

**BC Geological Survey
Assessment Report
30717**

2008 RECONNAISSANCE EXPLORATION & HAND TRENCHING ASSESSMENT REPORT

ON THE

WAPITI PHOSPHATE PROSPECT

WAPITI & W 2 - W 15 CLAIMS

CENTERED AT APPROXIMATELY 54° 26' NORTH LATITUDE AND 120° 37' WEST LONGITUDE

NTS SHEETS 93I: 038, 047, 048 & 057

LIARD MINING DIVISION

for

PACIFIC RIDGE EXPLORATION LTD. & LATEEGRA GOLD CORP.



WAPITI ZONE : High Grade Phosphorite (22.6% P₂O₅)

by

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1.0 Summary

The Wapiti Phosphate prospect 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. The Wapiti Phosphate prospect has now been included in a larger claim holding referred to as the Tumbler Ridge Project which was assembled by Pacific Ridge Exploration Ltd. ("Pacific Ridge") during April of 2008. Pacific Ridge now controls an accumulative length of 127 km of prospective sedimentary phosphate bearing stratigraphy covering 137 claims and 585.3 sq km of which 88% (517 sq km) is 100% owned. The Wapiti prospect, or frequently referred to as the Wapiti claims in this report consisting of 15 claims encompassing 68.3 sq km, became part of the Tumbler Ridge Project after Pacific Ridge optioned the claims 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 Tumbler Ridge 2008 field season during July and August. 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 the August. The Phase II Wapiti hand trenching program was conducted from August 5 to to August 16.

Prince George is the nearest major center to the Wapiti prospect and more than adequately supports exploration programs in the area. The northern and middle portion of the claims, near Doig Lake, and along Red Deer Creek can be accessed by a logging/oil field access road which has become partially over grown; however, the western and southern portions of the property are 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 only out of Tumbler Ridge.

The Wapiti Phosphate claims are 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 at the Wapiti Phosphate Zone is a sedimentary-style "blanket type" phosphate deposit. Pacific Ridge structured the 2008 Tumbler Ridge exploration program to prospect for and sample phosphate occurrences within the Whistler Member of the Sulphur Mountain Formation and in particular phosphate bearing zones as identified 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 and included sampling and hand trenching at the Wapiti Phosphate prospect. Pacific Ridge crews collected 33 samples during the 2008 field season including 7 grab float samples during the Phase I exploration phase and 26 Phase II rock chip trench samples on the Wapiti claims portion of the project area and a total of 46 person field days of work were charged to the Wapiti claims.

Impressive phosphate (% P₂O₅) values over significant widths are located within the Wapiti claims with values to 34.7% P₂O₅ over 2 metres. 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 horizons present attractive potential mining scenarios. Follow up trenching and diamond drilling is recommended in 2009.

2.0 Introduction

2.1 *Property Description and Location*

The Wapiti Phosphate property is located within the Liard Mining Division of north central B.C. approximately 145 km northeasterly from Prince George and 75km southeasterly from the town of Tumbler Ridge (Fig. 1). The Wapiti claims are now included in Pacific Ridge's Tumbler Ridge Project which spans an accumulative length of 127 km and width of approximately 5 km. The Tumbler Ridge 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. Pacific Ridge optioned the Wapiti property of 15 claims covering 68.3 sq km from Lateegra Gold Corp. in July 2008. The Tumbler Ridge Project total claim package includes Pacific Ridge's 122 PH claims and Lateegra's 15 Wapiti and W claims. The Wapiti claims are centered at approximately 54° 26' north latitude and 120° 37' west longitude within NTS sheets 93I 038, 93I 047, 93I 048 and 93I 057 (Fig. 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 BC Rail line which connects Prince George, Tumbler Ridge and Fort St. John tunnels under the Tumbler Ridge project area near the headwaters of the Wolverine River (Wolverine Tunnel) approximately 45 kilometers to the northwest of the Wapiti claims.

Elevations within the Wapiti property range from 1200m to 2000m a.s.l. and the annual precipitation is moderate to high with large accumulations of snow expected during winter months.

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

Prince George is the nearest major center to the Wapiti prospect and more than adequately supports exploration programs in the area. The northern and middle portion of the claims, near Doig Lake, and along Red Deer Creek can be accessed by a logging/oil field access road which has become partially over grown; however, the western and southern portions of the property are 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 Wapiti Phosphate prospect lies within the Hart Range of the Rocky Mountains and extends easterly towards the Rocky Mountain Foothills. The Hart Ranges exhibit the typical "Rocky Mountain" appearance as per the Banff-Jasper region where cliff forming strata alternate with recessive units.

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 1st. Extensive areas of wild fire burn has cleared out underbrush growth making ground based prospecting more accessible near Doig Lake.

WAPITI PHOSPHATE PROSPECT, & TUMBLER RIDGE PHOSPHATE PROJECT LOCATION MAP

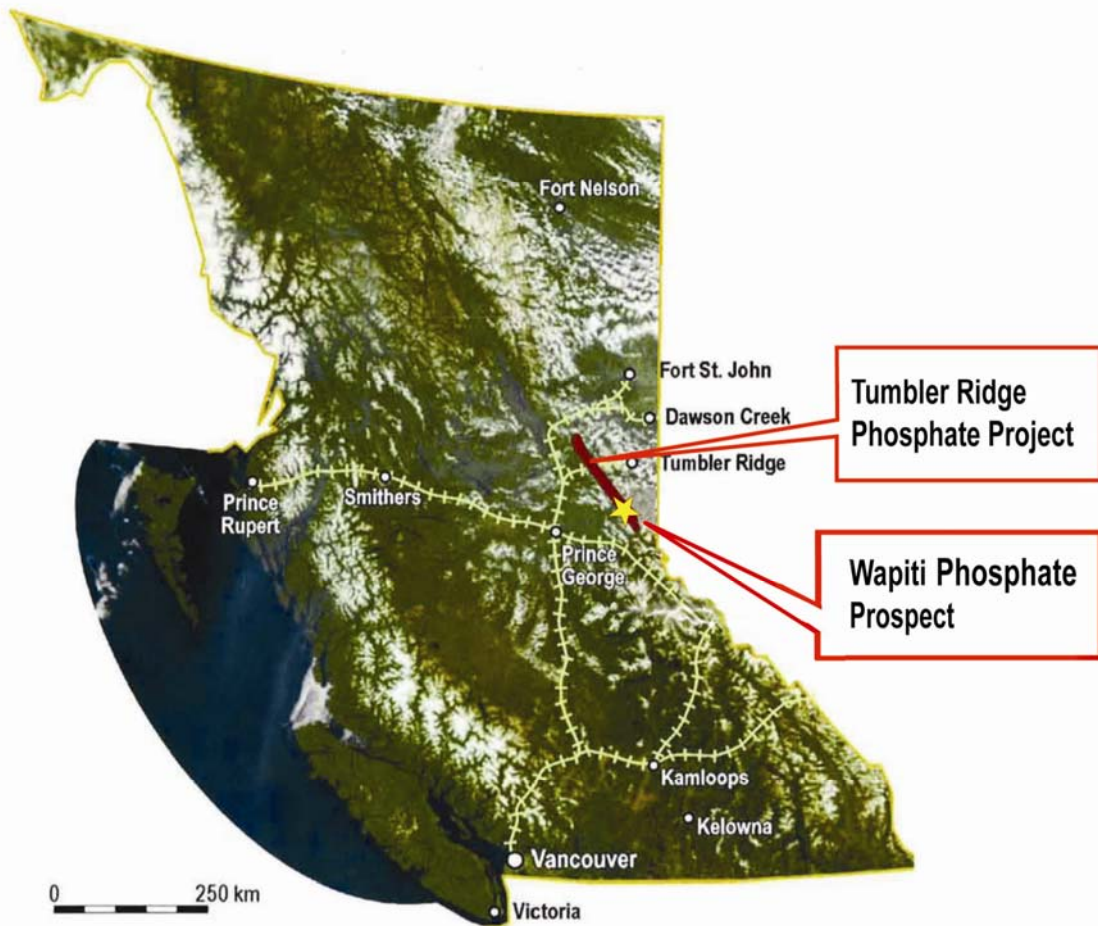


Figure 1 WAPITI PHOSPHATE PROSPECT - TUMBLER RIDGE PROJECT Location Map

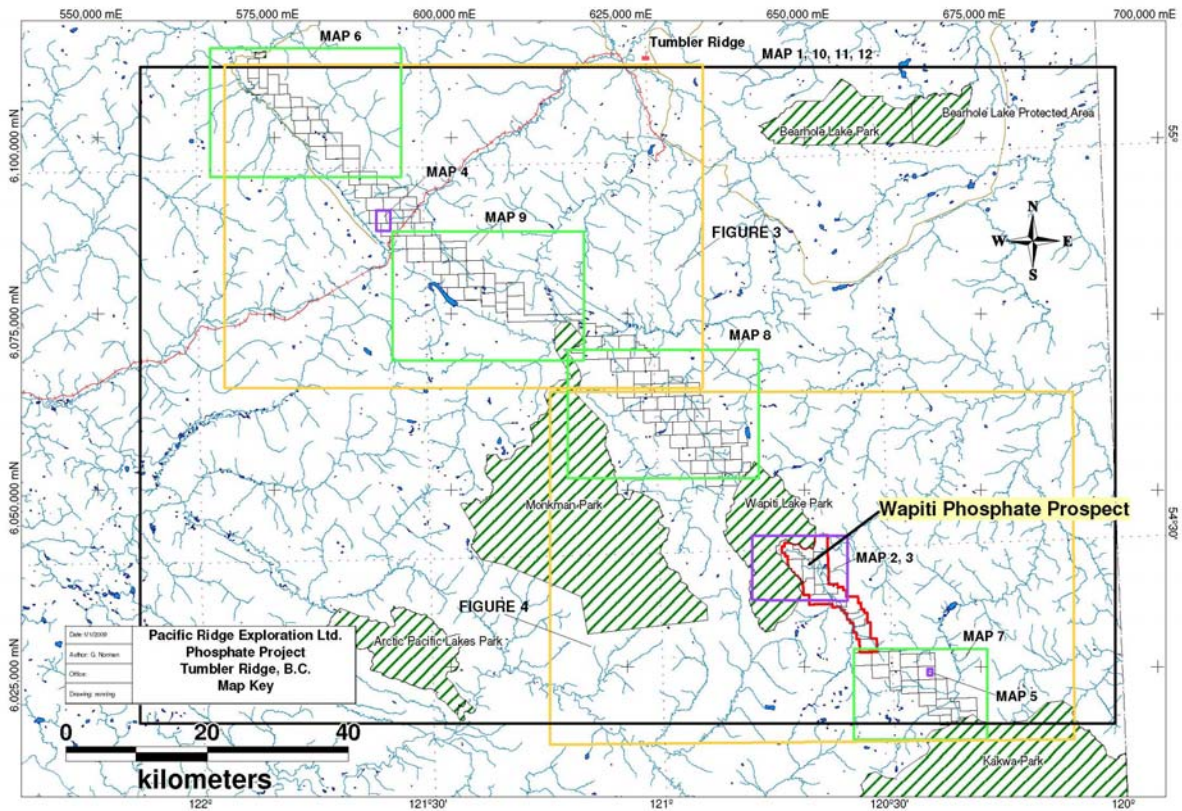


Figure 2 WAPITI PHOSPHATE PROSPECT: PROPERTY MAP

2.3 Mineral Tenure

The Wapiti property, 15 claims encompassing 6,825 hectares was optioned from Lateegra Gold Corp. in July 2008. The Wapiti area is composed of 1 Wapiti claim and 14 W claims. The claims are listed in Table 1 and outlined in Figure 3.

