	1.20	2.80	35.82	0.46	1.18	0.23	0.19	0.02	0.008	114	72	442	121	21	5	4	34.1
REP 48363	QC																				
48464	Rock	0.48	22.72	4.02	1.93	1.80	36.46	0.63	1.04	0.26	0.13	0.07	0.003	218	<20	188	113	14	15	4	30.8
REP 48464	QC																				
48474	Rock	0.72	2.19	0.26	<0.04	0.84	53.55	0.07	0.13	0.02	4.26	0.02	0.003	25	44	376	17	62	<5	<1	38.6
REP 48474	QC		2.19	0.26	<0.04	0.85	53.54	0.07	0.13	0.02	4.34	0.02	<0.002	25	<20	381	19	63	<5	<1	38.6
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				

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.



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Project:

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Report Date:

November 29, 2008

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Part 2

QUALITY CONTROL REPORT

VAN08007984.2

Method	Analyte	4A 2A Leco 2A Leco			4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	
48103	Rock	99.24	11.72	1.37	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48200	Rock	99.87	8.19	0.36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48326	Rock	99.86	8.53	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48471	Rock	99.88	5.97	1.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Pulp Duplicates																					
48112	Rock	99.76	11.24	0.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48112	QC		10.96	0.18																	
48181	Rock	99.96	11.60	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48181	QC		11.67	0.12																	
48227	Rock	99.69	0.14	0.37	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48227	QC	99.71																			
48363	Rock	99.72	11.51	0.81	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48363	QC		11.62	0.83																	
48464	Rock	99.95	9.20	0.95	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48464	QC		9.16	0.96																	
48474	Rock	99.93	11.79	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48474	QC	99.93																			
Reference Materials																					
STD CSC	Standard		3.20	4.17																	
STD CSC	Standard		3.14	4.22																	
STD CSC	Standard		3.13	4.26																	
STD CSC	Standard		3.26	4.32																	
STD CSC	Standard		3.15	4.21																	
STD CSC	Standard		3.14	4.26																	
STD CSC	Standard		3.12	4.06																	
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard		0.17	17.82																	
STD OREAS76A	Standard		0.20	17.25																	



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Project:

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Report Date:

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Part 3

QUALITY CONTROL REPORT

VAN08007984.2

Method	Analyte	Unit	MDL	4B La	4B Ce	4B Pr	4B Nd	4B Sm	4B Eu	4B Gd	4B Tb	4B Dy	4B Ho	4B Er	4B Tm	4B Yb	4B Lu	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48103	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48200	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48326	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48471	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates																							
48112	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48112	QC																						
48181	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48181	QC																						
48227	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48227	QC																						
48363	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48363	QC																						
48464	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48464	QC																						
48474	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48474	QC																						
Reference Materials																							
STD CSC	Standard																						
STD CSC	Standard																						
STD CSC	Standard																						
STD CSC	Standard																						
STD CSC	Standard																						
STD CSC	Standard																						
STD CSC	Standard																						
STD DS7	Standard																	17.4	93.2	61.0	347	46.6	50.9
STD DS7	Standard																	17.3	106.0	63.6	366	45.0	51.7
STD OREAS76A	Standard																						
STD OREAS76A	Standard																						

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Part 4

## QUALITY CONTROL REPORT

VAN08007984.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
48103	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48200	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48326	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48471	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates									
48112	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48112	QC								
48181	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48181	QC								
48227	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48227	QC								
48363	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48363	QC								
48464	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48464	QC								
48474	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48474	QC								
Reference Materials									
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD DS7	Standard	6.0	4.5	4.0	0.7	41.5	0.16	3.5	3.5
STD DS7	Standard	6.3	4.5	4.4	0.7	49.5	0.19	4.1	3.1
STD OREAS76A	Standard								
STD OREAS76A	Standard								



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Report Date: November 29, 2008

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QUALITY CONTROL REPORT

VAN08007984.2

	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	58.12	14.12	7.56	3.35	6.37	3.71	2.14	0.69	0.82	0.39	0.550	469	46	397	298	32	23	25	1.9	
STD SO-18	Standard	58.13	14.10	7.56	3.34	6.36	3.71	2.14	0.69	0.81	0.40	0.549	474	52	401	300	32	26	25	1.9	
STD SO-18	Standard	58.20	14.10	7.53	3.34	6.38	3.72	2.14	0.69	0.83	0.39	0.549	474	32	402	295	32	17	25	1.9	
STD SO-18	Standard	58.13	14.08	7.57	3.34	6.36	3.72	2.15	0.69	0.84	0.39	0.548	483	36	403	299	32	19	25	1.9	
STD SO-18	Standard	58.11	14.10	7.60	3.34	6.37	3.69	2.14	0.69	0.83	0.39	0.550	481	47	403	294	32	17	26	1.9	
STD SO-18	Standard	58.05	14.12	7.61	3.35	6.37	3.70	2.16	0.69	0.84	0.39	0.552	487	50	401	296	32	13	26	1.9	
STD SO-18	Standard	58.07	14.09	7.64	3.34	6.38	3.70	2.16	0.69	0.80	0.39	0.549	479	57	400	302	32	20	25	1.9	
STD SO-18	Standard	58.04	14.09	7.60	3.34	6.38	3.72	2.16	0.69	0.82	0.39	0.551	481	41	402	300	31	21	25	1.9	
STD SO-18	Standard	58.13	14.08	7.60	3.35	6.42	3.68	2.12	0.69	0.83	0.39	0.540	479	59	397	297	32	22	25	1.9	
STD SO-18	Standard	58.13	14.06	7.60	3.33	6.38	3.69	2.13	0.69	0.82	0.39	0.546	476	55	399	299	32	23	25	1.9	
STD SO-18	Standard	57.98	14.12	7.64	3.34	6.39	3.73	2.16	0.69	0.83	0.40	0.546	492	41	402	317	32	20	25	1.9	
STD SO-18	Standard	58.25	14.07	7.52	3.34	6.41	3.69	2.14	0.69	0.83	0.39	0.544	493	31	393	301	32	27	25	1.9	
STD SO-18	Standard	58.11	14.12	7.55	3.34	6.38	3.70	2.14	0.69	0.85	0.39	0.550	477	42	401	293	32	33	25	1.9	
STD SO-18	Standard	58.02	14.13	7.58	3.35	6.39	3.70	2.15	0.69	0.85	0.39	0.552	482	45	402	295	32	19	25	1.9	
STD SO-18	Standard	58.07	14.13	7.56	3.35	6.37	3.73	2.17	0.69	0.82	0.40	0.551	492	43	413	297	32	21	26	1.9	
STD SO-18	Standard	58.04	14.12	7.60	3.35	6.38	3.71	2.16	0.69	0.83	0.39	0.553	481	74	406	296	32	20	26	1.9	
STD SO-18	Standard	57.90	14.18	7.64	3.36	6.40	3.71	2.15	0.69	0.84	0.39	0.554	483	51	401	297	32	22	25	1.9	
STD SO-18	Standard	57.98	14.16	7.61	3.35	6.38	3.72	2.16	0.69	0.83	0.39	0.555	486	53	400	300	32	19	25	1.9	
STD SO-18	Standard	58.25	14.10	7.46	3.34	6.41	3.74	2.12	0.69	0.88	0.39	0.542	472	38	400	302	32	17	25	1.9	
STD SO-18	Standard	58.04	14.22	7.57	3.34	6.45	3.74	2.13	0.70	0.83	0.39	0.544	467	27	405	303	32	25	25	1.9	
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
STD CSC Expected																					

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Fly Camp

Report Date:

November 29, 2008

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Part 2

# QUALITY CONTROL REPORT

VAN08007984.2

		4A 2A Leco 2A Leco		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	
STD OREAS76A	Standard		0.17	17.12																	
STD OREAS76A	Standard		0.16	16.89																	
STD OREAS76A	Standard		0.17	16.81																	
STD OREAS76A	Standard		0.16	17.00																	
STD OREAS76A	Standard		0.15	17.14																	
STD SO-18	Standard	99.87																			
STD SO-18	Standard	99.85																			
STD SO-18	Standard	99.92																			
STD SO-18	Standard	99.88																			
STD SO-18	Standard	99.87																			
STD SO-18	Standard	99.90																			
STD SO-18	Standard	99.87																			
STD SO-18	Standard	99.83																			
STD SO-18	Standard	99.89																			
STD SO-18	Standard	99.84																			
STD SO-18	Standard	99.90																			
STD SO-18	Standard	99.92																			
STD SO-18	Standard	99.88																			
STD SO-18	Standard	99.86																			
STD SO-18	Standard	99.90																			
STD SO-18	Standard	99.88																			
STD SO-18	Standard	99.88																			
STD SO-18	Standard	99.90																			
STD SO-18	Standard	99.98																			
STD SO-18	Standard	100.01																			
STD SO-18	Standard				516	<1	27.4	7.2	18.0	10.2	22.7	29.2	15	415.1	7.4	10.1	16.6	209	15.7	301.0	31.9
STD SO-18	Standard				510	<1	27.3	7.1	17.9	10.4	22.3	29.2	15	415.0	7.3	10.2	16.9	208	15.7	301.7	31.8
STD SO-18 Expected					514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33
STD CSC Expected		2.94	4.25																		



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Fly Camp

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November 29, 2008

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Part 3

# QUALITY CONTROL REPORT

VAN08007984.2

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
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STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard	12.3	27.2	3.45	14.3	2.95	0.88	2.94	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD SO-18	Standard	12.3	27.1	3.42	14.0	2.95	0.88	2.96	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD SO-18 Expected		12.3	27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27						
STD CSC Expected																					

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# QUALITY CONTROL REPORT

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		WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
STD OREAS76A Expected																					
STD DS7 Expected																					
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
Prep Wash																					
G1	Prep Blank	<0.01	66.32	15.78	3.60	1.30	3.74	3.46	3.59	0.43	0.19	0.10	<0.002	1029	<20	767	151	17	17	7	1.2
G1	Prep Blank	<0.01	66.83	15.94	3.40	1.29	3.75	3.48	3.57	0.42	0.21	0.10	<0.002	1064	<20	779	153	18	15	7	0.7



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QUALITY CONTROL REPORT

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		4A	2A	Leco	2A	Leco	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B		
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	
		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	
STD OREAS76A Expected		0.16	18																			
STD DS7 Expected																						
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank	<0.02	<0.02																			
BLK	Blank	<0.02	0.02																			
BLK	Blank	<0.02	<0.02																			
BLK	Blank	<0.01																				
BLK	Blank	0.13																				
BLK	Blank	<0.01																				
BLK	Blank	<0.02	<0.02																			
BLK	Blank	<0.01																				
BLK	Blank	<0.02	<0.02																			
BLK	Blank	<0.02	<0.02																			
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank				<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.0	<0.1	
BLK	Blank	<0.02	<0.02																			
BLK	Blank																					
Prep Wash																						
G1	Prep Blank	99.97	0.03	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	99.94	0.03	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.







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November 29, 2008

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Part 4

QUALITY CONTROL REPORT

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		1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD OREAS76A Expected									
STD DS7 Expected		6.4	5.9	4.5	0.9	70	0.2	4.2	3.5
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash									
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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1100 - 1199 West Hastings Street  
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Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 07, 2008

Report Date:

November 29, 2008

Page:

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## CERTIFICATE OF ANALYSIS

VAN08008084.2

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 35

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	35	Crush, split and pulverize rock to 200 mesh		
4A	35	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	3	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

### ADDITIONAL COMMENTS

Version 2: Group 4B full suite included



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.

\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
 Phone (604) 253-3158 Fax (604) 253-1716

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project:

None Given

Report Date:

November 29, 2008

Page:

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Part 1

CERTIFICATE OF ANALYSIS

VAN08008084.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	
48501	Rock	0.98	19.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48502	Rock	1.21	20.32	134	<1	2.0	1.3	3.5	1.7	2.5	23.8	<1	706.8	0.2	4.4	73.9	399	<0.5	78.7	205.8	105.6
48503	Rock	0.68	18.95	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48504	Rock	1.46	14.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48505	Rock	1.28	12.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48506	Rock	0.96	19.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48507	Rock	1.31	22.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48508	Rock	0.69	14.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48509	Rock	0.87	15.40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48510	Rock	0.67	2.94	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48511	Rock	0.83	2.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48512	Rock	1.09	19.02	117	1	1.3	1.2	3.3	2.2	2.5	21.5	<1	665.5	0.2	4.5	52.1	365	<0.5	89.7	190.5	97.7
48513	Rock	1.17	14.13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48514	Rock	0.69	18.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48515	Rock	1.00	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48516	Rock	1.13	13.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48517	Rock	0.98	7.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48518	Rock	0.80	0.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48519	Rock	0.95	6.87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48520	Rock	1.16	17.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48521	Rock	1.42	16.77	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48522	Rock	0.79	18.44	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48523	Rock	1.07	10.87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48524	Rock	1.20	15.99	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48525	Rock	0.93	19.66	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48526	Rock	1.30	19.73	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48527	Rock	0.88	12.55	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48528	Rock	1.25	19.58	161	<1	1.3	0.8	2.7	2.0	2.1	16.1	<1	779.8	0.2	3.8	99.8	381	<0.5	90.6	126.2	64.8
48529	Rock	1.00	19.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48530	Rock	0.91	4.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	

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.



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ACME ANALYTICAL LABORATORIES LTD.

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Client:

Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project:

None Given

Report Date:

November 29, 2008

Page:

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Part 2

CERTIFICATE OF ANALYSIS

VAN08008084.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
48501	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48502	Rock	62.5	22.53	97.9	17.30	4.06	20.24	3.11	17.99	4.06	11.22	1.53	8.27	1.13	2.8	20.5	13.8	74	25.1	9.9	1.5
48503	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48504	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48505	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48506	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48507	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48508	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48509	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48510	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48511	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48512	Rock	60.9	21.95	95.7	16.83	4.01	19.08	2.99	17.66	3.84	10.85	1.43	7.61	1.01	2.1	16.3	4.4	502	22.0	7.8	19.0
48513	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48514	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48515	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48516	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48517	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48518	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48519	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48520	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48521	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48522	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48523	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48524	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48525	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48526	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48527	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48528	Rock	48.4	14.67	62.4	11.29	2.63	12.74	2.02	11.90	2.60	7.34	1.01	5.56	0.73	3.3	22.1	3.6	507	20.0	8.3	24.4
48529	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48530	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client: Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: None Given

Report Date: November 29, 2008

Page: 2 of 3

Part 3

CERTIFICATE OF ANALYSIS

VAN08008084.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48501	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48502	Rock	3.5	<0.1	0.3	<0.5	0.03	<0.1
48503	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48504	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48505	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48506	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48507	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48508	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48509	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48510	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48511	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48512	Rock	3.7	<0.1	0.2	<0.5	0.06	<0.1
48513	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48514	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48515	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48516	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48517	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48518	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48519	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48520	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48521	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48522	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48523	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48524	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48525	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48526	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48527	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48528	Rock	5.8	<0.1	0.3	<0.5	0.07	<0.1
48529	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48530	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Report Date:

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Part 1

## CERTIFICATE OF ANALYSIS

VAN08008084.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
48531	Rock	1.08	6.34	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48532	Rock	0.82	0.27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48533	Rock	0.74	1.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48551	Rock	0.73	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48552	Rock	0.69	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: None Given

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08008084.2

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
48531	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48532	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48533	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48551	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48552	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 3

## CERTIFICATE OF ANALYSIS

VAN08008084.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48531	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48532	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48533	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48551	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48552	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Project:

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Part 1

QUALITY CONTROL REPORT

VAN08008084.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	
48524	Rock	1.20	15.99	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Reference Materials																					
STD DS7	Standard																				
STD DS7	Standard																				
STD SO-18	Standard		0.83																		
STD SO-18	Standard		0.84																		
STD SO-18	Standard		0.84																		
STD SO-18	Standard		0.83																		
STD SO-18	Standard		0.83																		
STD SO-18	Standard		0.81																		
STD SO-18	Standard		0.83																		
STD SO-18	Standard		0.84																		
STD SO-18	Standard		0.83																		
STD SO-18	Standard		0.83																		
STD SO-18	Standard		0.82																		
STD SO-18	Standard		0.86																		
STD SO-18	Standard		0.84																		
STD SO-18	Standard			516	<1	27.4	7.2	18.0	10.2	22.7	29.2	15	415.1	7.4	10.1	16.6	209	15.7	301.0	31.9	12.3
STD SO-18	Standard			510	<1	27.3	7.1	17.9	10.4	22.3	29.2	15	415.0	7.3	10.2	16.9	208	15.7	301.7	31.8	12.3
STD SO-18 Expected			0.83	514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33	12.3
STD DS7 Expected																					
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank			<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.0	<0.1	<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.

QUALITY CONTROL REPORT

VAN08008084.2

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
48524	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Reference Materials																					
STD DS7	Standard													17.4	93.2	61.0	347	46.6	50.9	6.0	
STD DS7	Standard													17.3	106.0	63.6	366	45.0	51.7	6.3	
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard	27.2	3.45	14.3	2.95	0.88	2.94	0.51	3.01	0.62	1.80	0.28	1.79	0.27							
STD SO-18	Standard	27.1	3.42	14.0	2.95	0.88	2.96	0.51	3.01	0.62	1.80	0.28	1.79	0.27							
STD SO-18 Expected		27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27							
STD DS7 Expected														20.9	109	70.6	411	56	48.2	6.4	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							



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Project:

None Given

Report Date:

November 29, 2008

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Part 3

## QUALITY CONTROL REPORT

VAN08008084.2

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.5	0.01	0.1	0.5
48524	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Reference Materials								
STD DS7	Standard	4.5	4.0	0.7	41.5	0.16	3.5	3.5
STD DS7	Standard	4.5	4.4	0.7	49.5	0.19	4.1	3.1
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD DS7 Expected		5.9	4.5	0.9	70	0.2	4.2	3.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							



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Part 1

QUALITY CONTROL REPORT

VAN08008084.2

		WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	<0.01	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

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November 29, 2008

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Part 2

QUALITY CONTROL REPORT

VAN08008084.2

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
BLK	Blank	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
Prep Wash															<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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November 29, 2008

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Part 3

## QUALITY CONTROL REPORT

VAN08008084.2

		1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
BLK	Blank	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash								
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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1100 - 1199 West Hastings Street  
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Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 13, 2008

Report Date:

November 29, 2008

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## CERTIFICATE OF ANALYSIS

VAN08008234.2

### CLIENT JOB INFORMATION

Project: Tumbler Ridge Phosphate  
Shipment ID:  
P.O. Number  
Number of Samples: 3

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	3	Crush, split and pulverize rock to 200 mesh		
4A	3	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	1	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

### ADDITIONAL COMMENTS

Version 2: Group 4B full suite included



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.

\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Tumbler Ridge Phosphate

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Part 1

## CERTIFICATE OF ANALYSIS

VAN08008234.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	
GN-08-PH-24	Rock	0.95	0.28	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
GN-08-PH-25	Rock	1.47	24.50	134	1	0.3	0.4	1.7	1.2	0.9	6.6	<1	657.5	<0.1	6.6	134.5	278	<0.5	66.8	519.5	244.6
GN-08-PH-26	Rock	0.86	7.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	





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Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

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Part 2

## CERTIFICATE OF ANALYSIS

VAN08008234.2

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
GN-08-PH-24	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
GN-08-PH-25	Rock	116.5	49.16	223.0	38.02	9.18	46.54	6.88	43.40	9.50	25.89	3.40	18.14	2.37	3.8	9.7	4.0	617	12.3	5.4	12.8
GN-08-PH-26	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 3

## CERTIFICATE OF ANALYSIS

VAN08008234.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm	
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
GN-08-PH-24	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
GN-08-PH-25	Rock	1.6	<0.1	0.1	<0.5	0.08	0.2	7.2
GN-08-PH-26	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	



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Part 1

QUALITY CONTROL REPORT

VAN08008234.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
Reference Materials																				
STD DS7	Standard																			
STD DS7	Standard																			
STD SO-18	Standard	0.83																		
STD SO-18	Standard	0.83																		
STD SO-18	Standard		516	<1	27.4	7.2	18.0	10.2	22.7	29.2	15	415.1	7.4	10.1	16.6	209	15.7	301.0	31.9	12.3
STD SO-18	Standard		510	<1	27.3	7.1	17.9	10.4	22.3	29.2	15	415.0	7.3	10.2	16.9	208	15.7	301.7	31.8	12.3
STD SO-18 Expected		0.83	514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33	12.3
STD DS7 Expected																				
BLK	Blank	<0.01																		
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.0	<0.1	<0.1
BLK	Blank																			
Prep Wash																				
G1	Prep Blank	<0.01	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 2

# QUALITY CONTROL REPORT

VAN08008234.2

Method	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	
Reference Materials																					
STD DS7	Standard													17.4	93.2	61.0	347	46.6	50.9	6.0	
STD DS7	Standard													17.3	106.0	63.6	366	45.0	51.7	6.3	
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard	27.2	3.45	14.3	2.95	0.88	2.94	0.51	3.01	0.62	1.80	0.28	1.79	0.27							
STD SO-18	Standard	27.1	3.42	14.0	2.95	0.88	2.96	0.51	3.01	0.62	1.80	0.28	1.79	0.27							
STD SO-18 Expected		27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27							
STD DS7 Expected														20.9	109	70.6	411	56	48.2	6.4	
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	
Prep Wash																					
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Tumbler Ridge Phosphate

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November 29, 2008

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Part 3

## QUALITY CONTROL REPORT

VAN08008234.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm	
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
Reference Materials								
STD DS7	Standard	4.5	4.0	0.7	41.5	0.16	3.5	3.5
STD DS7	Standard	4.5	4.4	0.7	49.5	0.19	4.1	3.1
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18 Expected								
STD DS7 Expected		5.9	4.5	0.9	70	0.2	4.2	3.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash								
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 13, 2008

Report Date:

November 29, 2008

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## CERTIFICATE OF ANALYSIS

VAN08008248.2

### CLIENT JOB INFORMATION

Project: Tumbler Ridge  
Shipment ID:  
P.O. Number  
Number of Samples: 19

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	19	Crush, split and pulverize rock to 200 mesh		
4A	19	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	5	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

### ADDITIONAL COMMENTS

Version 2: Group 4B full suite included



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.

