# Geological and Geochemical Report on the International (Riverside) Property

**Duncan Lake Area, BC**

**Slocan Mining Division**
**115° 22'54"W 49° 30' 15" N**



**Owner & Operator:**
Braveheart Resources Canada Inc.
2520 16th Street NW
Calgary, AB, T2M 3R2

**Work performed on Mineral Claims:**
**Craig's, Remy, Duncan 1, Duncan 2**

Author Name: Guillermo Salazar

**Statement of Work: 26 October 2010**
**Submission Date: 30 June 2012**

**ASSESSMENT REPORT TITLE PAGE AND SUMMARY**

**TITLE OF REPORT:** Geological and Geochemical Report on the International (Riverside) Property

**TOTAL COST: $22,055.76**

**AUTHOR(S):** Guillermo Salazar

**SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S ): 4804651/26 October 2010

YEAR OF WORK: 2010
**PROPERTY NAME:** International (Riverside)
CLAIM NAME(S) (on which work was done): Craig's, Remy, Duncan 1, Duncan 2

**COMMODITIES SOUGHT:** Pb, Zn, Ag, Au, W

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 082KNE 058

MINING DIVISION: FORT STEELE
NTS / BCGS: 82K/10W
**LATITUDE:** 50° 31' 58" N
**LONGITUDE:** 116° 56' 43" W
**UTM Zone:** 11 EASTING: 504,250 NORTHING: 5,597,100

**OWNER(S):** Braveheart Resources Canada Inc.

**MAILING ADDRESS:** 2520 16th Street NW, Calgary AB, T2M 3R2

**OPERATOR(S)** [who paid for the work]: Braveheart Resources Canada Inc.

**MAILING ADDRESS:** 2520 16th Street NW, Calgary AB, T2M 3R2

**REPORT KEYWORDS:** Horsethief Group clasitcs, Proterzoic, silicified veins with galena, veins are shallow dipping to the east

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:**
30329

## Statement of Costs

| | Position | Rate | Hours | Total |
|---|---|---|---|---|
| **Personnel** | Salazar, site visit | $80/hr | 32 | $2,560.00 |
| | Salazar, reporting | $80/hr | 46.75 | $3,740.00 |
| | Crew | $20/hr | 100 | $2,000.00 |
| | Ian Stewart, 3-7 September | | 50 | |
| | Bob Denny, 4-7 September | | 40 | |
| | Doug Murray, 4-7 September | | 40 | |
| | | | | |
| | Foreman, David A. Johnston, Sept. | $25/hr | 150 | $3,750.00 |
| **Supplies** | Accommodations | $86.73/day | 22 days | $1,909.00 |
| | Meals | $30/day | 28 days | $840.00 |
| | Vehicle | | | $2,294.45 |
| | Supplies, rentals | | | $2,375.89 |
| **Lab** | 311 soils, 5 stream seds, 6 rocks | | | $5,677.15 |
| **Administration** | | | | $2,294.45 |
| **Total Program** | | | | $26,423.09 |

| | |
|---|---|
| **Total Work Filling** | **$22,055.76** |

# Item 2 Table of Contents

# Item 3 Summary

The Riverside Property is located 160km north of Nelson B.C. on the eastern shore of Duncan Lake. It is centered at Lat 50° 31' 58" N - Long 116° 56' 43" W, Lardeau Map Sheet E 1/2, (See Figure 1). The Duncan Lake area, located in the southern part of the Lardeau District, south east British Columbia, is a few kilometres north of the north end of Kootenay Lake.

Access is by commercial aircraft to Cranbrook, B.C., or Castlegar, B.C., then by car or truck following paved Highway 31 through Nelson, B.C., for a distance of 160km to Duncan Lake and by forestry road from the paved highway for a distance of 45km east of the highway along the Argenta Road.

The property consists of nine Crown Granted Mineral Claims (123.08 hectares) and eight 'cell claims' for a total of 3,883.105 hectares, as shown on Figure 3 and Table 1. Mr. David W. Johnston, President and CEO of Braveheart Resources Canada Inc. acquired the Crown Grants and cell claims in 2006.

The geological database for the area is regional in scale with no detailed government mapping available for the immediate area.

The Riverside Property is located on regional disconformities between the Precambrian Windermere Group and the younger Paleozoic rocks of the lower Cambrian Hamil Formation, as mapped by the Geological Survey of Canada. The project location is just north of the apex of regional deformation known as the Kootenay Arc, which is an important control structure for southeast British Columbia and northern Washington State.

Deformational weaknesses which resulted in the Rocky Mountain orogeny, was followed by large scale batholithic intrusions of the Kuskanax-Nelson intrusive complex of the late Cretaceous.

Monzonites to diorites and porphyries of this period, account as the mineralizing events. In this setting, all rocks older than upper Mesozoic can be considered as potential host to mineralization in fault-prepared ground. The disconformity at the Riverside property defined one such area.

Recent work by S. Paradis (2007, 2009) compares some of the Kootenay Arc Zn-Pb deposits to the Carbonate-hosted Zn-Pb Irish deposits of the Limerick Basin in Ireland. Paradis concludes that "the origin of these deposits is enigmatic".

According to Paradis (2007), the Duncan Camp consists of several complexly deformed and faulted sulphide bodies which occur in a thick section of dolomite or silicified carbonate rocks of the Badshot Formation.

The Riverside deposit is a possible sulphide bearing siliceous, carbonaceous sill. The surrounding country rock is a dark green chloritic schist.

According to Snell (2007) “the Riverside deposit was surveyed by Dawson, BCLS, in 1933. It was reported by W. Cummings, P. Eng, that the surface trace of mineralization has been located for 1,500m (5000ft) and that the mineralization consists of pyrite, sphalerite and galena. J.B. Platts (1942), geologist for Kaslo Mining Corporation, describes 2 to 3 feet of direct shipping silver-lead ore assaying 44.2% lead and 12.2oz/ton silver. The 'vein' is described as being seven feet wide with four to five feet of low grade ore coinciding in strike and dip within the enclosing schists.

In 2009, Braveheart commissioned Paul A. Hawkins & Associates ("Hawkins") to do a preliminary evaluation of the properties, underground workings and showings and to design a preliminary development program. Hawkins' work included taking six rock chip samples from old trenches (only one was assayed) and collecting 453 soil samples over the area between the Crown Grants and the Forestry Road but only 135 were analyzed due to funding constraints. Hawkins reported that "Recent grab samples collected in 2008 returned an average of 54.35% lead and 19.80 opt silver confirm the previous high grade Pb-Ag mineralization present on the property" and that the "soil sampling detected with high background levels of Au, Pb, Zn, W, As, Mn, and Fe".

The rock samples collected by Braveheart confirm the historical assays reported in these reports. Figure 9 shows the original Crown Grants and the trace of the mineralized horizon as published by Snell and Hawkins. It also shows the locations of the rock and soil samples taken by Hawkins, assayed and reported for the first time in this report.

The geochemical analysis performed on soil samples shows a broad zone of anomalous elements such as Pb, Zn, Cu, Mn, and Ba with linear trend N50W. The mineralized outcrops and surface adits also have this linear trend.

# Item 4 Introduction & Terms of Reference

This Form 43-101F1 Exploration Report is prepared at the request of Mr. David W. Johnston, President and CEO of Braveheart Resources Canada Inc ("Braveheart") with offices at 2520 - 16th Street NW, Calgary, Alberta.

The Terms of Reference for this report are defined in a contract between Braveheart and G. Salazar S. Associates Ltd. ("Salazar") dated August 5th, 2010 in which the parties agreed to have Guillermo Salazar, P. Eng, P. Geol. and President of G. Salazar S. & Associates Ltd. review and, if deemed appropriate, design an exploration and development program for the mineral properties owned by Braveheart known as the Riverside Claims. Mr. Salazar travelled to the property on August 5th to August 8th, 2010 with Mr. and Mrs. David and Davey Johnston, with ample time to review the work done by Braveheart since they acquired the property.

After visiting the property, Salazar requested the completion of assaying of five rock samples in storage in Nelson and 313 soil samples in storage at Loring Labs in Calgary. These results are incorporated into this report.

# Item 5 Reliance on Other Experts & Disclaimer

The author has relied on technical data and information as noted in the References as well as personal experience. It is the writer's opinion that all technical data utilized in this report was written by qualified persons.

Please refer to Item 21 - References for a list of the qualified persons and References.

This report has been prepared by the author using publically available information as well as unpublished technical information provided by Braveheart. Reasonable care has been taken in the preparation of the report but the writer cannot guarantee the accuracy of all historical documentation.

# Item 6 Property Description

The Braveheart Property consists of nine Crown Granted Mineral Claims (123.08 hectares) and eight 'cell claims' for a total of 3,883.105 hectares, as shown on Figure 3 and Table 1. Braveheart optioned the Crown Grants from Sakua Developments Ltd. by making a series of cash payments and completing $150,000 of exploration and development work by October 8, 2008. This contract was amended by letter agreement dated January 26, 2009. The Legal Counsel for Braveheart (see Appendix) advises the writer that the contract is in good standing. There is no area of common interest beyond the Crown Grant boundaries. David W. Johnston holds the cell claims in Trust for Braveheart.

The Crown Grants, which date back to the 1930's and were staked just before they were granted, have not been relocated with current technology. Their boundaries and title are well established by reference to known underground workings. A legal survey to re-establish these boundaries on the ground is recommended. The Crown Granted Mineral Claims are fee simple requiring only modest yearly tax payments and no assessment work. The cell claims were staked under the terms of the Mineral Tenure Act (RSBC 1996 - Chapter 292) as amended in the Mineral Tenure Amendment Act 2004 and Mineral Tenure Act Regulations (B.C. Reg. 529/2004, including amendments up to B.C. Reg. 187/2005). The regulations require that the record holder of a mineral claim shall perform or have performed, exploration and development work (assessment work) on the claims to a per hectare value of $4.00 on each of the first three years and $8.00 in the fourth and subsequent years. These assessment work requirements are calculated from the date of issue of the tenure. Recording fees of $0.40 per hectare per annum are also required to file assessment work. Cash-in-lieu of work may also be paid on a monthly basis. All of the cell claims covered by this report will require assessment work of $8.00 per hectare per annum.

The Mineral Tenure Act Regulation also states that a tenure holder that wishes to do physical work on his tenures or the operator of such a program shall first submit a Notice of Work and Reclamation as prescribed under the Mines Act and has received the required Permit to do the work. If, in the opinion of the Claims Inspector, the proposed work will cause disturbance, a Reclamation Bond may be required to be posted before starting the work. The amount of the Bond is determined by the Claims Inspector after assessing the estimated reclamation costs of the areas to be disturbed taking into consideration the sensitivity of the area to physical disturbance and exposure of the work to other stakeholders and interested parties.

Where exploration work is conducted in an environmentally reasonable way, bonding requirements are reasonable. Continued concurrent reclamation is strongly recommended.

**Table 1 Mineral Claims & Crown Grants owned by Braveheart Resources Canada Inc. as of Nov. 1, 2010**

**Mineral Claims**

| Record Number | Staking Date | Area Hectares | Expiry Date | Work Required in 2011 |
|---|---|---|---|---|
| 536272 | 2006-Jun-26 | 513.761 | 2011-Nov-01 | $4,110.09 |
| 536281 | 2006-Jun-26 | 513.761 | 2011-Nov-01 | $4,109.98 |
| 536286 | 2006-Jun-26 | 513.761 | 2011-Nov-01 | $4,109.36 |
| 536707 | 2006-Jul-07 | 513.567 | 2011-Nov-01 | $4,108.54 |
| 536713 | 2006-Jul-07 | 513.338 | 2011-Nov-01 | $4,106.70 |
| 559903 | 2007-Jun-05 | 513.474 | 2011-Oct-05 | $4,107.79 |
| 559966 | 2007-Jun 06 | 390.249 | 2011-Oct-06 | $3,121.99 |
| 572148 | 2007-Dec-18 | 411.194 | 2011-Dec-18 | $3,289.85 |
| | | | | **$31,064.30** |
| | **TOTAL** | 3,883.105 | | |

**Crown Grants**

| Crown Grant Name | Lot # | Area hectares | Area acres |
|---|---|---|---|
| Forgotten | L14941 | 20.8 | 50.4 |
| Jiant (Giant) | L14358 | 15.69 | 38.56 |
| Howser | L14259 | 12.38 | 30.24 |
| Portland | L14940 | 12.2 | 30.15 |
| Chisolm | L14360 | 9.38 | 23.18 |
| Southern | L14361 | 15.83 | 39.13 |
| Brennan | L14363 | 12.85 | 31.77 |
| Poole | L14362 | 18.13 | 44.8 |
| Cabin Fr. | L14942 | 5.82 | 14.38 |
| | **TOTAL** | 123.08 | 302.61 |

(2009) describes the procedure to be followed to bring a project into production in British Columbia. It still applies at the time this report was written:

*"Before the property can be put into production, the owner needs to convert its title to a Mining Lease. The conversion process starts by conducting a Legal Survey over the lands and having the survey registered by the Surveyor General. The holder must also provide various public notices and pay an application fee of $100 and an annual rental fee of $10 per hectare in advance. A lessee may not produce under a mining lease unless the lessee first receives a mine development under the mine Development Assessment Act or a project approval certificate issued under the Environmental Assessment Act."*

*"A one-time bulk sample may be extracted from a mine if the recorded holder meets the following conditions:"*

- *"A program of reclamation has been submitted as prescribed under the Mines Act."*
- *"A permit to extract a one-time bulk sample has been issued by the Chief Inspector of Mines according to the Mines Act."*
- *"Not more than a single one-time bulk sample is to be extracted from each mine within a five year period."*

As well, Hawkins points out the following:

- *"The project area is 20 km north of the Purcell Wilderness Conservancy Park. The Provincial Park is designated a road-less tract where all forms of mechanized access, including helicopters, are prohibited". Active logging and road building in the area indicates that these activities are allowed within the claims.*
- *"The Jumbo Glacier Ski Resort is located 25 km to the SE."*
- *"The Glacier/Howser Hydroelectric Project located 3km to the south of the Crown Grants may affect the development of the claims in this area. One of the powerhouses for the Howser Creek segment is proposed for the shore of Duncan Lake at Gravelside Creek. The Howser Creek segment would generate 50-65 MW of run-of-river hydroelectric power."*

These developments may be of great benefit to Braveheart and may help develop any resources that could be found in the area.

# Item 7 Location, Accessibility, Climate, Local Resources

**Location**

The Duncan Lake area, located in the southern part of the Lardeau District, south east British Columbia, is a few kilometres north of the north end of Kootenay Lake and 160km north of Nelson, B.C. It straddles the Purcell trench, a topographic depression that trends northerly for about 320 kilometres, is between the Purcell Mountains to the east and the Selkirk Mountains to the west and includes the southerly flowing Duncan River, which drains into Kootenay Lake. To the east, the Purcell Mountains rise steeply from the trench and are deeply incised by several creeks, the largest being Glacier and Hamill Creeks.

The Duncan Lake Area is within the Kootenay Arc, a curving belt of highly deformed sedimentary, volcanic and metamorphic rocks extending southeast from Revelstoke, south along Kootenay Lake and southeast across the U.S. Border (See Figure 1). The Kootenay Arc is of economic importance in British Columbia because of the produced quantities of silver, lead, zinc, copper and gold from mines that occur within it.

**Accessibility**

Access to the property is by commercial aircraft to Cranbrook, B.C., or Castlegar, B.C., then by car or truck following paved Highway 31 through Nelson, B. C., for a distance of 160km to Duncan Lake and by forestry road from the paved highway for a distance of 45km east of the highway along the Argenta Road. Highway 31 links the property to Revelstoke and 401 to the north and Nelson and Highway 3 to the south. Both highways connect the area to Vancouver, the rest of Canada and the United States.