**TABLE 1 LAND TENURE WAPITI PROPERTY
OPTIONED FROM LATEEGRA GOLD CORP.**

Tenure Number	Claim Name	Registered Owner	Map Number	Good To Date	Status	Mining Division	Area (Hec.)
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	<u>452.1</u>
						Total Hectares	6,825.5

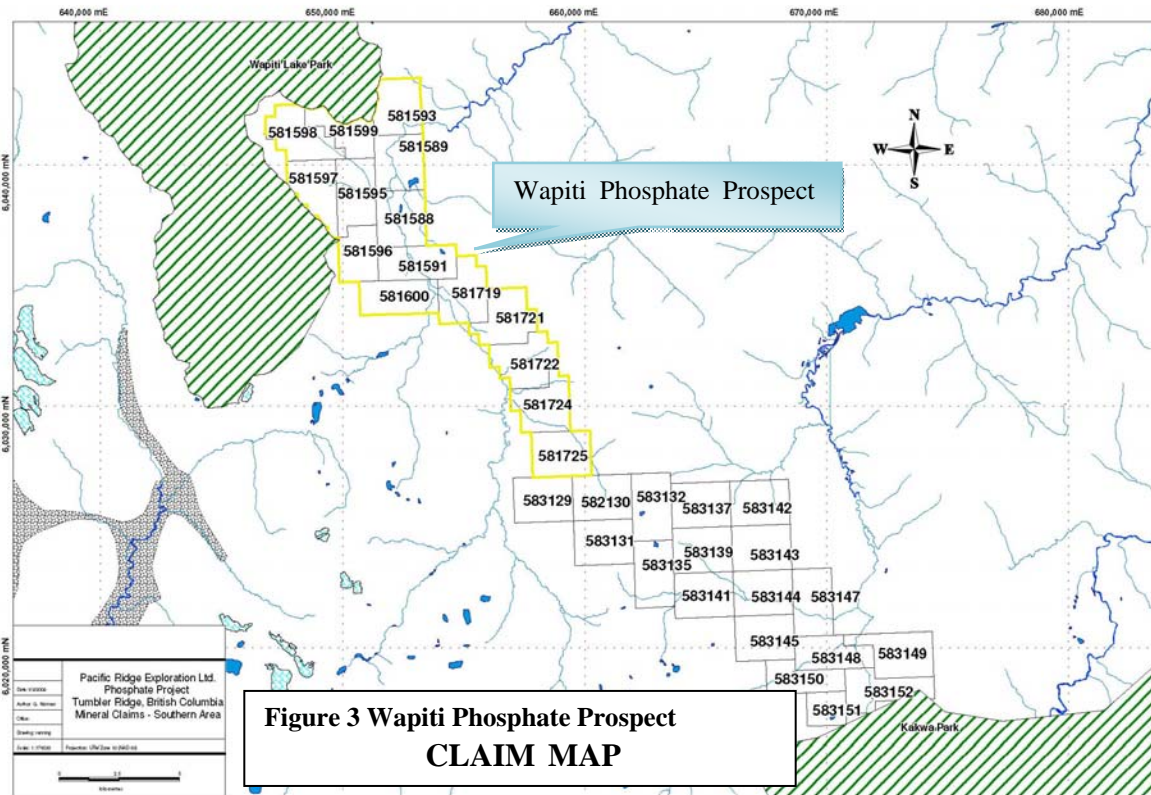


Figure 3 Wapiti Phosphate Prospect CLAIM MAP

2.4 Agreement with Lateegra 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 Lateegra 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 Wapiti prospect 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 program). The Esso work straddles the Lateegra 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.

2.6 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 16. A total of 33 samples were collected and analyzed for phosphate (reported as % P₂O₅) from the Wapiti Phosphate Zone.

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 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 is 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.

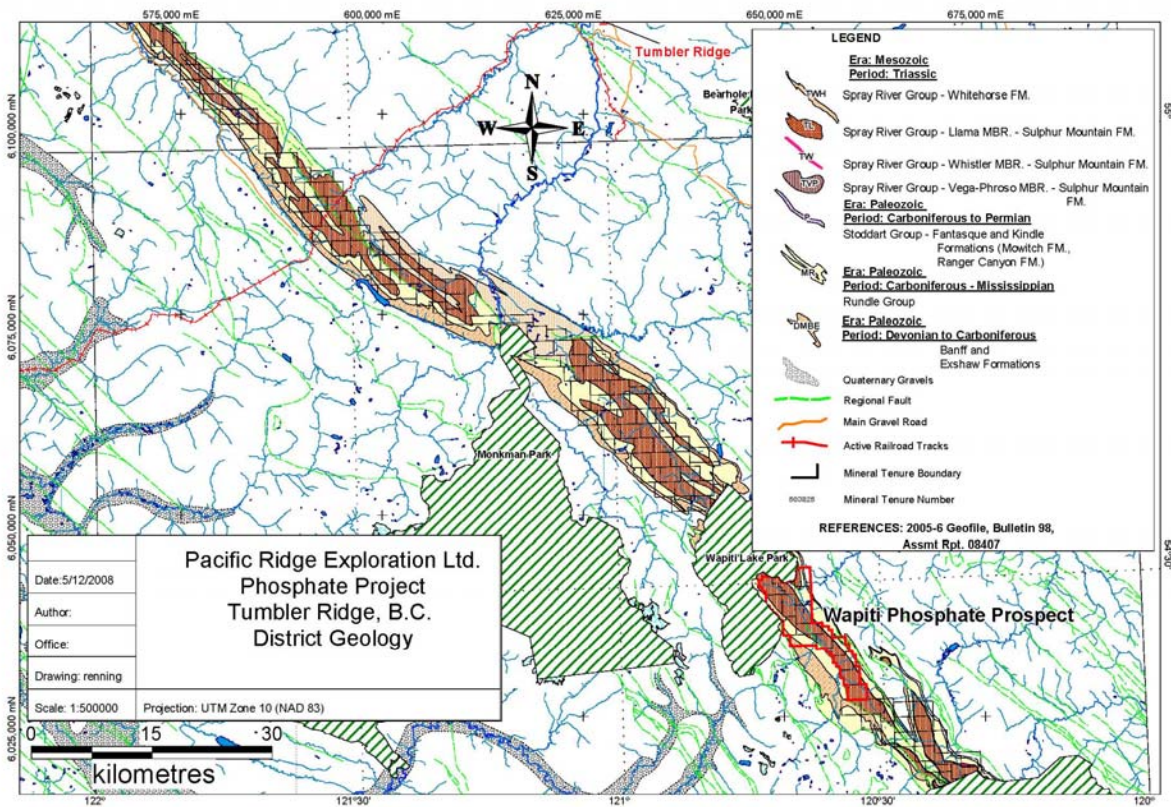


Figure 4

DISTRICT GEOLOGY

3.2 Property Geology

The Wapiti Phosphate 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 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 area 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.

TABLE 2, HISTORIC DRILL HOLE ASSAYS – WAPITI ZONE

1980 ESSO RESOURCES DRILLING

Drill Hole	Location (Lat; Long)	AZ	Dip	Intercept (m)	Length (m)	P2O5 %
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

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 % P₂O₅ (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 is present in the Wapiti Lake area with the phosphatic bearing beds present throughout the Whistler Member.

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 overlies the Whistler member.

3.3 Statistical Analysis

Pacific Ridge crews collected 33 from the Wapiti Phosphate property as part of the 2008 exploration work program on the Tumbler Ridge Project. The samples include 7 grab samples from the Phase I exploration program and 26 rock chip trench samples from the Phase II follow up portion of the program. A statistical analysis of the Wapiti data was not possible due to low number of samples collected.

3.4 Mineralization and Sampling Results

The target sought for at the Wapiti Phosphate property 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 the Mount Palsson to the northwest and included sampling and hand trenching at the Wapiti Phosphate prospect. Pacific Ridge crews collected 30 samples during the 2008 field season including 4 grab samples during the Phase I exploration phase and 26 Phase II rock chip trench samples on the Wapiti claims portion of the project area and a total of 46 field man days of work were charged to the Wapiti Phosphate claim group.

Impressive phosphate (% P₂O₅) values over significant widths are located within the Wapiti claims with values to 34.7% P₂O₅ over 2 metres. Potential exists within the Wapiti claims to host an open pitable phosphorite deposit associated with the Wapiti and Red Deer synclines as dip slope scenarios create attractive potential mining scenarios.

Exploration within the Tumbler Ridge project exploration program has demonstrated that significant areas of high grade sedimentary phosphate are located within the Wapiti Phosphate prospect which warrants additional follow up exploration including geological mapping, trench sampling and diamond drilling.