\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Tumbler Ridge

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08008248.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48135	Rock	0.47	24.11	2.92	1.21	3.04	34.78	0.51	1.22	0.21	2.88	0.03	0.005	181	39	350	179	43	7	3	28.9
48136	Rock	0.86	9.16	0.72	0.72	0.27	48.75	0.38	0.27	0.05	24.27	0.02	0.007	124	23	520	94	468	<5	3	15.1
48137	Rock	0.46	19.01	2.56	1.81	0.14	39.68	0.67	0.94	0.20	29.73	0.01	0.011	307	73	458	189	258	<5	3	5.1
48138	Rock	0.59	12.46	0.72	1.00	0.09	45.06	0.37	0.25	0.04	32.92	0.02	0.010	158	63	529	91	629	<5	4	6.8
48139	Rock	1.00	8.37	1.06	0.83	0.81	48.26	0.28	0.39	0.08	17.77	0.03	0.006	128	39	389	83	272	<5	2	21.9
48140	Rock	0.81	5.62	0.75	0.47	0.09	49.68	0.50	0.27	0.05	36.60	0.01	0.009	109	<20	641	73	638	<5	4	5.6
48141	Rock	0.95	13.83	0.77	0.98	0.10	45.75	0.48	0.29	0.06	32.85	0.02	0.007	72	25	538	119	631	<5	4	4.5
48142	Rock	1.28	16.39	2.75	1.46	0.24	39.95	0.45	0.98	0.17	30.45	0.02	0.018	209	65	572	134	571	5	5	6.7
48143	Rock	0.95	55.64	7.35	2.23	0.27	14.57	1.20	2.82	0.59	10.48	0.04	0.008	285	28	213	479	180	6	7	4.6
48144	Rock	0.51	49.91	9.09	4.01	0.50	12.32	0.85	3.75	0.58	8.63	0.05	0.016	411	77	214	293	225	10	11	9.8
48475	Rock	0.92	33.60	0.77	1.54	0.10	35.11	0.19	0.28	0.05	25.46	<0.01	0.020	208	20	261	43	91	<5	2	2.6
48476	Rock	0.68	94.40	0.78	1.71	0.09	0.51	0.03	0.30	0.06	0.64	<0.01	0.017	103	<20	25	39	5	<5	1	1.4
48477	Rock	0.71	29.91	0.71	0.48	0.09	37.25	0.17	0.24	0.04	28.90	<0.01	0.019	94	26	263	34	93	<5	1	2.1
48478	Rock	0.67	83.30	1.08	6.20	0.15	2.39	0.03	0.37	0.08	1.98	<0.01	0.028	95	<20	43	49	32	<5	2	4.2
48479	Rock	0.81	36.60	0.65	0.58	0.10	34.24	0.20	0.23	0.04	24.98	<0.01	0.020	191	<20	261	38	82	<5	2	2.2
48480	Rock	0.68	35.06	0.61	0.61	0.10	35.19	0.19	0.23	0.04	25.39	<0.01	0.021	186	<20	279	37	78	<5	2	2.4
48535	Rock	1.10	11.19	1.20	0.77	0.17	46.93	0.49	0.41	0.09	28.62	0.02	0.008	120	<20	519	106	581	<5	4	9.8
48536	Rock	0.73	7.28	1.02	0.74	0.12	48.21	0.56	0.35	0.07	36.09	0.02	0.010	121	<20	701	101	872	<5	5	5.2
48235	Rock	0.64	77.85	0.54	10.05	0.06	4.17	0.04	0.10	0.02	3.46	<0.01	0.013	2091	22	104	14	41	5	<1	3.4



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Project: Tumbler Ridge

Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08008248.2

Method	Analyte	4A 2A Leco 2A Leco			4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
48135	Rock	99.89	8.76	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48136	Rock	99.88	5.05	0.44	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48137	Rock	99.97	1.81	0.48	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48138	Rock	99.89	2.70	0.46	100	<1	0.3	0.3	1.4	1.6	0.9	7.4	<1	556.6	<0.1	6.0	139.8	325	<0.5	86.1	583.8
48139	Rock	99.89	7.08	0.38	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48140	Rock	99.79	2.07	0.44	113	<1	0.4	0.4	2.5	1.4	0.9	7.8	<1	645.6	<0.1	5.2	164.4	402	<0.5	73.6	567.6
48141	Rock	99.79	2.05	0.43	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48142	Rock	99.73	2.72	0.44	197	1	2.0	1.4	5.2	3.2	3.3	27.9	<1	614.9	0.2	7.4	182.2	1133	<0.5	144.5	541.3
48143	Rock	99.91	1.19	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48144	Rock	99.64	4.13	0.29	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48475	Rock	99.75	0.79	0.71	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48476	Rock	99.95	0.25	0.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48477	Rock	99.94	0.82	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48478	Rock	99.81	0.27	4.06	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48479	Rock	99.90	0.80	0.34	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48480	Rock	99.87	0.80	0.31	207	<1	<0.2	0.7	1.9	0.5	1.3	9.5	<1	276.4	<0.1	1.1	119.3	253	<0.5	28.6	76.0
48535	Rock	99.85	3.44	0.40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48536	Rock	99.84	1.49	0.44	125	1	1.9	0.5	2.6	1.6	1.4	9.7	<1	713.6	<0.1	8.4	182.3	340	<0.5	87.1	752.9
48235	Rock	99.95	0.12	1.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Report Date: November 29, 2008

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CERTIFICATE OF ANALYSIS

VAN08008248.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48135	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48136	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48137	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48138	Rock	271.0	110.8	54.37	242.4	41.73	10.13	51.92	7.67	48.50	10.68	29.93	4.01	21.14	2.72	2.3	9.9	4.2	67	19.2	4.1
48139	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48140	Rock	277.0	128.4	53.83	241.8	40.12	9.60	50.31	7.39	46.19	10.36	28.50	3.79	19.29	2.54	4.2	11.1	5.6	248	17.2	6.9
48141	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48142	Rock	262.7	130.8	50.31	227.1	37.79	9.19	46.31	7.01	43.81	9.77	27.39	3.63	19.34	2.48	41.6	32.3	7.5	465	42.1	18.8
48143	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48144	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48475	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48476	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48477	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48478	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48479	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48480	Rock	47.5	45.8	10.99	44.3	7.47	1.79	8.35	1.23	6.55	1.39	3.93	0.53	2.92	0.41	1.8	4.4	2.6	607	3.6	0.6
48535	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48536	Rock	359.6	173.0	69.55	312.8	51.60	12.71	65.26	9.44	61.26	13.53	36.80	4.91	25.61	3.32	2.2	5.8	5.3	254	3.3	5.3
48235	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 4

## CERTIFICATE OF ANALYSIS

VAN08008248.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
48135	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48136	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48137	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48138	Rock	1.5	2.2	<0.1	0.2	<0.5	0.05	<0.1	7.8
48139	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48140	Rock	14.7	2.2	<0.1	0.2	<0.5	0.06	<0.1	4.8
48141	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48142	Rock	17.2	8.2	<0.1	0.7	<0.5	0.11	0.3	8.2
48143	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48144	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48475	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48476	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48477	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48478	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48479	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48480	Rock	12.2	0.2	<0.1	0.7	<0.5	0.03	<0.1	3.7
48535	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48536	Rock	11.4	1.3	<0.1	<0.1	<0.5	0.05	<0.1	6.5
48235	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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QUALITY CONTROL REPORT

VAN08008248.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
Pulp Duplicates																					
REP G1	QC	66.53	15.74	3.47	1.26	3.84	3.52	3.45	0.41	0.21	0.10	0.003	938	<20	768	142	18	22	6	1.2	
48142	Rock	1.28	16.39	2.75	1.46	0.24	39.95	0.45	0.98	0.17	30.45	0.02	0.018	209	65	572	134	571	5	5	6.7
REP 48142	QC																				
48536	Rock	0.73	7.28	1.02	0.74	0.12	48.21	0.56	0.35	0.07	36.09	0.02	0.010	121	<20	701	101	872	<5	5	5.2
REP 48536	QC		7.26	1.00	0.78	0.12	48.42	0.56	0.35	0.07	35.84	0.02	0.010	123	<20	701	95	869	<5	5	5.2
Reference Materials																					
STD CSC	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard	58.20	14.07	7.52	3.34	6.39	3.69	2.15	0.69	0.82	0.39	0.548	476	43	396	295	32	20	25	1.9	
STD SO-18	Standard	58.08	14.09	7.58	3.33	6.39	3.70	2.15	0.69	0.82	0.39	0.549	473	40	398	295	32	21	25	1.9	
STD SO-18	Standard	58.07	14.09	7.64	3.34	6.38	3.70	2.16	0.69	0.80	0.39	0.549	479	57	400	302	32	20	25	1.9	
STD SO-18	Standard	58.04	14.09	7.60	3.34	6.38	3.72	2.16	0.69	0.82	0.39	0.551	481	41	402	300	31	21	25	1.9	
STD SO-18	Standard	57.90	14.18	7.64	3.36	6.40	3.71	2.15	0.69	0.84	0.39	0.554	483	51	401	297	32	22	25	1.9	
STD SO-18	Standard	57.98	14.16	7.61	3.35	6.38	3.72	2.16	0.69	0.83	0.39	0.555	486	53	400	300	32	19	25	1.9	
STD SO-18	Standard																				
STD SO-18	Standard																				
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
STD DS7 Expected																					
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																				
BLK	Blank																				

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QUALITY CONTROL REPORT

VAN08008248.2

Method		4A	2A	Leco	2A	Leco	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Pulp Duplicates																					
REP G1	QC	99.93																			
48142	Rock	99.73	2.72	0.44	197	1	2.0	1.4	5.2	3.2	3.3	27.9	<1	614.9	0.2	7.4	182.2	1133	<0.5	144.5	541.3
REP 48142	QC																				
48536	Rock	99.84	1.49	0.44	125	1	1.9	0.5	2.6	1.6	1.4	9.7	<1	713.6	<0.1	8.4	182.3	340	<0.5	87.1	752.9
REP 48536	QC	99.79																			
Reference Materials																					
STD CSC	Standard		3.01	4.33																	
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard		0.16	17.05																	
STD SO-18	Standard	99.88																			
STD SO-18	Standard	99.83																			
STD SO-18	Standard	99.87																			
STD SO-18	Standard	99.83																			
STD SO-18	Standard	99.88																			
STD SO-18	Standard	99.90																			
STD SO-18	Standard				516	<1	27.4	7.2	18.0	10.2	22.7	29.2	15	415.1	7.4	10.1	16.6	209	15.7	301.0	31.9
STD SO-18	Standard				510	<1	27.3	7.1	17.9	10.4	22.3	29.2	15	415.0	7.3	10.2	16.9	208	15.7	301.7	31.8
STD CSC Expected			2.94	4.25																	
STD OREAS76A Expected			0.16	18																	
STD SO-18 Expected					514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33
STD DS7 Expected																					
BLK	Blank	<0.01																			
BLK	Blank	<0.01																			
BLK	Blank		<0.02	<0.02																	
BLK	Blank	<0.01																			
BLK	Blank				<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.0	<0.1
BLK	Blank																				

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Part 3

# QUALITY CONTROL REPORT

VAN08008248.2

Method	Analyte	Unit	MDL	4B La	4B Ce	4B Pr	4B Nd	4B Sm	4B Eu	4B Gd	4B Tb	4B Dy	4B Ho	4B Er	4B Tm	4B Yb	4B Lu	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Pulp Duplicates				0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
REP G1	QC																						
48142	Rock			262.7	130.8	50.31	227.1	37.79	9.19	46.31	7.01	43.81	9.77	27.39	3.63	19.34	2.48	41.6	32.3	7.5	465	42.1	18.8
REP 48142	QC																	40.6	32.9	7.5	476	45.1	18.5
48536	Rock			359.6	173.0	69.55	312.8	51.60	12.71	65.26	9.44	61.26	13.53	36.80	4.91	25.61	3.32	2.2	5.8	5.3	254	3.3	5.3
REP 48536	QC																						
Reference Materials																							
STD CSC	Standard																						
STD DS7	Standard																	17.4	93.2	61.0	347	46.6	50.9
STD DS7	Standard																	17.3	106.0	63.6	366	45.0	51.7
STD OREAS76A	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard			12.3	27.2	3.45	14.3	2.95	0.88	2.94	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD SO-18	Standard			12.3	27.1	3.42	14.0	2.95	0.88	2.96	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD CSC Expected																							
STD OREAS76A Expected																							
STD SO-18 Expected				12.3	27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27						
STD DS7 Expected																		20.9	109	70.6	411	56	48.2
BLK	Blank																						
BLK	Blank																						
BLK	Blank																						
BLK	Blank																						
BLK	Blank			<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01						
BLK	Blank																	<0.1	<0.1	<0.1	<1	<0.1	<0.5



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Part 4

## QUALITY CONTROL REPORT

VAN08008248.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
Pulp Duplicates									
REP G1	QC								
48142	Rock	17.2	8.2	<0.1	0.7	<0.5	0.11	0.3	8.2
REP 48142	QC	17.0	8.0	<0.1	0.7	<0.5	0.10	0.3	8.1
48536	Rock	11.4	1.3	<0.1	<0.1	<0.5	0.05	<0.1	6.5
REP 48536	QC								
Reference Materials									
STD CSC	Standard								
STD DS7	Standard	6.0	4.5	4.0	0.7	41.5	0.16	3.5	3.5
STD DS7	Standard	6.3	4.5	4.4	0.7	49.5	0.19	4.1	3.1
STD OREAS76A	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD CSC Expected									
STD OREAS76A Expected									
STD SO-18 Expected									
STD DS7 Expected		6.4	5.9	4.5	0.9	70	0.2	4.2	3.5
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5



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Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge

Report Date:

November 29, 2008

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Part 1

## QUALITY CONTROL REPORT

VAN08008248.2

		WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	1	-5.1
Prep Wash																						
G1	Prep Blank																					
G1	Prep Blank		66.65	15.51	3.60	1.30	3.60	3.40	3.88	0.42	0.22	0.10	0.002	1124	<20	734	152	18	24	6	1.0	
G1	Prep Blank		66.69	15.64	3.37	1.25	3.81	3.55	3.52	0.40	0.21	0.09	0.005	919	<20	762	137	17	21	6	1.2	



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Part 2

# QUALITY CONTROL REPORT

VAN08008248.2

		4A	2A	Leco	2A	Leco	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Prep Wash		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
G1	Prep Blank	0.05	<0.02		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	99.92	0.04	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	99.94																			





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Part 3

## QUALITY CONTROL REPORT

VAN08008248.2

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Prep Wash		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank																				



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November 29, 2008

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Part 4

## QUALITY CONTROL REPORT

VAN08008248.2

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Prep Wash									
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank								



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Client:

Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Submitted By:

Wayne Roberts

Receiving Lab:

Canada-Vancouver

Received:

August 29, 2008

Report Date:

November 27, 2008

Page:

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## CERTIFICATE OF ANALYSIS

VAN08008821.2

### CLIENT JOB INFORMATION

Project: Tumbler Ridge  
Shipment ID:  
P.O. Number  
Number of Samples: 99

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: George Norman  
John Brock  
Michael Renning

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	99	Crush, split and pulverize rock to 200 mesh		
4A	99	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	2	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

### ADDITIONAL COMMENTS

Version 2: Group 4B full suite included



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.

“\*\*” asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Tumbler Ridge

Report Date: November 27, 2008

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	1	-5.1
47162	Rock	2.38	26.59	3.99	1.66	3.88	29.64	0.45	1.71	0.26	1.88	0.03	0.011	145	87	239	148	36	12	5	29.5
47163	Rock	2.34	19.65	3.11	1.22	5.63	33.34	0.36	1.40	0.21	2.29	0.03	0.007	153	37	243	103	37	10	3	32.5
47164	Rock	1.46	24.51	3.42	1.27	3.17	33.15	0.53	1.52	0.23	6.01	0.02	0.006	164	57	291	145	77	7	5	25.9
47165	Rock	1.62	15.02	2.41	1.24	2.01	40.45	0.28	1.02	0.16	2.20	0.03	0.009	119	105	294	91	34	11	3	34.7
47166	Rock	1.28	26.53	3.89	1.52	4.11	30.58	0.49	1.67	0.27	1.51	0.03	0.009	158	59	271	145	33	11	4	29.1
47167	Rock	1.67	33.96	5.80	2.41	5.76	21.11	0.49	2.41	0.37	0.99	0.04	0.014	222	135	162	204	32	15	6	26.2
47168	Rock	1.89	20.86	3.96	2.06	2.38	34.45	0.35	1.66	0.25	0.60	0.03	0.008	161	77	200	117	24	14	4	33.1
47169	Rock	1.74	38.84	6.57	2.75	2.64	22.97	0.84	2.61	0.44	5.87	0.03	0.008	295	46	242	222	60	12	7	16.2
47170	Rock	2.08	40.60	7.43	2.33	3.85	17.02	0.83	2.91	0.49	0.31	0.03	0.007	338	31	132	205	21	11	7	24.0
47171	Rock	1.72	25.23	4.24	2.64	2.43	37.33	0.61	1.60	0.30	4.79	0.04	0.007	187	29	288	148	63	13	4	20.5
47172	Rock	1.41	27.49	4.76	2.38	3.31	31.48	0.62	1.74	0.33	0.15	0.05	<0.002	273	<20	141	159	18	13	5	27.5
47173	Rock	1.79	58.53	9.91	3.21	2.66	7.99	1.13	3.98	0.68	0.44	0.04	0.009	346	30	99	356	35	17	10	11.2
47174	Rock	1.40	13.15	2.22	1.01	1.14	43.60	0.31	0.89	0.14	10.03	0.03	0.006	93	51	330	81	86	<5	3	27.2
47176	Rock	1.61	28.75	5.60	2.51	2.58	26.16	0.45	2.31	0.36	0.42	0.03	0.013	194	106	166	161	26	12	6	30.4
47177	Rock	1.55	20.83	3.59	1.76	2.84	34.91	0.38	1.56	0.24	0.19	0.03	0.006	145	38	218	126	18	18	4	33.5
47178	Rock	1.71	25.39	4.32	1.80	4.03	29.84	0.38	1.88	0.28	0.40	0.03	0.009	149	96	189	137	20	10	5	31.3
47179	Rock	1.39	29.67	4.81	2.04	4.94	25.92	0.50	2.13	0.32	1.05	0.04	0.014	162	69	249	162	35	11	5	28.3
47180	Rock	1.74	18.66	3.11	1.27	2.07	38.54	0.33	1.32	0.20	2.21	0.02	0.008	122	68	257	114	34	9	3	32.0
47181	Rock	1.56	14.82	2.37	0.84	3.08	40.86	0.32	1.02	0.15	6.25	0.02	0.004	102	35	324	94	52	17	3	30.1
47182	Rock	1.65	30.08	5.31	1.72	7.66	22.93	0.50	2.27	0.35	2.38	0.05	0.012	186	43	192	171	44	16	6	26.5
47183	Rock	1.32	23.58	3.73	1.21	5.53	30.04	0.40	1.57	0.26	2.67	0.04	0.009	148	43	254	133	50	18	4	30.6
47184	Rock	1.39	26.70	5.49	2.93	3.84	25.40	0.42	2.25	0.32	7.90	0.02	0.015	217	448	307	153	109	13	7	23.8
47185	Rock	1.37	36.21	6.32	2.83	5.78	16.58	0.53	2.58	0.42	3.27	0.05	0.024	219	367	165	237	61	19	7	24.5
47186	Rock	1.65	26.53	5.48	2.28	3.71	26.90	0.39	2.27	0.33	0.86	0.03	0.014	189	207	212	133	34	15	6	30.5
47187	Rock	2.11	18.81	3.12	1.34	2.13	37.26	0.36	1.33	0.20	0.83	0.02	0.010	121	69	292	102	24	8	4	34.2
47188	Rock	1.77	26.25	4.76	1.80	2.48	30.85	0.50	1.94	0.31	0.85	0.02	0.012	153	78	223	146	28	7	5	29.9
47189	Rock	2.33	39.20	7.05	2.36	3.19	21.22	0.79	2.83	0.49	6.07	0.03	0.009	232	40	207	232	50	11	7	16.5
47191	Rock	1.35	55.12	9.30	2.81	3.41	9.79	1.06	3.71	0.64	0.34	0.04	0.009	319	33	104	328	31	14	9	13.5
47192	Rock	1.06	52.54	8.74	2.94	3.79	11.56	1.02	3.51	0.60	0.67	0.04	0.008	300	27	112	322	37	16	8	14.3
47193	Rock	1.34	53.79	9.13	3.14	3.55	10.16	0.99	3.64	0.62	0.27	0.04	0.008	289	23	101	318	29	13	9	14.5

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.



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Project:

Tumbler Ridge

Report Date:

November 27, 2008

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Part 2

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	4A 2A Leco 2A Leco		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B		
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	
Unit		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
47162	Rock	99.73	8.31	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47163	Rock	99.82	9.91	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47164	Rock	99.83	8.54	0.56	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47165	Rock	99.57	11.31	0.56	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47166	Rock	99.83	9.36	0.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47167	Rock	99.64	8.86	0.33	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47168	Rock	99.82	10.21	0.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47169	Rock	99.85	5.32	1.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47170	Rock	99.88	6.09	1.48	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47171	Rock	99.75	7.64	0.96	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47172	Rock	99.92	8.19	1.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47173	Rock	99.90	3.33	0.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47174	Rock	99.83	8.88	0.27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47176	Rock	99.70	9.80	0.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47177	Rock	99.88	10.21	0.18	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47178	Rock	99.78	9.80	0.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47179	Rock	99.83	8.65	0.12	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47180	Rock	99.78	9.93	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47181	Rock	99.86	9.64	0.27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47182	Rock	99.82	8.32	0.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47183	Rock	99.76	8.97	0.16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47184	Rock	99.27	9.24	0.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47185	Rock	99.26	9.35	0.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47186	Rock	99.38	10.55	0.27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47187	Rock	99.73	10.21	0.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47188	Rock	99.78	8.97	0.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47189	Rock	99.86	5.03	0.20	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47191	Rock	99.88	3.85	0.13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47192	Rock	99.86	4.36	0.40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47193	Rock	99.90	4.06	0.10	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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Project:

Tumbler Ridge

Report Date:

November 27, 2008

Page:

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Part 3

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
47162	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47163	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47164	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47165	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47166	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47167	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47168	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47169	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47170	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47171	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47172	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47173	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47174	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47176	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47177	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47178	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47179	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47180	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47181	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47182	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47183	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47184	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47185	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47186	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47187	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47188	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47189	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47191	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47192	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47193	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Project:

Tumbler Ridge

Report Date:

November 27, 2008

Page:

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Part 4

# CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
47162	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47163	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47164	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47165	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47166	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47167	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47168	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47169	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47170	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47171	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47172	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47173	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47174	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47176	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47177	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47178	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47179	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47180	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47181	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47182	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47183	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47184	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47185	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47186	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47187	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47188	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47189	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47191	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47192	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47193	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Tumbler Ridge

Report Date: November 27, 2008

Page: 3 of 5 Part 1

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
47194	Rock	2.30	26.67	5.04	2.35	2.23	30.19	0.64	2.08	0.32	12.22	0.02	0.015	232	88	358	149	142	14	6	17.7
47195	Rock	1.01	57.19	9.87	3.69	2.98	8.37	0.87	4.34	0.62	0.15	0.06	0.010	307	47	85	239	26	23	10	11.6
47196	Rock	1.15	61.76	10.61	3.63	3.16	4.71	0.96	4.51	0.70	0.19	0.05	0.011	421	43	77	276	30	19	10	9.5
47197	Rock	1.79	50.26	7.42	3.53	5.45	11.62	0.73	3.09	0.48	0.13	0.09	0.012	383	34	97	190	24	9	7	17.0
47198	Rock	1.91	31.38	5.41	2.28	3.44	27.55	0.72	2.18	0.37	0.22	0.04	0.006	324	35	138	191	20	8	5	26.2
48537	Rock	1.70	58.05	10.09	3.42	2.90	7.32	1.12	4.36	0.67	0.27	0.04	0.009	341	48	96	327	33	15	10	11.6
48538	Rock	1.93	50.30	9.24	3.01	4.99	10.85	0.98	3.88	0.60	0.25	0.05	0.008	295	40	106	280	31	9	9	15.6
48539	Rock	2.08	59.03	10.31	2.88	2.74	7.36	1.13	4.28	0.70	0.26	0.03	0.009	315	52	92	338	31	11	9	11.1
48540	Rock	1.91	31.20	5.23	2.01	3.24	28.50	0.65	2.11	0.36	0.37	0.05	0.004	281	22	149	178	19	<5	5	26.2
48541	Rock	1.95	37.01	7.37	3.27	2.35	20.46	0.64	3.10	0.46	2.34	0.03	0.019	273	141	164	209	53	9	8	22.4
48542	Rock	2.44	39.02	7.84	3.27	3.06	17.71	0.67	3.30	0.48	2.09	0.03	0.021	279	167	160	227	67	10	9	22.0
48543	Rock	1.44	19.59	3.57	1.46	2.51	36.54	0.38	1.44	0.23	1.09	0.03	0.009	122	98	235	120	28	9	4	32.8
48544	Rock	1.75	18.46	2.95	1.06	4.91	35.67	0.37	1.31	0.19	1.58	0.03	0.005	131	28	278	112	30	<5	3	33.3
48545	Rock	1.94	32.03	5.36	1.59	6.65	22.79	0.60	2.35	0.36	4.07	0.05	0.009	210	58	219	198	60	7	6	23.9
48546	Rock	2.76	21.20	3.26	0.96	4.92	33.77	0.44	1.44	0.22	2.48	0.03	0.004	150	35	257	133	38	<5	4	31.1
48547	Rock	1.53	17.72	3.05	1.08	6.95	33.12	0.31	1.39	0.19	1.90	0.04	0.006	125	39	241	97	37	<5	3	34.1
48548	Rock	1.47	29.70	5.31	1.58	5.43	25.60	0.60	2.32	0.35	5.74	0.04	0.009	194	49	287	172	75	<5	6	23.1
48549	Rock	2.30	29.70	4.69	1.40	6.50	25.23	0.53	2.17	0.31	6.20	0.04	0.008	333	55	267	188	76	6	6	22.9
48550	Rock	2.59	21.31	4.06	1.58	3.38	33.95	0.38	1.71	0.25	1.29	0.03	0.008	136	79	241	116	26	<5	4	31.7
48651	Rock	1.40	61.99	1.62	1.08	0.47	18.15	0.19	0.60	0.11	11.93	0.01	0.025	238	<20	167	68	56	<5	3	3.7
48652	Rock	1.17	73.66	8.78	3.56	0.69	2.88	0.66	3.40	0.55	1.95	0.08	0.015	501	30	74	220	39	8	9	3.6
48653	Rock	1.16	68.71	7.95	3.29	0.59	6.48	0.62	2.89	0.48	4.92	0.07	0.014	453	33	104	190	50	11	8	3.8
48654	Rock	0.86	77.41	8.69	4.01	0.62	0.36	0.66	3.23	0.54	0.41	0.12	0.015	907	29	55	210	27	6	8	3.8
48655	Rock	1.26	88.39	3.59	2.48	0.32	0.58	0.37	1.36	0.25	0.41	0.03	0.021	237	<20	36	184	17	8	3	2.1
48656	Rock	1.24	39.43	6.71	2.07	3.33	22.06	0.76	2.86	0.45	0.67	0.04	0.006	219	41	164	229	28	7	6	21.5
48657	Rock	1.36	58.01	6.77	2.25	3.93	10.36	0.91	3.02	0.43	0.79	0.16	0.006	408	57	99	314	36	13	7	13.1
48701	Rock	0.97	28.83	4.74	2.03	3.71	28.13	0.44	2.09	0.30	1.85	0.03	0.010	175	96	191	166	49	8	5	27.5
48702	Rock	0.90	20.63	3.76	1.53	3.10	35.37	0.35	1.61	0.23	3.03	0.03	0.010	145	114	294	121	38	<5	4	30.0
48703	Rock	1.03	21.79	3.94	1.40	2.31	34.65	0.49	1.74	0.25	8.69	0.02	0.011	451	122	389	130	102	8	5	24.3
48704	Rock	1.53	14.63	2.11	0.68	2.72	40.47	0.43	0.98	0.14	14.93	0.02	0.005	294	47	489	90	135	8	4	22.5

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.