**Climate**

The summers are long and warm. The winters are moderate. A considerable snow pack accumulates during the winter months. Snow slides are common in the area during spring break up. The length of the snow-free operating period for exploration purposes is approximately seven months.

**Local Resources & Infrastructure**

The main supply centre for the region is the town of Nelson, located 160km to the south. Smelter facilities are located in Trail, B.C., 240km to the southwest. The property is connected to Trail and Nelson with good paved highways and transporting "direct shipping ore" to the Trail Smelter from the property can be done without difficulty.

Trout Lake mine, located south of Revelstoke is an operating high grade molybdenum mine with a camp of about 500 people. A power grid at Duncan Lake Dam is adjacent to the property. Duncan Lake is a storage reservoir deepened by B.C. Hydro in 1967 as part of the stabilizing of water supply efforts into the Columbia River System agreements between the U.S.A. and Canada.

The logging road from Duncan Lake through the claims has been bladed with a D-7 tractor by Meadow Cedar Creek Ltd. It provides better and safer access with All Terrain Vehicles, Four Wheel drive pickups, and logging equipment. Braveheart has an agreement to use the logging road maintained by Meadow Creek Cedar Ltd.

In 1989, the road to the Forgotten or Havelock #1 Adit was open for use with a 4x4 truck. It is now overgrown but should not be too difficult to clear once the crossing of Pat Creek is refurbished.

Title held under the Crown Grants also gives timber rights to Braveheart. The commercial timber is more than 300ft tall and +0.50m diameter at the base. Pine, tamarack, spruce, and cedar are typically present.

**Physiography**

The topography in southeast British Columbia is mountainous with valleys trending northerly. The elevation of the property is 1,600m; 500m above the Duncan Lake valley to the west. Vegetation varies with elevation, with commercial timber at lower elevations and alpine meadows higher.

# Item 8 History

Lardeau district was first prospected in 1865. In 1890, a smelter was built in Revelstoke to treat ore from Kootenay Lake mining camps. Transportation costs in and out of south eastern British Columbia has been an important factor affecting the development of mining properties in the Duncan Lake area. The area was first accessible only by boat, then the Canadian Pacific Railway and steamship operated system started in 1902. The railway was converted to a motor road in 1942. In 1953 a mining access road from Kaslo to Lardeau and from Gerrard to Trout Lake was constructed by the B.C. Department of Mines.

By 1889, ten locations had been settled. Seventy-one mineral claims were recorded in the Lardeau District and interest in the gold occurrences in the Duncan River drainage system.

The history of the Riverside property was summarized by Snell (2007) and is updated as follows:

| Year | Development |
|---|---|
| 1918 | Blue Lake Consolidated Mining drove a crosscut and was in 20 m (65 ft). There were old workings including a few open cuts and a 7.6 m (23 ft) drift. |
| 1924 | John Noihl was active on property. |
| 1926 | Porcupine Goldfields Development and Finance Company inspected the property. A sample from the face & across 0.9 m on the east face assayed 384 gpt (13.54 opt) silver |
| 1927 | Two short declines were driven, some stripping and open cuts completed. |
| 1928 | Omo Mines Corporation acquired a large number of claims in the area covering the south extension of the vein. Work continued to 1930. |
| 1942 | Kaslo Mines Corporation drove 142 m (465 ft) of tunnel and 30 m (100 m) of drift. The company issued a prospectus regarding a share offering. |
| 1972 | Kaslo Mines Limited constructed a road and reopened old workings. |
| 1978 | The property became owned by W. and D. Fulko of New Denver, B.C. An access road was built to the property up Gravelside Creek, for 3.3 km. J.C. Snell , P.Eng completed a geology report after field work. In 1998, Snell completed an evaluation report and concluded that "metal prices at that time were too low and that an increase in metal prices would be required in order to attract exploration and development capital" (Snell, 2007). |
| 1999-2006 | Sakua Development Ltd. acquired the Crown Grants from Fulko. |
| 2006-2009 | David W. Johnston acquired the Crown Grants and other Mineral Claims, registered them with Braveheart Resources Canada Inc. Braveheart intends to list the Company in the Toronto Stock Exchange Venture as soon as possible. In 2009, Braveheart commissioned Paul A. Hawkins & Associates ("Hawkins") to do a preliminary evaluation of the properties, underground workings and showings and to design a preliminary development program. Hawkins' work included taking six rock chip samples from old trenches (only one was assayed) and collecting 453 soil samples over the area between the Crown Grants and the Forestry Road but only 135 were analysed due to funding constraints. Hawkins reported that "Recent grab samples collected in 2008 returned an average of 54.35% lead and 19.80 opt silver confirm the previous high grade Pb-Ag mineralization present on the property" and that the "soil sampling detected with high background levels of Au, Pb, Zn, W, As, Mn and Fe". |
| 2010 | Braveheart engaged G. Salazar S. & Associates Ltd. to update the work done to date. Five rock samples and 313 soil samples that were in storage from the work carried out by Hawkins were assayed at Loring Labs in Calgary and the properties were visited.<br>As well, Braveheart started negotiations with the builders of the Howser - Glacier Hydroelectric Plant Project, located 3 km to the south of Braveheart's crown grants but within the area of the claim . One of the powerhouses for this project is proposed for the shores of Duncan Lake at Gravelside Creek and is slated to have a capacity of 50-65 MW of run-of-river - or green-power. |

# Item 9 Geological Setting

The geological database for the area is regional in scale with no detailed government mapping available for the immediate area. There has been no historical mineral reserve or resource estimates in the property and there has been no production from the property.

The Riverside Property is located on a regional disconformity between the Precambrian Windermere Group and the younger Paleozoic rocks of the lower Cambrian Hamil Formation, as mapped by the Geological Survey of Canada. The project location is just north of the apex of regional deformation known as the Kootenay Arc, which is an important control structure for southeast British Columbia and northern Washington State. Lineament orientation at its apex is northwest and southeast. Deformational weaknesses which resulted in the Rocky Mountain orogeny, was followed by large scale batholithic intrusions of the Kuskanax-Nelson intrusive complex of the late Cretaceous. The monzonites to diorites and porphyries of this period are the mineralizing events. In this setting, all rocks older than upper Mesozoic can be considered as potential host to mineralization in fault-prepared ground. The disconformity at the Riverside property defines one such area.

# Item 10 Deposit Type

Recent work by S. Paradis (2007, 2009) compares some of the Kootenay Arc Zn-Pb deposits to the Carbonate-hosted Zn-Pb Irish deposits of the Limerick Basin being explored and developed by Xtrata-Minco, one of the Hunter-Dickenson Group of Companies and other Canadian juniors. Paradis concludes that "the origin of these deposits is enigmatic". Fyles and Hewlett (1959) interpreted the deposits as replacement zones. Sangster (1970) and Addie (1970) said they were syngenetic. Muraro (1962) suggested that they were formed by pre-metamorphic, pre-tectonic hydrothermal replacement of the host rock controlled by stratigraphy. Hoy (1982) suggested a syngenetic-diagenetic origin in vogue at that time.

It is the writer's opinion that, regardless of origin, a high grade Zinc-Lead-(Silver) deposit, close to surface and amenable to low cost mining will benefit from its proximity to the Trail smelter.

Figures 5, 6, and 7 show the Regional Tectonic Map and Pb-Zn districts, the Stratigraphic Section of the Lower Paleozoic and the Lead-Zinc Past Producers and districts of southeast B.C. taken from recent work by Paradis. Figure 7 shows the size, location and grades of the known deposits and past producers in the area. Included is the Riverside Claims as part of the Duncan Lake district. Paradis concludes that these deposits are similar to those in the Limerick district of Ireland.

# Item 11 Mineralization

According to Paradis (2007), the Duncan Camp consists of several complexly deformed and faulted sulphide bodies which occur in a thick section of dolomite or silicified carbonate rocks of the Badshot Formation. About twenty mineralized zones occur on the hinge of a phase two fold, which is on the east limb of the phase one Duncan Anticline. None of the deposits have been mined but one of them is reported to have reserves of 9Mt grading 2.7%Pb and 2.9% Zn (Muraro, 1962).

The Riverside deposit is a possible sulphide bearing siliceous, carbonaceous sill. The surrounding country rock is a dark green chloritic schist. According to Snell (May 2007, p 27) "the Riverside deposit was surveyed by Dawson, BCLS, in 1933, and is exposed along a true strike length of more than 1,200 m (4,000 ft). It was reported by W. Cummings, P. Eng, that the surface trace of mineralization has been located for 1,500 m (5000ft) and that the mineralization consists of pyrite, sphalerite and galena. J.B. Platts (1942), geologist for Kaslo Mining Corporation, describes 2 to 3 feet of direct shipping silver-lead ore assaying 44.2% lead and 12.2 oz/ton silver. The 'vein' is described as being seven feet wide with four to five feet of low grade ore coinciding in strike and dip within the enclosing schists.

H.C. Gunning reports in G.S.C. Memoir 161 (1929) that the bedded quartz vein occurs in black carbonaceous schists and rotten mica schists. A bed of conglomerate lies above the black schist and forms the hanging wall of the vein which conforms to the bedding plane of the country rock. The quartz filling is milky white and is well bonded.

The rock samples collected by Braveheart confirm the historical assays reported in these reports. Figure 9 shows the original Crown Grants and the trace of the mineralized horizon as published by Snell and Hawkins. It also shows the locations of the rock and soil samples taken by Hawkins, assayed and reported for the first time in this report.

# Item 12 Exploration

Braveheart has conducted a limited program in 2007 consisting of prospecting, rock and soil sampling. This work is documented in the 2007 Assessment Report (Hawkins, 2007).

In 2009, Braveheart commissioned Paul A. Hawkins & Associates ("Hawkins") to do a preliminary evaluation of the properties, underground workings and showings and to design a preliminary development program.

In 2010, Braveheart signed an agreement with G. Salazar S. & Associates Ltd. to review and, if deemed appropriate, design an exploration and development program for the mineral properties owned by Braveheart.

# Item 13 Drilling

No drilling has been done on the property.

# Item 14 Sampling

The soil samples were collected by Braveheart in programs commissioned by the Company to Paul A. Hawkins and Associates Ltd. of Calgary ("Hawkins"). The soils samples remained in storage at the laboratory until recently, after the company secured enough funds to complete the assaying. The rock samples were taken by Davey Johnston and Allan Chan, were located in Hawkins' Exploration report dated December 16th, 2009 but remained in storage at Braveheart's facilities in Nelson until taken to Loring Labs by David W. Johnston after Salazar's trip to the property. Salazar found three of the five samples sealed with tape and secured but had to close the other two samples before bringing them back to Calgary.

## 14.1 Method & Approach

The exploration report by Paul A. Hawkins & Associates Ltd. (2009) reported that a crew of six people conducted a soil sampling program on Braveheart mineral claims, Duncan Lake, B.C. A total of 453 samples were collected in a grid comprising a baseline of 4725m long, azimuth at 3300 and three cross-lines, 1.5km apart and running at 600; and a switch back with all stations at 25m interval. The Duncan Lake Forest Road was used as the baseline. The sampling program has successfully covered the main section of the property.

Hawkins reported on 135 of the 453 soil samples collected in 2009 (Hawkins and Chan, 2009). In this report, we are presenting data for 301 soil samples collected in 2009 (there were 17 samples collected and analyzed where coordinates could not be found).

The wider sampling shows a number of areas of high background levels of Pb, Zn, W, As, Mn, and Fe. No highly anomalous levels of Ag, Pb, or Zn were present. Two spikes of high background gold were seen at L48+50N 9+50E, and L63+50N 3+00E. No clearly anomalous results were obtained when compared to 2008 results near the Cabin Adits (Hawkins, 2008).

## 14.2 Preparation, Analysis and Security

Soil samples represent the “B” horizon and were placed in paper sample bags with station number written on them. Each sample site was flagged and identified in the field.

All samples were deposited to the Loring Laboratories located at the city of Calgary for preparation and assaying. Samples were assayed for Au and 30 Element ICP. A -80 mesh fraction was produced from the dried soil sample. The 0.5 gram sub-sample was digested with Aqua Regia at 95°C for one hour and bulked to 10ml with distilled water.

## 14.3 Data Verification

Mr. Salazar travelled to the property on August 5th to 8th, 2010 with Mr. David W. Johnston and Mr. Davey Johnston, to review the work done by Braveheart since they acquired the property.

Mr. Salazar is of the opinion that the analytical results delivered by Loring Laboratories are reliable and can be considered for supporting mineral resource evaluation.

# Item 15 Adjacent Properties

No information for adjacent properties is reported or available.

# Item 16 Mineral Processing and Testing

No testing done to date.

# Item 17 Mineral Resources and Mineral Reserves

No Mineral Resources defined in this property.

# Item 18 Other Relevant Data and Information

No other relevant data or information is available.

# Item 19 Interpretation and Conclusions

Work and studies in the area by leading geologists since 1865 have raised considerable interest for mineral development in the Lardeau District. Local resources and infrastructure in the vicinity of the property (such as the Glacier hydroelectric Plant Project, located 3km to the south of Braveheart's crown grants but within the claim, good paved highways that connect the property to Revelstoke and Nelson, and to the smelter facilities of Trail, the power grid at Duncan Lake Dam adjacent to the property, and Duncan Lake itself which is a storage reservoir) make the property attractive for low cost mining potential.

Riverside Property is located on regional disconformities between the Precambrian Windermere Group and the younger Paleozoic rocks of the lower Cambrian Hamil Formation (Geological Survey of Canada). It lies just north of regional deformation known as the Kootenay Arc, which is an important control structure for southeast British Columbia and Northern Washington State. This important control structure was noticed in the analysis of soil geochemistry of the property (Figure 17).

Paradis (2007) reports the Duncan Camp consists of several complexly deformed and faulted sulphide bodies, which occur in a thick section of dolomite or silicified carbonate rocks of the Badshot Formation. The Riverside deposit is a sulphide bearing siliceous, carbonaceous sill (?). The surrounding rock is a dark green chloritic schist.

The geochemical analyses done on soil samples shows a broad zone of anomalous elements such as Pb, Zn, Cu, Mn, and Ba, with linear trend N50W. The mineralized outcrops and surface adits also have this linear trend.

The potential of the Braveheart (Riverside) prospect is twofold. There is the very real, but limited, lead-zinc-silver potential of the vein deposit exposed in the adits. More importantly, the zone immediately beneath that vein, some 200m in thickness, could represent a large tonnage deposit of low but consistent grade of the same metals. Both possibilities must be investigated.

# Item 20 Recommendations and Proposed Budget

The Crown Grants, which date back to the 1930's, were staked just before they were granted, have not been relocated with current technology. A legal survey to re-establish these boundaries on the ground is recommended. A contract survey using differential GPS would probably cost $12,500 including transport, accommodation, field work and the final drafting, maps and report. The field work should take 3 days, assuming corner stakes are in good order and are readily locatable. In order to accomplish future exploration programs, rebuilding the access road to the adits, as is proposed in the Figure 18 is recommended. This work comprises some 1,400m on the lower switchbacks plus 2,300m upper track along the outcrop, for a total of 3,700m of roadwork. This would probably be roughly 40 hours of machine work over a week, 2 operators and a swamper. Using a local contractor with small backhoe and front-end loader, cost should be of the order of $7,500, including mobilization-demobilization.

Geological mapping and prospecting work with structural control is strongly recommended. An experienced structural field geologist plus prospector and helper would be required for about three weeks in the field to do this work. A further two weeks of geologic office work would also be needed. Cost would be of the order of $40,000 plus assays. Total geological mapping cost would be $45,000.

A diamond drilling program is proposed on the mineralized outcrops, the objective of which is to define more precisely the mineralized zone. (Figure 18) This drill program would be a two pronged attack. The first, which aims to start to examine the grades, consistency and thicknesses of the vein system followed by the historic adits, comprises 5 short, N series, diamond drillholes, giving an aggregate of 460m total depth (plus 40m contingency = 500m). In each hole casing would not be pulled, or would be replaced by HD-PVC substitute, to allow easy re-entry for the second phase. The second phase of work would be to extend at least 2 (one in the east, one in the west) of the 5 holes to 250m. This adds 320m to the program. Logic and cost considerations indicate that this second phase be an extension of the first.