3.4.1 WAPITI PHOSPHATE 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

TABLE 3

HISTORIC TRENCH ASSAYS – WAPITI ZONE

1980 ESSO RESOURCE

Trench No.	Location	From : To	Length (m)	P2O5 %	Selected Length (m)	Intervals P2O5%
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

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 Table 2 above as well as Compilation Esso Resources Canada and Pacific Ridge, Map 2 in the back pouch of the 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% P₂O₅ (with average of 0.96m of 22.0% P₂O₅) from surface trench samples and 1.6m of 26.3% P₂O₅ (with average of 0.99m of 23.5% P₂O₅) 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 in Tables 2, Summary 1980 Esso Drill Data and Table 3 1980 Esso Trench Data.

A total of 7 grab float and 26 chip samples (predominately hand trenches samples) were obtained from the Wapiti Zone during the Pacific Ridge's 2008 exploration program to confirm previous reported grade- thickness results. Refer to Map 3, Table 5 and Photos 2, 3 & 4 for the 2008 sample results and locations.

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% P₂O₅ and 1.07m of 20.3% P₂O₅ respectively) showed that the 1980 grade-thickness results correlated very well with 2008 surface sample GN-08 – 09 which assayed 22.62 % P₂O₅ over 0.95m. 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 : Pacific Ridge (2008): Esso Resources (1980). 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 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. 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 at Wapiti include rare earth minerals, yttrium (Y), lanthanum (La) and cerium (Ce). A total of 8 samples of high grade phosphorite were analyzed by whole rock analysis for rare earth minerals. The results indicate anomalous values for certain rare earths with a range of 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 anomalous samples locations.

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).

TABLE 4 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

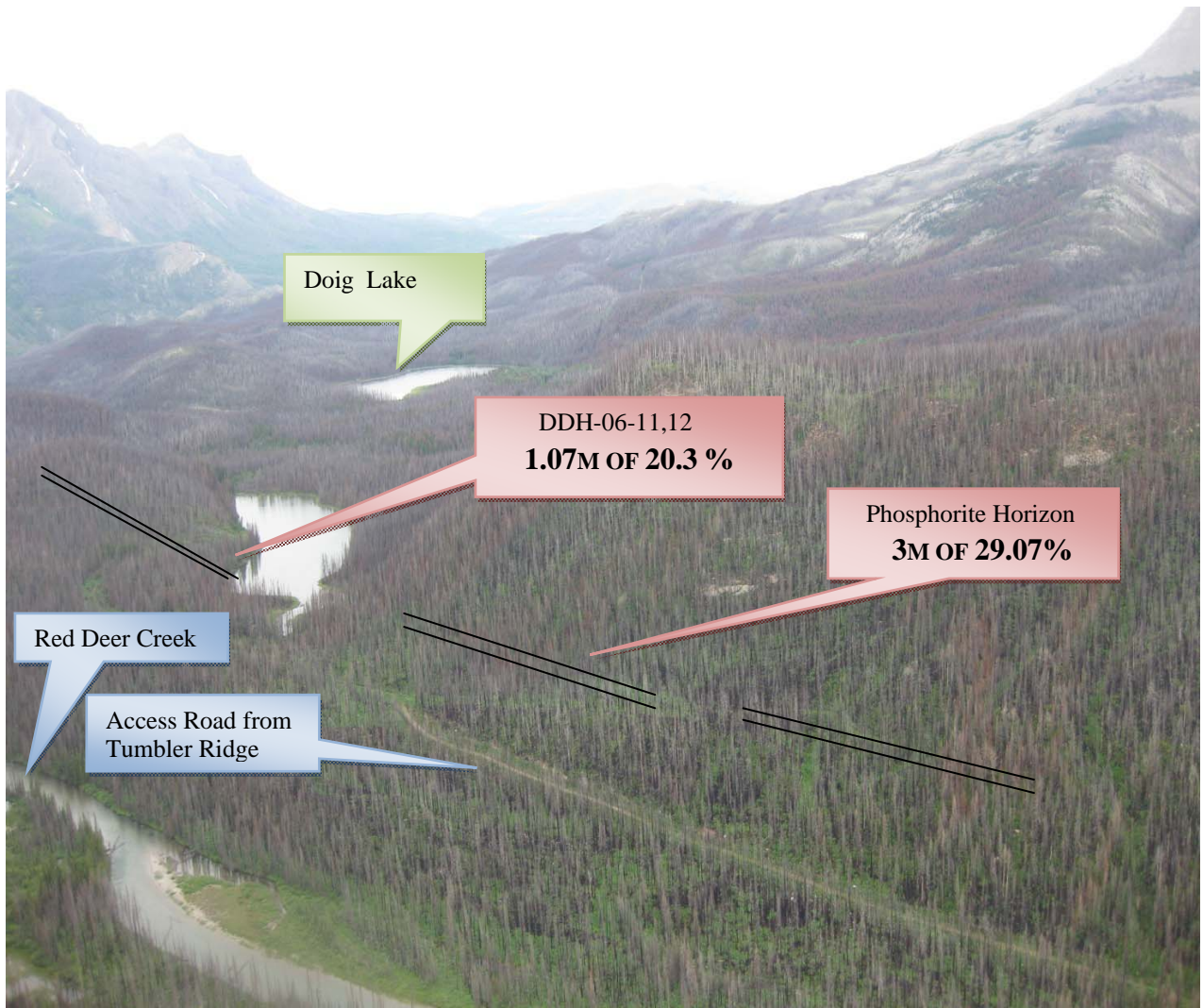


Photo 2

Wapiti Zone Doig Lake Area



Photo 3

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

Wapiti Phosphorite Open Pit Potential

GSC Bulletin 98 suggests that the east limb of the Wapiti Syncline offers potential fordip 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 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% P₂O₅ (Table 3).

A detailed compilation of all Esso and Pacific Ridge information including detailed sectional construction is required to determine the dip slope geometry viability of the phosphorite units.



Photo 4 **WAPITI ZONE : High Grade Phosphorite (22.6% P₂O₅)**

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 Wapiti Phosphate property, 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.

4.0 ANALYSIS and ASSAYING

A total of 33 rock samples were collected during the 2008 field season. George Norman (P. Geo.), geological consultant and Future Metals technical crew under the supervision of Michael Renning collected all the samples. All samples were submitted to Acme Analytical Laboratories Ltd., 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; many assay certificates reported additional oxides and elements. With respect to Group 4B analytical package, whole trace elements analysed by ICP- Mass Spectrometer included Yttrium (Y), Lanthanum (La) and Cerium (Ce). Sample location maps are located in the pocket of this report. Assay certificates are included within Appendix II.

4.1 Sampling Method and Chain of Custody

A samples were collected from various locations within the Wapiti Phosphate. Rock samples were 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 EXPENTURES

Table 5 below summarizes the expenditures of the 2008 Tumbler Ridge Phosphate project exploration program.

TABLE 5 2008 Wapiti Phosphate Prospect Exploration Expenditures

Analysis (% P ₂ O ₅ , whole rock)	\$1207
Contract Prospecting, Sampling	\$19,071
Computer Drafting Maps	\$3,500
Report Preparation	\$8,220
Equipment Rental	\$2,625
Consumables	\$6,665
Transportation – Helicopter	\$12,812
Transportation – Vehicle	\$2,673
<u>Project Management</u>	<u>\$12,302</u>
<u>TOTAL EXPENDITURES:</u>	<u>\$69,324</u>

The above table outlines the total monies expended on the Wapiti Phosphate prospect for the 2008 exploration program. Refer to Pacific Ridge detailed account of expenses in Appendix IV.

6.0 2009 RECOMMENDED EXPLORATION EXPENITURES

An exploration program of \$350,000 is recommended including prospecting, geological mapping, trenching, sampling and 1500m of diamond drilling in 4 holes on the Wapiti Zones.

TABLE 6 2009 Wapiti Phosphate Prospect Exploration Expenditures

Analysis – Assays	\$10,000
Accommodation	\$3,000
Contract Prospecting, Sampling	\$100,000
Computer Drafting Maps	\$7,500
Expediting- Telephone/Compute	\$3,500
Equipment – Consumables	\$25,000
Transportation – Helicopter	\$50,000
Transportation	\$3,000
Transportation – Vehicle	\$25,000
Transportation - Freight	\$5,000
Diamond Drilling 500m @150/m	\$75,000
<u>Consulting, Project Management</u>	<u>\$43,000</u>
<u>TOTAL PROPOSED EXPENDITURES:</u>	<u>\$350,000</u>

7.0 CONCLUSIONS AND RECOMMENDATIONS

The Wapiti Phosphate prospect is located within an extensive belt of sedimentary rocks with one member hosting widespread phosphate mineralization. Attractive grades of phosphate were defined by surface work at Wapiti Zone that now warrants follow-up drill testing. The prospect is located within the Liard Mining Division in north-central B.C. approximately 145 km northeasterly from Prince George and 75km southerly from the town of Tumbler Ridge. The Wapiti Zone has now been included in a larger project area referred to as the Tumbler Ridge Project which was assembled by Pacific Ridge Exploration Ltd. (“Pacific Ridge”). Pacific Ridge controls an accumulative length of 127 km of prospective sedimentary phosphate bearing stratigraphy located within 137 mineral claims and covering a 585.3 sq km area of which 88% (517 sq km) is 100% owned 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 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 Tumbler Ridge project 2008 field season during July and August. Fieldwork consisted of Phase I reconnaissance rock sampling program and a Phase II follow-up hand trenching program. A total of 33 samples were collected within the Wapiti Phosphate Zone.

The Wapiti claims are underlain predominantly by Early and Middle Triassic Sulphur Mountain Formation, Lower Carboniferous Rundle Group and Upper Devonian Exshaw and Banff Formations. The stratigraphy comprises a northwest-southeast trending belt of rocks that have been folded into northwest – southeast trending tight anticlines and relatively broad open synclines. 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.

Within Wapiti 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 at the Wapiti Phosphate Zone is a sedimentary-style “blanket type” phosphate deposit. Pacific Ridge designed the 2008 Tumbler Ridge exploration program to prospect and sample prospective phosphate showings and horizons within the Whistler Member of the Sulphur Mountain Formation for phosphate-bearing zones as identified by S. Butrenchuk’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 and included sampling and hand trenching at the Wapiti Phosphate prospect. Pacific Ridge crews collected 33 samples during the 2008 field season including 7 grab samples during the Phase I exploration phase and 26 Phase II rock chip trench samples on the Wapiti claims.