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Project:

Tumbler Ridge

Report Date:

November 27, 2008

Page:

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Part 2

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	4A 2A Leco 2A Leco		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B		
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	
Unit		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
47194	Rock	99.61	7.52	1.71	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47195	Rock	99.89	4.00	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47196	Rock	99.90	3.03	1.58	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47197	Rock	99.90	5.49	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47198	Rock	99.93	7.78	1.37	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48537	Rock	99.95	3.90	0.55	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48538	Rock	99.86	5.09	1.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48539	Rock	99.92	3.46	0.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48540	Rock	99.95	7.84	0.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48541	Rock	99.59	8.92	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48542	Rock	99.60	8.66	0.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48543	Rock	99.76	10.92	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48544	Rock	99.87	10.16	0.36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48545	Rock	99.84	7.41	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48546	Rock	99.88	9.64	0.33	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48547	Rock	99.88	10.63	0.13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48548	Rock	99.85	7.34	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48549	Rock	99.83	7.21	0.22	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48550	Rock	99.71	10.24	0.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48651	Rock	99.92	1.05	0.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48652	Rock	99.95	0.72	0.07	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48653	Rock	99.91	0.68	0.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48654	Rock	99.97	0.78	0.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48655	Rock	99.97	0.40	0.23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48656	Rock	99.95	6.78	0.87	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48657	Rock	99.82	4.29	0.80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48701	Rock	99.71	10.26	1.37	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48702	Rock	99.70	10.43	1.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48703	Rock	99.72	9.09	1.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48704	Rock	99.79	8.43	0.80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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Project:

Tumbler Ridge

Report Date:

November 27, 2008

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Part 3

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
47194	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47195	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47196	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47197	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
47198	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48537	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48538	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48539	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48540	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48541	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48542	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48543	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48544	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48545	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48546	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48547	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48548	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48549	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48550	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48651	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48652	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48653	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48654	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48655	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48656	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48657	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48701	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48702	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48703	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48704	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	

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.



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Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge

Report Date:

November 27, 2008

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Part 4

## CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
47194	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47195	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47196	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47197	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
47198	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48537	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48538	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48539	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48540	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48541	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48542	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48543	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48544	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48545	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48546	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48547	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48548	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48549	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48550	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48651	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48652	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48653	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48654	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48655	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48656	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48657	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48701	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48702	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48703	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48704	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Tumbler Ridge

Report Date: November 27, 2008

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CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
			Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	1	-5.1
48705	Rock	0.93	26.85	3.92	1.27	4.74	29.62	0.58	1.73	0.27	5.22	0.03	0.008	299	77	292	179	80	6	5	25.4
48851	Rock	1.09	38.89	0.59	0.30	0.12	32.99	0.16	0.22	0.04	24.47	<0.01	0.015	82	<20	263	36	96	<5	2	2.1
48852	Rock	0.64	1.60	0.26	0.14	0.86	54.11	0.04	0.11	0.01	<0.01	<0.01	<0.002	9	<20	409	<5	<3	5	<1	42.8
48853	Rock	1.34	38.03	6.67	2.72	2.16	23.39	0.80	2.75	0.44	6.05	0.03	0.006	235	86	216	212	51	9	7	16.7
48854	Rock	1.05	30.12	5.08	2.08	4.80	26.23	0.53	2.21	0.33	1.46	0.04	0.012	214	97	209	186	38	10	6	26.8
48855	Rock	1.03	21.69	4.11	1.72	2.35	34.64	0.44	1.75	0.25	1.88	0.02	0.010	184	104	242	115	38	7	5	30.8
48856	Rock	1.09	17.99	2.74	0.88	2.98	38.47	0.41	1.18	0.18	0.93	0.03	0.005	110	38	273	94	24	6	3	34.1
48857	Rock	0.90	41.95	7.22	3.69	3.30	19.55	0.87	2.94	0.48	1.85	0.03	0.006	235	55	171	222	34	16	7	17.9
48858	Rock	0.71	45.66	7.93	3.07	2.83	17.63	0.93	3.27	0.54	0.33	0.05	0.006	264	53	107	270	28	13	8	17.6
48859	Rock	0.95	56.06	10.28	3.57	3.46	7.66	1.09	4.34	0.67	0.25	0.03	0.008	297	45	92	326	31	10	10	12.4
48860	Rock	1.02	20.69	3.06	1.09	3.13	36.76	0.44	1.39	0.20	2.27	0.02	0.007	184	84	272	123	36	10	4	30.7
48861	Rock	1.38	14.16	2.46	1.19	2.05	42.26	0.25	1.04	0.15	1.44	0.02	0.008	107	108	265	85	26	<5	4	34.6
48862	Rock	0.86	31.87	5.63	2.43	6.00	22.65	0.61	2.39	0.37	0.67	0.03	0.010	176	78	160	196	28	<5	7	27.0
48863	Rock	1.28	23.90	3.89	2.07	3.04	33.42	0.52	1.74	0.26	4.11	0.03	0.005	203	56	221	151	61	16	5	26.7
48864	Rock	1.05	47.66	8.67	2.89	4.71	13.33	0.87	3.78	0.58	0.19	0.04	0.007	292	35	101	274	25	11	9	17.0
48865	Rock	1.30	23.27	4.45	1.60	9.26	24.57	0.37	1.97	0.28	1.92	0.04	0.009	182	89	190	128	33	8	5	31.8
48866	Rock	0.80	21.80	3.98	1.53	3.71	31.37	0.52	1.72	0.25	13.38	0.02	0.010	372	110	433	132	149	8	6	21.2
48867	Rock	1.22	20.98	4.02	2.25	9.99	26.16	0.30	1.94	0.24	0.39	0.04	0.007	141	144	173	112	29	8	5	33.2
48868	Rock	0.77	36.20	7.60	4.39	4.53	11.30	0.48	3.18	0.46	0.46	0.02	0.030	256	504	101	216	44	5	9	29.8
48869	Rock	0.67	24.37	3.83	2.01	7.86	26.26	0.35	1.80	0.25	1.64	0.03	0.008	185	118	231	133	64	13	5	31.2
48870	Rock	1.03	18.16	3.46	2.07	12.75	24.88	0.25	1.68	0.21	0.21	0.04	0.005	119	119	149	95	22	5	4	35.9
48871	Rock	0.89	15.24	2.65	1.39	1.90	40.48	0.31	1.15	0.17	2.21	0.03	0.008	109	67	294	82	35	<5	3	34.1
48872	Rock	0.73	23.08	3.77	1.33	3.67	33.12	0.49	1.64	0.24	1.15	0.02	0.007	137	44	248	127	26	<5	5	31.3
48873	Rock	1.03	48.96	8.92	3.11	2.32	13.98	0.77	3.91	0.58	0.41	0.03	0.011	277	123	117	269	33	8	9	16.6
48874	Rock	0.92	57.77	10.56	3.93	3.18	6.30	0.93	4.77	0.69	0.35	0.05	0.008	326	96	86	330	34	7	10	11.2
48901	Rock	1.10	64.91	10.28	2.37	2.62	4.70	1.50	4.89	0.58	0.40	0.09	0.007	343	21	71	298	25	12	9	7.5
48902	Rock	2.42	52.52	8.27	2.52	5.66	9.25	0.27	5.55	0.53	0.11	0.14	0.007	375	21	63	227	28	13	8	14.9
48903	Rock	2.04	49.42	1.21	8.77	0.23	19.28	0.13	0.52	0.08	14.61	0.01	0.033	19963	<20	488	57	169	<5	3	3.2
48904	Rock	2.13	36.25	1.46	3.35	0.23	29.90	0.19	0.64	0.09	23.67	<0.01	0.031	14010	<20	461	70	180	7	4	2.4
48951	Rock	1.10	16.99	2.88	1.46	2.21	39.34	0.33	1.21	0.19	2.28	0.03	0.009	306	102	257	98	46	7	4	32.6

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.



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Project:

Tumbler Ridge

Report Date:

November 27, 2008

Page:

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Part 2

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method Analyte Unit MDL	Rock	4A 2A Leco 2A Leco		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1
48705	Rock	99.75	9.22	1.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48851	Rock	99.95	0.94	0.19	111	<1	0.5	0.7	1.7	0.7	1.2	8.8	<1	278.9	<0.1	1.6	84.1	170	<0.5	35.5	97.8
48852	Rock	100.00	12.30	0.03	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48853	Rock	99.85	5.38	0.29	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48854	Rock	99.80	9.21	0.63	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48855	Rock	99.79	10.33	0.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48856	Rock	99.92	10.41	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48857	Rock	99.87	5.85	1.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48858	Rock	99.90	5.39	0.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48859	Rock	99.90	4.41	1.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48860	Rock	99.84	10.38	0.79	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48861	Rock	99.68	11.45	0.75	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48862	Rock	99.76	9.33	1.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48863	Rock	99.74	8.84	1.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48864	Rock	99.84	5.45	1.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48865	Rock	99.63	11.04	0.68	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48866	Rock	99.60	8.89	1.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48867	Rock	99.62	11.54	1.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48868	Rock	98.63	16.18	2.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48869	Rock	99.67	11.25	0.78	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48870	Rock	99.64	11.71	0.64	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48871	Rock	99.72	10.99	0.67	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48872	Rock	99.85	9.78	0.50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48873	Rock	99.69	5.80	0.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48874	Rock	99.83	3.60	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48901	Rock	99.91	2.07	0.11	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48902	Rock	99.84	4.23	0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48903	Rock	99.81	0.30	0.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48904	Rock	99.84	0.40	0.54	13285	1	2.1	1.8	4.4	1.5	2.4	20.4	<1	501.8	0.3	3.4	38.7	261	<0.5	70.7	179.4
48951	Rock	99.65	11.04	0.80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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Project:

Tumbler Ridge

Report Date:

November 27, 2008

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Part 3

CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48705	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48851	Rock	69.9	52.7	15.91	67.4	10.55	2.48	11.13	1.62	8.75	1.87	5.02	0.69	3.83	0.56	1.4	4.0	2.0	3	9.9	1.0
48852	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48853	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48854	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48855	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48856	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48857	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48858	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48859	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48860	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48861	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48862	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48863	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48864	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48865	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48866	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48867	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48868	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48869	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48870	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48871	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48872	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48873	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48874	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48901	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48902	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48903	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48904	Rock	85.7	77.6	26.43	113.5	18.66	5.09	19.88	2.85	16.39	3.37	9.13	1.21	6.85	0.98	2.9	7.3	36.8	498	9.9	14.6
48951	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

Tumbler Ridge

Report Date:

November 27, 2008

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Part 4

# CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48705	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48851	Rock	0.1	0.2	<0.1	0.5	<0.5	0.03	<0.1	3.4
48852	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48853	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48854	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48855	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48856	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48857	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48858	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48859	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48860	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48861	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48862	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48863	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48864	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48865	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48866	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48867	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48868	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48869	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48870	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48871	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48872	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48873	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48874	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48901	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48902	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48903	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48904	Rock	7.7	2.0	<0.1	0.8	<0.5	0.10	0.1	2.6
48951	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Tumbler Ridge

Report Date: November 27, 2008

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CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
48952	Rock	0.54	30.14	5.19	1.72	5.50	24.73	0.54	2.30	0.35	0.99	0.03	0.009	340	63	214	195	42	<5	6	28.1
48953	Rock	0.85	14.78	2.27	0.97	3.93	39.15	0.34	1.06	0.15	3.66	0.03	0.004	136	41	338	79	44	<5	3	33.4
48954	Rock	1.03	18.79	3.53	1.48	2.18	36.64	0.36	1.50	0.22	1.07	0.02	0.010	142	94	224	104	28	6	4	33.7
48955	Rock	0.98	16.98	2.46	0.72	5.34	36.55	0.39	1.12	0.19	0.72	0.04	0.004	172	<20	206	104	21	<5	3	35.3
48956	Rock	0.99	30.62	6.84	2.80	6.15	19.38	0.38	3.02	0.40	0.28	0.03	0.016	265	227	146	156	32	7	7	29.2
48957	Rock	1.02	20.58	3.95	2.52	9.16	26.45	0.29	1.88	0.24	0.37	0.04	0.011	177	349	212	117	29	<5	4	33.8
48958	Rock	0.90	44.13	7.97	2.87	3.97	12.92	0.76	3.41	0.51	0.55	0.03	0.013	325	215	123	252	42	<5	8	22.3
48959	Rock	1.31	26.65	5.09	1.80	9.56	22.96	0.44	2.46	0.32	0.25	0.05	0.008	200	84	149	135	23	<5	5	30.0
48960	Rock	2.58	12.13	1.94	1.48	1.15	44.52	0.46	0.85	0.14	15.24	0.02	0.009	187	45	573	85	330	<5	5	21.8





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Project: Tumbler Ridge

Report Date: November 27, 2008

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CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	Analyte	4A 2A Leco 2A Leco			4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	
48952	Rock	99.67	10.27	0.94	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48953	Rock	99.83	10.38	0.43	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48954	Rock	99.59	10.62	0.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48955	Rock	99.90	10.50	0.28	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48956	Rock	99.22	12.14	0.61	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48957	Rock	99.43	12.29	1.05	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48958	Rock	99.55	10.72	0.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48959	Rock	99.66	9.95	0.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48960	Rock	99.86	7.23	0.74	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	



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Project: Tumbler Ridge

Report Date: November 27, 2008

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CERTIFICATE OF ANALYSIS

VAN08008821.2

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
48952	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48953	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48954	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48955	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48956	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48957	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48959	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48960	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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**Project:** Tumbler Ridge

**Report Date:** November 27, 2008

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**Part** 4

# CERTIFICATE OF ANALYSIS

VAN08008821.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48952	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48953	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48954	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48955	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48956	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48957	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48958	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48959	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48960	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 1

# QUALITY CONTROL REPORT

VAN08008821.2

Method	WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
47185	Rock	1.37	36.21	6.32	2.83	5.78	16.58	0.53	2.58	0.42	3.27	0.05	0.024	219	367	165	237	61	19	7	24.5
48541	Rock	1.95	37.01	7.37	3.27	2.35	20.46	0.64	3.10	0.46	2.34	0.03	0.019	273	141	164	209	53	9	8	22.4
48856	Rock	1.09	17.99	2.74	0.88	2.98	38.47	0.41	1.18	0.18	0.93	0.03	0.005	110	38	273	94	24	6	3	34.1
Pulp Duplicates																					
47164	Rock	1.46	24.51	3.42	1.27	3.17	33.15	0.53	1.52	0.23	6.01	0.02	0.006	164	57	291	145	77	7	5	25.9
REP 47164	QC																				
47195	Rock	1.01	57.19	9.87	3.69	2.98	8.37	0.87	4.34	0.62	0.15	0.06	0.010	307	47	85	239	26	23	10	11.6
REP 47195	QC		57.18	9.89	3.67	2.97	8.35	0.89	4.40	0.63	0.17	0.06	0.010	295	42	86	245	26	23	10	11.6
48653	Rock	1.16	68.71	7.95	3.29	0.59	6.48	0.62	2.89	0.48	4.92	0.07	0.014	453	33	104	190	50	11	8	3.8
REP 48653	QC																				
48859	Rock	0.95	56.06	10.28	3.57	3.46	7.66	1.09	4.34	0.67	0.25	0.03	0.008	297	45	92	326	31	10	10	12.4
REP 48859	QC		55.55	10.54	3.62	3.56	7.63	1.11	4.41	0.68	0.23	0.03	0.008	294	47	95	324	33	13	10	12.4
48873	Rock	1.03	48.96	8.92	3.11	2.32	13.98	0.77	3.91	0.58	0.41	0.03	0.011	277	123	117	269	33	8	9	16.6
REP 48873	QC		49.17	8.92	3.10	2.32	13.81	0.78	3.95	0.57	0.38	0.03	0.011	276	122	116	267	32	14	9	16.6
Reference Materials																					
STD CSC	Standard																				
STD CSC	Standard																				
STD CSC	Standard																				
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD OREAS76A	Standard																				
STD SO-18	Standard		57.99	14.10	7.66	3.34	6.37	3.70	2.15	0.69	0.83	0.39	0.553	489	36	401	295	32	25	25	1.9
STD SO-18	Standard		58.06	14.07	7.64	3.34	6.37	3.71	2.15	0.69	0.82	0.39	0.550	477	84	397	291	31	20	25	1.9
STD SO-18	Standard		58.13	14.10	7.62	3.34	6.39	3.69	2.15	0.69	0.82	0.39	0.545	479	35	400	300	32	26	25	1.9
STD SO-18	Standard		58.04	14.09	7.60	3.34	6.39	3.70	2.16	0.69	0.82	0.39	0.547	476	48	397	297	32	28	25	1.9
STD SO-18	Standard		58.02	14.06	7.64	3.34	6.37	3.70	2.14	0.69	0.88	0.41	0.544	481	31	401	302	32	24	25	1.9
STD SO-18	Standard		58.00	14.11	7.65	3.36	6.40	3.69	2.13	0.69	0.83	0.39	0.546	477	28	398	297	31	18	25	1.9



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Part 2

QUALITY CONTROL REPORT

VAN08008821.2

Method	Analyte	4A 2A Leco 2A Leco			4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y
Unit		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	
47185	Rock	99.26	9.35	0.45	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48541	Rock	99.59	8.92	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
48856	Rock	99.92	10.41	0.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Pulp Duplicates																					
47164	Rock	99.83	8.54	0.56	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 47164	QC		8.45	0.56																	
47195	Rock	99.89	4.00	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 47195	QC	99.92																			
48653	Rock	99.91	0.68	0.09	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48653	QC		0.67	0.08																	
48859	Rock	99.90	4.41	1.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48859	QC	99.88																			
48873	Rock	99.69	5.80	0.52	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48873	QC	99.73	5.81	0.51																	
Reference Materials																					
STD CSC	Standard		3.10	4.25																	
STD CSC	Standard		3.07	4.24																	
STD CSC	Standard		3.14	4.23																	
STD DS7	Standard																				
STD DS7	Standard																				
STD OREAS76A	Standard		0.16	17.91																	
STD OREAS76A	Standard		0.16	17.40																	
STD OREAS76A	Standard		0.16	17.46																	
STD SO-18	Standard	99.85																			
STD SO-18	Standard	99.86																			
STD SO-18	Standard	99.93																			
STD SO-18	Standard	99.82																			
STD SO-18	Standard	99.85																			
STD SO-18	Standard	99.85																			



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Part 3

QUALITY CONTROL REPORT

VAN08008821.2

Method	Analyte	Unit	MDL	4B La	4B Ce	4B Pr	4B Nd	4B Sm	4B Eu	4B Gd	4B Tb	4B Dy	4B Ho	4B Er	4B Tm	4B Yb	4B Lu	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
47185	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48541	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48856	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates																							
47164	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 47164	QC																						
47195	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 47195	QC																						
48653	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48653	QC																						
48859	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48859	QC																						
48873	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48873	QC																						
Reference Materials																							
STD CSC	Standard																						
STD CSC	Standard																						
STD CSC	Standard																						
STD DS7	Standard																	17.4	93.2	61.0	347	46.6	50.9
STD DS7	Standard																	17.3	106.0	63.6	366	45.0	51.7
STD OREAS76A	Standard																						
STD OREAS76A	Standard																						
STD OREAS76A	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						

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.



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Part 4

## QUALITY CONTROL REPORT

VAN08008821.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Cd	Sb	Bi	Ag	Au	Hg	Tl	Se	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5	
47185	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48541	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48856	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates									
47164	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 47164	QC								
47195	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 47195	QC								
48653	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48653	QC								
48859	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48859	QC								
48873	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48873	QC								
Reference Materials									
STD CSC	Standard								
STD CSC	Standard								
STD CSC	Standard								
STD DS7	Standard	6.0	4.5	4.0	0.7	41.5	0.16	3.5	3.5
STD DS7	Standard	6.3	4.5	4.4	0.7	49.5	0.19	4.1	3.1
STD OREAS76A	Standard								
STD OREAS76A	Standard								
STD OREAS76A	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								



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Part 1

# QUALITY CONTROL REPORT

VAN08008821.2

		WGHT	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A		
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
STD SO-18	Standard		58.16	14.08	7.56	3.35	6.38	3.73	2.15	0.69	0.82	0.39	0.551	471	36	400	295	32	27	25	1.9	
STD SO-18	Standard		58.19	14.09	7.53	3.33	6.36	3.71	2.15	0.69	0.82	0.39	0.553	472	42	405	296	32	27	25	1.9	
STD SO-18	Standard		57.97	14.26	7.63	3.34	6.32	3.71	2.13	0.70	0.83	0.39	0.547	481	72	389	298	33	14	26	1.9	
STD SO-18	Standard		58.01	14.15	7.61	3.35	6.44	3.71	2.13	0.69	0.82	0.39	0.547	486	51	404	298	32	22	25	1.9	
STD SO-18	Standard		57.99	14.08	7.66	3.34	6.40	3.68	2.15	0.69	0.83	0.39	0.547	499	42	402	295	32	24	25	1.9	
STD SO-18	Standard		58.08	14.04	7.65	3.33	6.40	3.66	2.14	0.69	0.83	0.39	0.547	501	47	401	295	32	24	25	1.9	
STD SO-18	Standard																					
STD SO-18	Standard																					
STD CSC Expected																						
STD OREAS76A Expected																						
STD SO-18 Expected			58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	33	21	25		
STD DS7 Expected																						
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																					
BLK	Blank																					
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
G1	Prep Blank		<0.01	66.11	16.23	3.14	1.26	3.91	3.69	3.69	0.40	0.19	0.10	0.002	1025	<20	804	126	16	25	6	1.0
G1	Prep Blank		<0.01	66.36	15.66	3.53	1.34	3.90	3.50	3.58	0.43	0.22	0.10	0.003	997	<20	765	143	18	27	7	1.1





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Project: Tumbler Ridge

Report Date: November 27, 2008

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QUALITY CONTROL REPORT

VAN08008821.2

		4A	2A	Leco	2A	Leco	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B		
		Sum	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	
		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	
STD SO-18	Standard	99.92																				
STD SO-18	Standard	99.89																				
STD SO-18	Standard	99.89																				
STD SO-18	Standard	99.92																				
STD SO-18	Standard	99.80																				
STD SO-18	Standard	99.83																				
STD SO-18	Standard				516	<1	27.4	7.2	18.0	10.2	22.7	29.2	15	415.1	7.4	10.1	16.6	209	15.7	301.0	31.9	
STD SO-18	Standard				510	<1	27.3	7.1	17.9	10.4	22.3	29.2	15	415.0	7.3	10.2	16.9	208	15.7	301.7	31.8	
STD CSC Expected			2.94	4.25																		
STD OREAS76A Expected			0.16	18																		
STD SO-18 Expected					514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33	
STD DS7 Expected																						
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank		<0.02	<0.02																		
BLK	Blank		<0.02	<0.02																		
BLK	Blank		<0.02	<0.02																		
BLK	Blank	<0.01																				
BLK	Blank	<0.01																				
BLK	Blank				<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.0	<0.1	
BLK	Blank																					
Prep Wash																						
G1	Prep Blank	99.95	0.05	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	99.96	0.07	<0.02	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Tumbler Ridge

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QUALITY CONTROL REPORT

VAN08008821.2

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
STD SO-18	Standard	0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard																				
STD SO-18	Standard	12.3	27.2	3.45	14.3	2.95	0.88	2.94	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD SO-18	Standard	12.3	27.1	3.42	14.0	2.95	0.88	2.96	0.51	3.01	0.62	1.80	0.28	1.79	0.27						
STD CSC Expected																					
STD OREAS76A Expected																					
STD SO-18 Expected		12.3	27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27						
STD DS7 Expected																20.9	109	70.6	411	56	48.2
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01						
BLK	Blank															<0.1	<0.1	<0.1	<1	<0.1	<0.5
Prep Wash																					
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

Tumbler Ridge

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November 27, 2008

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Part 4

# QUALITY CONTROL REPORT

VAN08008821.2

		1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD CSC Expected									
STD OREAS76A Expected									
STD SO-18 Expected									
STD DS7 Expected		6.4	5.9	4.5	0.9	70	0.2	4.2	3.5
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash									
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1	Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Submitted By: Wayne Roberts  
Receiving Lab: Canada-Vancouver  
Received: October 10, 2008  
Report Date: December 02, 2008  
Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN08010153.2

CLIENT JOB INFORMATION

Project: Tumbler Ridge  
Shipment ID: SHIPMENT #7  
P.O. Number  
Number of Samples: 39

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: John Brock  
George Norman  
Michael Renning

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	39	Crush, split and pulverize rock to 200 mesh		
4A	39	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	1	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

ADDITIONAL COMMENTS

Version 2: Group 4B full suite included



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. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

Tumbler Ridge

Report Date:

December 02, 2008

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Part 1

CERTIFICATE OF ANALYSIS

VAN08010153.2

Method	Analyte	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
Unit	MDL	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
48601	Rock	0.60	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48602	Rock	0.73	2.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48604	Rock	0.60	0.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48605	Rock	0.59	1.85	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48606	Rock	0.66	0.81	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48607	Rock	0.53	1.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48608	Rock	0.62	1.75	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48609	Rock	0.54	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48610	Rock	0.67	1.97	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48611	Rock	0.67	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48612	Rock	0.42	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48613	Rock	1.46	5.67	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48614	Rock	1.41	4.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48615	Rock	1.91	21.02	198	<1	2.6	1.0	4.1	3.0	2.8	20.0	<1	650.1	<0.1	3.4	38.8	430	<0.5	128.0	208.1	94.9
48616	Rock	1.33	0.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48617	Rock	1.87	0.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48618	Rock	1.54	0.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48619	Rock	1.23	2.99	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48620	Rock	1.42	1.94	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48621	Rock	1.04	0.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48622	Rock	1.47	1.49	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48623	Rock	1.62	0.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48624	Rock	1.28	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48553	Rock	0.89	9.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48554	Rock	1.06	0.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48555	Rock	0.59	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48556	Rock	0.97	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48557	Rock	1.03	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48558	Rock	1.03	0.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48559	Rock	1.08	17.84	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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.