**2011 Proposed Word on Plan Figure 18**

| | UTM | | Collar Elevation | | Azimuth | Inclination | Depth |
|---|---|---|---|---|---|---|---|
| Drill Hole | East | North | Feet (ft) | Meter(m) | (°) | (°) | (m) |
| A | 504240 | 5598120 | 5249 | 1600 | 240 | -65 | 80 |
| B | 504340 | 5598050 | 5381 | 1640 | 240 | -65 | 80 |
| C | 504690 | 5597290 | 5000 | 1524 | 108 | -80 | 100 |
| D | 504800 | 5597200 | 5184 | 1580 | 108 | -80 | 100 |
| E | 504920 | 5597190 | 5600 | 1707 | 108 | -80 | 100 |
| A2 | 504240 | 5598120 | 5249 | 1600 | 240 | -65 | 250 |
| C2 | 504690 | 5597290 | 5000 | 1524 | 108 | -80 | 250 |

A program of +800m in 5 holes should take about 16 days to complete. Total drilling cost would be $90,000, plus $10,000 mobilization-demobilization, to which add geologic supervision of $17,500, core cutting and sample preparation $12,500, transport and accommodation of $4,000, assays $36,000, and contingencies of $5,500. Total drilling cost will be of the order of $175,000.

| Total budget for the proposed program: | |
|---|---|
| Legal Survey | $ 12,500 |
| Road rehabilitation | $ 7,500 |
| Geological & Structural Mapping | |
| Senior Geologist | $ 18,000 |
| Experienced Prospector | $ 9,400 |
| Field hand | $ 4,600 |
| Accommodation | $ 4,000 |
| Transport | $ 2,500 |
| Assays | $ 5,000 |
| Contingencies | $ 1,500 |
| General & Administration | $ 10,000 |
| Diamond Drilling | |
| Drilling | $100,000 |
| Supervision | $ 17,500 |
| Core cutting & preparation | $ 12,500 |
| Transport & accommodation | $ 4,000 |
| Assays | $ 36,000 |
| Contingencies | $ 5,000 |
| Total | $250,000 |

# Item 21 References (Bibliography)

EMR (1979): 82K/10, Edition 2, 1:50,000 Topographic Map, Department of Energy, Mines and Resources.

Hawkins (2007): 2007 Exploration Report on the Braveheart Resources Mineral Claims, Duncan Lake Area, B.C.

Hawkins (2008): 2008 Exploration Report on the Braveheart Resources Mineral Claims, Duncan Lake Area, B.C.

Hawkins, P.A.P. Eng. & Chan, Allan, P. Geol(2009): 2009 Exploration Report on the Braveheart Resources Mineral Claims, Duncan Lake Area, B.C. Report # 2009-224-01.

Geological Survey of Canada (1979): Open File 515: Regional Geochemical Survey, Lardeau (NTS 82K).

MEM & PR, (1918): Ministry of Mines Annual Report for 1918, p 162

Paradis (2007): Carbonate hosted Zn-Pb deposits in southern B.C. - Potential for Irish type deposits. Geological Survey of Canada, Current Research 2007-A10, 7pp

Snell, J. (1999): Riverside Project, Preliminary Geological Evaluation, Feb 1999 for D. Fulko and W. Fulko, internal report.

Snell, J. (2007): Technical Report on the Riverside Property for Braveheart Resources Canada Inc.

# Item 22 Date and Signature Page

**I, Guillermo Salazar, do certify that:**

1. I am a registered Professional Engineer and Professional Geologist practising under License No 10220 from the Province of British Columbia.
2. I am a registered Professional Geologist practising under License No. 27456 of the Province of Alberta.
3. I attended the Universidad Nacional de Ingenieria de Lima, Peru from 1962-1967 and received a Bachelor of Science degree in Mining and Geology from that University (1967).
4. I received my Master's of Arts degree in Economic Geology from Harvard University in 1969.