Overall, the Wapiti Zone exhibits attractive grade- thickness phosphorite grades. On average the zone of interest where it was trench sampled by Esso returned 22.1% P₂O₅ 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% P₂O₅ 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 1.0 metre. The zone extending 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 % P₂O₅ grade with 3 samples averaging 31.23% P₂O₅ over 1.67m. 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 a potential open pitable phosphorite deposit.

Further compilation of the 1980 Esso exploration work and the Pacific Ridge work including sectional work is required. Additional hand trenching and diamond drilling is recommended .

Exploration within prospect area has demonstrated that significant amounts of high grade sedimentary phosphate are located within the Wapiti Zone which are easily accessed and exhibit attractive mining possibilities. Additional follow-up exploration including diamond drilling is warranted.

A recommended program of \$350,000 is warranted including 500m of drilling in 4 holes on the Wapiti Zone.

Dated at Vancouver, BC, this 4th day of February, 2009

George Norman, P. Geo

Michael Renning, Propector

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 Wapiti Phosphate prospect 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 Wapiti Phosphate Property".

Dated at Vancouver, BC, this 4th day of February, 2008

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 Wapiti Phosphate prospect 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 4th day of February, 2009

Michael Renning, Prospector

9.0 REFERENCES

Butrenchuk, S.; 1996, Phosphate Deposits in British Columbia, British Columbia Ministry of Employment and Investment Energy and Minerals Division Geological Survey Branch, Bulletin 98.

Christie, R. L.; 1978, Sedimentary Phosphate Deposits, Geological Survey Paper 78-20.

Heffernan, K.J.; 1980, Report on Geological Mapping, Sampling and Drilling Wapiti #1-25 Claims Liard Mining Division, Esso Resources Canada, Assessment Report 8407, Minerals Resources Branch, Dept. of Mining and Petroleum Resources of British Columbia.

GeoFile; 2005-6, British Columbia Government Website, Map Place

McMechan, M.E. & Thompson, R.I.; 1995, Belcourt Lake, Map 1869A, Geological Survey of Canada.

McMechan, M.E. & Thompson, R.I.; 1995, Wapiti Pass, Map 1872A, Geological Survey of Canada.

McMechan, M.E., R.I.; 1995, Dawson Creek, Map 1858A, Geological Survey of Canada.

McMechan, M.E. & Thompson, R.I.; 1983, Open File 1150, Geological Survey of Canada.

APPENDIX I

WAPITI ZONE SAMPLE LEDGERS

2008

Sample Number	Easting	Northing	Sampler Notes	Sample Width	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)
48136	652614.74	6037898.48	1M chip sample; high grade oolitic vein 0.4M wide	1.0M	48.75	24.27	-99	-99	-99	-99
48137	652615.77	6037899.06	1M chip sample; east of 48136	1.0M	39.68	29.73	-99	-99	-99	-99
48138	652613.72	6037897.97	1M chip sample; west of 48136	1.0M	45.06	32.92	139.8	583.8	271	110.8
48139	652677.8	6037823.31	1M chip sample; oolitic, 400M @ 316° from quarry	1.0M	48.26	17.77	-99	-99	-99	-99
48140	652678.87	6037823.82	1M chip sample; east of 48139, wet looking, black, oolitic	1.0M	49.68	36.6	164.4	567.6	277	128.4
48141	652676.78	6037822.75	1M chip sample; west of 48139, red stained, soft	1.0M	45.75	32.85	-99	-99	-99	-99
48142	652852.01	6037595.99	1M chip sample; 0.5M oolitic, 0.5M sandy texture, nodules present	1.0M	39.95	30.45	182.2	541.3	262.7	130.8
48143	652852.81	6037596.83	1M chip sample; 715M south of quarry, east of 48142	1.0M	14.57	10.48	-99	-99	-99	-99
48144	652844	6037588	1M chip sample; 1M west of 48142	1.0M	12.32	8.63	-99	-99	-99	-99
48475	651267.75	6040195.88	Chip sample; 651268E, 6040195N, Band of Oolite.	0.3M	35.11	25.46	-99	-99	-99	-99
48476	651268.83	6040196.26	1M east of 48475	1.0M	0.51	0.64	-99	-99	-99	-99
48477	651319.89	6040070.57	0.3M wide band of Oolite.	0.3M	37.25	28.9	-99	-99	-99	-99
48478	651320.79	6040071.01	1M east of 48477	1.0M	2.39	1.98	-99	-99	-99	-99
48479	651492	6039753	Angular float; oolite present	Angular Float	34.24	24.98	-99	-99	-99	-99
48480	651644	6039470	Band of Oolite	2.0M	35.19	25.39	119.3	76	47.5	45.8
48534	652311	6038213	Very crumbly rock, dirt	Angular Float	7.9	5.39	-99	-99	-99	-99
48535	652174	6038373	Very crumbly rock, dirt	Angular Float	46.93	28.62	-99	-99	-99	-99
48536	652134	6038412	Very crumbly rock, dirt	Angular Float	48.21	36.09	182.3	752.9	359.6	173
48651	655777	6034554	Angular float grab; oolitic boulder	Angular Float	18.15	11.93	-99	-99	-99	-99
48652	655776.12	6034535.9	Chip sample	1.0M	2.88	1.95	-99	-99	-99	-99
48653	655775.14	6034535.03	Chip sample	1.0M	6.48	4.92	-99	-99	-99	-99
48654	655773.99	6034534.02	Chip sample	1.0M	0.36	0.41	-99	-99	-99	-99
48655	655775	6034532	Chip sample; 1.6M SE of 48653	0.5M	0.58	0.41	-99	-99	-99	-99
48656	655772.29	6034539.41	Chip sample; approx 50M NW of 48653.	1.0M	22.06	0.67	-99	-99	-99	-99

Sample Number	Easting	Northing	Sampler Notes	Sample Width	CaO (%)	P2O5 (%)	U (ppm)	Y (ppm)	La (ppm)	Ce (ppm)
48851	655975	6034412	Angular float; oolitic	Angular Float	32.99	24.47	84.1	97.8	69.9	52.7
48852	656720	6033622	Angular float; boulder, oolitic	1.0MX1.0M	54.11	0.01	-99	-99	-99	-99
GN-08-PH-08	652352	6038128	Lt gry f g lst , chip sampled over 1.0m; WP546	-99	-99	6.18	-99	-99	-99	-99
GN-08-PH-09	652352	6038128	Phosphatic pelletoid/oolitic rx (heavy); WP546	-99	45.82	22.62	100.1	365.8	193	106.5
GN-08-PH-10	652352	6038128	Brn gry weath dk gry f g lst, chip sampled over 1.0m; WP546	-99	-99	1.93	-99	-99	-99	-99
GN-08-PH-11	652352	6038128	Brn gry weath dk gry f g lst w/ wht bl prec, chip smp over 1.0m; WP546	-99	-99	0.4	-99	-99	-99	-99
GN-08-PH-24	650387	6041221	brn pltely str calc shale (shaley lst), 1.0m chip sample; WP563	-99	-99	0.28	-99	-99	-99	-99
GN-08-PH-25	650387	6041221	phosphate bed (c g oolitic , str calc, 1.05m chip sample; WP 563	-99	-99	24.5	134.5	519.5	244.6	116.5
GN-08-PH-26	650387	6041221	str calc shale (shaley lst), 0.82m chip sample; WP563	-99	-99	7.46	-99	-99	-99	-99

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

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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 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 Wgt	4A	
		Unit	P2O5
MDL	kg	%	
	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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 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
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 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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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	
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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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	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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Project:

Phosphate BC

Report Date:

August 11, 2008

Page:

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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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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. ** 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: 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

Report Date: December 02, 2008

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	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	
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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Project: Phosphate BC

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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

Report Date: December 02, 2008

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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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.	
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.	



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

Project:

Phosphate BC

Report Date:

December 02, 2008

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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.



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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:

1 of 2

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:

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Part 1

CERTIFICATE OF ANALYSIS

VAN08008234.1

Method	Analyte	WGHT	4A
		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



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Project:

Tumbler Ridge Phosphate

Report Date:

August 28, 2008

Page:

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Part 1

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:

November 29, 2008

Page:

1 of 2

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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Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

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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

Page: 2 of 2 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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Tumbler Ridge Phosphate

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November 29, 2008

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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
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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Project:

Tumbler Ridge Phosphate

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Page:

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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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Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge Phosphate

Report Date:

November 29, 2008

Page:

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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:

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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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	
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	
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:

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	



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Vancouver BC V6E 3T5 Canada

Project:

Tumbler Ridge

Report Date:

September 04, 2008

Page:

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Part 2

QUALITY CONTROL REPORT

VAN08008248.1

Method Analyte Unit MDL		4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
		%	%	%
		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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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

Page:

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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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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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CERTIFICATE OF ANALYSIS

VAN08008248.2

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	
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.	
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.	
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.	
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.	
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.	
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.	
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.	
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.	
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.	
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.	
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.	
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.	
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.	



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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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Part 1

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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Part 2

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		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																						
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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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	%
		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
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.	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.	N.A.
G1	Prep Blank	99.94																				



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Project:

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November 29, 2008

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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

Page:

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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
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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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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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Project:

Tumbler Ridge

Report Date:

August 29, 2008

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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																				



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Project: Tumbler Ridge

Report Date: August 29, 2008

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN08008251.1

Method	Analyte	2A LECO2A LECO	
		TOT/C	TOT/S
Unit		%	%
MDL		0.02	0.02
Reference Materials			
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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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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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

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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

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Method	Analyte	4A 2A Leco 2A Leco		
		Sum	TOT/C	TOT/S
Unit		%	%	%
MDL		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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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	
		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
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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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



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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:

October 28, 2008

Page:

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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
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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Tumbler Ridge

Report Date:

October 28, 2008

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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



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Part 2

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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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
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

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
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	
		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
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

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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
47162	Rock	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.
47164	Rock	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.
47166	Rock	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.
47168	Rock	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.
47170	Rock	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.
47172	Rock	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.
47174	Rock	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.
47177	Rock	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.
47179	Rock	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.
47181	Rock	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.
47183	Rock	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.
47185	Rock	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.
47187	Rock	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.
47189	Rock	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.
47192	Rock	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.



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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	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	

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

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
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
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.



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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
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.