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Project:

Tumbler Ridge

Report Date:

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Part 2

CERTIFICATE OF ANALYSIS

VAN08010153.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
48601	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48602	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48604	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48605	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48606	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48607	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48608	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48609	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48610	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48611	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48612	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48613	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48614	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48615	Rock	64.0	16.94	67.6	11.90	3.12	15.73	2.42	15.82	3.56	10.35	1.44	7.98	1.12	17.4	15.7	7.3	472	56.1	14.4	24.2
48616	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48617	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48618	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48619	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48620	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48621	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48622	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48623	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48624	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48553	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48554	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48555	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48556	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48557	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48558	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48559	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project:

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Part 3

# CERTIFICATE OF ANALYSIS

# VAN08010153.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48601	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48602	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48604	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48605	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48606	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48607	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48608	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48609	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48610	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48611	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48612	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48613	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48614	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48615	Rock	4.7	<0.1	0.3	<0.5	0.06	0.1
48616	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48617	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48618	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48619	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48620	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48621	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48622	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48623	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48624	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48553	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48554	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48555	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48556	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48557	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48558	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48559	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Tumbler Ridge

Report Date: December 02, 2008

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CERTIFICATE OF ANALYSIS

VAN08010153.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
48560	Rock	0.98	14.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48561	Rock	1.18	5.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48562	Rock	1.11	2.48	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48563	Rock	1.08	3.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48426	Rock	0.70	2.91	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48427	Rock	0.85	4.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48428	Rock	1.06	0.44	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48429	Rock	0.84	3.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48430	Rock	2.01	3.68	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Report Date: December 02, 2008

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CERTIFICATE OF ANALYSIS

VAN08010153.2

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.05	0.1	1	0.1	0.5	0.1
48560	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48561	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48562	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48563	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48426	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48427	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48428	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48429	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48430	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 3

# CERTIFICATE OF ANALYSIS

# VAN08010153.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48560	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48561	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48562	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48563	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48426	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48427	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48428	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48429	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48430	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Tumbler Ridge

Report Date:

December 02, 2008

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Part 1

# QUALITY CONTROL REPORT

VAN08010153.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	
48557	Rock	1.03	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Pulp Duplicates																					
REP G1	QC		0.20																		
48624	Rock	1.28	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
REP 48624	QC		0.32																		
Reference Materials																					
STD DS7	Standard																				
STD DS7	Standard																				
STD SO-18	Standard		0.84																		
STD SO-18	Standard		0.84																		
STD SO-18	Standard		0.84																		
STD SO-18	Standard		0.83																		
STD SO-18	Standard		0.84																		
STD SO-18	Standard		0.85																		
STD SO-18	Standard			524	1	28.6	7.0	18.5	10.2	22.2	28.8	16	422.5	7.3	10.4	16.8	216	15.4	300.1	33.0	12.6
STD SO-18	Standard			522	1	27.7	7.2	18.0	10.1	22.3	28.8	15	423.1	7.3	10.3	16.8	204	15.3	300.1	33.2	12.6
STD DS7 Expected																					
STD SO-18 Expected			0.83	514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33	12.3
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank		<0.01																		
BLK	Blank																				
BLK	Blank			<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.6	<0.1	<0.1
Prep Wash																					
G1	Prep Blank		<0.01	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
G1	Prep Blank		<0.01	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
G1	Prep Blank		0.20																		



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December 02, 2008

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Part 2

# QUALITY CONTROL REPORT

VAN08010153.2

Method	Analyte	Unit	MDL	4B Ce	4B Pr	4B Nd	4B Sm	4B Eu	4B Gd	4B Tb	4B Dy	4B Ho	4B Er	4B Tm	4B Yb	4B Lu	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd						
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm						
				0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1						
48557	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
Pulp Duplicates																													
REP G1	QC																												
48624	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
REP 48624	QC																												
Reference Materials																													
STD DS7	Standard																22.6	106.7	74.5	397	56.9	52.8	6.4						
STD DS7	Standard																19.6	102.6	69.1	397	54.7	50.5	6.1						
STD SO-18	Standard																												
STD SO-18	Standard																												
STD SO-18	Standard																												
STD SO-18	Standard																												
STD SO-18	Standard																												
STD SO-18	Standard																												
STD SO-18	Standard																												
STD SO-18	Standard																												
STD DS7 Expected																	20.9	109	70.6	411	56	48.2	6.4						
STD SO-18 Expected																	27.1	3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.29	1.79	0.27
BLK	Blank																												
BLK	Blank																												
BLK	Blank																												
BLK	Blank																<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1						
BLK	Blank																<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01
Prep Wash																													
G1	Prep Blank																												
G1	Prep Blank																												
G1	Prep Blank																												



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Project: Tumbler Ridge

Report Date: December 02, 2008

Page: 1 of 1 Part 3

# QUALITY CONTROL REPORT

VAN08010153.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48557 Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates							
REP G1 QC							
48624 Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48624 QC							
Reference Materials							
STD DS7 Standard	4.5	4.7	0.8	77.1	0.19	4.2	2.7
STD DS7 Standard	4.6	4.6	0.7	47.2	0.19	3.8	2.7
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD DS7 Expected	5.9	4.5	0.9	70	0.2	4.2	3.5
STD SO-18 Expected							
BLK Blank							
BLK Blank							
BLK Blank							
BLK Blank	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK Blank							
Prep Wash							
G1 Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1 Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1 Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Submitted By: Wayne Roberts  
Receiving Lab: Canada-Vancouver  
Received: October 10, 2008  
Report Date: December 02, 2008  
Page: 1 of 3

# CERTIFICATE OF ANALYSIS

VAN08010153.2

## CLIENT JOB INFORMATION

Project: Tumbler Ridge  
Shipment ID: SHIPMENT #7  
P.O. Number  
Number of Samples: 39

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: John Brock  
George Norman  
Michael Renning

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	39	Crush, split and pulverize rock to 200 mesh		
4A	39	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed
4B Full Suite	1	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed

## ADDITIONAL COMMENTS

Version 2: Group 4B full suite included



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. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Part 1

CERTIFICATE OF ANALYSIS

VAN08010153.2

Method	Analyte	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
Unit	MDL	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
48601	Rock	0.60	1.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48602	Rock	0.73	2.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48604	Rock	0.60	0.90	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48605	Rock	0.59	1.85	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48606	Rock	0.66	0.81	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48607	Rock	0.53	1.31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48608	Rock	0.62	1.75	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48609	Rock	0.54	0.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48610	Rock	0.67	1.97	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48611	Rock	0.67	0.19	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48612	Rock	0.42	1.46	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48613	Rock	1.46	5.67	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48614	Rock	1.41	4.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48615	Rock	1.91	21.02	198	<1	2.6	1.0	4.1	3.0	2.8	20.0	<1	650.1	<0.1	3.4	38.8	430	<0.5	128.0	208.1	94.9
48616	Rock	1.33	0.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48617	Rock	1.87	0.60	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48618	Rock	1.54	0.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48619	Rock	1.23	2.99	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48620	Rock	1.42	1.94	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48621	Rock	1.04	0.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48622	Rock	1.47	1.49	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48623	Rock	1.62	0.65	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48624	Rock	1.28	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48553	Rock	0.89	9.47	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48554	Rock	1.06	0.42	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48555	Rock	0.59	0.32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48556	Rock	0.97	0.24	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48557	Rock	1.03	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48558	Rock	1.03	0.39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48559	Rock	1.08	17.84	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 2

CERTIFICATE OF ANALYSIS

VAN08010153.2

Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	
		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
48601	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48602	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48604	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48605	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48606	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48607	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48608	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48609	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48610	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48611	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48612	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48613	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48614	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48615	Rock	64.0	16.94	67.6	11.90	3.12	15.73	2.42	15.82	3.56	10.35	1.44	7.98	1.12	17.4	15.7	7.3	472	56.1	14.4	24.2
48616	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48617	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48618	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48619	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48620	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48621	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48622	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48623	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48624	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48553	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48554	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48555	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48556	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48557	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48558	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48559	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.





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Project:

Tumbler Ridge

Report Date:

December 02, 2008

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Part 3

# CERTIFICATE OF ANALYSIS

VAN08010153.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48601	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48602	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48604	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48605	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48606	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48607	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48608	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48609	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48610	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48611	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48612	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48613	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48614	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48615	Rock	4.7	<0.1	0.3	<0.5	0.06	0.1
48616	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48617	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48618	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48619	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48620	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48621	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48622	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48623	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48624	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48553	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48554	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48555	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48556	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48557	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48558	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48559	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Project: Tumbler Ridge

Report Date: December 02, 2008

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CERTIFICATE OF ANALYSIS

VAN08010153.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
48560	Rock	0.98	14.17	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48561	Rock	1.18	5.72	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48562	Rock	1.11	2.48	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48563	Rock	1.08	3.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48426	Rock	0.70	2.91	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48427	Rock	0.85	4.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48428	Rock	1.06	0.44	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48429	Rock	0.84	3.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48430	Rock	2.01	3.68	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Report Date: December 02, 2008

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CERTIFICATE OF ANALYSIS

VAN08010153.2

Method		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.05	0.1	1	0.1	0.5	0.1
48560	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48561	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48562	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48563	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48426	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48427	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48428	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48429	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48430	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 3

# CERTIFICATE OF ANALYSIS

# VAN08010153.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48560	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48561	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48562	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48563	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48426	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48427	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48428	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48429	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
48430	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



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Part 1

QUALITY CONTROL REPORT

VAN08010153.2

Method	WGHT	4A	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Analyte	Wgt	P2O5	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
Unit	kg	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
48557	Rock	1.03	0.21	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates																				
REP G1	QC	0.20																		
48624	Rock	1.28	0.30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48624	QC	0.32																		
Reference Materials																				
STD DS7	Standard																			
STD DS7	Standard																			
STD SO-18	Standard	0.84																		
STD SO-18	Standard	0.84																		
STD SO-18	Standard	0.84																		
STD SO-18	Standard	0.83																		
STD SO-18	Standard	0.84																		
STD SO-18	Standard	0.85																		
STD SO-18	Standard		524	1	28.6	7.0	18.5	10.2	22.2	28.8	16	422.5	7.3	10.4	16.8	216	15.4	300.1	33.0	12.6
STD SO-18	Standard		522	1	27.7	7.2	18.0	10.1	22.3	28.8	15	423.1	7.3	10.3	16.8	204	15.3	300.1	33.2	12.6
STD DS7 Expected																				
STD SO-18 Expected		0.83	514	1	26.2	7.1	17.6	9.8	20.9	28.7	15	407.4	7.4	9.9	16.4	200	15.1	280	33	12.3
BLK	Blank	<0.01																		
BLK	Blank	<0.01																		
BLK	Blank	<0.01																		
BLK	Blank																			
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.6	<0.1	<0.1
Prep Wash																				
G1	Prep Blank	<0.01	N.A.																	
G1	Prep Blank	<0.01	0.19	N.A.																
G1	Prep Blank	0.20																		



ACME ANALYTICAL LABORATORIES LTD.

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Client:

Pacific Ridge Exploration Ltd.

1100 - 1199 West Hastings Street  
Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge

Report Date:

December 02, 2008

Page:

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Part 2

QUALITY CONTROL REPORT

VAN08010153.2

Method	Analyte	Unit	MDL	4B Ce	4B Pr	4B Nd	4B Sm	4B Eu	4B Gd	4B Tb	4B Dy	4B Ho	4B Er	4B Tm	4B Yb	4B Lu	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ni	1DX As	1DX Cd
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
48557	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates																							
REP G1	QC																						
48624	Rock			N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48624	QC																						
Reference Materials																							
STD DS7	Standard																22.6	106.7	74.5	397	56.9	52.8	6.4
STD DS7	Standard																19.6	102.6	69.1	397	54.7	50.5	6.1
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD SO-18	Standard																						
STD DS7 Expected																	20.9	109	70.6	411	56	48.2	6.4
STD SO-18 Expected																							
BLK	Blank																						
BLK	Blank																						
BLK	Blank																						
BLK	Blank																<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank																<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01
Prep Wash																							
G1	Prep Blank																						
G1	Prep Blank																						
G1	Prep Blank																						



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1100 - 1199 West Hastings Street  
 Vancouver BC V6E 3T5 Canada

Project: Tumbler Ridge

Report Date: December 02, 2008

Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

VAN08010153.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
48557 Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Pulp Duplicates							
REP G1 QC							
48624 Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
REP 48624 QC							
Reference Materials							
STD DS7 Standard	4.5	4.7	0.8	77.1	0.19	4.2	2.7
STD DS7 Standard	4.6	4.6	0.7	47.2	0.19	3.8	2.7
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD SO-18 Standard							
STD DS7 Expected	5.9	4.5	0.9	70	0.2	4.2	3.5
STD SO-18 Expected							
BLK Blank							
BLK Blank							
BLK Blank							
BLK Blank	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK Blank							
Prep Wash							
G1 Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1 Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
G1 Prep Blank	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

APPENDIX III  
STATISTICAL ANALYSIS  
on  
CERTIFICATES OF ASSAY  
ACME ANALYTICAL LABORATORIES LTD.

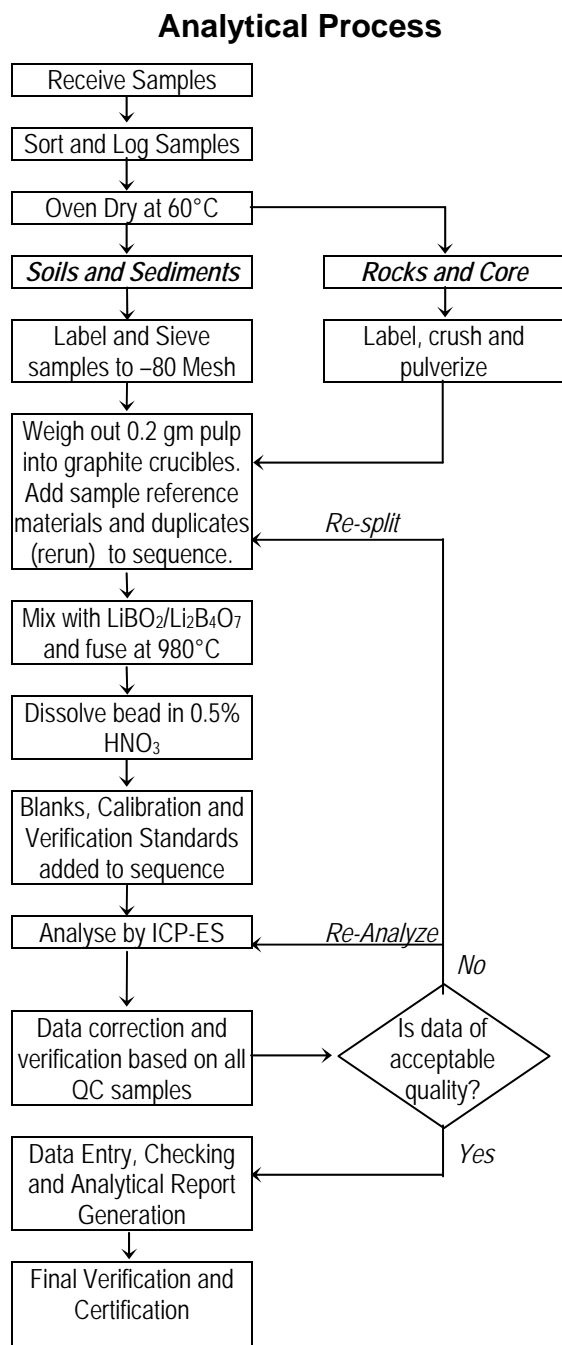
2008

for

PHOSPHATE, YTTRIUM, LANTHANUM AND CERIUM



## METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 4A: WHOLE ROCK ANALYSIS BY ICP



### Comments

#### Sample Preparation

Soil or sediment is dried (60°C) and sieved to -80 mesh (-180 µm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Moss-mat is dried (60°C), pounded and sieved to yield -80 mesh sediment. Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot is riffle split and pulverized to 85% passing 200 mesh (75 µm) in a mild-steel ring-and-puck mill.

#### Sample Digestion

A 0.2 g aliquot is weighed into a graphite crucible and mixed with 1.5 g of LiBO<sub>2</sub>/Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub> flux. Crucibles are placed in an oven and heated to 980°C for 30 minutes. The cooled bead is dissolved in 5% HNO<sub>3</sub> (ACS grade nitric acid diluted in demineralised water). Calibration standards and reagent blanks are added to the sample sequence.

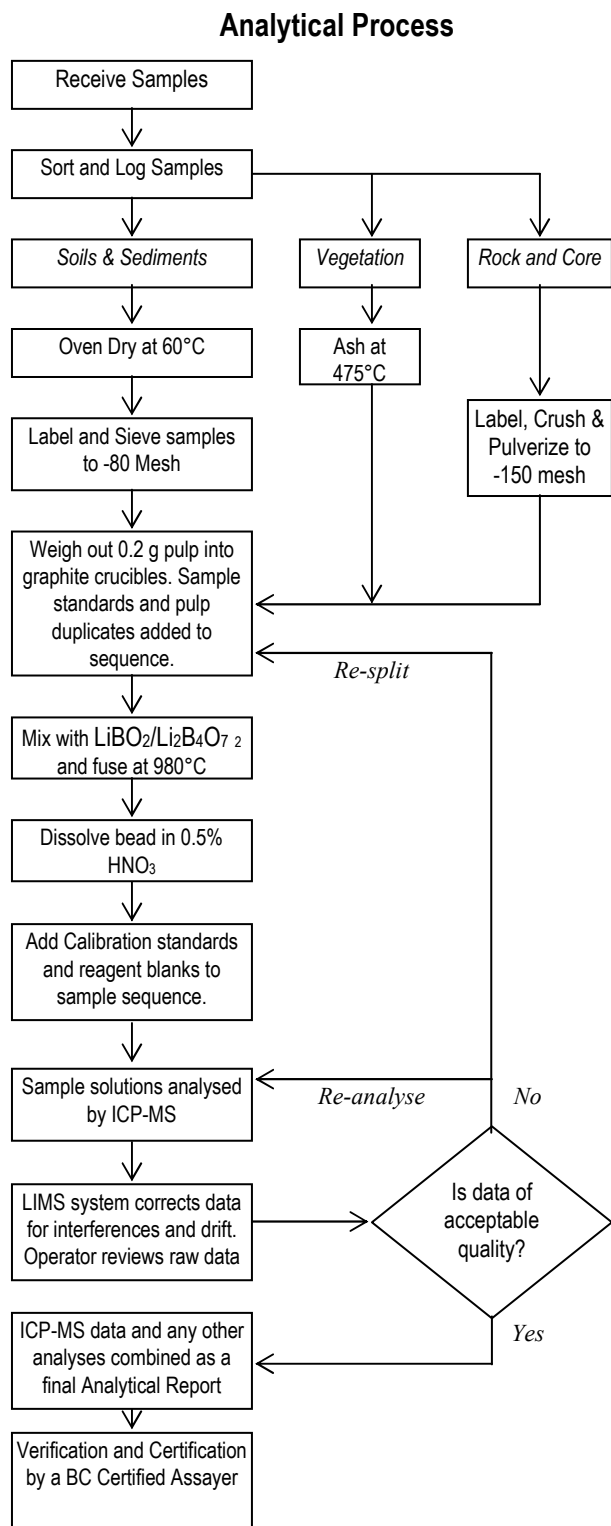
#### Sample Analysis

Sample solutions are aspirated into an ICP emission spectrograph (Spectro Ciros Vision or Varian 735) for the determination of the basic package consisting of the following 18 major oxides and elements: SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, CaO, MgO, Na<sub>2</sub>O, K<sub>2</sub>O, MnO, TiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub>, Cr<sub>2</sub>O<sub>3</sub>, Ba, Nb, Ni, Sr, Sc, Y and Zr. The extended package also includes: Ce, Co, Cu, Ta and Zn. Loss on ignition (LOI) is determined for both packages by igniting a 1 g sample split at 950°C for 90 minutes then measuring the weight loss. Total Carbon and Sulphur are determined by the Leco method (Group 2A).

#### Quality Control and Data Verification

QA/QC protocol incorporates a sample-prep blank (G-1) as the first sample in the job which is carried through all stages of preparation to analysis. An Analytical Batch comprises 36 client samples and incorporates a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and aliquots of in-house Reference Material like SO-18 or CSC. Data undergoes a final verification by a British Columbia Certified Assayer who then validates results before it is released to the client.

## METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 4B - WHOLE ROCK TRACE ELEMENTS BY ICP-MS



### Comments

#### Sample Preparation

All samples are dried at 60°C. Soil and sediment are sieved to -80 mesh (-177 µm). Moss-mats are disaggregated then sieved to yield -80 mesh sediment. Vegetation is pulverized or ashed (475°C). Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill.

#### Sample Digestion

A 0.2 g samples aliquot is weighed into a graphite crucible and mixed with 1.5 g of LiBO<sub>2</sub>/Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub> 2 flux. The flux/sample charge is heated in a muffle furnace for 30 minutes at 980°C. The cooled bead is dissolved in 100 mL of 5% HNO<sub>3</sub> (ACS grade nitric acid in de-mineralised water). An aliquot of the solution is poured into a polypropylene test tube. Calibration standards, verification standards and reagent blanks are included in the sample sequence.

#### Sample Analysis

Sample solutions are aspirated into an ICP mass spectrometer (Perkin-Elmer Elan 6000 or 9000) for the determination of the basic package consisting of the following 34 elements: Ba, Co, Cs, Ga, Hf, Nb, Rb, Sn, Sr, Ta, Th, Ti, U, V, W, Y, Zr, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu. A second sample split of 0.5 g is digested in Aqua Regia and analysed by ICP-MS (see Group 1DX) to determine: Au, Ag, As, Bi, Cd, Cu, Hg, Mo, Ni, Pb, Sb, Se, Tl and Zn.

#### Quality Control and Data Verification

QA/QC protocol incorporates a sample-prep blank (G-1) as the first sample in the job which is carried through all stages of preparation to analysis. An Analytical Batch comprises 36 client samples and incorporates a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and aliquots of in-house Reference Material like STD SO-18 or CSC. Data undergoes a final verification by a British Columbia Certified Assayer who then validates results before it is released to the client.