**Dated at Calgary, on the ____ day of _____, 2012.**

**Guillermo Salazar, P. Geo, P. Eng.**

# Item 23 Figures

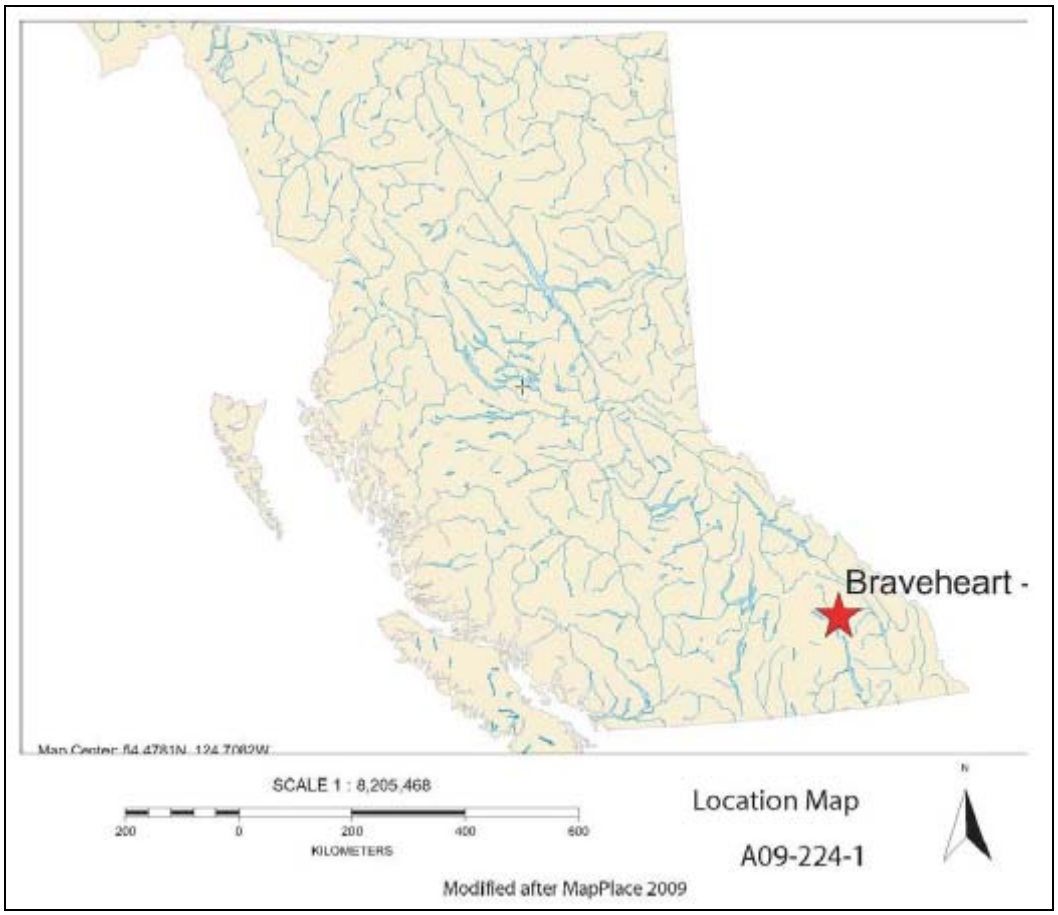


**Figure 1 Location Map – Duncan Lake Area**

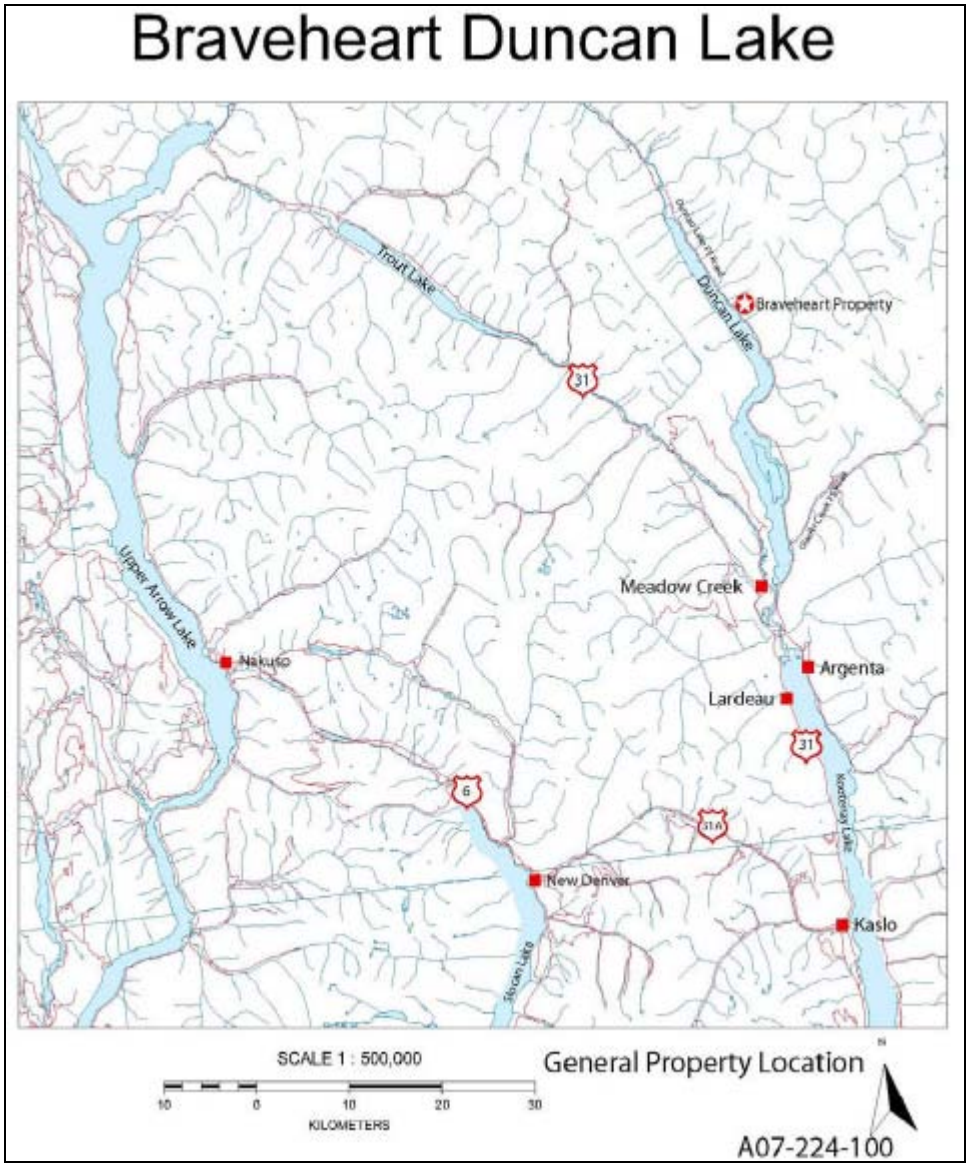


**Figure 2 Braveheart – Duncan Lake – Map A09-224-100 (After Hawkins)**

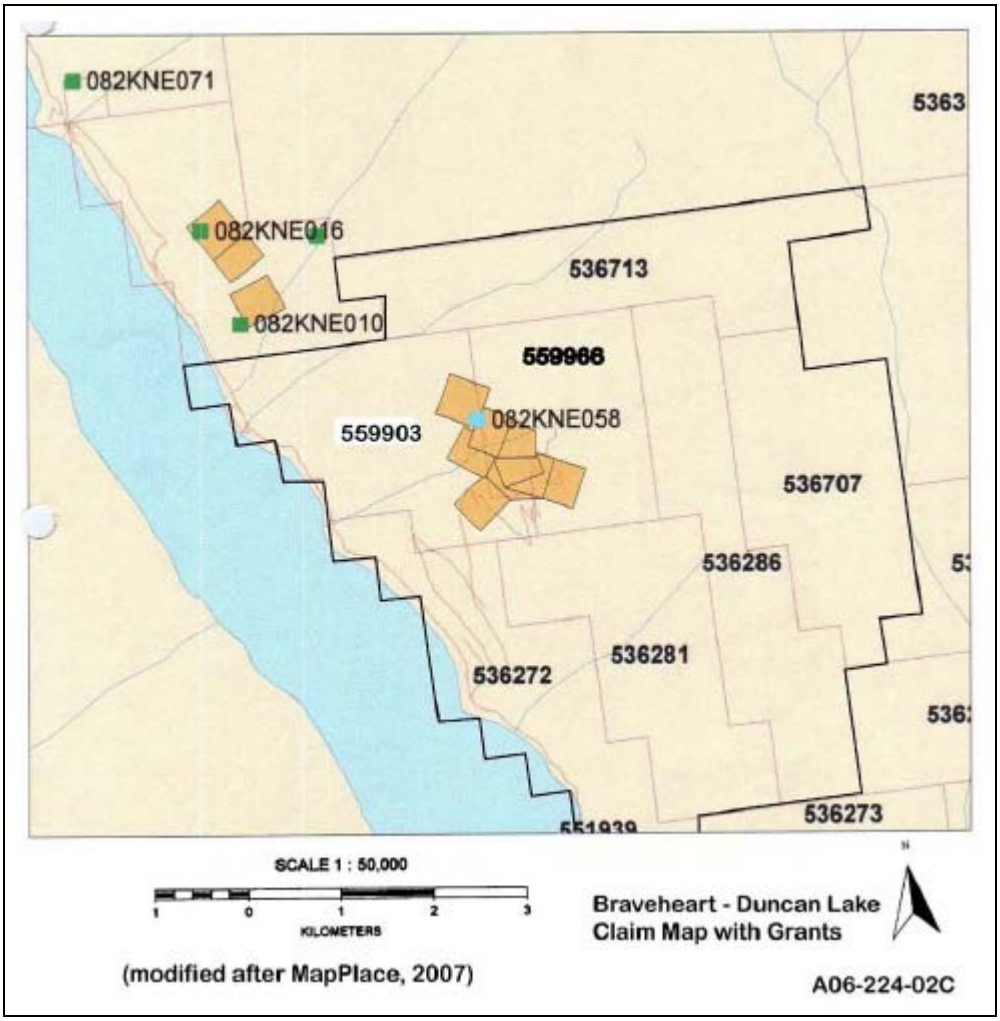


**Figure 3 Braveheart – Claim Map with Grants (updated after Hawkins)**

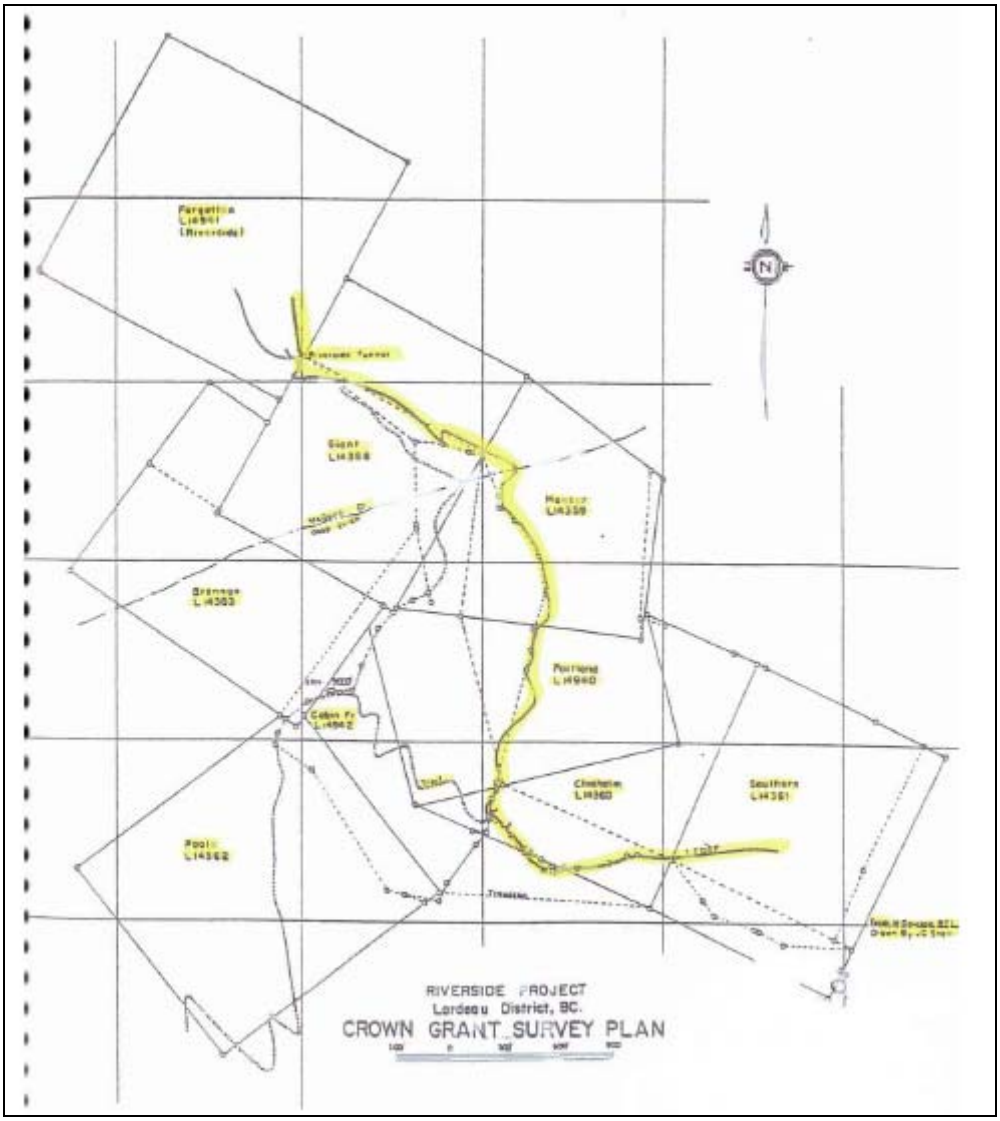


**Figure 4 Braveheart – Crown Grants with showings (After Snell, 2007)**

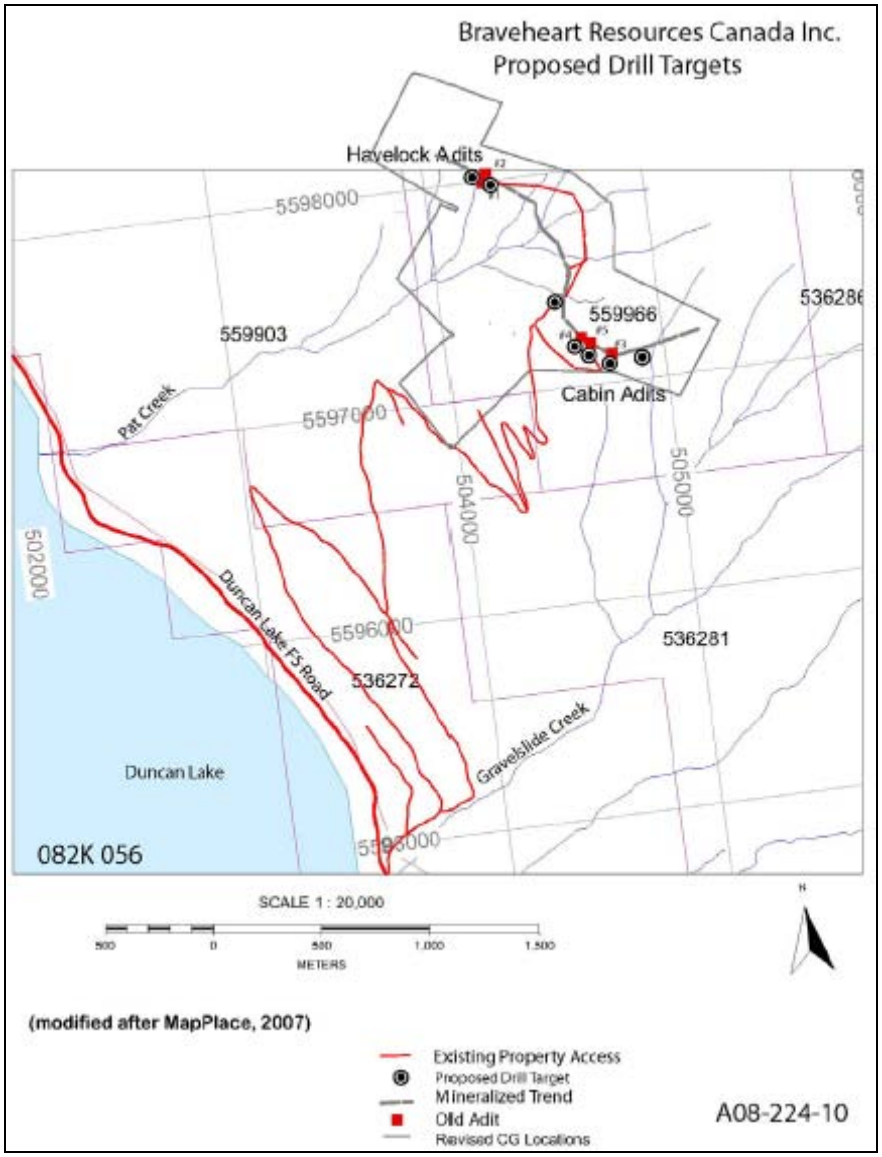


**Figure 5 Braveheart – Property Access**

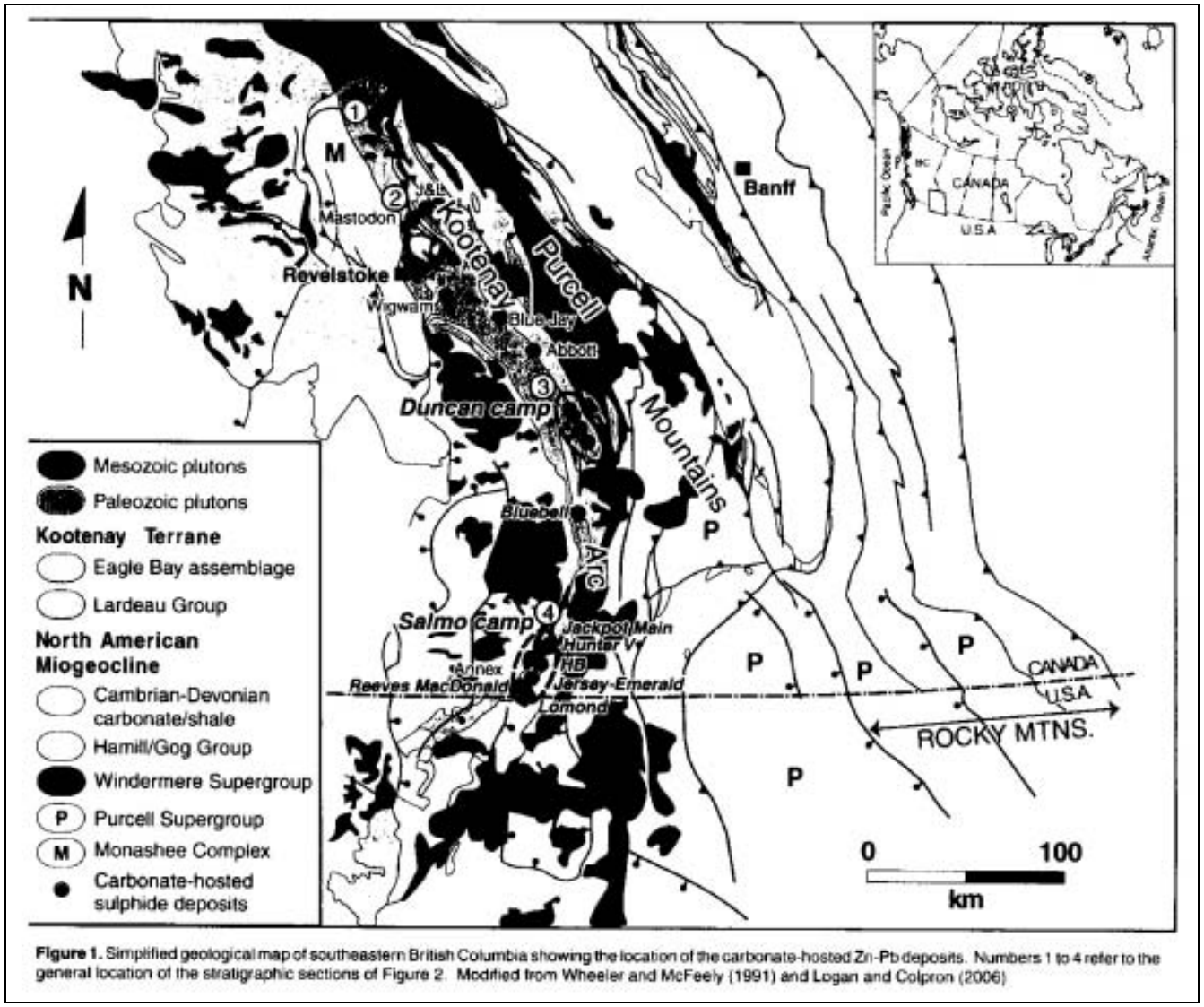


**Figure 1.** Simplified geological map of southeastern British Columbia showing the location of the carbonate-hosted Zn-Pb deposits. Numbers 1 to 4 refer to the general location of the stratigraphic sections of Figure 2. Modified from Wheeler and McFeely (1991) and Logan and Colpron (2006)

**Figure 6 Regional Geology & Tectonics Map Pb-Zn District in SE B.C. (After Paradis)**

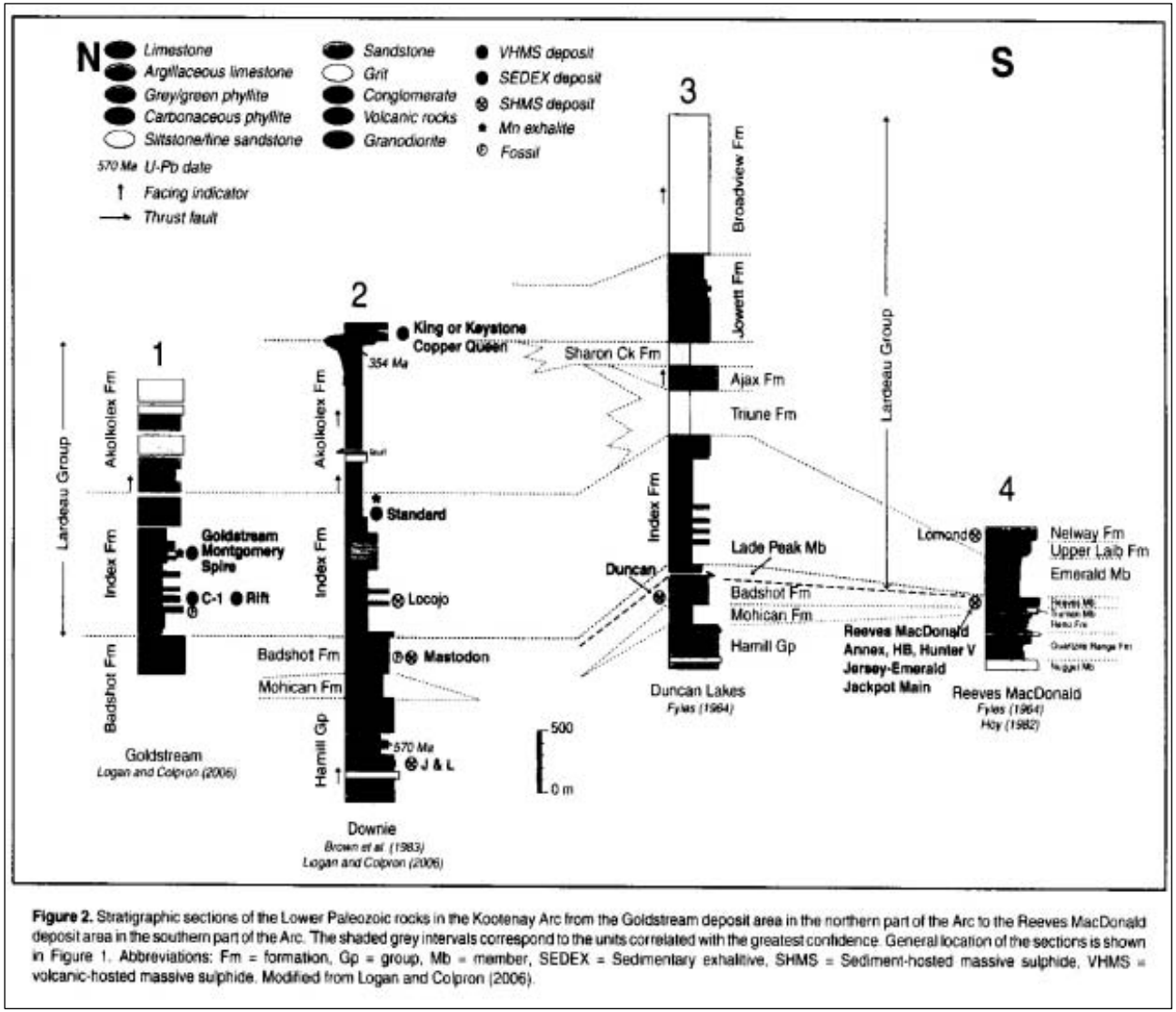


**Figure 2.** Stratigraphic sections of the Lower Paleozoic rocks in the Kootenay Arc from the Goldstream deposit area in the northern part of the Arc to the Reeves MacDonald deposit area in the southern part of the Arc. The shaded grey intervals correspond to the units correlated with the greatest confidence. General location of the sections is shown in Figure 1. Abbreviations: Fm = formation, Gp = group, Mb = member, SEDEX = Sedimentary exhalitive, SHMS = Sediment-hosted massive sulphide, VHMS = volcanic-hosted massive sulphide. Modified from Logan and Colpron (2006).