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Project: Tumbler Ridge

Report Date: November 27, 2008

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CERTIFICATE OF ANALYSIS

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	
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	
			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		
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

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Part 2

CERTIFICATE OF ANALYSIS

VAN08008821.2

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
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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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
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

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
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

Page: 5 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	
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	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
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.	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.	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.	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.	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.	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.	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.	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.	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.	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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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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Report Date: November 27, 2008

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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	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

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

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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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QUALITY CONTROL REPORT

VAN08008821.2

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
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.
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.
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.
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.
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.
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.
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.
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.
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	Analyte	Unit	MDL	1DX Cd	1DX Sb	1DX Bi	1DX Ag	1DX Au	1DX Hg	1DX Tl	1DX 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
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

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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 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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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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Part 3

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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Part 4

QUALITY CONTROL REPORT

VAN08008821.2

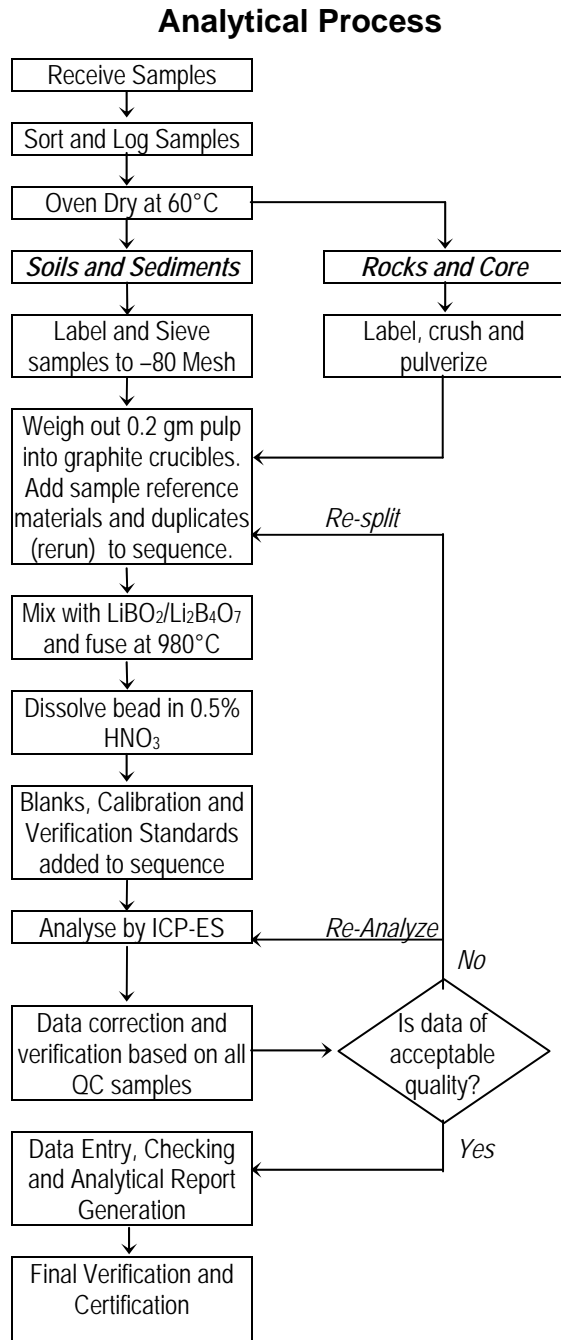
		1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
STD SO-18	Standard								
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.

APPENDIX III

ANALYTICAL PROCEDURES

ACME LABS GROUP 4A & 4B PACKAGES

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 LiBO₂/Li₂B₄O₇ flux. Crucibles are placed in an oven and heated to 980°C for 30 minutes. The cooled bead is dissolved in 5% HNO₃ (ACS grade nitric acid diluted in demineralised water). Calibration standards and reagent blanks are added to the sample sequence.

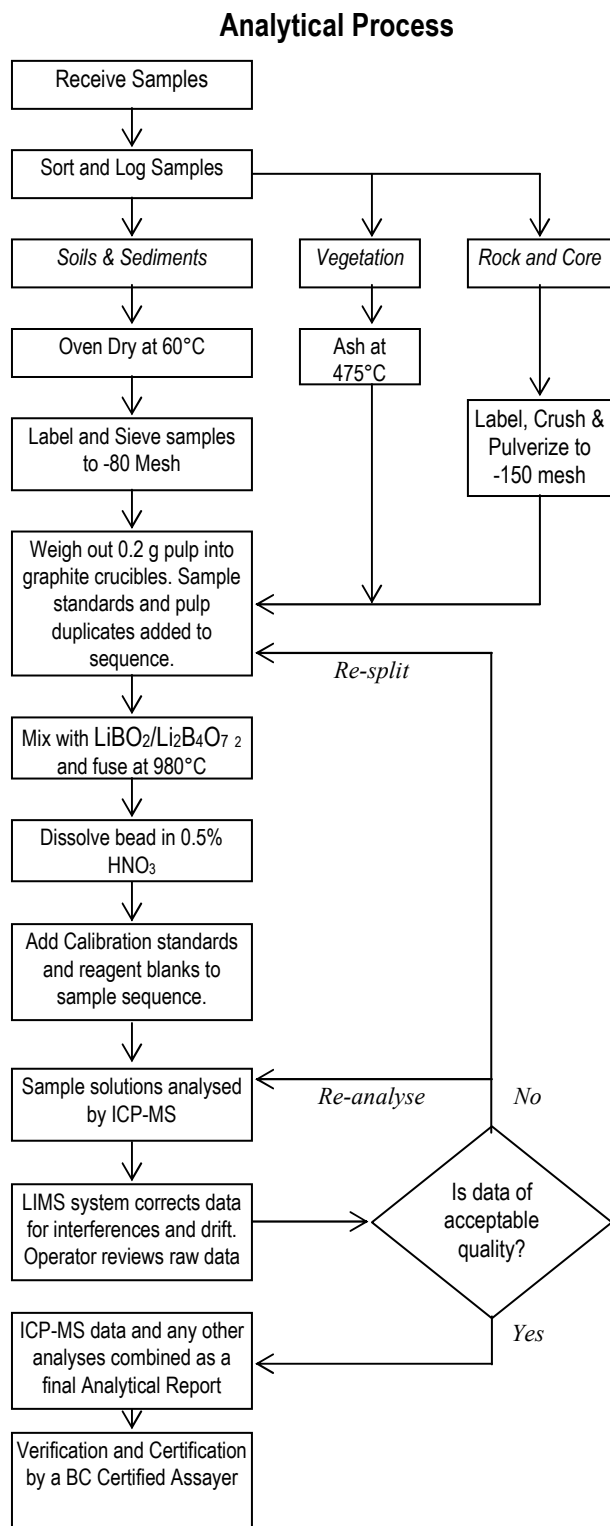
Sample Analysis

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: SiO₂, Al₂O₃, Fe₂O₃, CaO, MgO, Na₂O, K₂O, MnO, TiO₂, P₂O₅, Cr₂O₃, 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 LiBO₂/Li₂B₄O₇ 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% HNO₃ (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 IV

PACIFIC RIDGE EXPLORATION LTD.

WAPITI ZONE DETAILED EXPENSES

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
					TOTAL	\$1,207.91

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
			SUBTOTAL	\$13,487.00

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.....\$3,500.00

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.....\$6,665.00

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 days2 days @ \$685.....\$1370.00

Norman Geological (G.Norman) - Data Compilation – Supervision of Map preparation
Sept. to Nov 15/0813.0 days
Wapiti portion 1/4 of time.....13 X 1/4= 3.25 days @ \$685.....\$2226.00

Future Metals Inc. (M. Renning)

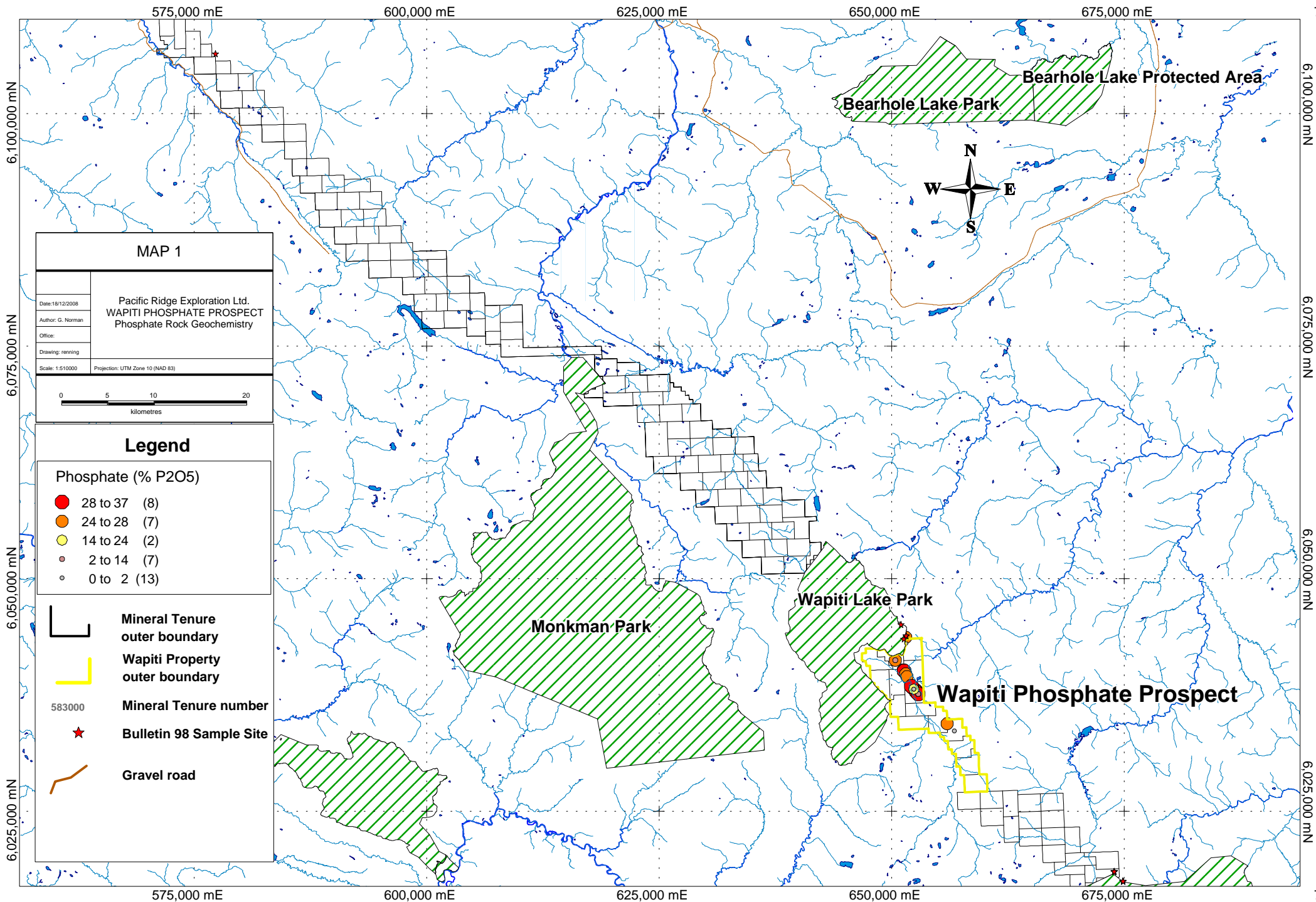
Field Days:July 2, 3, 4, 31/08 (3days)
Field Days July 9 - Aug 31/08: 11% of 48 days (5.5 days)
8.5 days @ \$500/day\$4500.00