APPENDIX V

DETAILED STATEMENTS OF COST

for

TUMBLER RIDGE PROJECT

**TUNNEL ZONE, WINDY CAMP ZONE AND HOOK LAKE ZONE EXPENSES**

**AREA NORTH OF WAPITI PARK**

**ANALYSIS – ASSAYS**

<u>LAB</u>	<u>NO. SAMPLES</u>	<u>ANALYZED FOR</u>	<u>INVOICE</u>	<u>TOTAL</u>	<u>%</u>	<u>WAPITI TOTAL</u>
ACME	5	Whole Rock	VANI018963	\$182.00	100%	\$182.00
ACME	3	Whole Rock	VANI018960	\$109.20	100%	\$109.20
ACME	5	Whole Rock	VANI018964	\$182.00	100%	\$182.00
ACME	2	% P2O5	VANI011268	\$34.86	100%	\$34.86
ACME	148	% P2O5	VANI013309	\$3,304.42	100%	\$3,304.42
ACME	35	% P2O5	VANI014740	\$785.54	100%	\$785.54
ACME	37	% P2O5	VANI013333	\$825.76	100%	\$825.76
ACME	<u>7</u>	% P2O5	VANI011422	\$336.08	64%	<u>\$215.09</u>
					<b>TOTAL</b>	<b>\$5,638.87</b>

229 samples – % P2O5- ave. cost/sample.....\$22.56

13 samples Whole Rock analyses ave. cost/sample....\$36.40

**TOTAL .....\$5,639**

**1) CONTRACT PROSPECTING & SAMPLING**

**LABOUR COSTS (FUTURE METALS INC. INVOICE 08-002)**

<u>PERSON</u>	<u>DAYS WORKED</u>	<u>TOTAL DAYS</u>	<u>RATE/DAY</u>	<u>TOTAL COST</u>
S. Burns	July 9-11 & July 21-31 (14 days) Aug 1 to 5 (5 days)	19	\$325/day	\$6,175.00
M. Pettit	July 9-11 & July 21-31 (14 days) Aug 1 to 5 (5days)	19	\$350/day	\$6,650.00
T. Grey	July 9-11 & July 21-31 (14 days) Aug 1 to 5 (5days)	19	\$350/day	\$6,650.00
D. Summers	July 9-11 & July 21-31 (14 days) Aug 1 (1days)	15	\$325/day	\$4875.00
T. Welsted	July 9-11 & July 21-31 (14 days) Aug 1 to 5 (5days)	19	\$350/day	\$6,650.00
V. Freburg	July 9-11 & July 21-31 (14 days) Aug 1 (1 days)	15	\$350/day	\$5,250.00
L. Pettenuzzo	July 9-11 & July 21-31 (14 days) Aug 1 to 5 (5days)	19	\$400/day	\$7,600.00
D. Schneider	July 9-11 & July 21-31 (14 days) Aug 1 to 5 (5days)	19	\$350/day	\$6,650.00
M. Renning	July 9-11 & July 21-31 (14 days) Aug 1 (1 days) <u>Aug 28 to Aug 31 (4)days</u>	<u>19</u>	<u>\$500/day</u>	<u>\$ 9,500.00</u>
Total Field Man days		163		
				<b>SUBTOTAL.....\$60,000.00</b>

FUTURE METALS INVOICE 08-002

Employment Burden 163man days/ 332 man days X \$48,787.61 = \$23,952.95

**TOTAL .....\$83,953.00**

2) **COMPUTOR DRAFTING**

Future Metals Inc.(M. Renning) Invoice 08-007  
During period Oct 1 to Dec 18/08 7 days @ \$500/day.....\$3500.00

**TOTAL.....\$3500.00**

3) **REPORT PREPARATION**

Norman Geological (G. Norman)  
Nov 20/08 to Dec 18/08 17 days X 43% = 7 days @ \$685.....\$4,795.00

**TOTAL.....\$4,795.00**

4) **EQUIPMENT RENTAL**

Future Metals Inc. Invoice (08-002)  
Camp Equipment Rental July 21 to 31 and Aug 1 to 5 = 16 days  
Mob/Demob days July & Aug 9 days X 39 % factor = 3.5 days  
Total Camp rental days = 19.5 days

19.5 days @ \$350/day = \$6,825

**TOTAL .....\$6,825.00**

5) **CONSUMABLES**

Future Metals Inc. Invoice (08-002)  
Consumables Total Invoice \$27,465.42  
Area N of Wapiti % = 163 man days/332man days \$27,465.42 X 163/332... ..\$13,484.00

Norman Geological Expense Account July 4/08 - \$3375.02  
Orientation on Wapiti Zone 10% of total = \$3375.02 X 0.10.....\$337.00

Norman Geological Expense Account August 2/08 – \$1633  
Wapiti Zone Portion = 49% X \$1633.....\$800.00

**TOTAL.....\$14,621.00**

6) **TRANSPORTATION: HELICOPTER**

Pacific Western Helicopters ; July 2,3,4/08; Bell 206 helicopter; 0.5 hour @ 994.86/hr .....\$497.00  
Pacific Western Helicopters ; July 31/08; Bell 206 helicopter; 1.4 hours @ \$949.86/hr.... ..\$1330  
Highland Helicopters Ltd.; July 20/08; Astar 350 B2 helicopter; 2.8 hrs @\$1,940.00/hr.....\$5,432  
Highland Helicopters Ltd.; July 25/08; Bell 206 helicopter; 3.2 hrs @ \$1,100.63/hr.....\$3,522  
Ridge Rotors Inc. July 29/08; Astar 350 B2 helicopter; ..... 5.7 hrs @ \$1865/hr.....\$10,630  
Ridge Rotors Inc. Aug 1/08; Astar 350 B2 helicopter; .....2.3 hrs @ \$1865/hr.....\$4,289  
Ridge Rotors Inc. Aug 1/08; Astar 350 B2 helicopter; .....1.2 hrs @ \$1865/hr.....\$2,238  
Highland Helicopters Ltd.; August 4/08; Bell 206 helicopter; 1.5 hrs @ \$1,110.70/hr.....\$1,666  
Highland Helicopters Ltd.; August 4/08; Bell 206 helicopter; 1.4 hrs @ \$1,100.00/hr.....\$1,540  
TOTAL \$31,144.00

**TOTAL .....\$31,144.00**

7) **TRANSPORTATION: VEHICLE**

Future Metals Inc. Invoice (08-002)  
Truck Rental Total Project July 1 to Aug 31 Invoice \$25,500.00  
Tunnel, Windy and Hook Areas accounted for 49% of Tumbler Ridge project time  
Distributed Cost = \$25,500 X 0.49.....\$12,495

**TOTAL .....\$12,495.00**

8) **PROJECT MANAGEMENT**

Norman Geological (G. Norman) 1 days @ \$685/day .....\$685.00  
Tunnel, Windy, Hook et. al days July 2, 3, 4, 31/08 Aug 1/08 field days (1)

Norman Geological (G. Norman) – Management of Field Operations  
Tumbler Project Office days = July (7 days) and Aug (9.0 days) =16 days  
Tunnel, Windy, Hook et. al portion (49%) of 16 days is 8 days .....8 days @ \$685..... \$5,480.00

Norman Geological (G.Norman) - Data Compilation – Supervision of Map preparation  
Sept. to Nov 15/08 .....13.0 days  
Tunnel, Windy, Hook et. al portion 42 % of time.....13 X 0.42 = 5.5 days @ \$685.....\$3,767.00

Future Metals (M. Renning).....including in Field days above

Rockex Consulting (W.J. Roberts)  
Tumbler Project total July to Oct : 10 days  
Tunnel, Windy, Hook et. al portion @ 49%.....5 days @ \$700/day.....\$3,500.00

**TOTAL.....\$12,732.00**

**GRAND TOTAL .....\$175,704.00**

**MUINOK ZONE AND MEOSIN ZONES EXPENSES**  
**AREA SOUTH OF WAPITI PHOSPHATE PROSPECT**

**1) ANALYSIS – ASSAYS**

<u>LAB</u>	<u>NO. SAMPLES</u>	<u>ANALYZED FOR</u>	<u>INVOICE</u>	<u>TOTAL</u>	<u>%</u>	<u>WAPITI TOTAL</u>
ACME	63	% P2O5	VANI011267	\$1,524.54	100%	\$1,524.54
ACME	91	% P2O5	VANI017655	\$2283.38	92%	\$2078.89
ACME	39	% P2O5	VANI017157	\$881.94	100%	\$881.94
ACME	11	% P2O5	VANI011422	\$336.08	36%	\$120.99
ACME	1	Whole Rock	VANI019158	\$36.40	100%	\$36.40
ACME	1	Whole Rock	VANI018962	\$72.80	50%	\$36.40
					<b>TOTAL</b>	<b>\$4679.16</b>

204 samples – % P2O5- ave. cost/sample.....\$22.58  
 2 samples Whole Rock analyses ave. cost/sample.....\$36.40

**TOTAL .....\$4,679.00**

**CONTRACT PROSPECTING & SAMPLING**  
**LABOUR COSTS (FUTURE METALS INC. INVOICE 08-002)**

<u>PERSON</u>	<u>DAYS WORKED</u>	<u>TOTAL DAYS</u>	<u>RATE/DAY</u>	<u>TOTAL COST</u>
S. Burns	July 12 to July 20 (9 days) Aug 11 to 15, 17 to 19 & 22 (9days)	18	\$325/day	\$5,850.00
M. Pettit	July 12 to July 20 (9 days) Aug 11 to 15, 17 to 20 (9days)	18	\$350/day	\$6,300.00
T. Grey	July 12 to July 20 (9 days) Aug 11 to 15, 17 to 20 (9days)	18	\$350/day	\$6,300.00
D. Summers	July 12 to July 20 (9 days)	9	\$325/day	\$2,925.00
T. Welsted	July 12 to July 20 (9 days) Aug 11 to 15, 17 to 20 (9days)	18	\$350/day	\$6,300.00
V. Freburg	July 12 to July 20 (9) days)	9	\$350/day	\$3,150.00
L. Pettenuzzo	June 23 (1day) Aug 11 to 15, 17 to 20 (9days)	10	\$400/day	\$4,000.00
M. Renning	June 23, 24; July 12-July 20 (11 days) Aug 11 to 15, 17 -19 & 22 (9 days) <u>Aug 23 to Aug 25 (3days)</u>	<u>23</u>	<u>\$500/day</u>	<u>\$11,500.00</u>
Total Field Man days		123		SUBTOTAL.....\$46,325.00

FUTURE METALS INVOICE 08-002  
 Employment Burden 123man days/ 332 man days X \$48,787.61 = \$18,075

**TOTAL .....\$64,400.00**

**2) COMPUTOR DRAFTING**

Future Metals Inc.(M. Renning) Invoice 08-007  
 During period Oct 1 to Dec 18/08 6 days @ \$500/day

**TOTAL.....\$3000.00**

3) **REPORT PREPARATION**

Norman Geological (G. Norman)  
Nov 20/08 to Dec18/08 17 days X 32% = 5 days @ \$685.....\$3425.00

**TOTAL.....\$3,425.00**

4) **EQUIPMENT RENTAL**

Future Metals Inc. Invoice (08-002)  
Camp Equipment Rental July 14 to 20 and Aug 11 to 22 = 19 days  
Mob/Demob days July & Aug 9 days X 46% factor = 4 days  
Total Camp rental days = 23..... @ \$350/day = \$8,050.00

**TOTAL... ..\$8,050.00**

5) **CONSUMABLES**

Future Metals Inc. Invoice (08-002)  
Consumables Total Invoice \$27,465.42  
Area N of Wapiti % = 123 man days/332man days \$27,465.42 X 123/332... ..\$10,175.00

Norman Geological Expense Account July 4/08 - \$3375.02  
Orientation on Wapiti Zone 10% of total = \$3375.02 X 0.10.....\$337.00

Norman Geological Expense Account August 2/08 - \$1633  
Wapiti Zone Portion = 37% X \$1633.....\$604.00

**TOTAL.....\$11,116.00**

6) **TRANSPORTATION: HELICOPTER**

Pacific Western Helicopters ; July 2,3,4/08; Bell 206 helicopter; 0.5 hour @ \$994.86/hr ...\$497  
Pacific Western Helicopters ; Aug 14/08; Bell 206 helicopter; 3.6 hours @ \$949.86/hr.....\$3540  
Pacific Western Helicopters; July 31/08; Bell 2006 helicopter; 1.3 hours @ \$993.92/hr.....\$1292  
Pacific Western Helicopters; Aug 13/08; Astar 350 B2 helicopter; 4.5hrs @ \$1859.44/hr ...\$8367  
Ridge Rotors Inc.; Aug 19/08; Bell 206 helicopter; .....6.7hrs @ \$1141.19/hr..... \$7646  
Ridge Rotors Inc.; Aug 22/08; Astar 350 B2; .....1.5hrs @ \$1864.67/hr ...\$2797

**TOTAL .....\$24,139.00**

7) **TRANSPORTATION: VEHICLE**

Future Metals Inc. Invoice (08-002)  
Truck Rental Total Project July 1 to Aug 31 Invoice \$25,500.00  
Muinok and Meosin Area accounted for 37% of Tumbler Ridge project time  
Distributed Cost = \$25,500 X 0.37.....\$9,435

**TOTAL .....\$9,435.00**

8) **PROJECT MANAGEMENT**

Norman Geological (G. Norman) 1 days @ \$685/day .....\$685.00  
Muinok- Meosin days July 2, 3, 4, 31/08 Aug 1/08 Field days (1)

Norman Geological (G. Norman) – Management of Field Operations  
Tumbler Project Office days = July (7 days) and Aug (9.0 days) =16 days  
Muinok – Meosin portion (37%) of 16 days is 6 days .....6 days @ \$685.....\$4110.00

Norman Geological (G.Norman) - Data Compilation – Supervision of Map preparation  
Sept. to Nov 15/08 .....13.0 days  
Muinok- Meosin portion 32% of time.....13 X 0.32 = 4 days @ \$685.....\$2740.00

Future Metals (M. Renning).....including in Field days above

Rockex Consulting (W.J. Roberts)  
Tumbler Project total July to Oct : 10 days  
Muniok - Meosin portion: 3.0 days 3 days @ \$700/day.....\$2100.00

**TOTAL.....\$9,635.00**

**GRAND TOTAL .....\$137,879.00**



**WAPITI PHOSPHATE PROSPECT EXPENSES**

**1) ANALYSIS – ASSAYS**

LAB	NO. SAMPLES	ANALYZED FOR	INVOICE	TOTAL	%	WAPITI TOTAL
ACME	17	% P2O5-G4A	VANI012099	\$423.94	89.5%	\$379.31
ACME	8	% P2O5-G4A	VANI017655	\$2283.38	8%	\$184.52
ACME	3	% P2O5-G4A	VANI011422	\$336.08	27%	\$91.66
ACME	3	% P2O5-G4A	VANI011803	\$154.69	100%	\$154.69
ACME	1	% P2O5-G4A	VANI012100	\$17.68	100%	\$17.68
ACME	1	% P2O5-G4A	VANI011427	\$157.34	33%	\$52.45
ACME	1	Whole Rock-G4B	VANI019155	\$36.40	100%	\$36.40
ACME	1	Whole Rock-G4B	VANI018962	\$72.80	50%	\$36.40
ACME	1	Whole Rock-G4B	VANI019013	\$36.40	100%	\$36.40
ACME	1	Whole Rock-G4B	VANI019155	\$36.40	100%	\$36.40
ACME	5	Whole Rock-G4B	VANI019014	\$182.00	100%	\$182.00
					<b>TOTAL</b>	<b>\$1,207.91</b>

33 samples analyzed for P2O5 @ \$26.68/sample = \$880.31  
 9 samples analyzed for Whole Rock @ 36.40/sample = 327.60

**TOTAL           \$1207.00**

**CONTRACT PROSPECTING & SAMPLING  
 LABOUR COSTS (FUTURE METALS INC. INVOICE 08-002)**

PERSON	DAYS WORKED	TOTAL DAYS	RATE/DAY	TOTAL COST
S. Burns	July13 (1/2); Aug 6 to 10; Aug 16	6.5 days	\$325/day	\$2112.00
M. Pettit	July13 (1/2); Aug 6 to 10; Aug 16	6.5 days	\$350/day	\$2275.00
T. Grey	July13 (1/2); Aug 6 to 10; Aug 16	6.5 days	\$350/day	\$2275.00
I. Welsted	July13 (1/2); Aug 6 to 10; Aug 16	6.5 days	\$350/day	\$2275.00
D. Schneider	Aug 6 to 10;	5.0 days	\$350/day	\$1750.00
L. Petenuzzo	June 25; July13; Aug 6 to 10	7.0 days	\$400/day	\$2800.00
			<b>SUBTOTAL</b>	<b>\$13,487.00</b>

**FUTURE METALS INVOICE 08-002**  
 Employment Burden 38man days/ 332 man days X \$48,787.61 = \$5,584.00

**TOTAL .....\$19,071.00**

**COMPUTOR DRAFTING**  
 Future Metals Inc.(M. Renning) Invoice 08-007  
 During period Oct 1 to Dec 18/08 7 days @ \$500/day

**TOTAL.....\$3500.00**

**REPORT PREPARATION**  
 Norman Geological (G. Norman)  
 Nov 20/08 to Dec18/08 17 days X 25% = 4.0days  
 Jan 5 to Jan 15 = 8 days  
 Report Days = 4.0 + 8 days = 12.0 days 12.0days @ \$685 = \$8220.00

**TOTAL.....\$8,220.00**

**EQUIPMENT RENTAL**

Future Metals Inc. Invoice (08-002)  
Camp Equipment Rental Aug 6 to 10 and Aug 16 = 6 days  
Mob/Demob days July and Aug = 9 days X 15% factor = 1.5 days  
Total Camp rental days = 6.5 days  
7.5 days @ \$350/day = \$2625.00

**TOTAL .....\$2,625.00**

**CONSUMABLES**

Future Metals Inc. Invoice (08-002)  
Consumables Total Invoice \$27,465.42  
Wapiti % = 43 man days/312man days ..... \$27,465.42 X 43/312... \$3,785.00  
  
Norman Geological Expense Account July 4/08 - \$3375.02  
Orientation on Wapiti Zone 80% of total = \$3375.02 X 0.80.....\$2700.00  
  
Norman Geological Expense Account August 2/08 - \$1633  
Wapiti Zone Portion = 14% X \$1633.....\$228.00

**TOTAL.....\$6665.00**

**TRANSPORTATION: HELICOPTER**

Pacific Western Helicopters ; July 2,3,4/08; Bell 206 helicopter; 2.6 hours @ .....\$994.86/hr = \$2,586  
Pacific Western Helicopters; July 31/08; Bell 2006 helicopter; 1.3 hours @ .....\$993.92/hr = \$1,292  
Ridge Rotors Inc.; Aug 10/08; Astar 350 B2; .....1.5hours @ ..... \$1865.00/hr = \$2,798  
Pacific Western Helicopters; Aug 16/08; Bell 2006 helicopter; 3.3 hours @ \$1859.43/hr = \$6,136

**TOTAL .....\$12,812.00**

**TRANSPORTATION: VEHICLE**

Future Metals Inc. Invoice (08-002)  
Truck Rental Aug 6 to 10 and Aug 16 = 6 days  
Mob/Demob days July 7& 8, Sept 3 &4 = 4 days X 11% factor = 0.5 days  
Total Truck rental days = 6.0+0.5 = 6.5 ..... 6.5 days @ \$411.29=\$2648.00

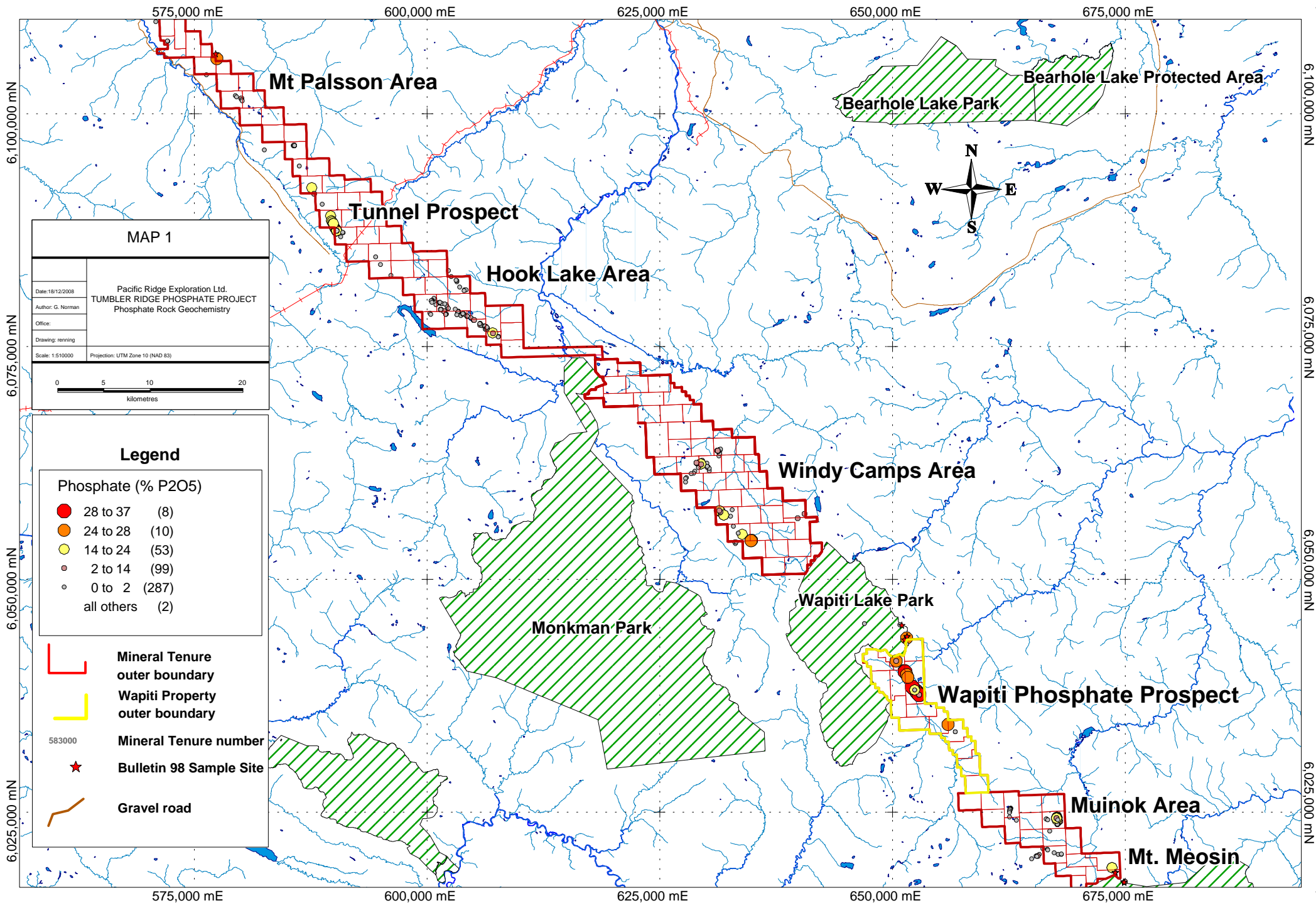
**TOTAL .....\$2,673.00**

**PROJECT MANAGEMENT**

Norman Geological (G. Norman) 3 days @ \$685/day .....\$2055.00  
Wapiti Field days July 2, 3, 4, 31/08 Aug 1/08 Wapiti Field days (3)  
  
Norman Geological (G. Norman) – Management of Field Operations  
Tumbler Project Office days = July (7 days) and Aug (9.0 days) =16 days  
Wapiti portion of 16 days is 2 days .....2 days @ \$685.....\$1370.00  
  
Norman Geological (G.Norman) - Data Compilation – Supervision of Map preparation  
Sept. to Nov 15/08 .....13.0 days  
Wapiti portion 1/4 of time.....13 X 1/4= 3.25 days @ \$685.....\$2226.00  
  
Future Metals (M. Renning)  
  
Field Days:July 2, 3, 4, 31/08 (3days)  
Field Days July 9 - Aug 31/08: 11% of 48 days (5.5 days)  
8.5 days @ \$500/day .....\$4500.00  
  
Future Metals Employee Burden 8 man days/312 mandays X \$48,787.61.....\$1251.00  
  
Rockex Consulting (W.J. Roberts)  
Tumbler Project total July to Oct: 10 days  
Wapiti portion: 2.0 days 2 days @ \$700/day.....\$1400.00

**TOTAL.....\$12,302.00**

**GRAND TOTAL .....\$69,324.00**

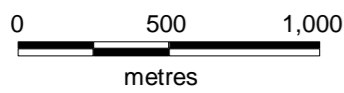




**MAP 2**

Pacific Ridge Exploration Ltd.  
**TUMBLER RIDGE PHOSPHATE PROSPECT**  
**WAPITI ZONE**  
**PHOSPHATE ROCK GEOCHEMISTRY**  
 Fieldwork by  
 Pacific Ridge Exploration Ltd. (2008)

Date: 11/12/2008  
 Author: G. Norman  
 Office:  
 Drawing: renning  
 Scale: 1:25000  
 Projection: UTM Zone 10 (NAD 83)



**LEGEND**

**Era: Mesozoic**  
**Period: Triassic**

- TWH** Spray River Group - Whitehorse FM.
- TL** Spray River Group - Llama MBR. - Sulphur Mountain FM.
- TW** Spray River Group - Whistler MBR. - Sulphur Mountain FM.
- TVP** Spray River Group - Vega-Phroso MBR. - Sulphur Mountain FM.

**Era: Paleozoic**  
**Period: Carboniferous to Permian**  
 Stoddart Group - Fantasque FM. and Kindle FM.  
 (Mowitch FM., Ranger Canyon FM.)