**Figure 7 Stratigraphic Section of the Lower Paleozoic in SE B.C. (After Paradis)**

**Table 1.** Production and reserve of the main carbonate-hosted Zn-Pb deposits of the Kootenay Arc.

| Deposit | BC minfile # | UTM northing / easting (NAD 83) | Deposit classification class / type | Status | Formation / unit | Lithology | Mineralization | Tonnage / grades | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Lomond | 082FSW018 | 5427881 / 475438 | SHMS / oxide | Past producer | Nelway Fm | Dolomite | Conformable oxidized sulphide zones | Production (1948-49): 18 t of 1182 g of Ag, 4401 kg of Pb, 436 kg of Zn | Podiform oxidized Pb-Zn sulphide minerals exposed for a strike length of 300 m. One pod is 6 by 15 m in size and 5 m thick |
| Reeves MacDonald | 082FSW026 | 5430233 / 474250 | SHMS / Irish, MVT | Past-producer | Lab Fm - Reeves member | Dolomitized limestone | Laminated bands, lenses, and disseminations of Py-Sph-Ga | Production (1949-71): 5,848,021 t at 1% Pb, 3.6% Zn | O'Donnell, Reeves, B.L., and No. 4 orebodies make up the Reeves MacDonald mine and they are all faulted segments of a single ore zone. The orebodies are in a steeply plunging secondary syncline on the south limb of the Salmo River anticline |
| Annex | 082FSW219 | 5429069 / 472295 | SHMS / Irish, MVT | Past producer | Lab Fm - Reeves member | Dolomitized limestone | Laminated bands, lenses, and disseminations of Py-Sph-Ga (minor Cpy) | Production (1970-75): 763,314 t | The orebody is possibly a downfaulted section of the Reeves MacDonald ore zone but it contains higher metal grades |
| Jersey-Emerald | 082FSW009 082FSW010 | 5438442 / 483859 | SHMS / Irish, MVT | Past-producer | Lab Fm - Reeves member | Dolomitized limestone | Tabular or lenticular bands of disseminated Sph-Ga-Py-Po (minor Asp), W-skarn (minor Mo) | Production: 8.4 Mt at 1.95% Pb, 3.83% Zn | Jersey = 10 orebodies (A to J) that follow secondary folds and locally bedding faults on the right-side-up limb of the Jersey anticline. Emerald = superimposed W-skarn mineralization |
| HB | 082FSW004 | 5444397 / 485436 | SHMS / Irish, MVT | Past-producer | Lab Fm - Reeves member | Dolomitized limestone | Layer-parallel lenses of Py-Sph-Ga (minor Po) | Production (1912-1978): 6.66 Mt. Measured and indicated reserves (1978): 36,287 t at 0.1% Pb, 4.1% Zn | Three steeply dipping, parallel zones extending as pencil-like shoots for 900 m along the south plunge of the controlling structures |
| Hunter V | 082FSW014 | 5453872 / 487827 | SHMS / Irish, MVT | Past-producer | Lab Fm - Reeves member | Dolomitized limestone | Disseminated Sph-Py (minor Ga, Te, native Ag) follow banding in the dolomite | Production (1902-1929): 56,820 t of 4.35 g/t Ag, 0.016 g/t Au | Fg sulphide minerals within siliceous limestone matrix. Jackpot Main adjoins to the east. |
| Jackpot Main | 082FSW012 | 5454271 / 488556 | SHMS / Irish, MVT | Developed prospect | Lab Fm - Reeves member | Dolomitized limestone | Disseminated Sph-Py-Po (minor Ga) follow banding in the dolomite | Reserves: 3 Mt of 5% Pb+Zn | Four mineralized zones: East, Lenwick, West, and Main |
| BlueBell | 082FNE043 | 5512234 / 510023 | SHMS / Veins and replacement | Past-producer | Badshot and Monican fms | Marble / limestone | Fracture-controlled replacement bodies of Ga-Sph-Po-Py-Asp-Cpy | Production: 4.82 Mt at 5.2% Pb, 6.3% Zn, 45 g/t Ag | 3 zones (~500 m apart along strike) - Comfort, Bluebell, and Kootenay Chief. |
| Duncan (no.5 to 8) | 082KSE023 | 5579092 / 503457 | SHMS / Irish, MVT | Developed prospect | Badshot Fm | Marble/dolostone, siliceous dolostone | Disseminated, lenticular clusters and massive layers of Py-Sph-Ga (minor Po) | Indicated reserves: 9 Mt at 2.7% Pb, 2.9% Zn | The orientation of the zones is essentially parallel to that of the enclosing formations with steep dips. |
| Abbott | 082KNW056 | 5608724 / 488723 | SHMS / Irish and veins | Past-producer | Badshot Fm / Index Fm | Marble/limestone, calcareous and carbonaceous phyllite | Clusters and disseminations of Ga-Sph-Py in a Qz-Cal gangue | Measured reserves: 39,030 t at 286.3 g/t Ag, 1.2 g/t Au, 10.26% Pb, 16.12% Zn | Sulphide lens strikes at 155° and dips at 75° to the SW. It is approximately 20 m along strike and 11 m in width. |
| Blue Jay | 082KNW079 | 5627360 / 470322 | SHMS / MVT, replacement | Past-producer | Badshot Fm | Marble / limestone | Ga-Sph streaks, pods, and disseminations in limestone | Production (1979-81): 31 of 13,477 g of Ag, 1468 kg of Pb, 1158 kg of Zn | Replacement sulphide minerals in limestone has been traced for at least 213 m. |
| Wigwam | 082KNW068 | 5636927 / 431917 | SHMS / MVT | Developed prospect | Badshot Fm | Marble/limestone, quartzite | Conformable lenses and disseminations of Po-Py-Sph-Ga (minor Cpy) | Indicated resources: 632,814 t at 2.14% Pb and 3.54% Zn | Sulphide-bearing horizons in siliceous limestone are lensoid, varying from 1 mm to 6 m in thickness, the longest being 700 m in length |
| Mastodon | 082M 005 | 5677296 / 421781 | SHMS / Irish, MVT | Past-producer | Badshot Fm | Marble / limestone | Tabular or lenticular pods and veins of Ga-Sph-Cpy | Production: 28,975 t at 0.5% Pb, 9.5% Zn, 6.22 g/t Ag | Tabular or lenticular pods and veins associated with faults/shears and as replacement of limestone. |
| J & L | 082M 003 | 5682240 / 421760 | SHMS / Irish, SEDEX, Veins | Developed prospect | Hamill Gr | Limestone and quartz-sericite schist | Stratiform and conformable lenses and laminae of Py-Asp-Sph-Ga (minor Cpy, Po, Te, Su) | Inferred and indicated reserves: 4.77 Mt at 7.2 g/t Au, 72 g/t Ag, 4.3% Zn, 2.7% Pb | On surface, the Main zone is 1.85 km and over 800 m underground, and has an average true width of 1.6 m. The North zone which forms 4 parallel subzones, has been traced for 1.54 km and is possibly an extension of the Main zone. |

Abbreviations: Asp = Arsenopyrite, Cal = calcite, Cpy = chalcopyrite, Fg = fine grained, Fm = formation, Ga = galena, Mag = magnetite, MVT = Mississippi Valley-type, Po = pyrrhotite, Py = pyrite, Qz = quartz, SHMS = sediment hosted massive sulphides, Sph = sphalerite, Su = sulphosalts, Te = tetrahedrite.