Future Metals Employee Burden 8 man days/312 mandays X \$48,787.61.....\$1251.00

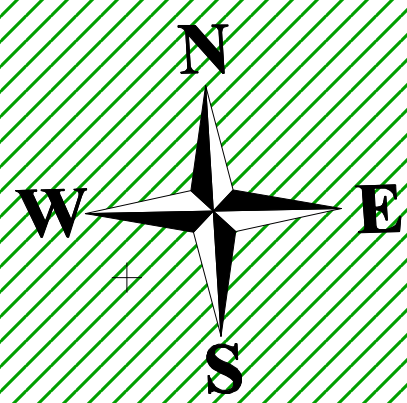
Rockex Consulting (W.J. Roberts)
Tumbler Project total July to Oct: 10 days
Wapiti portion: 2.0 days 2 days @ \$700/day.....\$1400.00

TOTAL.....\$12,302.00

GRAND TOTAL\$69,324



Wapiti Lake Park



MAP 2

Pacific Ridge Exploration Ltd.
WAPITI PHOSPAHTE PROSPECT
 COMPILATION MAP

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

Compilation of Fieldwork by
 Pacific Ridge Exploration Ltd. (2008)
 & Esso Resources Canada (1980)

0 500 1,000
 metres

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.
P 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
 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%
 48499 Sample Number (2008)

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

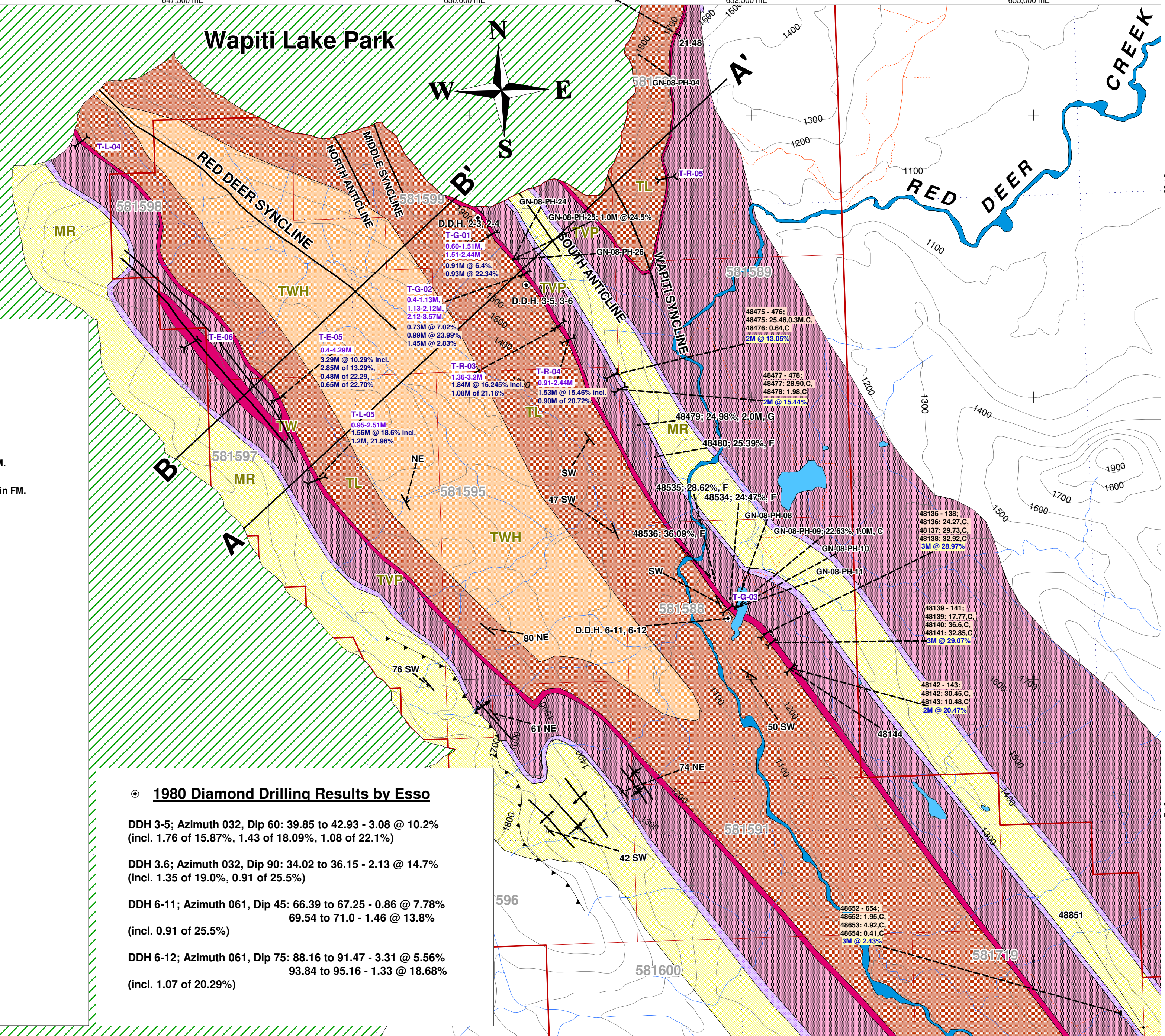
1980 Diamond Drilling Results by Esso

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%)

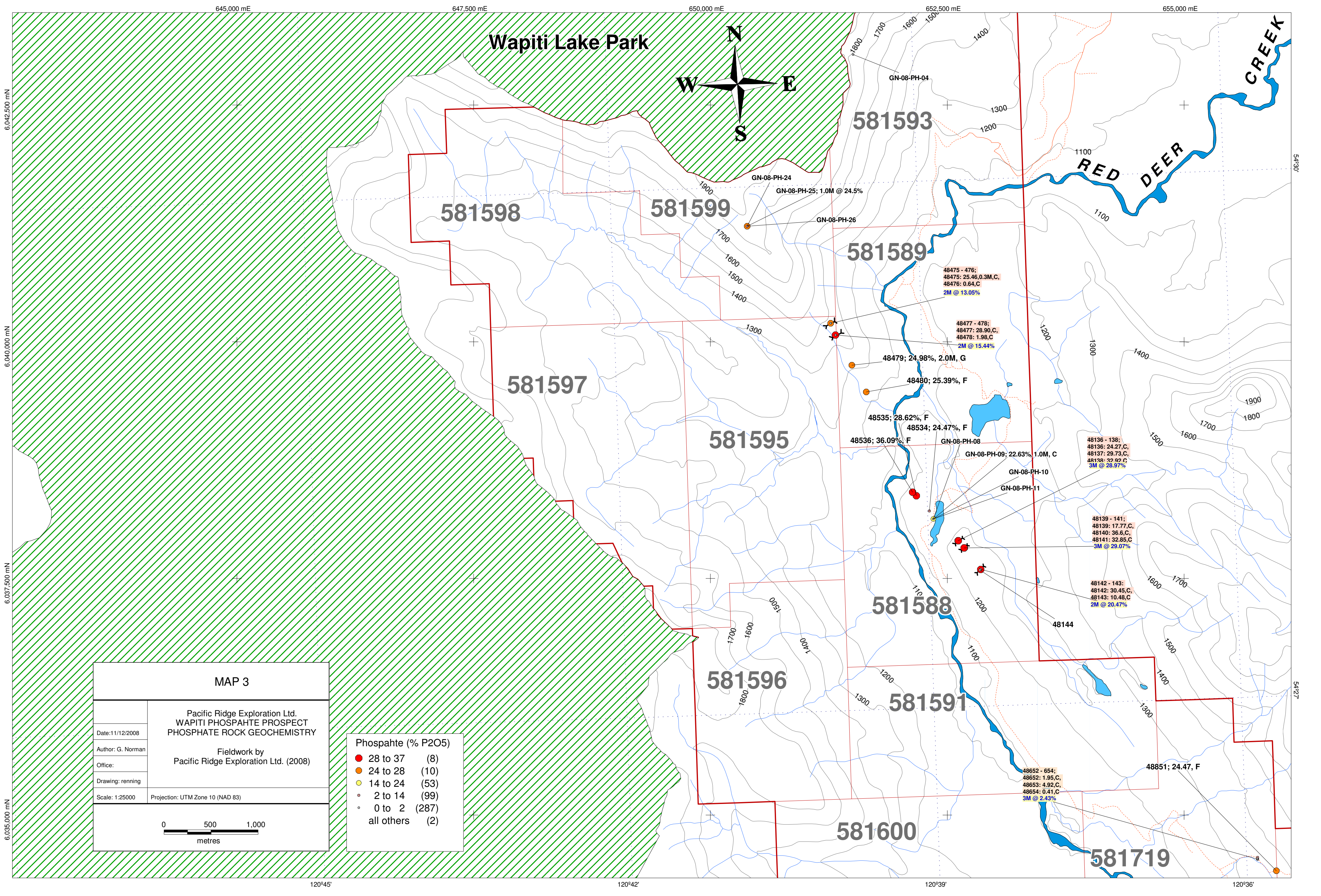
DDH 6-11; Azimuth 061, Dip 45: 66.39 to 67.25 - 0.86 @ 7.78%
 69.54 to 71.0 - 1.46 @ 13.8%
 (incl. 0.91 of 25.5%)