- MR** Rundle Group

**Era: Paleozoic**  
**Period: Devonian to Carboniferous**  
 Banff FM. and Exshaw FM.

- Quaternary Gravels**
- Fold Axis; Anticline, Syncline**
- Thrust Fault**
- Gravel Road/Trail**

**Mineral Tenure Boundary**

**Mineral Tenure Number**

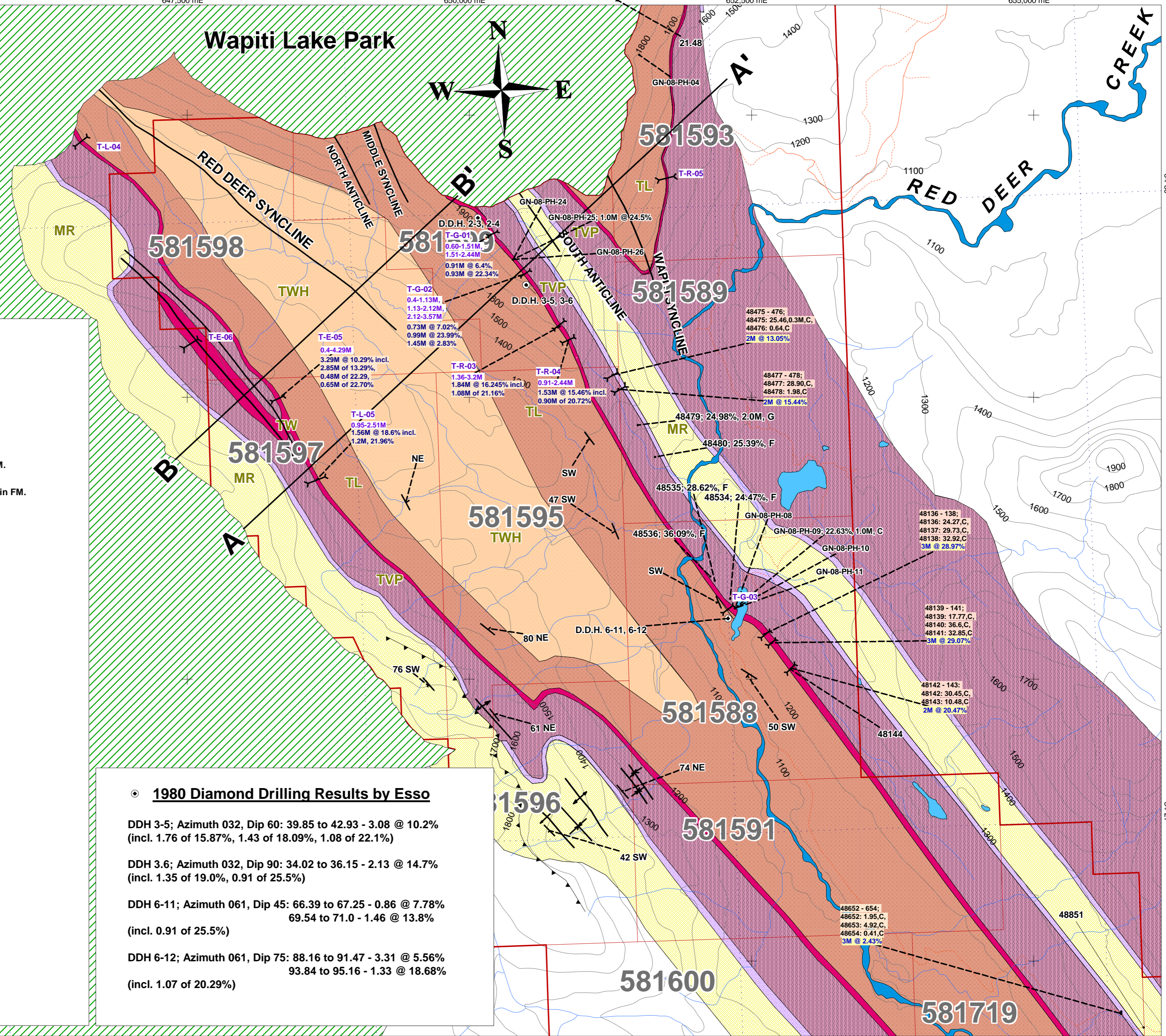
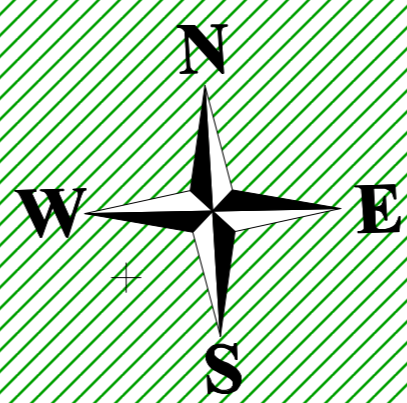
- Hand Trench;**
- 2008 TRENCHES:**
- Sample Number Interval,
- Sample Number, P2O5%,
- Sample Interval 1.0M Unless Specified,
- Sample Type: C-Chip, G-Grab, F-Float
- 1980 ESSO TRENCHES:**
- Trench ID, Sample Width (may include interval within),
- assays follow respectively

**Bulletin 98 Sample Site; P2O5%**

**Sample Number (2008)**

**REFERENCES: 2005-6 Geofile, Bulletin 98,**  
**Assmt Rpt. 08407**

**Wapiti Lake Park**



**1980 Diamond Drilling Results by Esso**

DDH 3-5; Azimuth 032, Dip 60: 39.85 to 42.93 - 3.08 @ 10.2%  
 (incl. 1.76 of 15.87%, 1.43 of 18.09%, 1.08 of 22.1%)

DDH 3.6; Azimuth 032, Dip 90: 34.02 to 36.15 - 2.13 @ 14.7%  
 (incl. 1.35 of 19.0%, 0.91 of 25.5%)

DDH 6-11; Azimuth 061, Dip 45: 66.39 to 67.25 - 0.86 @ 7.78%  
 69.54 to 71.0 - 1.46 @ 13.8%  
 (incl. 0.91 of 25.5%)

DDH 6-12; Azimuth 061, Dip 75: 88.16 to 91.47 - 3.31 @ 5.56%  
 93.84 to 95.16 - 1.33 @ 18.68%  
 (incl. 1.07 of 20.29%)

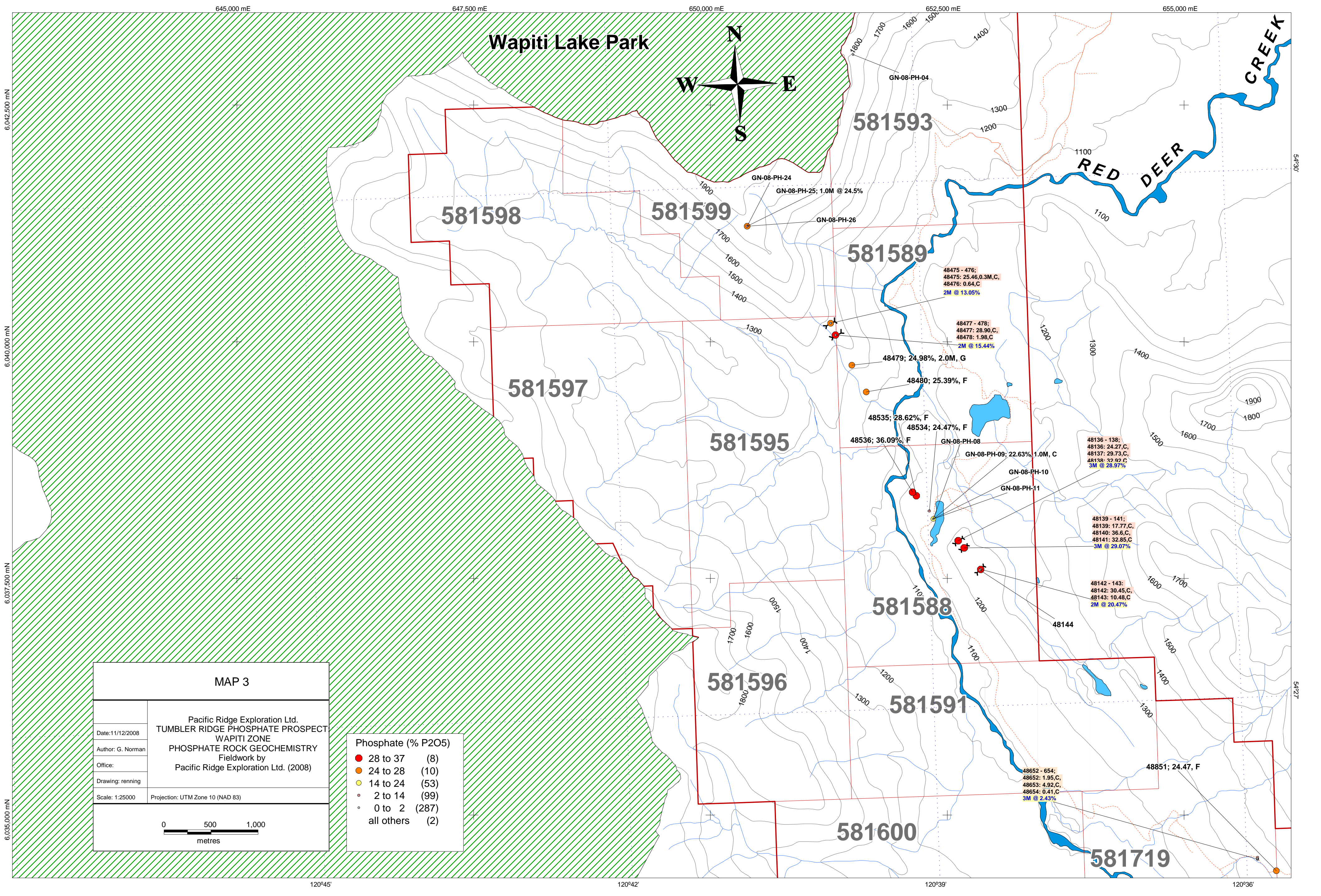
6,042,500 mN  
 6,040,000 mN  
 6,037,500 mN  
 6,035,000 mN

54°30'P  
 54°27'

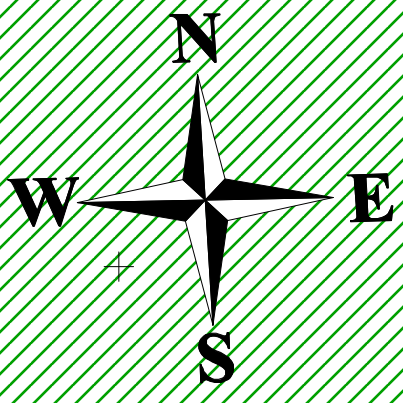
645,000 mE 647,500 mE 650,000 mE 652,500 mE 655,000 mE

120°45' 120°42' 120°39' 120°36'





# Wapiti Lake Park



**MAP 3**

Pacific Ridge Exploration Ltd.  
**TUMBLER RIDGE PHOSPHATE PROSPECT**  
**WAPITI ZONE**  
**PHOSPHATE ROCK GEOCHEMISTRY**  
 Fieldwork by  
 Pacific Ridge Exploration Ltd. (2008)

Date: 11/12/2008  
 Author: G. Norman  
 Office:  
 Drawing: renning  
 Scale: 1:25000  
 Projection: UTM Zone 10 (NAD 83)

0 500 1,000 metres

**Phosphate (% P2O5)**

● 28 to 37	(8)
● 24 to 28	(10)
● 14 to 24	(53)
● 2 to 14	(99)
● 0 to 2	(287)
● all others	(2)

581593

581598

581599

581589

581597

581595

581588

581596

581591

581600

581719

GN-08-PH-04

GN-08-PH-24

GN-08-PH-25; 1.0M @ 24.5%

GN-08-PH-26

48475 - 476;  
 48475: 25.46, 0.3M, C,  
 48476: 0.64, C  
 2M @ 13.05%

48477 - 478;  
 48477: 28.90, C,  
 48478: 1.98, C  
 2M @ 15.44%

48479; 24.98%, 2.0M, G

48480; 25.39%, F

48535; 28.62%, F

48534; 24.47%, F

48536; 36.09%, F

GN-08-PH-08

GN-08-PH-09; 22.63%, 1.0M, C

GN-08-PH-10

GN-08-PH-11

48136 - 138;  
 48136: 24.27, C,  
 48137: 29.73, C,  
 48138: 32.92, C  
 3M @ 28.97%

48139 - 141;  
 48139: 17.77, C,  
 48140: 36.6, C,  
 48141: 32.85, C  
 3M @ 29.07%

48142 - 143;  
 48142: 30.45, C,  
 48143: 10.48, C  
 2M @ 20.47%

48652 - 654;  
 48652: 1.95, C,  
 48653: 4.92, C,  
 48654: 0.41, C  
 3M @ 2.43%

48851; 24.47, F



589,500 mE

590,000 mE

590,500 mE

591,000 mE

6,089,500 mN

6,089,000 mN

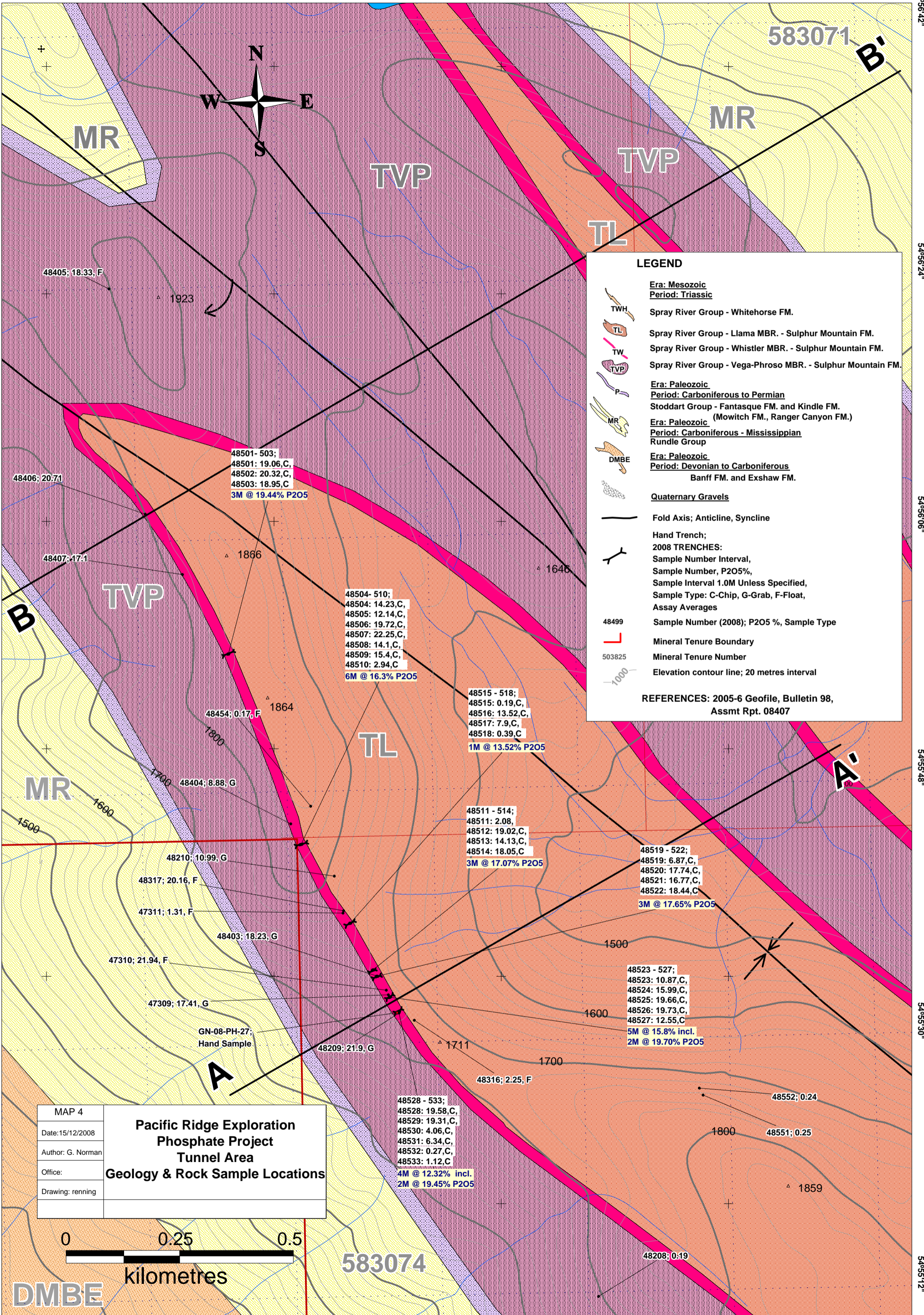
6,088,500 mN

6,088,000 mN

6,087,500 mN

6,087,000 mN

54°56'42" 54°56'24" 54°56'06" 54°55'48" 54°55'30" 54°55'12"



**LEGEND**

Era: Mesozoic  
Period: Triassic

- TWH Spray River Group - Whitehorse FM.
- TL Spray River Group - Llama MBR. - Sulphur Mountain FM.
- TW Spray River Group - Whistler MBR. - Sulphur Mountain FM.
- TVP Spray River Group - Vega-Phroso MBR. - Sulphur Mountain FM.

Era: Paleozoic  
Period: Carboniferous to Permian

Stoddart Group - Fantasque FM. and Kindle FM. (Mowitch FM., Ranger Canyon FM.)

Era: Paleozoic  
Period: Carboniferous - Mississippian

Rundle Group

Era: Paleozoic  
Period: Devonian to Carboniferous

Banff FM. and Exshaw FM.

Quaternary Gravels

— Fold Axis; Anticline, Syncline

Hand Trench;

**2008 TRENCHES:**

Sample Number Interval,  
Sample Number, P2O5%,  
Sample Interval 1.0M Unless Specified,  
Sample Type: C-Chip, G-Grab, F-Float,  
Assay Averages

48499 Sample Number (2008); P2O5 %, Sample Type

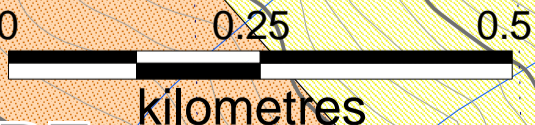
Mineral Tenure Boundary

503825 Mineral Tenure Number

—1000 Elevation contour line; 20 metres interval

**REFERENCES: 2005-6 Geofile, Bulletin 98, Assmt Rpt. 08407**

MAP 4	<p><b>Pacific Ridge Exploration Phosphate Project Tunnel Area</b></p> <p><b>Geology &amp; Rock Sample Locations</b></p>
Date: 15/12/2008	
Author: G. Norman	
Office:	
Drawing: renning	

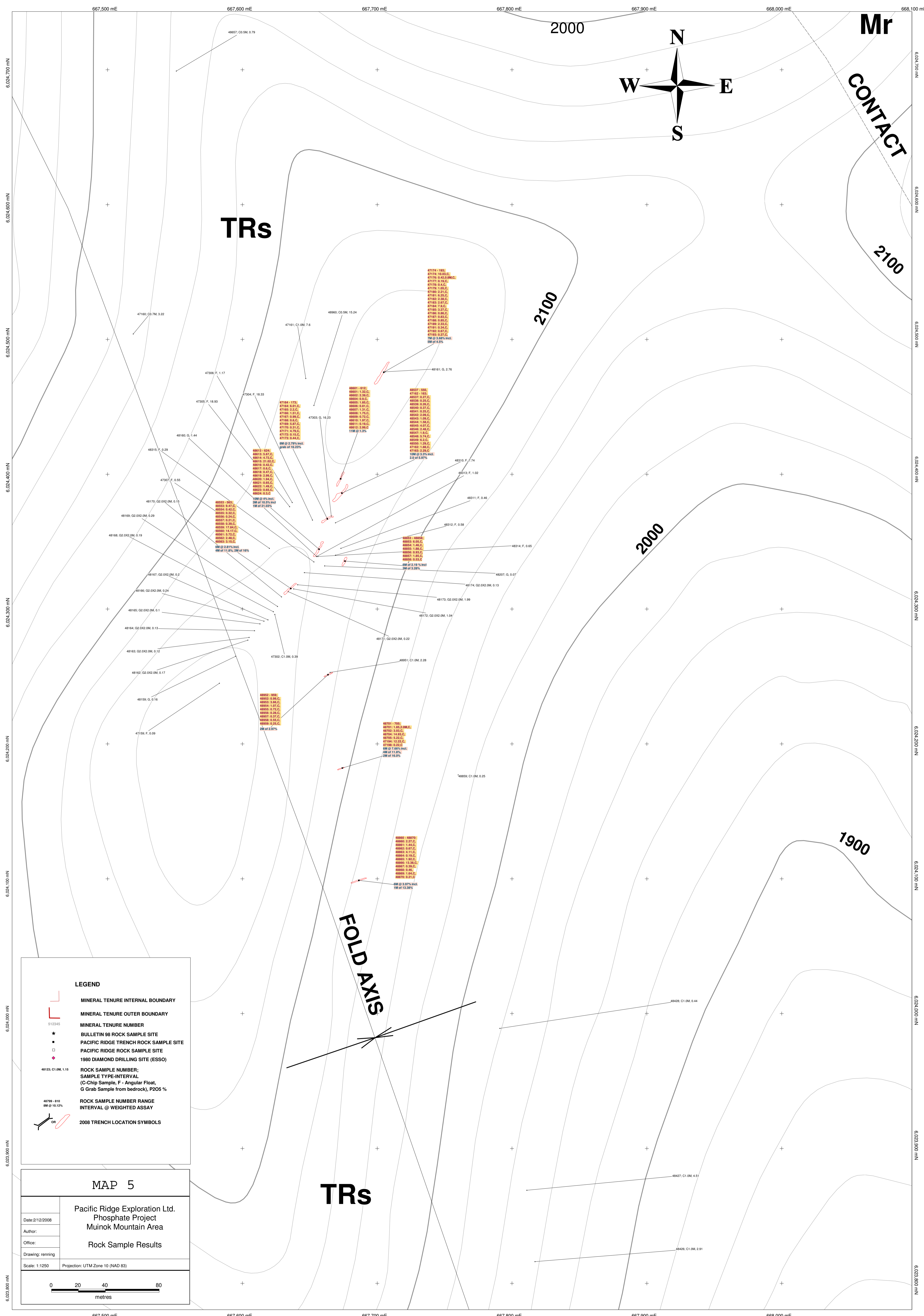


583074

DMBE

121°36' 121°35'42" 121°35'24" 121°35'06" 121°34'48" 121°34'30"





**LEGEND**

- MINERAL TENURE INTERNAL BOUNDARY
- MINERAL TENURE OUTER BOUNDARY
- MINERAL TENURE NUMBER
- BULLETIN 98 ROCK SAMPLE SITE
- PACIFIC RIDGE TRENCH ROCK SAMPLE SITE
- PACIFIC RIDGE ROCK SAMPLE SITE
- 1980 DIAMOND DRILLING SITE (ESSO)
- ROCK SAMPLE NUMBER;  
SAMPLE TYPE-INTERVAL  
(C-Chip Sample, F - Angular Float,  
G Grab Sample from bedrock), P205 %
- ROCK SAMPLE NUMBER RANGE  
INTERVAL @ WEIGHTED ASSAY
- 2008 TRENCH LOCATION SYMBOLS

**MAP 5**

Pacific Ridge Exploration Ltd.  
Phosphate Project  
Munok Mountain Area

**Rock Sample Results**

Date: 2/12/2008  
Author:  
Office:  
Drawing: ranning  
Scale: 1:1250  
Projection: UTM Zone 10 (NAD 83)

0 20 40 80  
metres

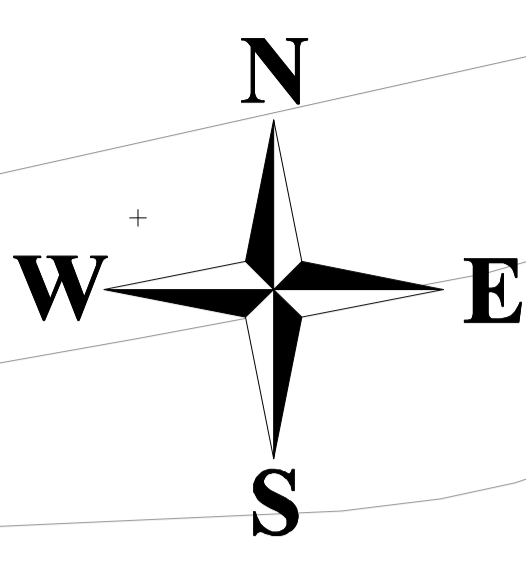
**TRs**

**FOLD AXIS**

**Mr CONTACT**

**1900**

**2000**



**TRs**

**2100**

**2100**

**2000**

4774 - 193  
4775: 10.03.C  
4776: 0.62.0.M.C  
4777: 0.19.C  
4778: 0.6.C  
4779: 1.25.C  
4780: 2.2.C  
4781: 0.25.C  
4782: 2.2.C  
4783: 7.5.C  
4784: 7.5.C  
4785: 0.85.C  
4786: 0.85.C  
4787: 0.85.C  
4788: 2.35.C  
4789: 0.34.C  
4790: 0.27.C  
4791: 0.27.C  
1M @ 3.85%  
SB of 4.5%

4801 - 812  
4801: 1.32.C  
4802: 2.38.C  
4803: 1.8.C  
4804: 1.85.C  
4805: 1.8.C  
4806: 1.31.C  
4807: 1.31.C  
4808: 1.75.C  
4809: 0.72.C  
4810: 1.97.C  
4811: 0.19.C  
4812: 2.98.C  
11M @ 1.3%

4857 - 506  
47182: 1.63  
4857: 2.27.C  
4858: 0.25.C  
4859: 2.26.C  
4860: 0.37.C  
4861: 2.26.C  
4862: 2.09.C  
4863: 1.99.C  
4864: 1.55.C  
4865: 4.07.C  
4866: 1.62.C  
4867: 1.62.C  
4868: 0.2.C  
4869: 2.26.C  
4870: 1.88.C  
4871: 2.39.C  
15M @ 3.3%  
SB of 0.97%