**Figure 8** **Pb-Zn Past Producers and Districts (After Paradis)**

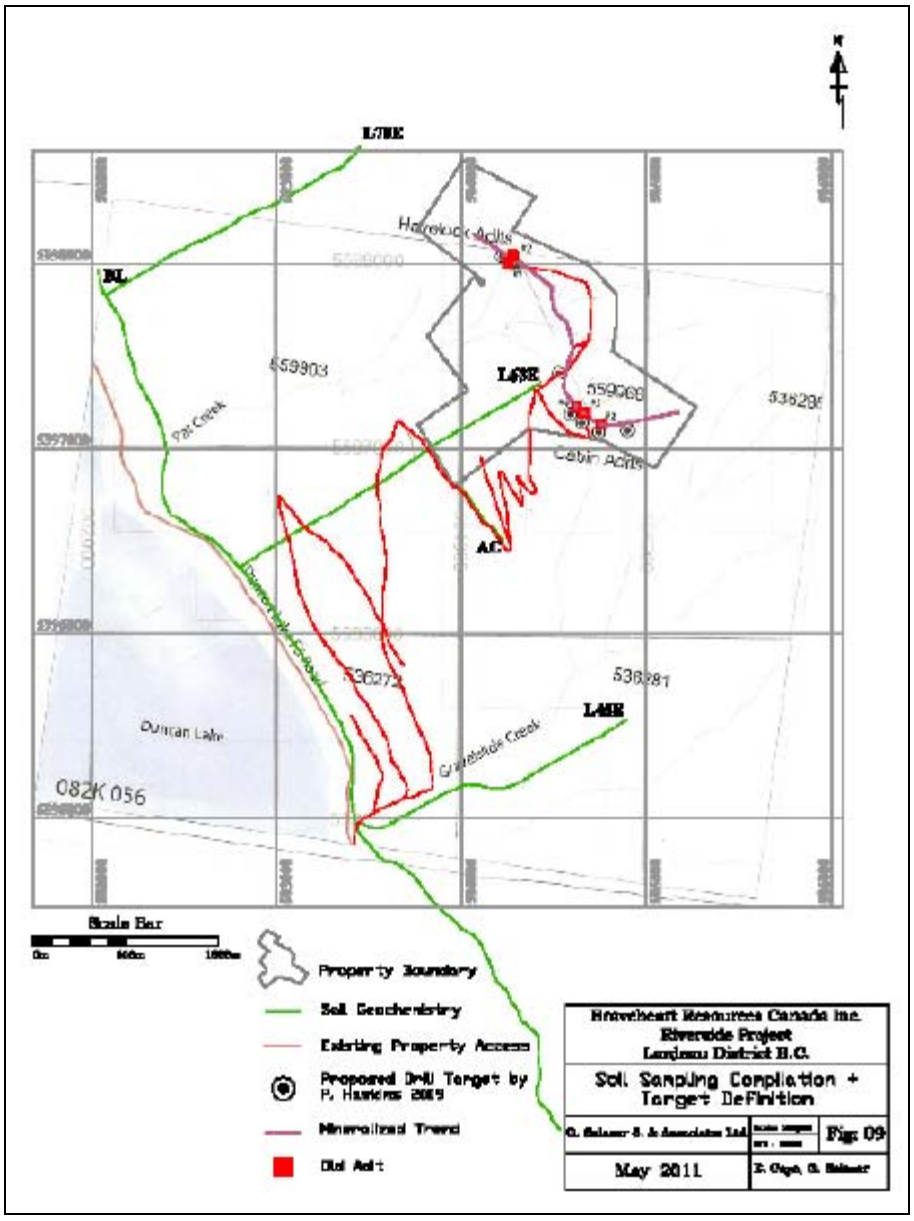


**Figure 9** **Soil Sampling Compilation & Target Definition; Scale 1:25,000**

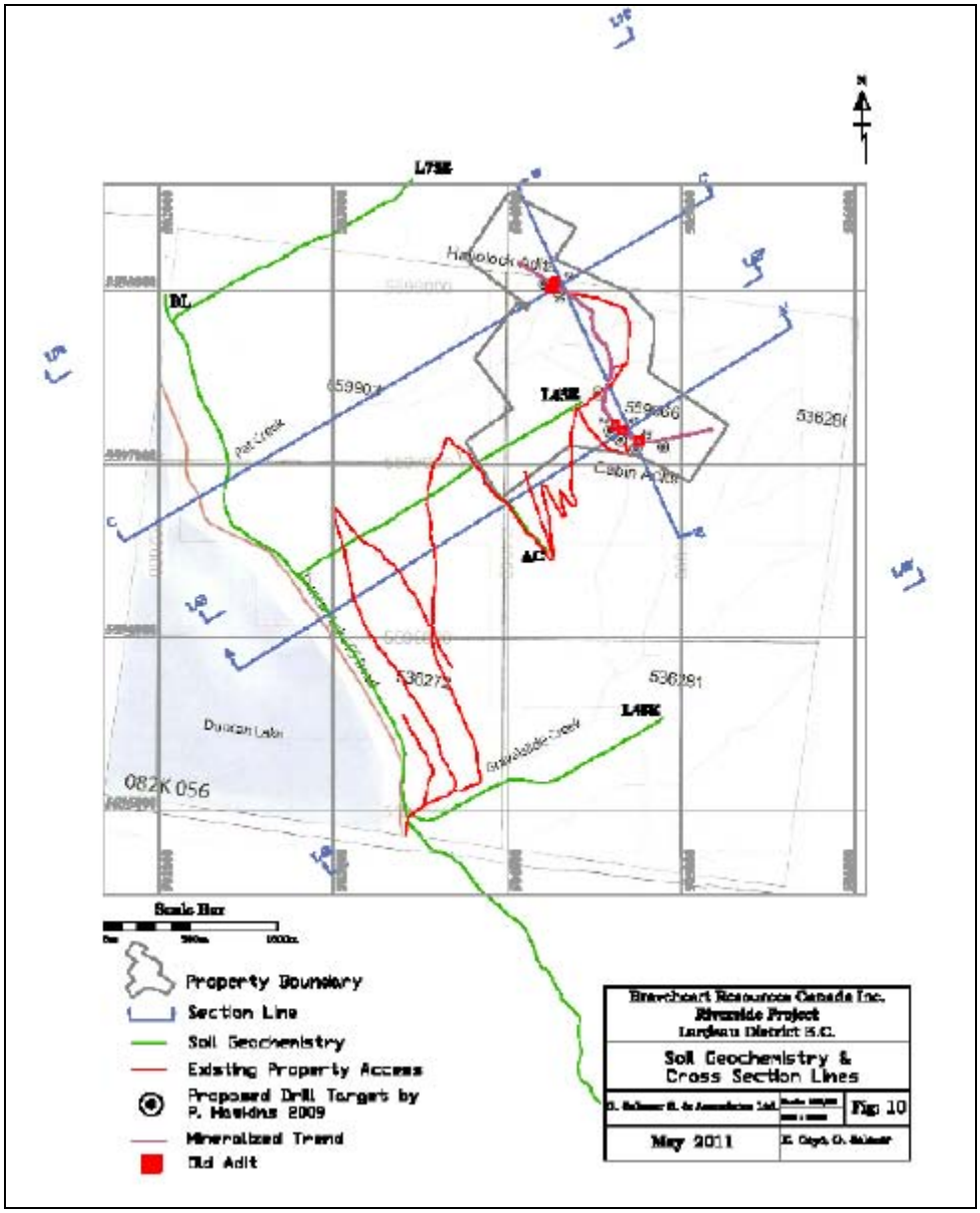


**Figure 10 Soil Geochemistry & Cross Section Lines; Scale: 1:25,000**

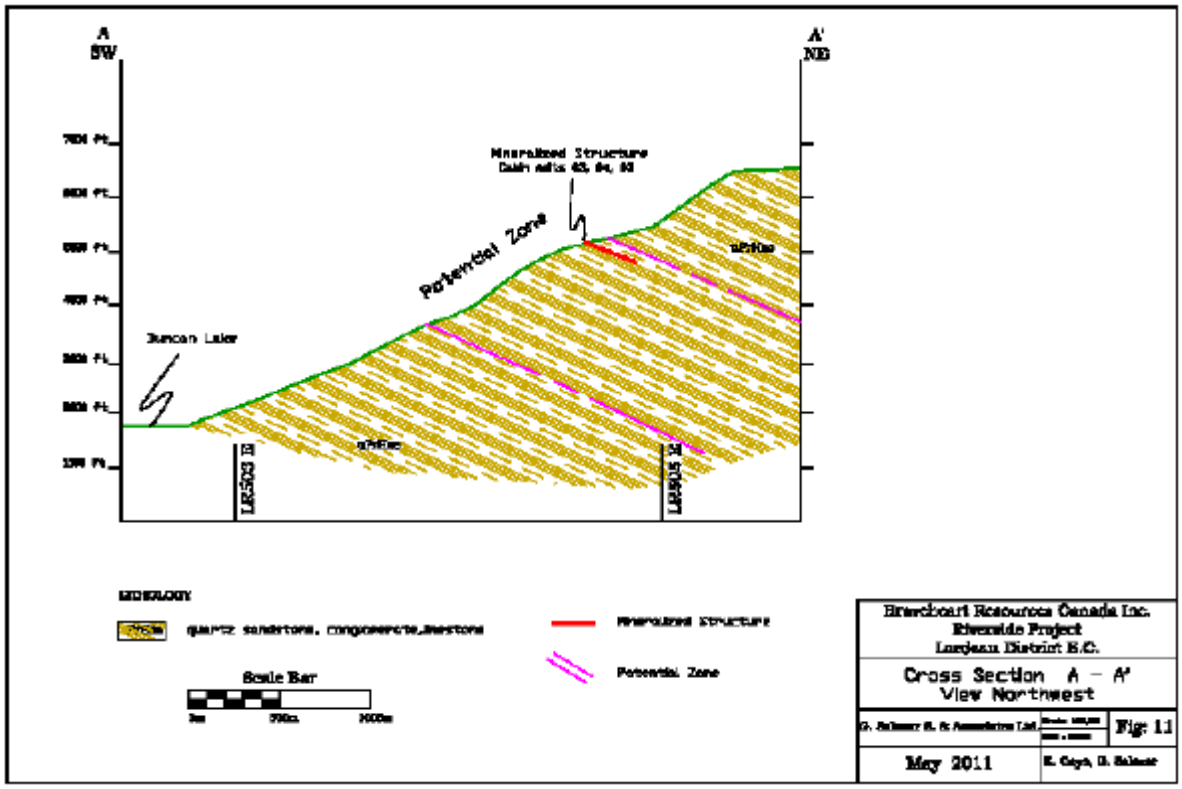


**Figure 11 Cross Section A-A'**

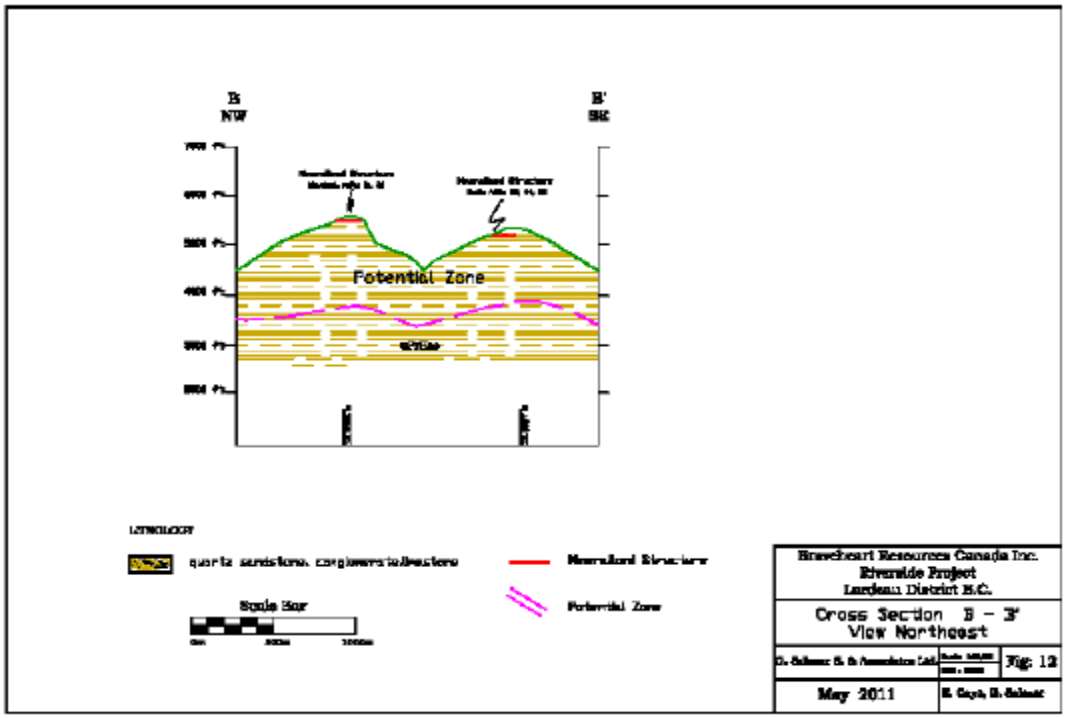


**Figure 12 Cross Section B-B'**

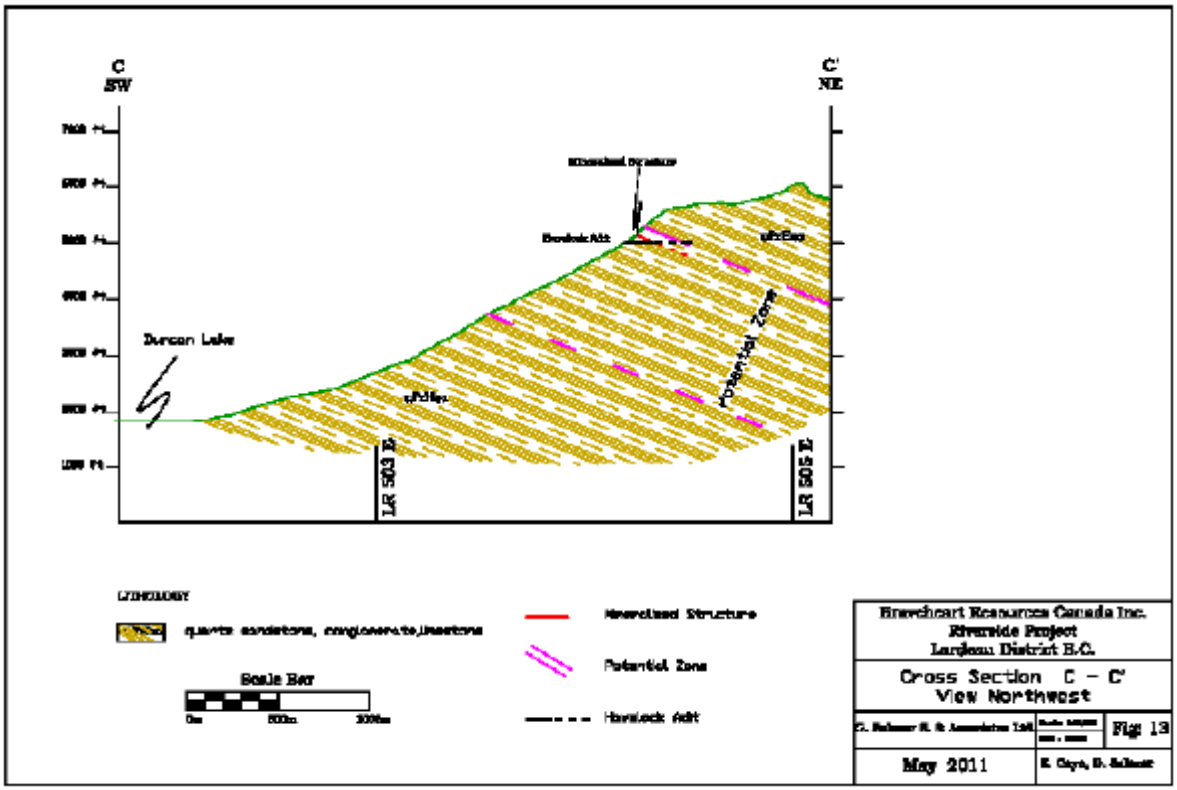


**Figure 13 Cross Section C-C'**

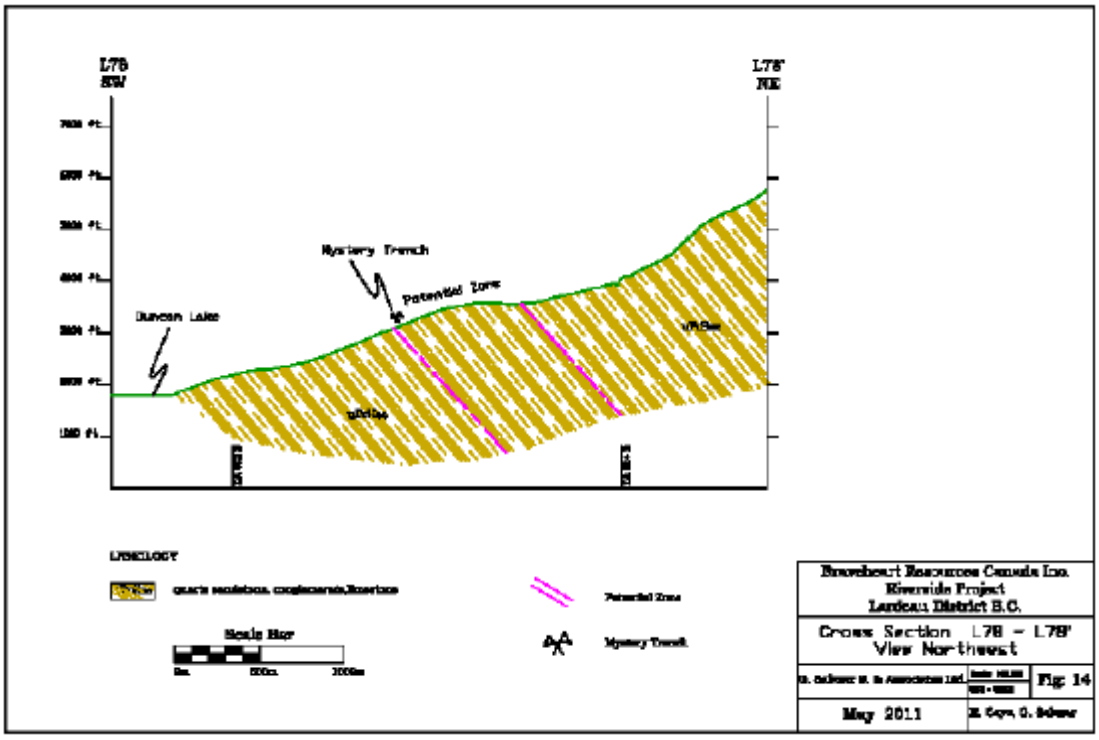


**Figure 14 Cross Section L78-L78'**

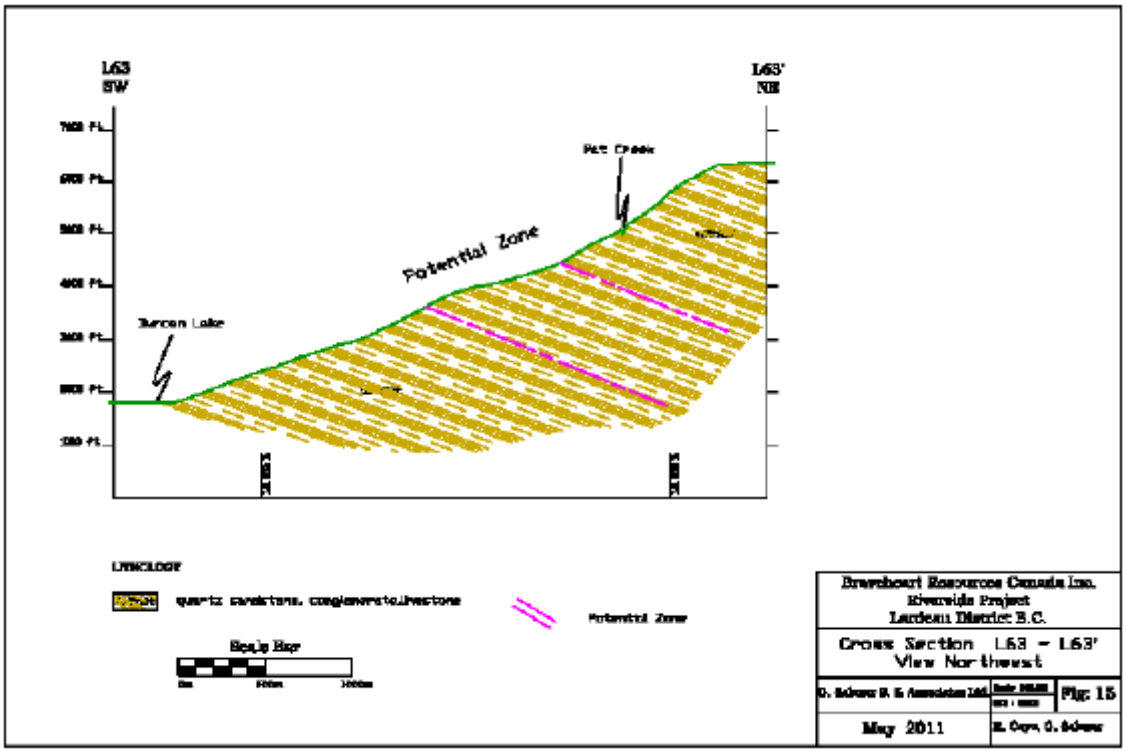


**Figure 15 Cross Section L63-L63'**

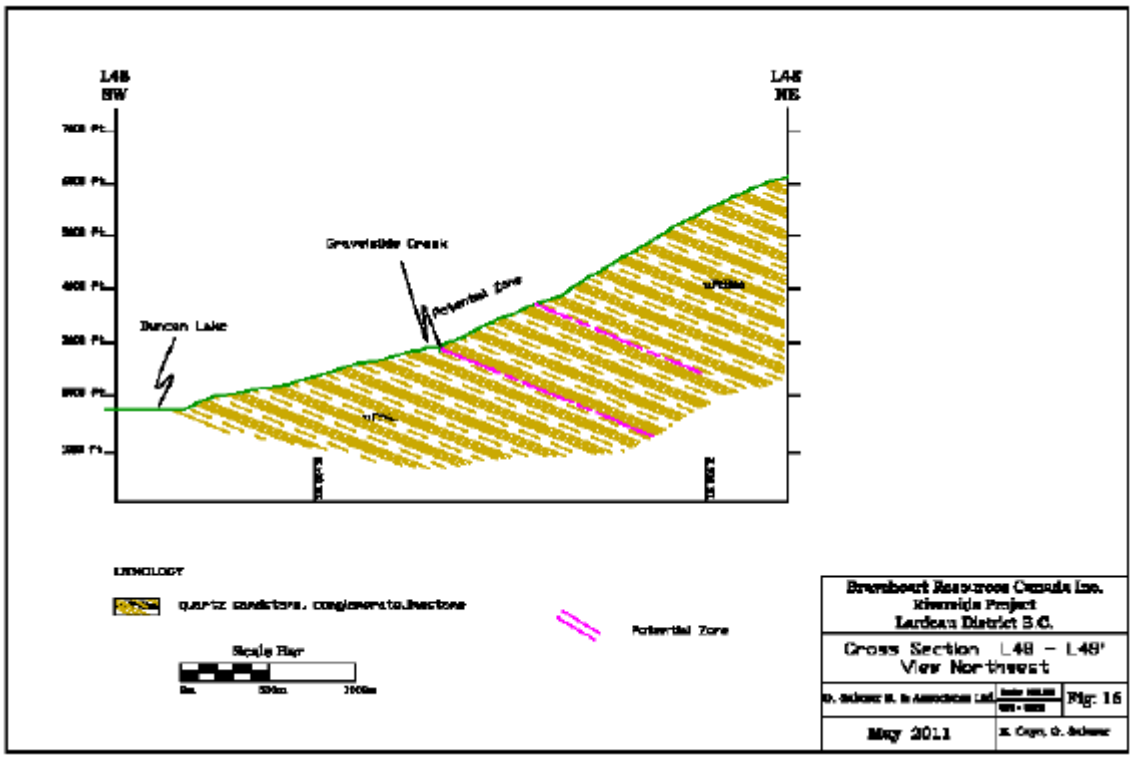


**Figure 16 Cross Section L48-L48'**

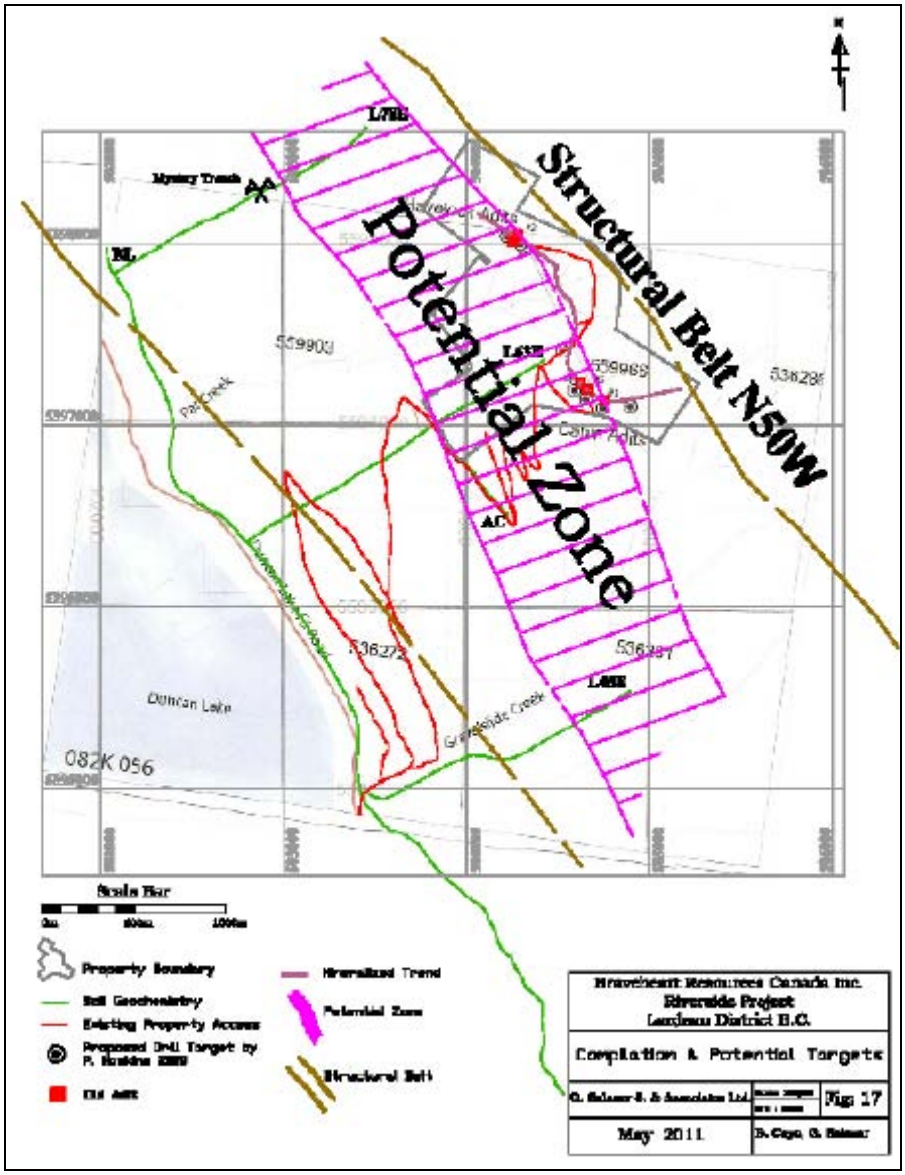


**Figure 17 Compilation & Potential Targets**

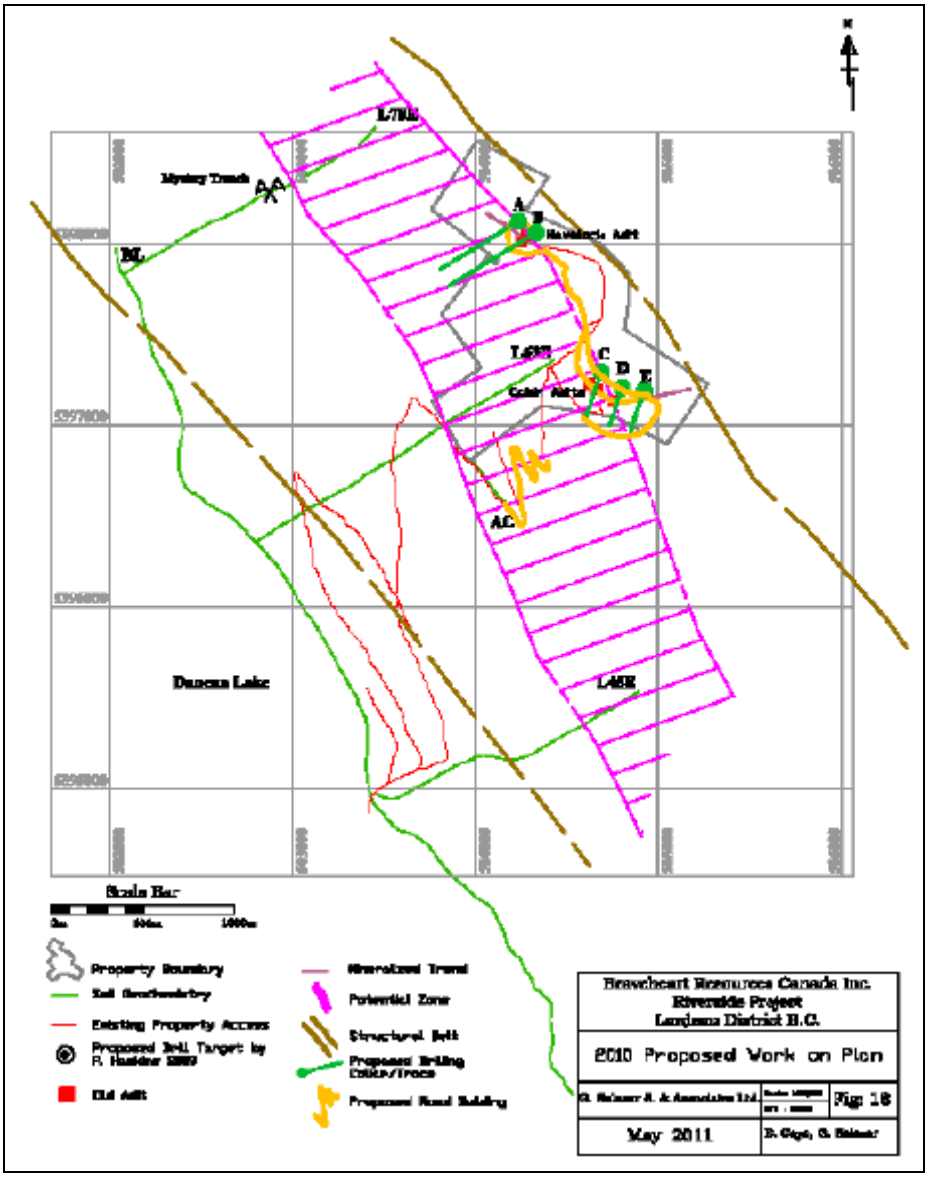


**Figure 18 Proposed Work on Plan**

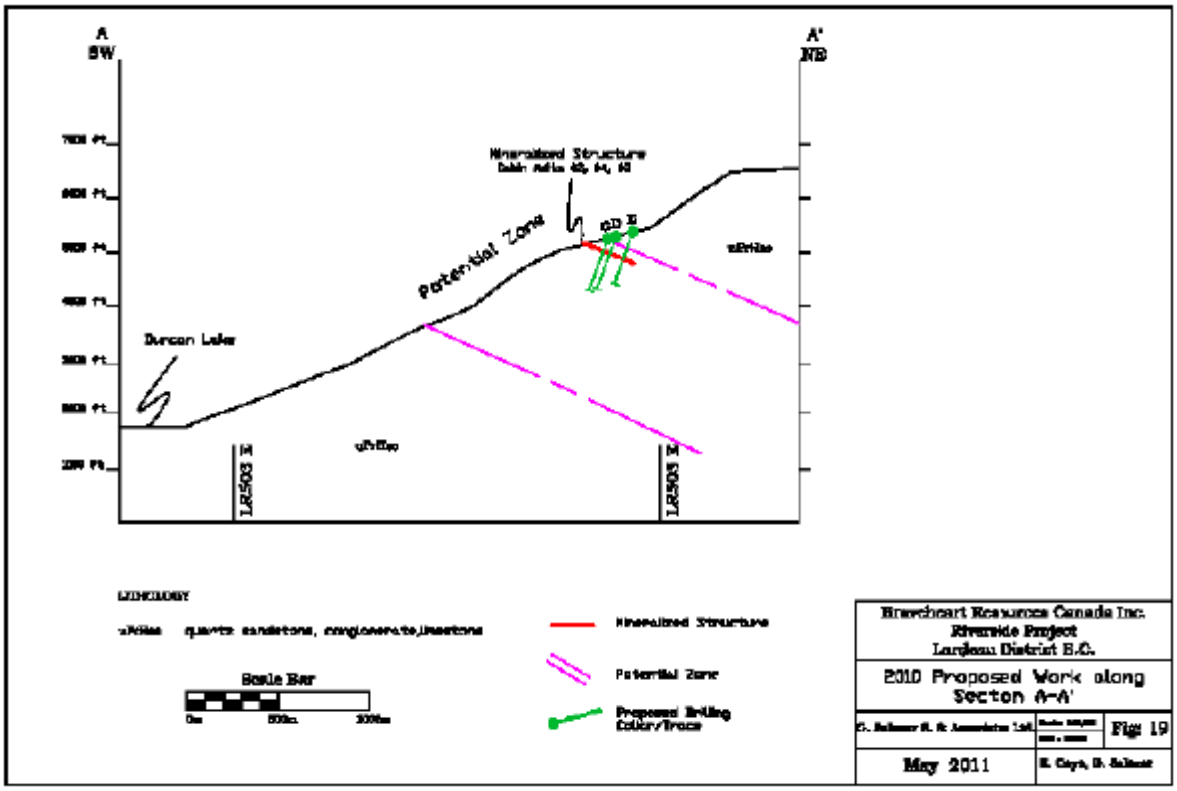


**Figure 19 2010 Proposed Work along Section A-A'**

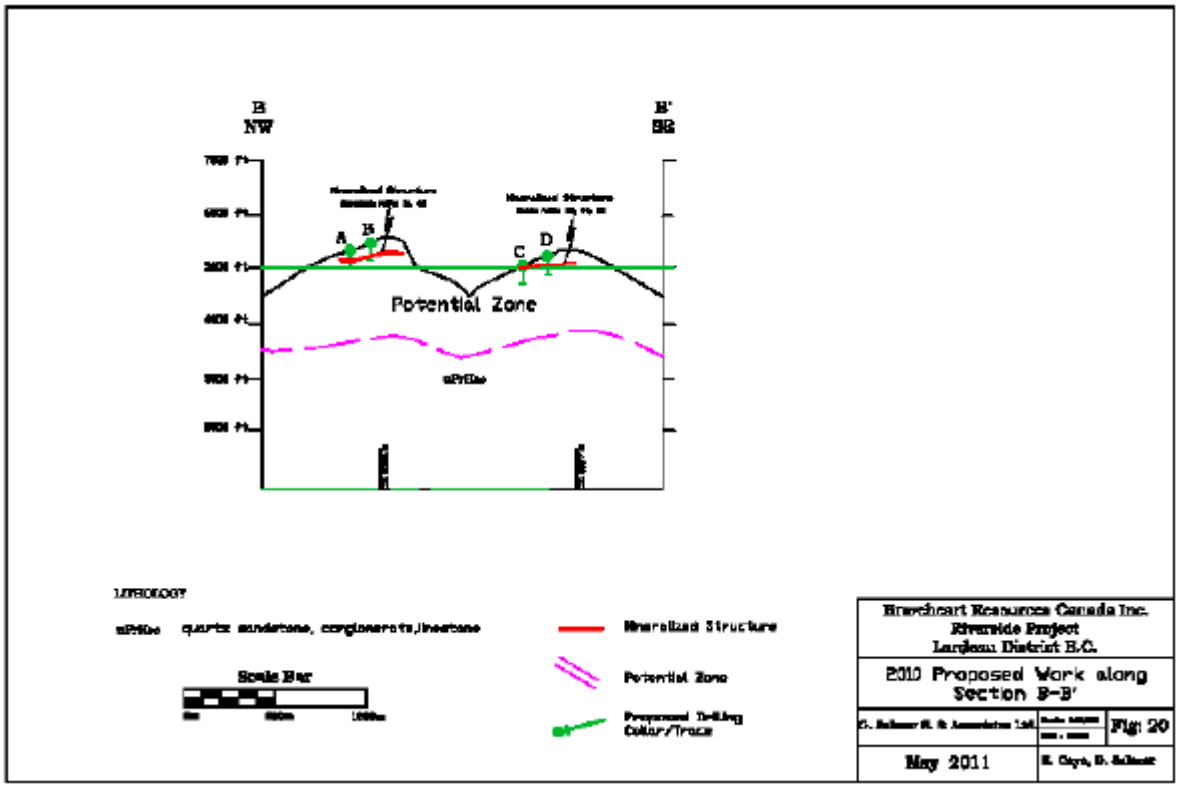


**Figure 20 2010 Proposed Work along Section B-B'**

# Item 24 Appendices

## Appendix I

Sample Coordinates

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **BL48+00** | 503493 | 5594798 |
| **BL47+00** | 503700 | 5594702 |
| **BL46+00** | 503778 | 5594604 |
| **BL45+00** | 503882 | 5594500 |
| **BL44+00** | 503977 | 5594408 |
| **BL43+00** | 504098 | 5594297 |
| **BL42+00** | 504161 | 5594201 |
| **BL41+00** | 504177 | 5594101 |
| **BL40+00** | 504265 | 5594001 |
| **BL39+00** | 504311 | 5593899 |
| **BL38+00** | 504414 | 5593801 |
| **BL37+00** | 504425 | 5593699 |
| **BL36+00** | 504442 | 5593600 |
| **BL35+00** | 504426 | 5593499 |
| **BL34+00** | 504433 | 5593400 |
| **BL33+00** | 504524 | 5593300 |
| **BL80+00** | 501991 | 5598000 |
| **BL79+00** | 502004 | 5597900 |
| **BL78+50** | 502028 | 5597850 |
| **BL78+00** | 502052 | 5597800 |
| **BL77+00** | 502131 | 5597700 |
| **BL76+00** | 502141 | 5597600 |
| **BL75+00** | 502158 | 5597500 |
| **BL74+00** | 502205 | 5597400 |
| **BL73+00** | 502259 | 5597300 |
| **BL72+00** | 502306 | 5597200 |
| **BL71+00** | 502342 | 5597100 |
| **BL70+00** | 502375 | 5597000 |
| **BL69+00** | 502350 | 5596900 |
| **BL68+00** | 502350 | 5596800 |
| **BL67+00** | 502358 | 5596700 |
| **BL66+00** | 502440 | 5596600 |
| **BL65+00** | 502626 | 5596500 |
| **BL64+00** | 502730 | 5596400 |
| **BL63+50** | 502766 | 5596350 |
| **BL63+00** | 502820 | 5596300 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **BL62+00** | 502909 | 5596200 |
| **BL61+00** | 502980 | 5596100 |
| **BL60+00** | 503035 | 5596000 |
| **BL59+00** | 503096 | 5595900 |
| **BL58+00** | 503170 | 5595800 |
| **BL57+00** | 503219 | 5595700 |
| **BL56+00** | 503277 | 5595600 |
| **BL55+00** | 503340 | 5595500 |
| **BL54+00** | 503388 | 5595400 |
| **BL53+00** | 503401 | 5595300 |
| **BL52+00** | 503390 | 5595200 |
| **BL51+00** | 503395 | 5595100 |
| **BL50+00** | 503402 | 5595000 |
| **BL49+00** | 503450 | 5594900 |
| **L6350N-1+00E** | 502852 | 5596408 |
| **L6350N-2+00E** | 502929 | 5596462 |
| **L6350N-3+00E** | 503011 | 5596515 |
| **L6350N-4+00E** | 503095 | 5596565 |
| **L6350N-5+00E** | 503200 | 5596611 |
| **L6350N-6+00E** | 503279 | 5596655 |
| **L6350N-7+00E** | 503337 | 5596713 |
| **L6350N-8+00E** | 503419 | 5596758 |
| **L6350N-9+00E** | 503496 | 5596800 |
| **L6350N-10+00E** | 503573 | 5596848 |
| **L6350N-11+00E** | 503660 | 5596909 |
| **L6350N-12+00E** | 503745 | 5596967 |
| **L6350N-13+00E** | 503886 | 5597078 |
| **L6350N-14+00E** | 503930 | 5597092 |
| **L6350N-15+00E** | 503997 | 5597127 |
| **L6350N-16+00E** | 504077 | 5597168 |
| **L6350N-17+00E** | 504146 | 5597214 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **L6350N-18+00E** | 504221 | 5597265 |
| **L6350N-19+00E** | 504317 | 5597313 |
| **L6350N-20+00E** | 504398 | 5597372 |
| **L6350N-20+50E** | 504439 | 5597393 |
| **L7850N-1+00E** | 502113 | 5597899 |
| **L7850N-2+00E** | 502197 | 5597955 |
| **L7850N-3+00E** | 502289 | 5597989 |
| **L7850N-4+00E** | 502371 | 5598045 |
| **L7850N-5+00E** | 502447 | 5598095 |
| **L7850N-6+00E** | 502520 | 5598140 |
| **L7850N-7+00E** | 502603 | 5598163 |
| **L7850N-8+00E** | 502709 | 5598222 |
| **L7850N-9+00E** | 502760 | 5598251 |
| **L7850N-10+00E** | 502842 | 5598314 |
| **L7850N-11+00E** | 502916 | 5598336 |
| **L7850N-12+00E** | 502993 | 5598369 |
| **L7850N-13+00E** | 503064 | 5598414 |
| **L7850N-14+00E** | 503140 | 5598471 |
| **L7850N-15+00E** | 503214 | 5598511 |
| **L7850N-16+00E** | 503304 | 5598559 |
| **L7850N-16+50E** | 503358 | 5598571 |
| **L7850N-16+75E** | 503360 | 5598616 |
| **L7850N-17+00E** | 503370 | 5598619 |
| **L7850N-17+50E** | 503404 | 5598644 |
| **L4850N-1+00E** | 503533 | 5594937 |
| **L4850N-2+00E** | 503598 | 5594948 |
| **L4850N-3+00E** | 503685 | 5594994 |
| **L4850N-4+00E** | 503780 | 5595043 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| L4850N-5+00E | 503870 | 5595099 |