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%)

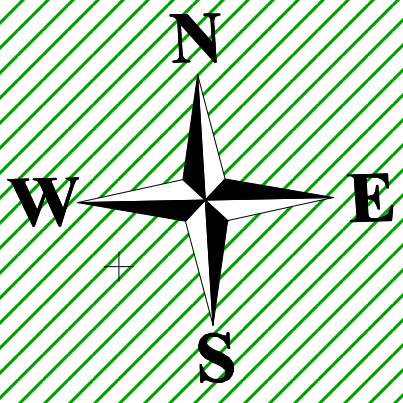


6,042,500 mN
 6,040,000 mN
 6,037,500 mN
 6,035,000 mN

54270
 54277



Wapiti Lake Park



581598

581599

581593

581589

581597

581595

581596

581588

581591

581600

581719

RED DEER CREEK

MAP 3

Pacific Ridge Exploration Ltd.
WAPITI PHOSPHAITE PROSPECT
 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

Phospahte (% P2O5)

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

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

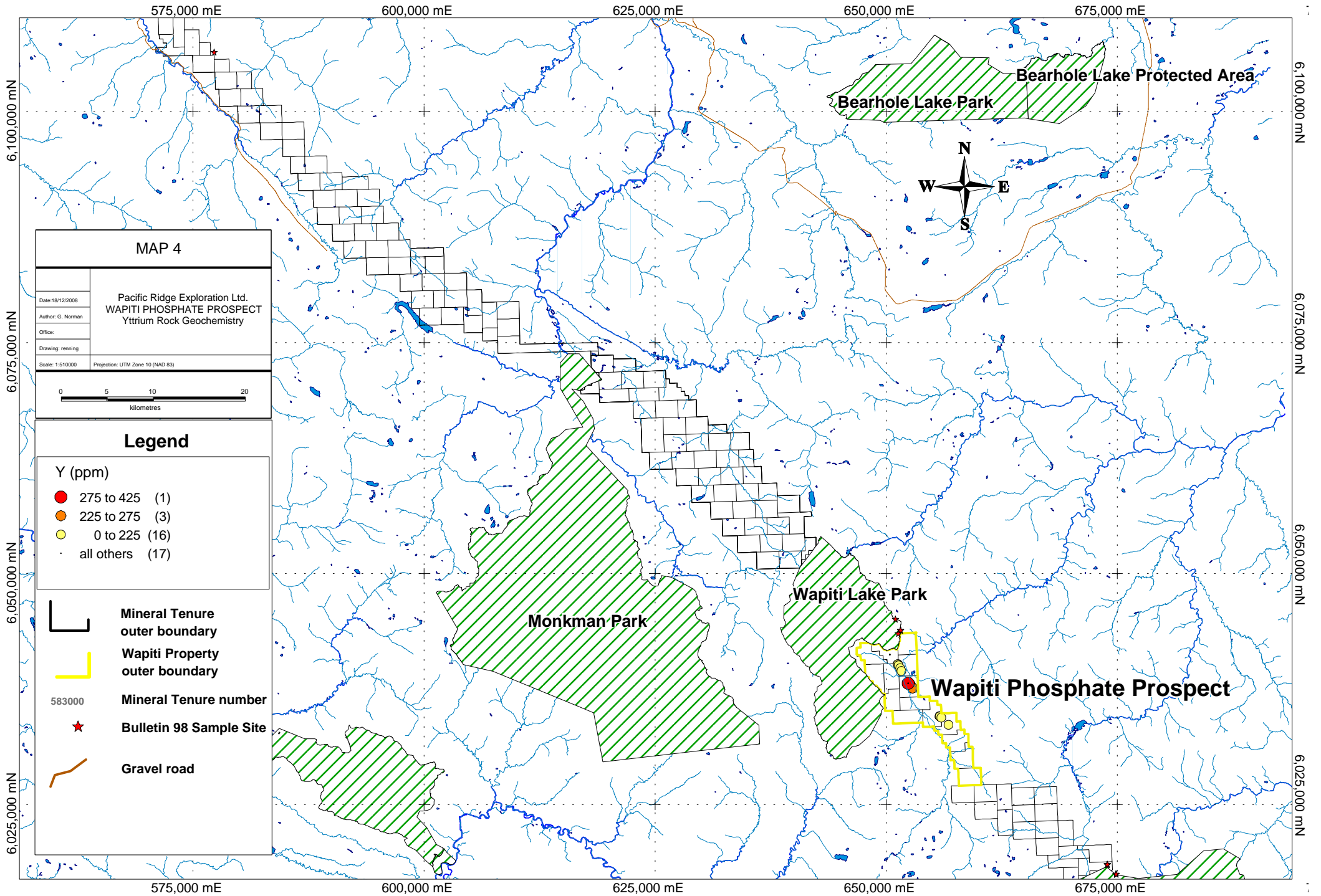
48136 - 138;
 48136: 24.27, C,
 48137: 29.73, C,
 48138: 32.92, C
 3M @ 28.97%

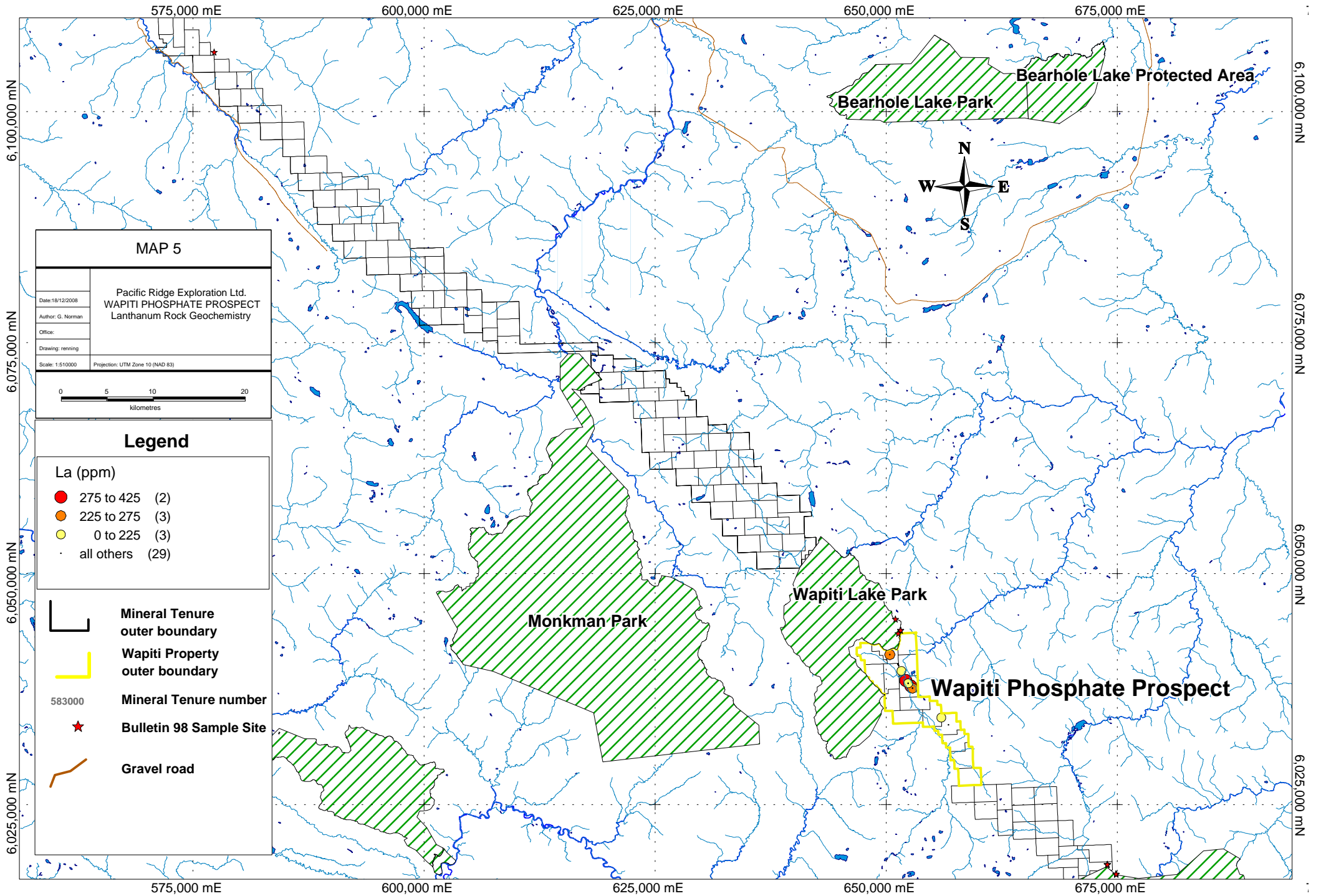
48139 - 141;
 48139: 17.77, C,
 48140: 36.6, C,
 48141: 32.85, C
 3M @ 29.07%