4813 - 847  
4813: 0.87.C  
4814: 0.72.C  
4815: 21.02.C  
4816: 0.42.C  
4817: 0.4.C  
4818: 2.99.C  
4819: 1.84.C  
4820: 1.84.C  
4821: 0.65.C  
4822: 1.84.C  
4823: 0.65.C  
4824: 0.3.C  
10M @ 4%  
SB of 16.23%

4853 - 859  
4853: 0.47.C  
4854: 0.02.C  
4855: 0.32.C  
4856: 0.24.C  
4857: 0.21.C  
4858: 0.39.C  
4859: 17.81.C  
4860: 14.17.C  
4861: 1.72.C  
4862: 1.46.C  
4863: 0.15.C  
4864: 0.3.C  
10M @ 2.91%  
SB of 11.8%  
SB of 16%

4865 - 888  
4865: 0.05.C  
4866: 1.46.C  
4867: 1.88.C  
4868: 0.8.C  
4869: 1.85.C  
4870: 0.8.C  
SB of 2.19%  
SB of 2.39%

4892 - 909  
4892: 0.99.C  
4893: 1.66.C  
4894: 1.07.C  
4895: 0.72.C  
4896: 0.28.C  
4897: 1.37.C  
4898: 0.35.C  
4899: 0.36.C  
SB of 2.97%

4870 - 705  
4870: 1.25.2.M.C  
4871: 0.2.C  
4872: 0.22.C  
4873: 1.25.2.C  
4874: 0.22.C  
4875: 0.22.C  
4876: 2.06.M.C  
4877: 1.65.C  
4878: 0.21.C  
SB of 3.97%  
SB of 10.36%

4880 - 889  
4880: 2.27.C  
4881: 1.44.C  
4882: 0.67.C  
4883: 0.11.C  
4884: 0.19.C  
4885: 1.92.C  
4886: 13.38.C  
4887: 1.26.C  
4888: 0.46.C  
4889: 0.21.C  
SB of 3.97%  
SB of 10.36%

4889: C1 OM, 0.25

4891: C1 OM, 2.28

4890: C1 OM, 0.44

4842: C1 OM, 4.51

4842: C1 OM, 2.91

667,500 mE

667,600 mE

667,700 mE

667,800 mE

667,900 mE

668,000 mE

668,100 mE

6,024,700 mN

6,024,600 mN

6,024,500 mN

6,024,400 mN

6,024,300 mN

6,024,200 mN

6,024,100 mN

6,024,000 mN

6,023,900 mN

6,023,800 mN

667,500 mE

667,600 mE

667,700 mE

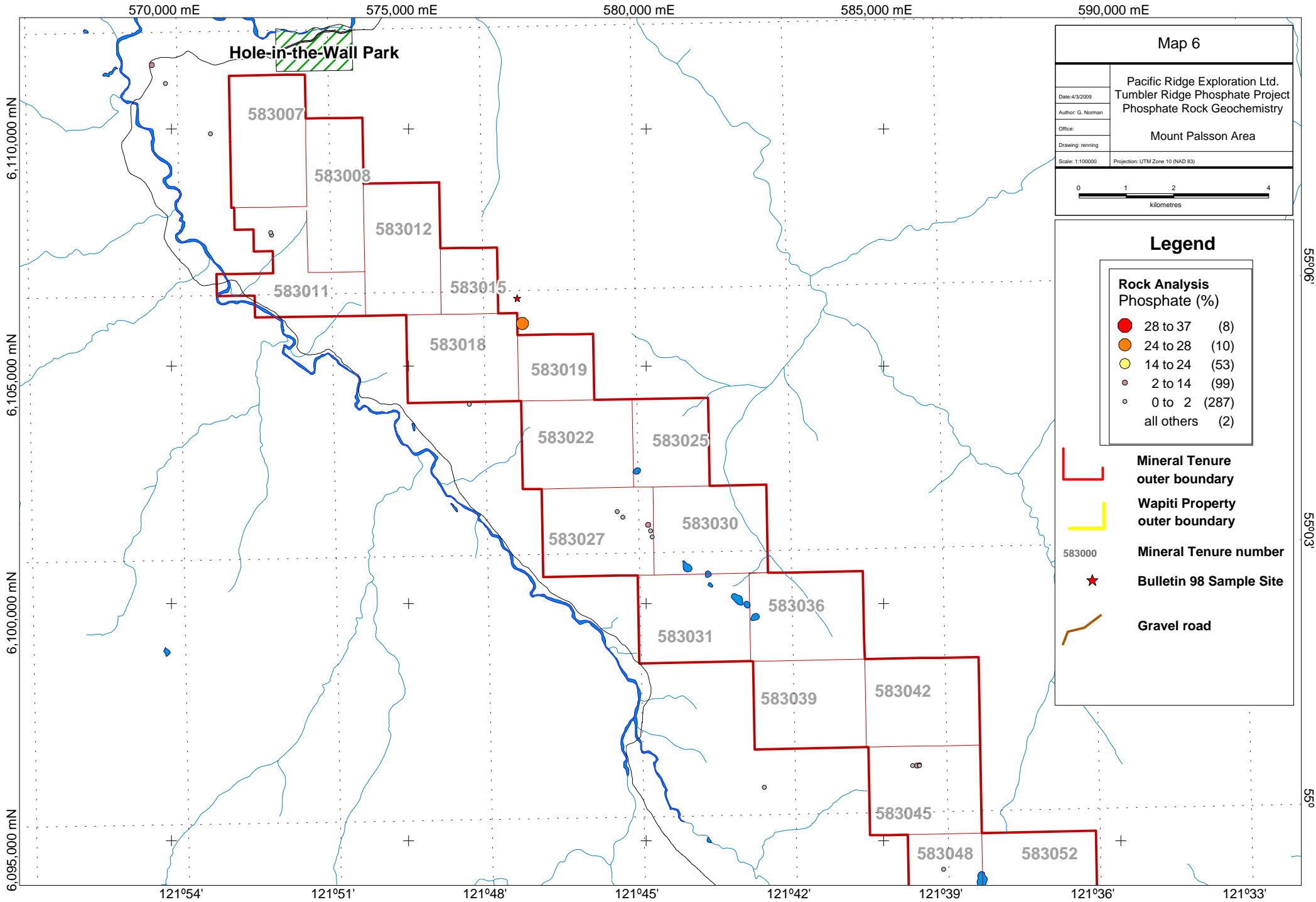
667,800 mE

667,900 mE

668,000 mE

668,100 mE

6,024,700 mN  
6,024,600 mN  
6,024,500 mN  
6,024,400 mN  
6,024,300 mN  
6,024,200 mN  
6,024,100 mN  
6,024,000 mN  
6,023,900 mN  
6,023,800 mN



Map 6	
Date: 4/3/2009	Pacific Ridge Exploration Ltd. Tumbler Ridge Phosphate Project Phosphate Rock Geochemistry
Author: G. Norman	
Office:	
Drawing: renning	
Scale: 1:100000	Projection: UTM Zone 10 (NAD 83)

### Legend

**Rock Analysis Phosphate (%)**

- 28 to 37 (8)
- 24 to 28 (10)
- 14 to 24 (53)
- 2 to 14 (99)
- 0 to 2 (287)
- all others (2)

- └─┘ Mineral Tenure outer boundary
- └─┘ Wapiti Property outer boundary
- 583000 Mineral Tenure number
- ★ Bulletin 98 Sample Site
- Gravel road

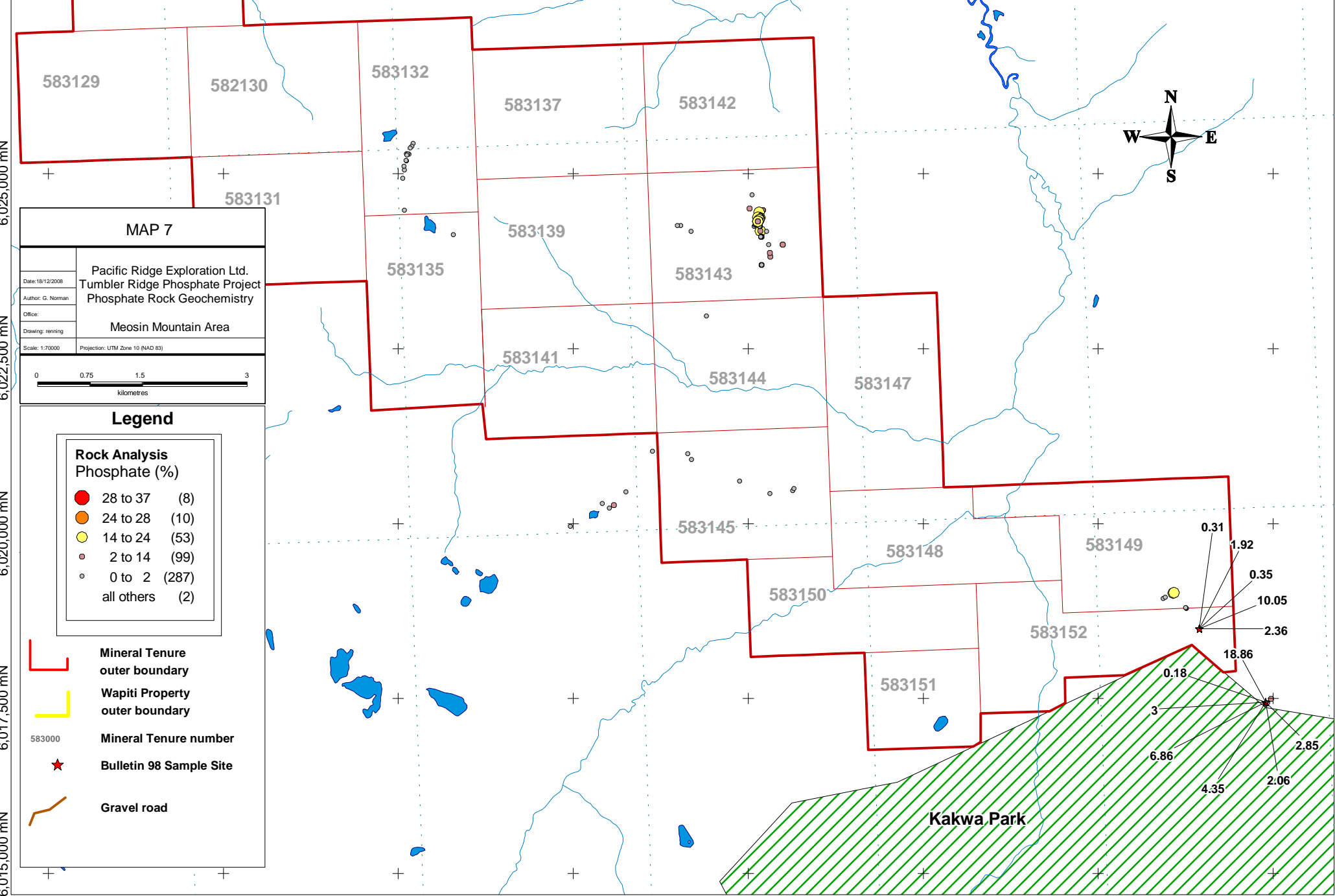
55°06'

55°03'

55°00'



657,500 mE 660,000 mE 662,500 mE 665,000 mE 667,500 mE 670,000 mE 672,500 mE 675,000 mE



54121'

54118'

6,025,000 mN

6,022,500 mN

6,020,000 mN

6,017,500 mN

6,015,000 mN

120°33' 120°30' 120°27' 120°24' 120°21'

**MAP 7**

Date: 18/12/2008	Pacific Ridge Exploration Ltd. Tumbler Ridge Phosphate Project Phosphate Rock Geochemistry
Author: G. Norman	
Office:	Meosin Mountain Area
Drawing: reworking	
Scale: 1:70000	Projection: UTM Zone 10 (NAD 83)

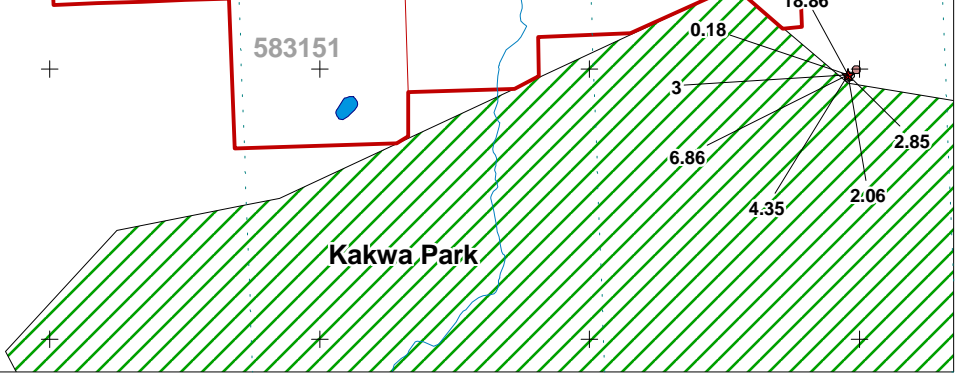
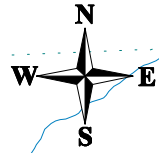
0 0.75 1.5 3  
kilometres

**Legend**

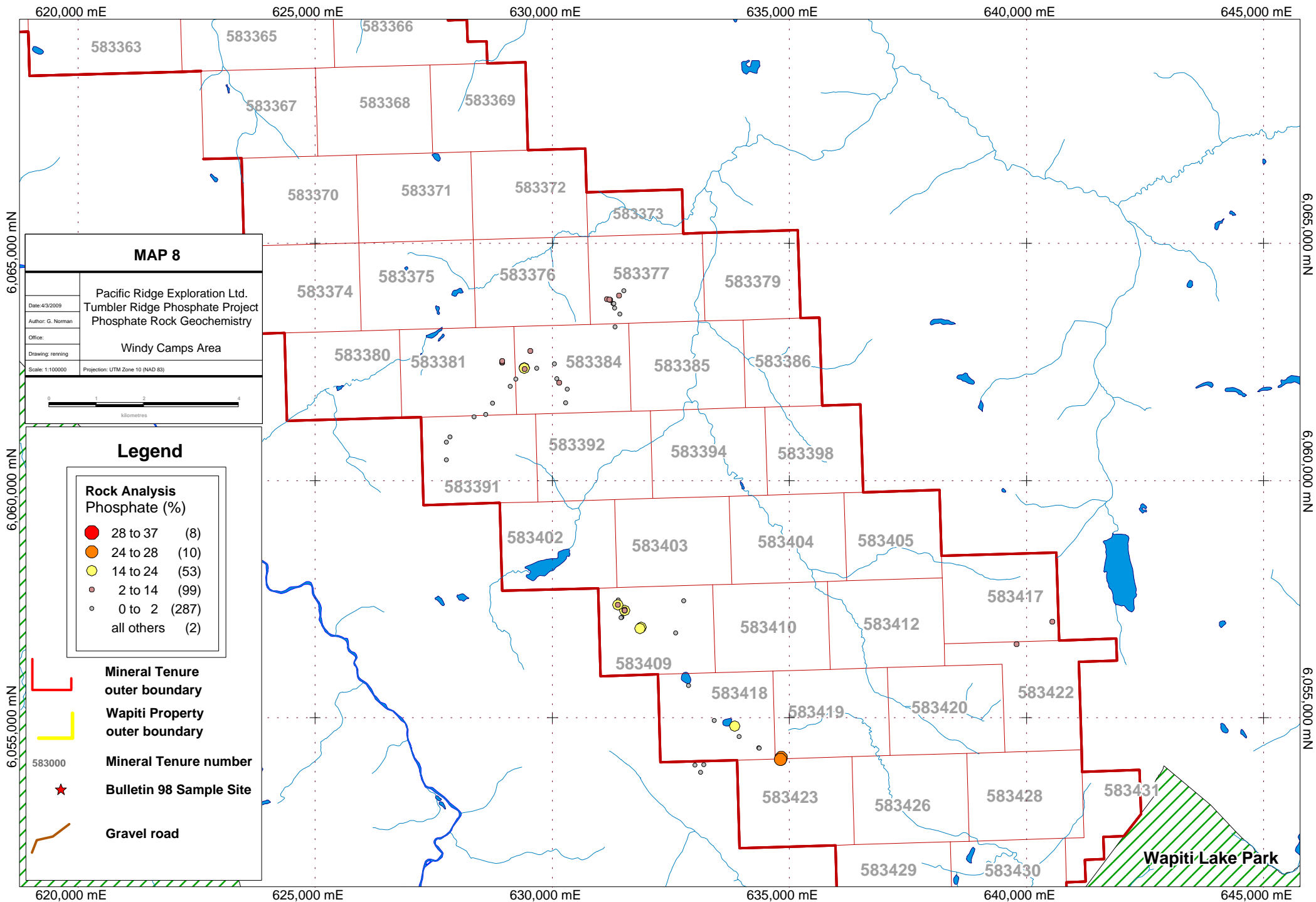
**Rock Analysis Phosphate (%)**

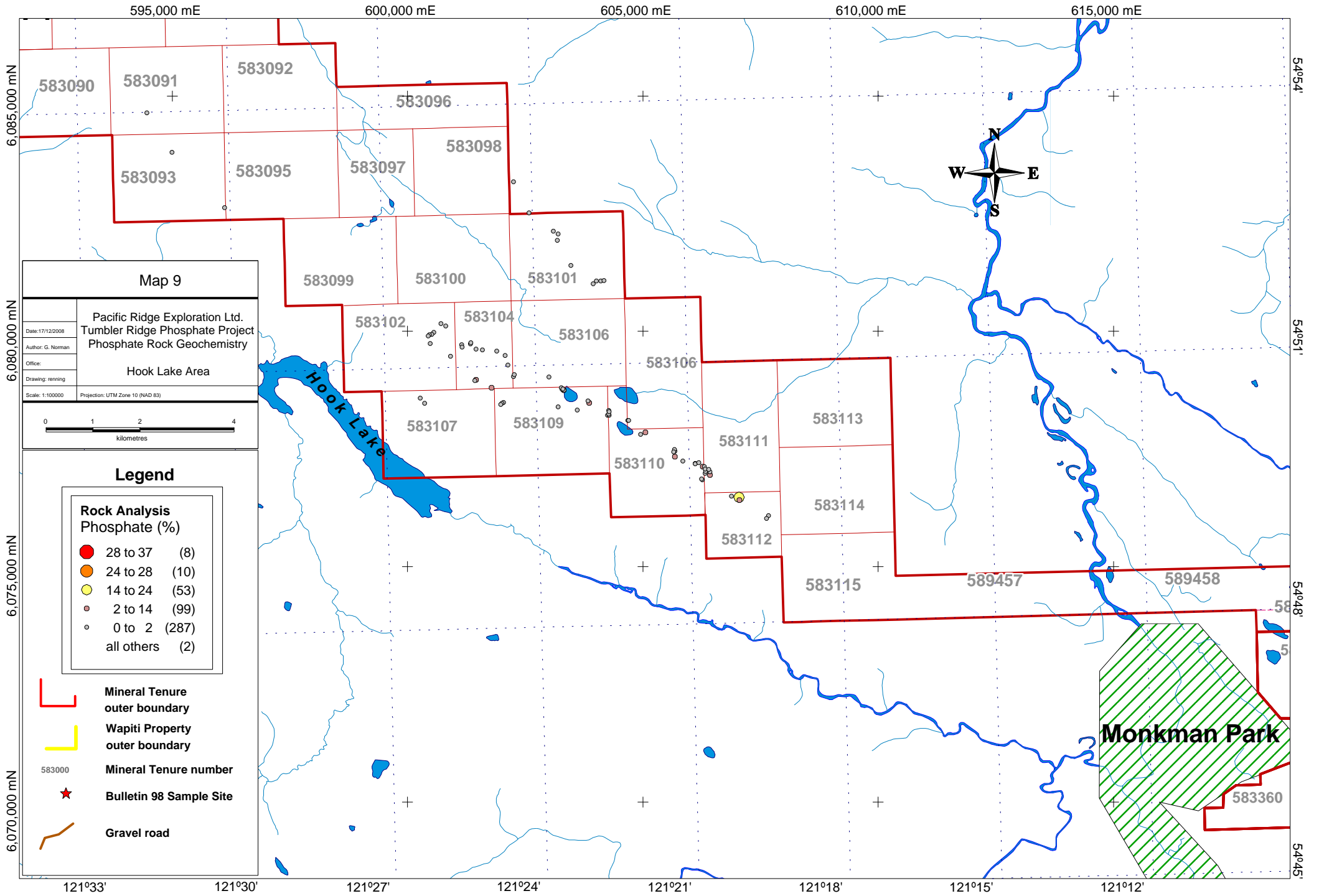
- 28 to 37 (8)
- 24 to 28 (10)
- 14 to 24 (53)
- 2 to 14 (99)
- 0 to 2 (287)
- all others (2)

- ▬ Mineral Tenure outer boundary
- ▬ Wapiti Property outer boundary
- 583000 Mineral Tenure number
- ★ Bulletin 98 Sample Site
- ▬ Gravel road



Kakwa Park



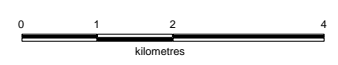


**Map 9**

Pacific Ridge Exploration Ltd.  
Tumbler Ridge Phosphate Project  
Phosphate Rock Geochemistry

Hook Lake Area

Date: 17/12/2008  
Author: G. Norman  
Office:  
Drawing: rening  
Scale: 1:100000  
Projection: UTM Zone 10 (NAD 83)