| L4850N-6+00E | 503950 | 5595130 |
| L4850N-6+75E | 504009 | 5595164 |
| L4850N-7+00E | 504029 | 5595161 |
| L4850N-7+75E | 504118 | 5595178 |
| L4850N-8+00E | 504139 | 5595150 |
| L4850N-8+50E | 504187 | 5595148 |
| L4850N-9+00E | 504225 | 5595156 |
| L4850N-9+50E | 504280 | 5595166 |
| L4850N-10+00E | 504310 | 5595188 |
| L4850N-10+50E | 504353 | 5595215 |
| L4850N-11+00E | 504398 | 5595245 |
| L4850N-11+25E | 504417 | 5595259 |
| L4850N-12+00E | 504469 | 5595280 |
| L4850N-13+00E | 504546 | 5595341 |
| L4850N-14+00E | 504637 | 5595383 |
| L4850N-15+00E | 504702 | 5595418 |
| L4850N-16+00E | 504778 | 5595455 |
| L4850N-17+00E | 504860 | 5595513 |
| L4850N-18+00E | 504931 | 5595560 |
| 224-AC09-001 | 504478 | 5597967 |
| 224-AC09-002 | 504378 | 5597961 |
| 224-AC09-003 | 503453 | 5594950 |
| 224-AC09-005 | 503518 | 5595001 |
| 224-AC09-006 | 504230 | 5596493 |
| 224-AC09-010 | 504131 | 5596605 |
| 224-AC09-014 | 504052 | 5596736 |
| 224-AC09-018 | 503936 | 5596831 |
| 224-AC09-022 | 503855 | 5596955 |
| 224-AC09-025 | 503783 | 5597057 |
| L4850N-0+25E | 503483 | 5594878 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| L4850N-0+50E | 503500 | 5594898 |
| L4850N-0+75E | 503516 | 5594917 |
| L4850N-1+25E | 503549 | 5594940 |
| L4850N-1+50E | 503566 | 5594943 |
| L4850N-1+75E | 503582 | 5594945 |
| L4850N-2+25E | 503620 | 5594960 |
| L4850N-2+50E | 503642 | 5594971 |
| L4850N-2+75E | 503663 | 5594983 |
| L4850N-3+25E | 503709 | 5595006 |
| L4850N-3+75E | 503756 | 5595031 |
| L4850N-4+25E | 503803 | 5595057 |
| L4850N-4+50E | 503825 | 5595071 |
| L4850N-4+75E | 503848 | 5595085 |
| L4850N-5+25E | 503890 | 5595107 |
| L4850N-5+50E | 503910 | 5595115 |
| L4850N-5+75E | 503930 | 5595122 |
| L4850N-6+25E | 503969 | 5595141 |
| L4850N-6+50E | 503989 | 5595152 |
| L4850N-7+25E | 504058 | 5595167 |
| L4850N-7+50E | 504088 | 5595172 |
| L4850N-8+25E | 504155 | 5595146 |
| L4850N-8+75E | 504204 | 5595152 |
| L4850N-9+25E | 504246 | 5595160 |
| L4850N-9+75E | 504290 | 5595174 |
| L4850N-10+25E | 504340 | 5595200 |
| L4850N-10+75E | 504375 | 5595225 |
| L4850N-11+50E | 504434 | 5595266 |
| L4850N-11+75E | 504451 | 5595273 |
| L4850N-12+25E | 504488 | 5595295 |
| L4850N-12+50E | 504508 | 5595311 |
| L4850N-12+75E | 504527 | 5595326 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| L4850N-13+25E | 504569 | 5595352 |
| L4850N-13+50E | 504592 | 5595362 |
| L4850N-13+75E | 504614 | 5595373 |
| L4850N-14+25E | 504653 | 5595392 |
| L4850N-14+50E | 504670 | 5595401 |
| L4850N-14+75E | 504686 | 5595409 |
| L4850N-15+25E | 504721 | 5595427 |
| L4850N-15+50E | 504740 | 5595437 |
| L4850N-15+75E | 504759 | 5595446 |
| L4850N-16+25E | 504799 | 5595470 |
| L4850N-16+50E | 504819 | 5595484 |
| L4850N-16+75E | 504840 | 5595499 |
| L4850N-17+25E | 504878 | 5595525 |
| L4850N-17+50E | 504896 | 5595537 |
| L6350N-0+25E | 502788 | 5596365 |
| L6350N-0+50E | 502809 | 5596379 |
| L6350N-0+75E | 502831 | 5596394 |
| L6350N-1+25E | 502871 | 5596422 |
| L6350N-1+50E | 502891 | 5596435 |
| L6350N-1+75E | 502910 | 5596449 |
| L6350N-2+25E | 502950 | 5596475 |
| L6350N-2+50E | 502970 | 5596489 |
| L6350N-2+75E | 502991 | 5596502 |
| L6350N-3+25E | 503032 | 5596528 |
| L6350N-3+50E | 503053 | 5596540 |
| L6350N-3+75E | 503074 | 5596553 |
| L6350N-4+25E | 503121 | 5596577 |
| L6350N-4+50E | 503148 | 5596588 |
| L6350N-4+75E | 503174 | 5596600 |
| L6350N-5+25E | 503220 | 5596622 |
| L6350N-5+50E | 503240 | 5596633 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| L6350N-5+75E | 503259 | 5596644 |
| L6350N-6+25E | 503294 | 5596670 |
| L6350N-6+50E | 503308 | 5596684 |
| L6350N-6+75E | 503323 | 5596699 |
| L6350N-7+25E | 503358 | 5596724 |
| L6350N-7+50E | 503378 | 5596736 |
| L6350N-7+75E | 503399 | 5596747 |
| L6350N-8+25E | 503438 | 5596769 |
| L6350N-8+50E | 503458 | 5596779 |
| L6350N-8+75E | 503477 | 5596790 |
| L6350N-9+25E | 503515 | 5596812 |
| L6350N-9+50E | 503535 | 5596824 |
| L6350N-9+75E | 503554 | 5596836 |
| L6350N-10+25E | 503595 | 5596863 |
| L6350N-10+50E | 503617 | 5596879 |
| L6350N-10+75E | 503638 | 5596894 |
| L6350N-11+25E | 503681 | 5596924 |
| L6350N-11+50E | 503703 | 5596938 |
| L6350N-11+75E | 503724 | 5596953 |
| L6350N-12+25E | 503780 | 5596995 |
| L6350N-12+50E | 503816 | 5597023 |
| L6350N-12+75E | 503851 | 5597050 |
| L6350N-13+25E | 503897 | 5597082 |
| L6350N-13+50E | 503908 | 5597085 |
| L6350N-13+75E | 503919 | 5597089 |
| L6350N-14+25E | 503947 | 5597101 |
| L6350N-14+50E | 503964 | 5597110 |
| L6350N-14+75E | 503980 | 5597118 |
| L6350N-15+25E | 504017 | 5597137 |
| L6350N-15+50E | 504037 | 5597148 |
| L6350N-15+75E | 504057 | 5597158 |
| L6350N-16+25E | 504094 | 5597180 |
| L6350N-16+50E | 504112 | 5597191 |
| L6350N-16+75E | 504129 | 5597203 |
| L6350N-17+25E | 504165 | 5597227 |
| L6350N-17+50E | 504184 | 5597240 |
| L6350N-17+75E | 504202 | 5597252 |
| L6350N-18+25E | 504245 | 5597277 |
| L6350N-18+50E | 504269 | 5597289 |