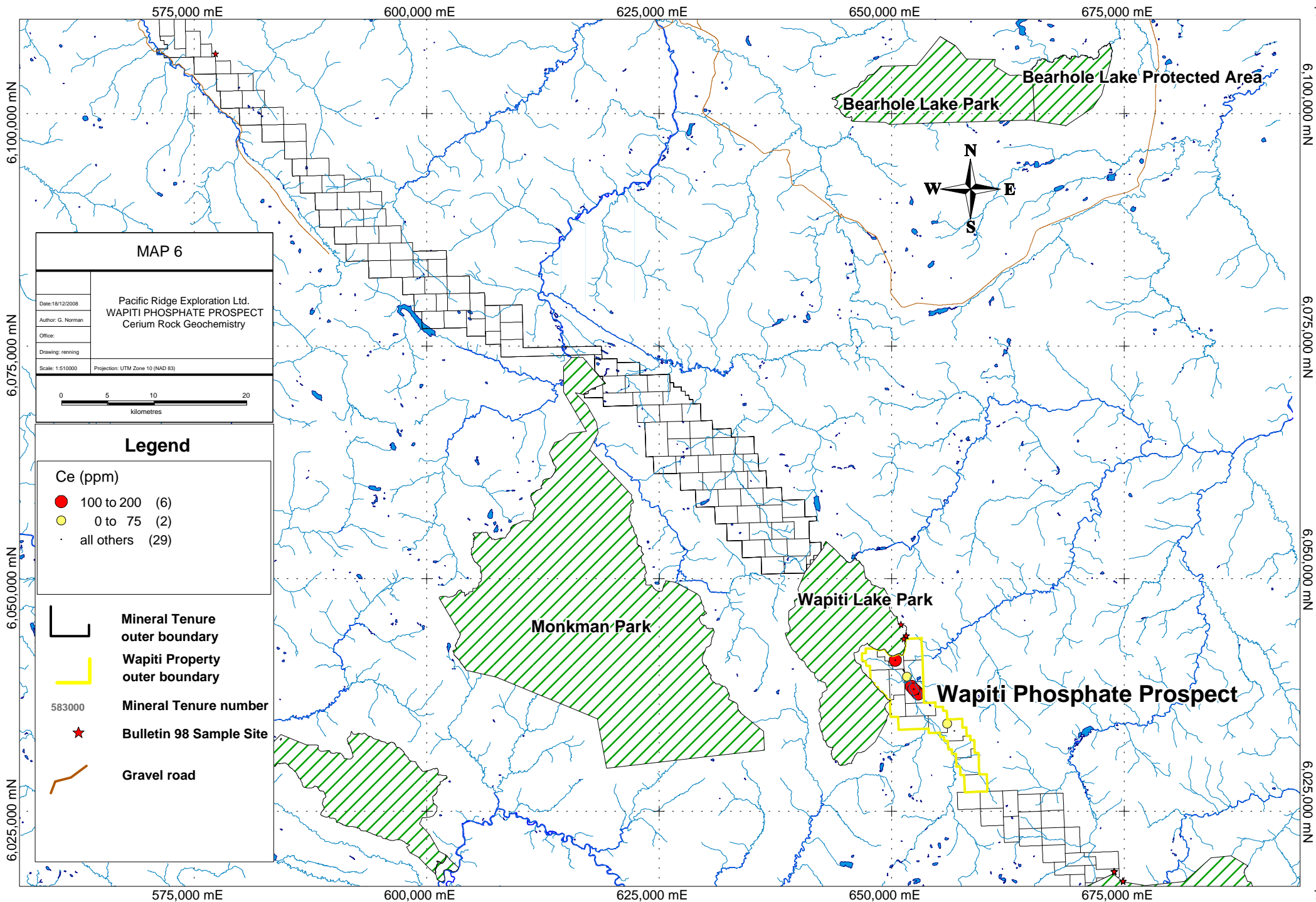
48142 - 143;
 48142: 30.45, C,
 48143: 10.48, C
 2M @ 20.47%

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

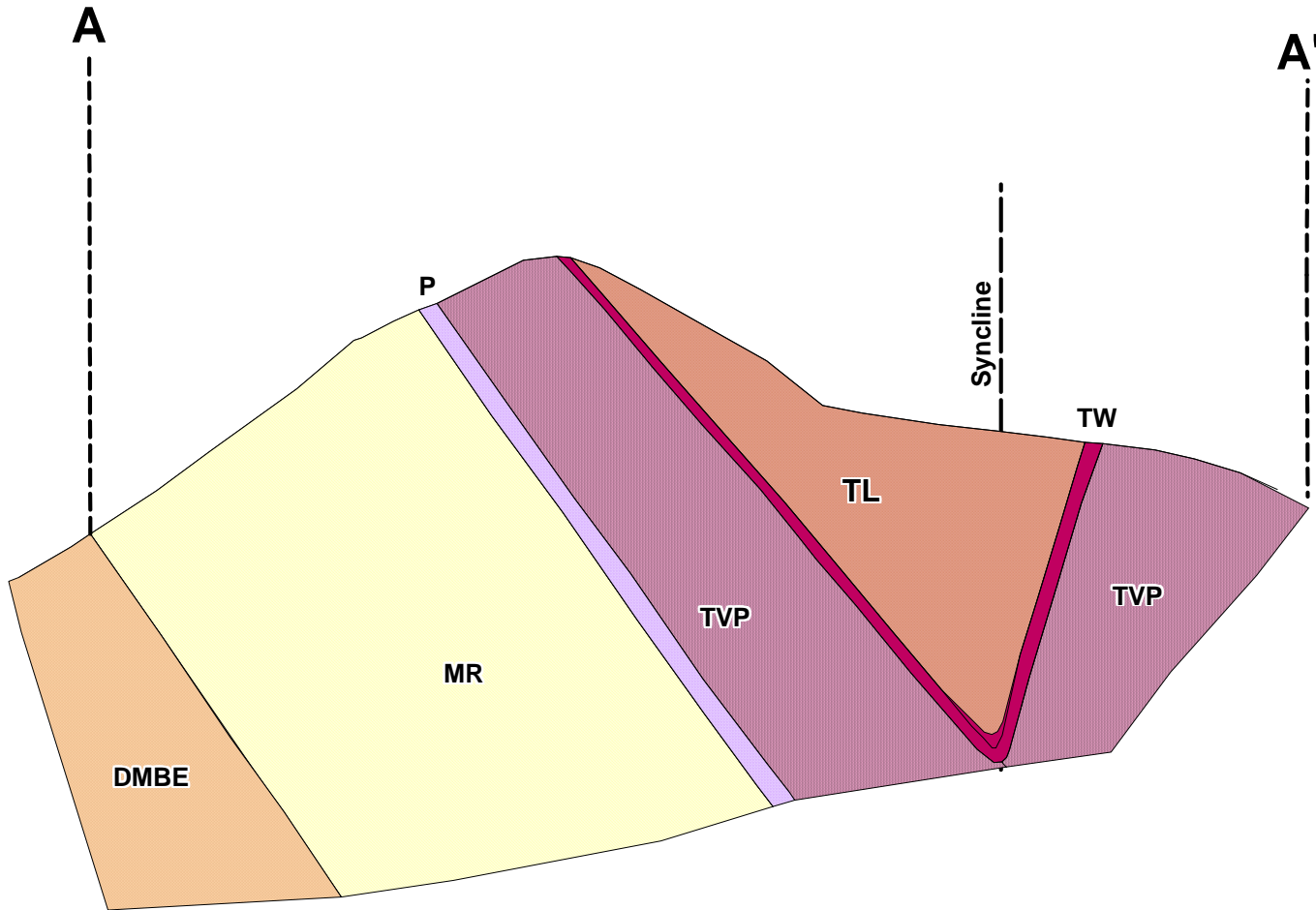
48851; 24.47, F











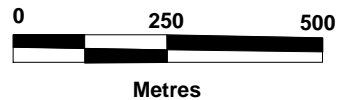


View Looking Northwest
Section TZ-08-01

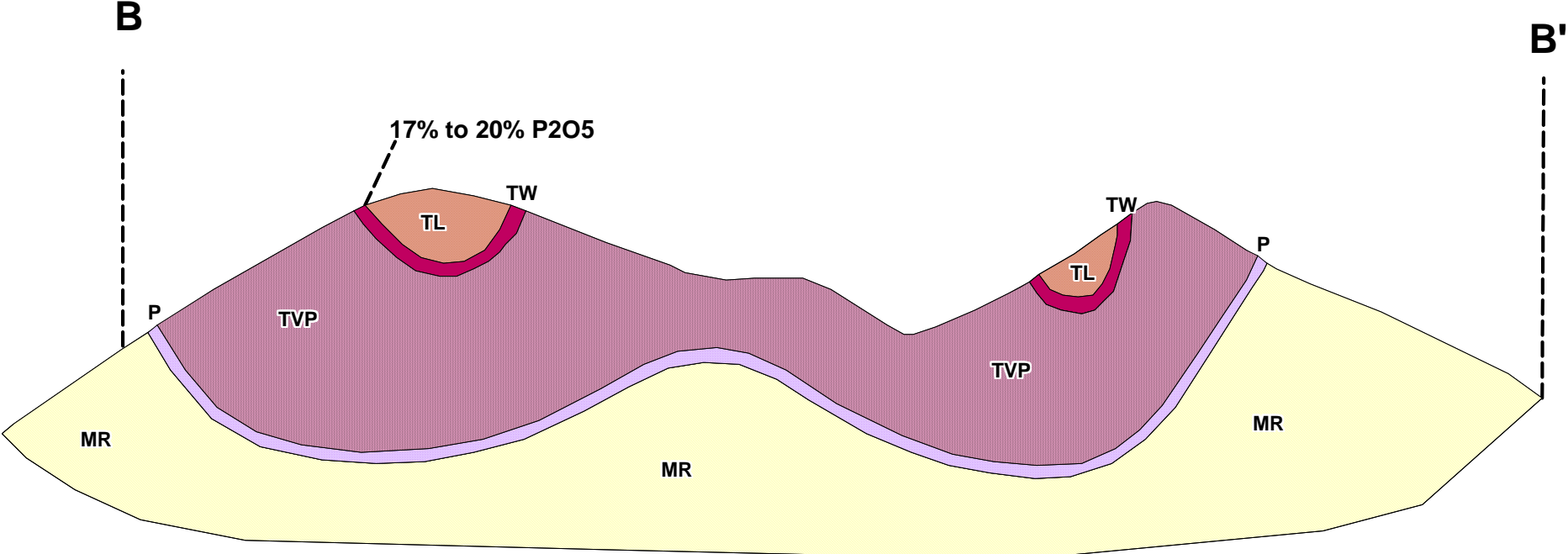








	Pacific Ridge Exploration Ltd. Section A - A' Tunnel Phosphate Prospect: Section TZ-08-01
Date: 15/12/2008	
Author: G. Norman	
Office:	
Drawing: renning	

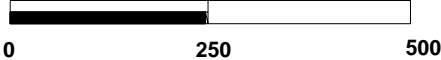
 TVP	Spray River Group - Vega-Phroso MBR. - Sulphur Mountain FM.	 TW	Spray River Group - Whistler MBR. Sulphur Mountain FM.	 MR	Rundle Group
 TL	Spray River Group - Llama MBR. - Sulphur Mountain FM.	 TWH	Spray River Group - Whitehorse FM.	 P	Stoddart Group



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