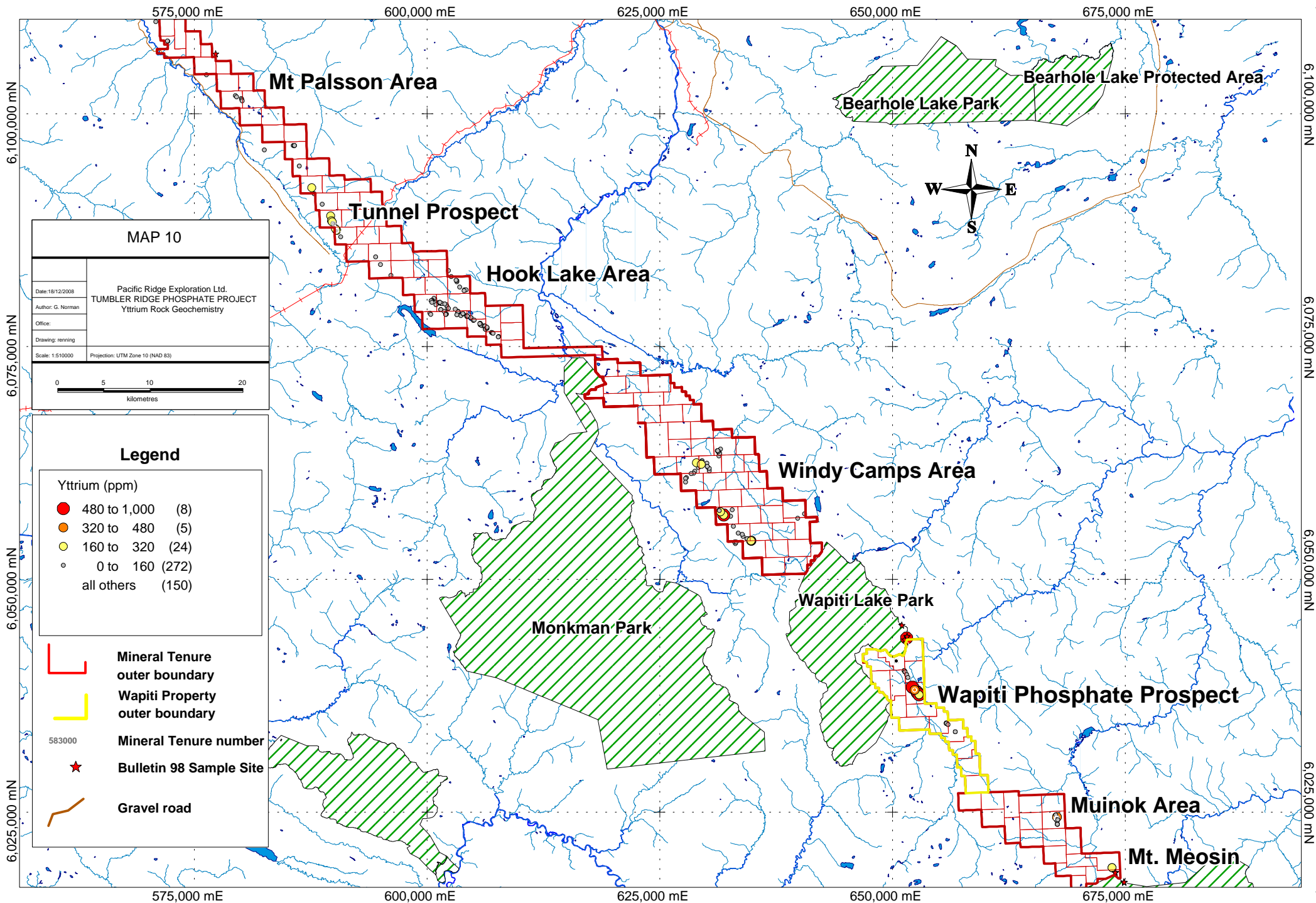
**Legend**

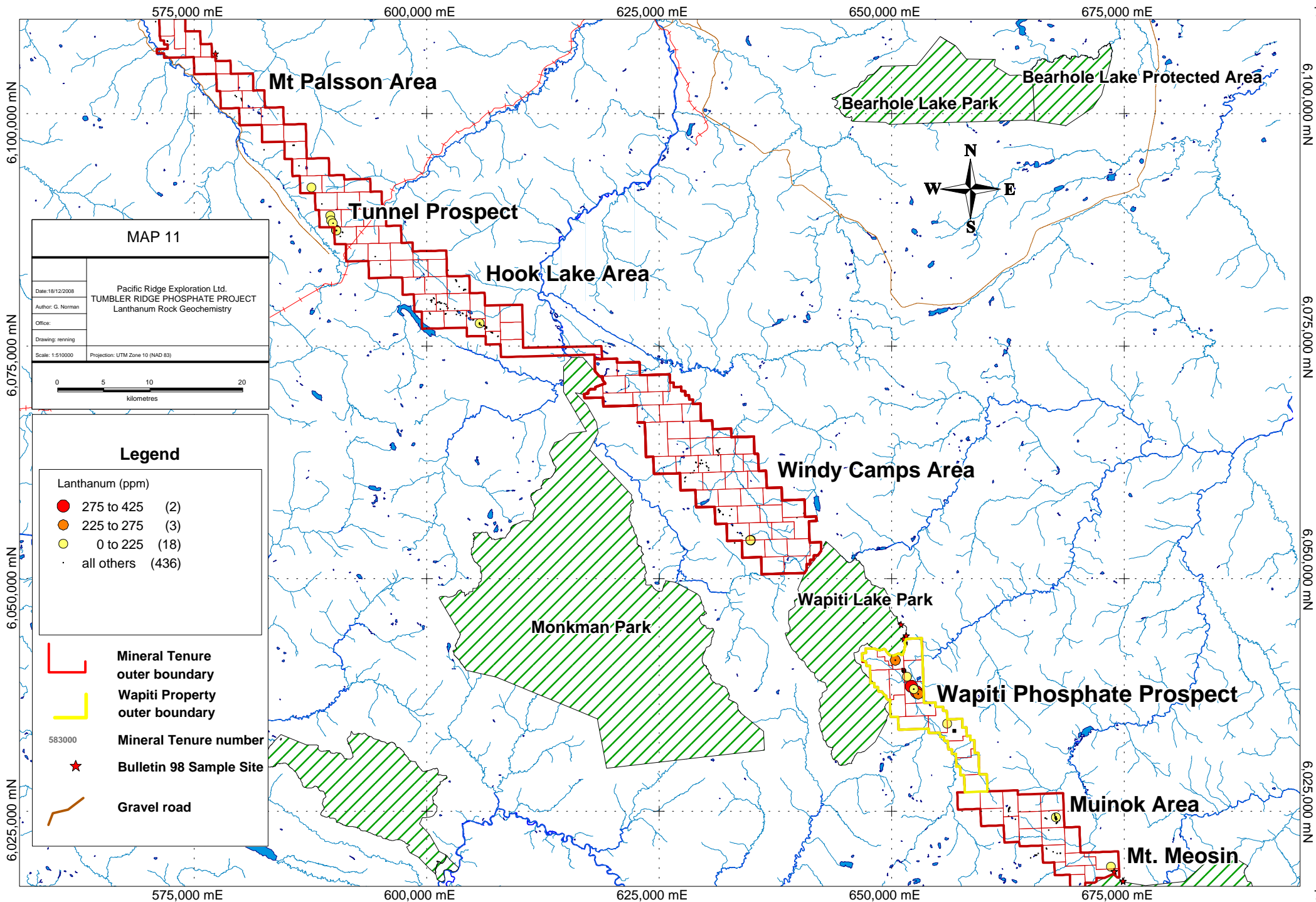
**Rock Analysis Phosphate (%)**

- 28 to 37 (8)
- 24 to 28 (10)
- 14 to 24 (53)
- 2 to 14 (99)
- 0 to 2 (287)
- all others (2)

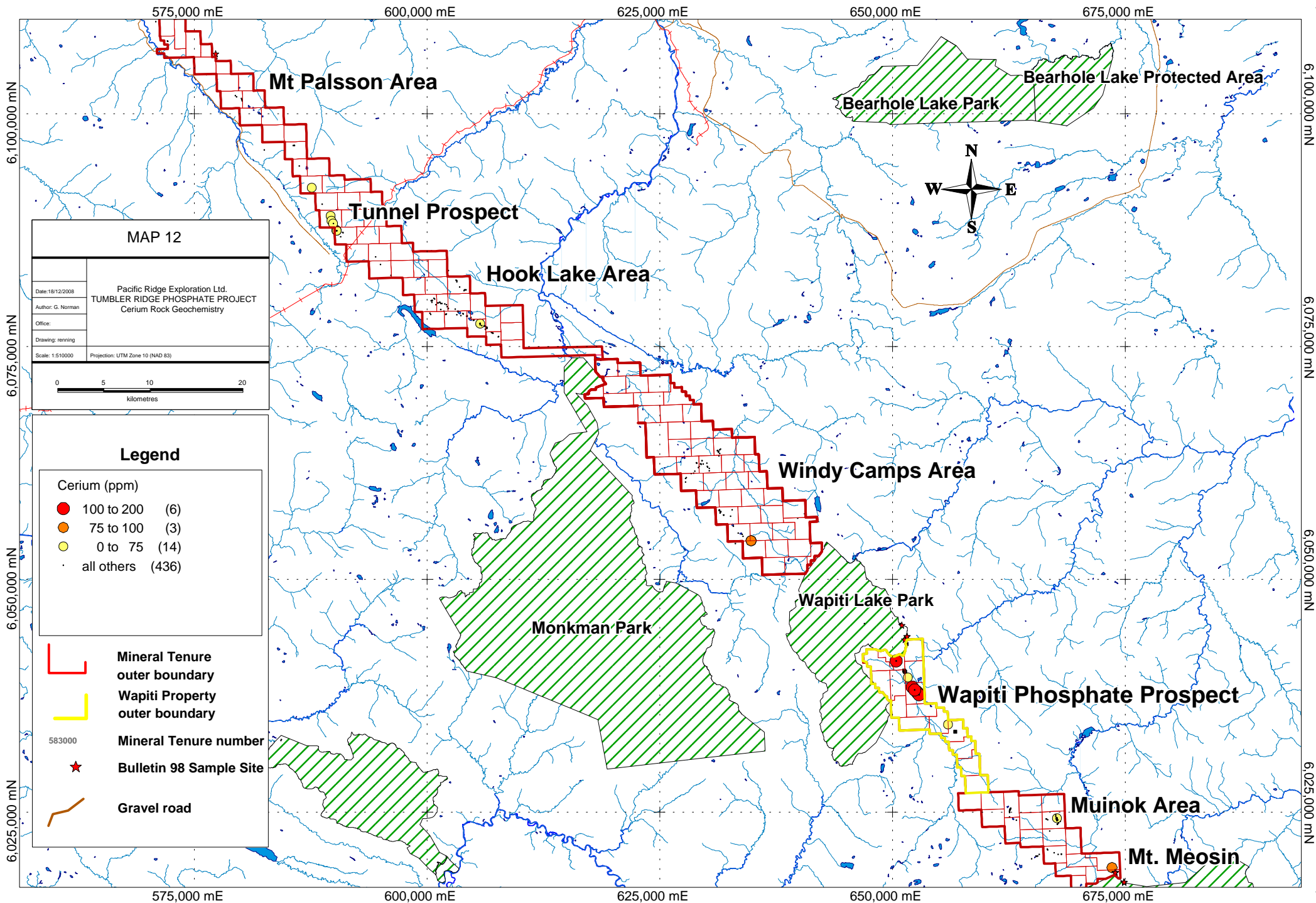
Mineral Tenure outer boundary  
 Wapiti Property outer boundary  
 583000 Mineral Tenure number  
 Bulletin 98 Sample Site  
 Gravel road

**Monkman Park**



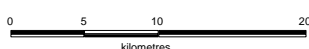






**MAP 12**

Date: 18/12/2008	Pacific Ridge Exploration Ltd. TUMBLER RIDGE PHOSPHATE PROJECT Cerium Rock Geochemistry
Author: G. Nerman	
Office:	
Drawing: renning	
Scale: 1:510000	
Projection: UTM Zone 10 (NAD 83)	



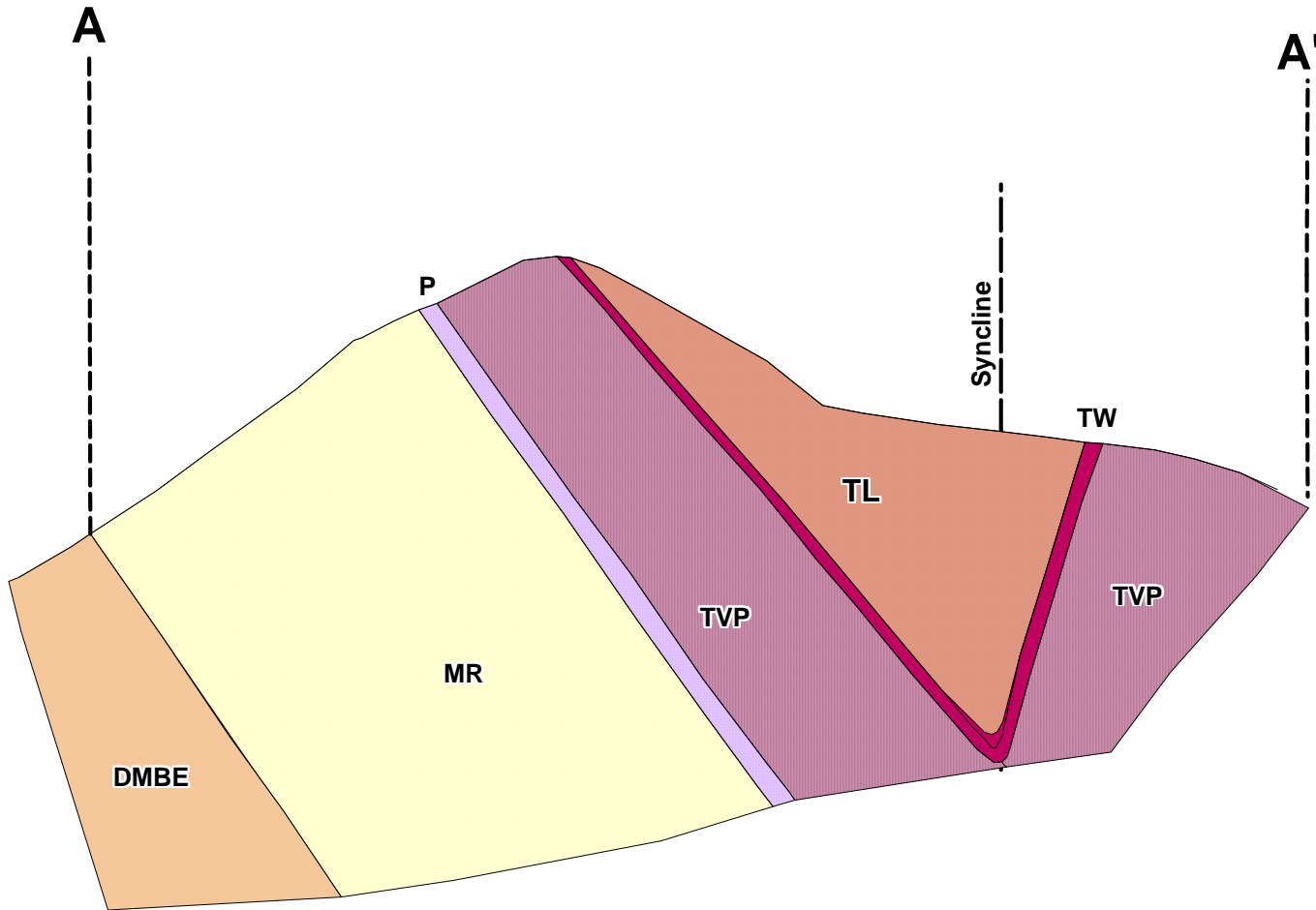
**Legend**

Cerium (ppm)

- 100 to 200 (6)
- 75 to 100 (3)
- 0 to 75 (14)
- all others (436)

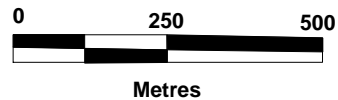
- └─┘ Mineral Tenure outer boundary
- └─┘ Wapiti Property outer boundary
- 583000 Mineral Tenure number
- ★ Bulletin 98 Sample Site
- Gravel road

View Looking Northwest  
Section TZ-08-01

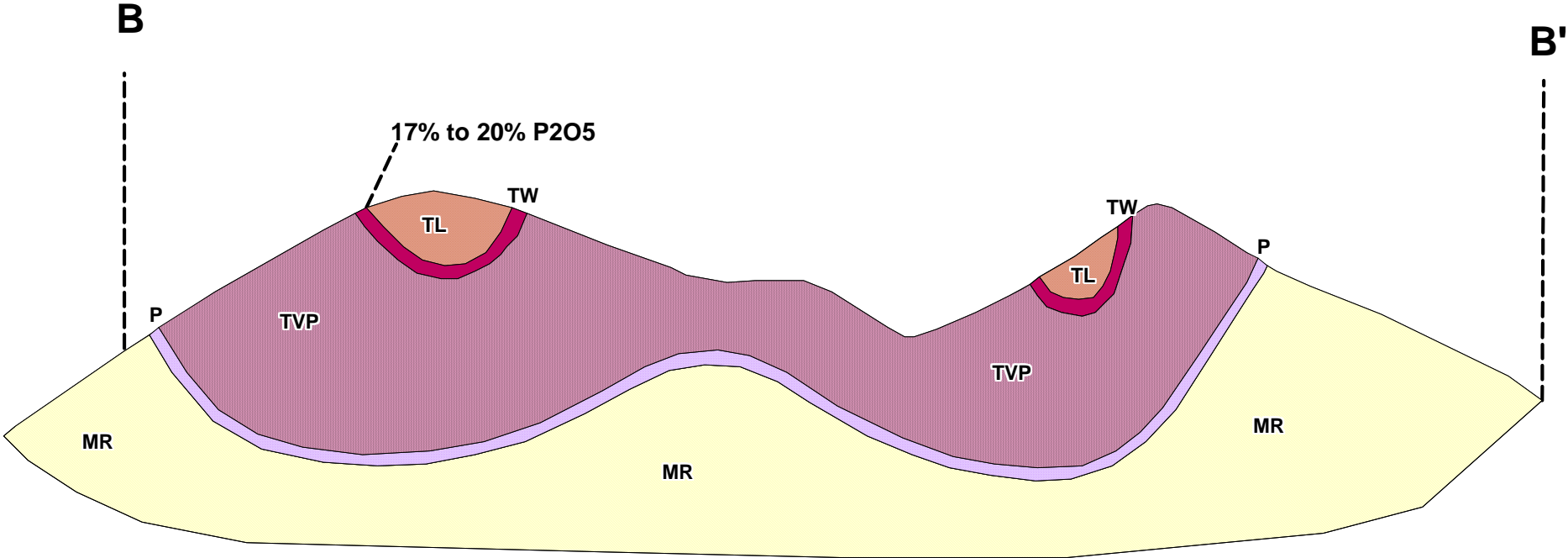








Date: 15/12/2008	Pacific Ridge Exploration Ltd. Section A - A'
Author: G. Norman	
Office:	
Drawing: renning	
Tunnel Phosphate Prospect: Section TZ-08-01	

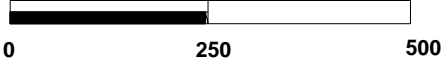
<b>TVP</b>	Spray River Group - Vega-Phroso MBR. - Sulphur Mountain FM.	<b>TW</b>	Spray River Group - Whistler MBR. - Sulphur Mountain FM.	<b>MR</b>	Rundle Group
<b>TL</b>	Spray River Group - Llama MBR. - Sulphur Mountain FM.	<b>TWH</b>	Spray River Group - Whitehorse FM.	<b>P</b>	Stoddart Group



View Looking Northwest  
Section TZ-08-02



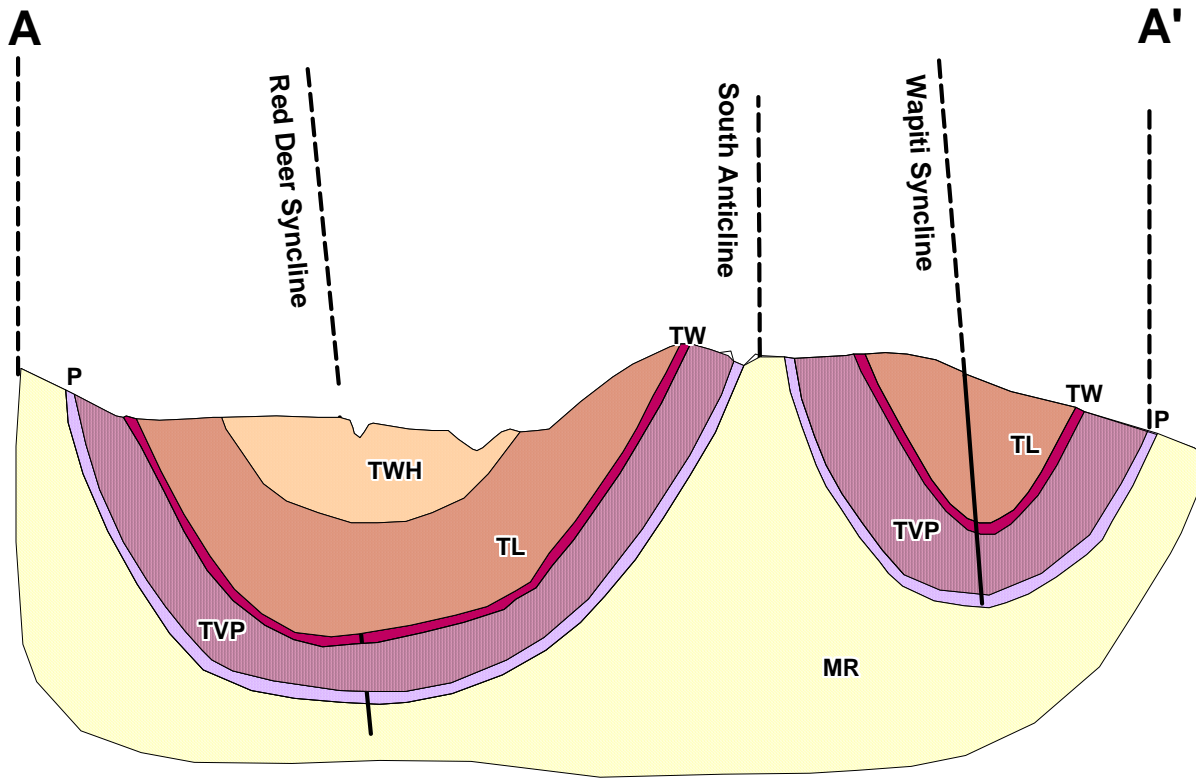
Date: 15/12/2008 Author: G. Norman Office: Drawing: renning	Pacific Ridge Exploration Ltd. Section B - B'	 TVP Spray River Group - Vega-Phroso MBR. - Sulphur Mountain FM.	 TW Spray River Group - Whistler MBR. - Sulphur Mountain FM.	 MR Rundle Group
	Tunnel Phosphate Prospect: Section TZ-08-02	 TL Spray River Group - Llama MBR. - Sulphur Mountain FM.	 TWH Spray River Group - Whitehorse FM.	 P Stoddart Group



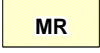






Metres

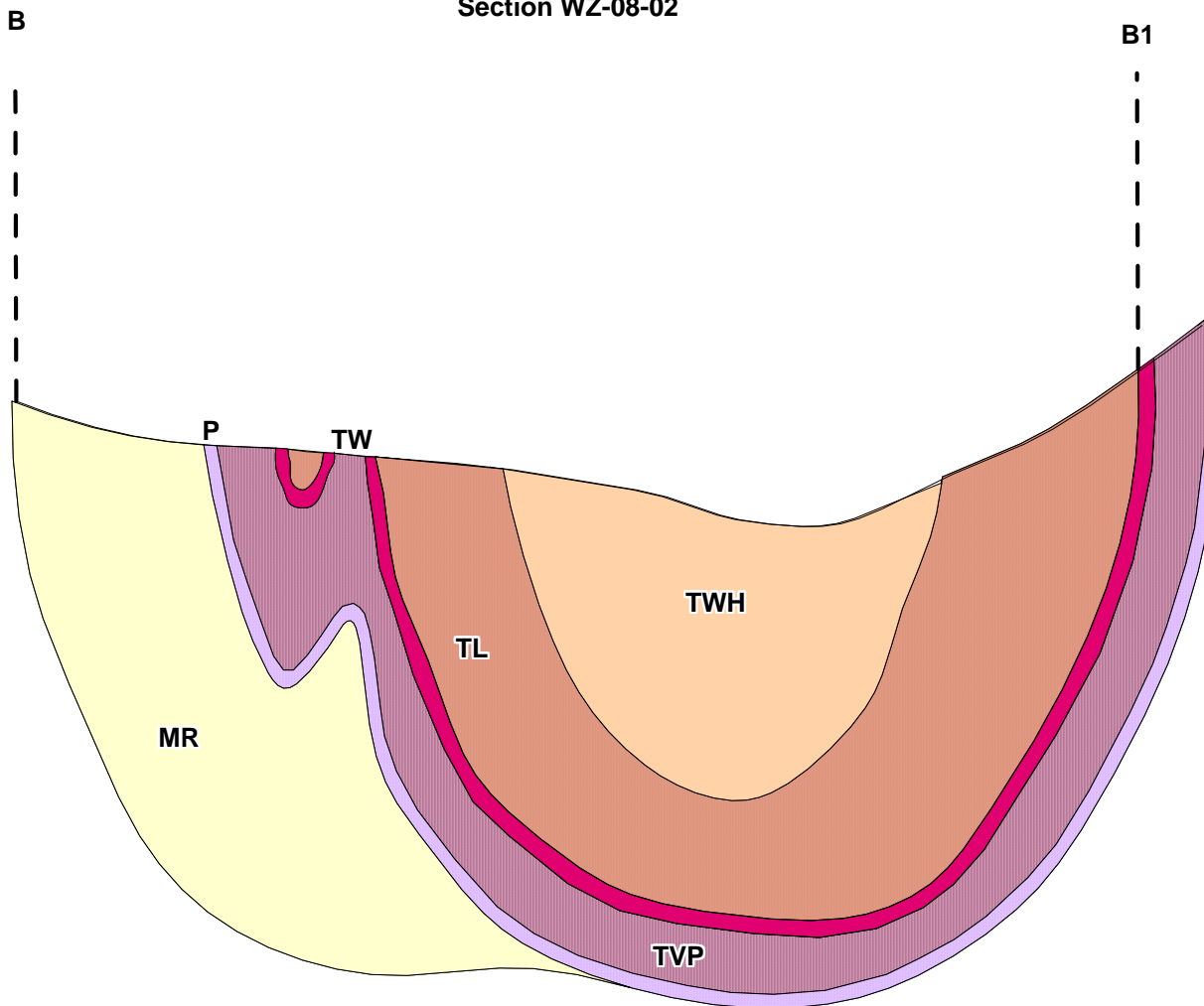








View Looking Northwest  
Section WZ-08-01



Date: 15/12/2008 Author: G. Norman Office: Drawing: renning	<b>Pacific Ridge Exploration Ltd.</b> Section A - A'		 <b>TVP</b> Spray River Group - Vega-Phroso MBR. - Sulphur Mountain FM.	 <b>TW</b> Spray River Group - Whistler MBR. - Sulphur Mountain FM.	 <b>MR</b> Rundle Group
	<b>Wapiti Phosphate Prospect:</b> Section WZ-08-01		 <b>TL</b> Spray River Group - Llama MBR. - Sulphur Mountain FM.	 <b>TWH</b> Spray River Group - Whitehorse FM.	 <b>P</b> Stoddart Group
	0      500      1000  Metres				
	(Empty space for additional notes or signatures)				

View Looking Northeast  
Section WZ-08-02



Date: 15/12/2008 Author: G. Norman Office: Drawing: renning	<b>Pacific Ridge Exploration Ltd.</b> <b>Section B - B'</b>		
	<b>Wapiti Phosphate Prospect:</b> <b>Section WZ-08-02</b>		
	 <b>TVP</b> Spray River Group - Vega-Phroso MBR. - Sulphur Mountain FM.	 <b>TW</b> Spray River Group - Whistler MBR. - Sulphur Mountain FM.	 <b>MR</b> Rundle Group
	 <b>TL</b> Spray River Group - Llama MBR. - Sulphur Mountain FM.	 <b>TWH</b> Spray River Group - Whitehorse FM.	 <b>P</b> Stoddart Group