| L6350N-18+75E | 504293 | 5597301 |
| L6350N-19+25E | 504337 | 5597328 |
| L6350N-19+50E | 504358 | 5597343 |
| L6350N-19+75E | 504378 | 5597357 |
| L6350N-20+25E | 504419 | 5597383 |
| L7850N-0+25E | 502049 | 5597862 |
| L7850N-0+50E | 502071 | 5597875 |
| L7850N-0+75E | 502092 | 5597887 |
| L7850N-1+25E | 502134 | 5597913 |
| L7850N-1+50E | 502155 | 5597927 |
| L7850N-1+75E | 502176 | 5597941 |
| L7850N-2+25E | 502220 | 5597964 |
| L7850N-2+50E | 502243 | 5597972 |
| L7850N-2+75E | 502266 | 5597981 |
| L7850N-3+25E | 502310 | 5598003 |
| L7850N-3+50E | 502330 | 5598017 |
| L7850N-3+75E | 502351 | 5598031 |
| L7850N-4+25E | 502390 | 5598058 |
| L7850N-4+50E | 502409 | 5598070 |
| L7850N-4+75E | 502428 | 5598083 |
| L7850N-5+25E | 502465 | 5598106 |
| L7850N-5+50E | 502484 | 5598118 |
| L7850N-5+75E | 502502 | 5598129 |
| L7850N-6+25E | 502541 | 5598146 |
| L7850N-6+50E | 502562 | 5598152 |
| L7850N-6+75E | 502582 | 5598157 |
| L7850N-7+25E | 502630 | 5598178 |
| L7850N-7+50E | 502656 | 5598193 |
| L7850N-7+75E | 502683 | 5598207 |
| L7850N-8+25E | 502722 | 5598229 |
| L7850N-8+50E | 502735 | 5598237 |
| L7850N-8+75E | 502747 | 5598244 |
| L7850N-9+25E | 502781 | 5598267 |
| L7850N-9+50E | 502801 | 5598283 |
| L7850N-9+75E | 502822 | 5598298 |
| L7850N-10+25E | 502861 | 5598320 |
| L7850N-10+50E | 502879 | 5598325 |
| L7850N-10+75E | 502898 | 5598331 |
| L7850N-11+25E | 502935 | 5598344 |
| L7850N-11+50E | 502955 | 5598353 |
| L7850N-11+75E | 502974 | 5598361 |
| L7850N-12+25E | 503011 | 5598380 |
| L7850N-12+50E | 503029 | 5598392 |
| L7850N-12+75E | 503046 | 5598403 |
| L7850N-13+25E | 503897 | 5597082 |
| L7850N-13+50E | 503908 | 5597085 |
| L7850N-13+75E | 503919 | 5597089 |
| L7850N-14+25E | 503159 | 5598481 |
| L7850N-14+50E | 503177 | 5598491 |
| L7850N-14+75E | 503196 | 5598501 |
| L7850N-15+25E | 503237 | 5598523 |
| L7850N-15+50E | 503259 | 5598535 |
| L7850N-15+75E | 503282 | 5598547 |
| L7850N-16+25E | 503318 | 5598562 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **L7850N-17+25E** | 503387 | 5598627 |
| **L7850N-17+75E** | 503387 | 5598632 |
| **BL52+25** | 503396 | 5595225 |
| **BL52+50** | 503401 | 5595250 |
| **BL52+75** | 503406 | 5595275 |
| **BL53+25** | 503399 | 5595325 |
| **BL53+50** | 503395 | 5595350 |
| **BL53+75** | 503393 | 5595375 |
| **BL54+25** | 503364 | 5595425 |
| **BL54+50** | 503358 | 5595450 |
| **BL54+75** | 503349 | 5595475 |
| **BL55+25** | 503319 | 5595525 |
| **BL55+50** | 503303 | 5595550 |
| **BL55+75** | 503289 | 5595575 |
| **BL56+25** | 503260 | 5595625 |
| **BL56+50** | 503241 | 5595650 |
| **BL56+75** | 503226 | 5595675 |
| **BL57+25** | 503208 | 5595725 |
| **BL57+50** | 503199 | 5595750 |
| **BL57+75** | 503193 | 5595775 |
| **BL58+25** | 503150 | 5595825 |
| **BL58+50** | 503129 | 5595850 |
| **BL58+75** | 503111 | 5595875 |
| **BL59+25** | 503083 | 5595925 |
| **BL59+50** | 503062 | 5595950 |
| **BL59+75** | 503047 | 5595975 |
| **BL60+25** | 503021 | 5596025 |
| **BL60+50** | 503002 | 5596050 |
| **BL60+75** | 502994 | 5596075 |
| **BL61+25** | 502965 | 5596125 |
| **BL61+50** | 502951 | 5596150 |
| **BL61+75** | 502927 | 5596175 |
| **BL62+25** | 502897 | 5596225 |
| **BL62+50** | 502869 | 5596250 |
| **BL62+75** | 502841 | 5596275 |
| **BL63+25** | 502799 | 5596325 |
| **BL63+75** | 502750 | 5596375 |
| **BL64+25** | 502700 | 5596425 |
| **BL64+50** | 502680 | 5596450 |
| **BL64+75** | 502652 | 5596475 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **BL65+25** | 502590 | 5596525 |
| **BL65+50** | 502541 | 5596550 |
| **BL65+75** | 502488 | 5596575 |
| **BL66+25** | 502415 | 5596625 |
| **BL66+50** | 502396 | 5596650 |
| **BL66+75** | 502370 | 5596675 |
| **BL67+25** | 502357 | 5596725 |
| **BL67+50** | 502354 | 5596750 |
| **BL67+75** | 502352 | 5596775 |
| **BL68+25** | 502350 | 5596825 |
| **BL68+50** | 502350 | 5596850 |
| **BL68+75** | 502350 | 5596875 |
| **BL69+25** | 502364 | 5596925 |
| **BL69+50** | 502366 | 5596950 |
| **BL69+75** | 502370 | 5596975 |
| **BL70+25** | 502367 | 5597025 |
| **BL70+50** | 502361 | 5597050 |
| **BL71+25** | 502334 | 5597125 |
| **BL71+50** | 502327 | 5597150 |
| **BL71+75** | 502319 | 5597175 |
| **BL72+25** | 502293 | 5597225 |
| **BL72+50** | 502281 | 5597250 |
| **BL72+75** | 502269 | 5597275 |
| **BL73+25** | 502243 | 5597325 |
| **BL73+50** | 502231 | 5597350 |
| **BL73+75** | 502215 | 5597375 |
| **BL74+25** | 502190 | 5597425 |
| **BL74+50** | 502178 | 5597450 |
| **BL74+75** | 502171 | 5597475 |
| **BL75+25** | 502153 | 5597525 |
| **BL75+50** | 502150 | 5597550 |
| **BL75+75** | 502145 | 5597575 |
| **BL76+25** | 502138 | 5597625 |
| **BL76+50** | 502134 | 5597650 |
| **BL76+75** | 502131 | 5597675 |
| **BL77+25** | 502108 | 5597725 |
| **BL77+50** | 502089 | 5597750 |
| **BL77+75** | 502070 | 5597775 |
| **BL78+25** | 502041 | 5597825 |
| **BL78+75** | 502013 | 5597875 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **BL79+25** | 502008 | 5597925 |
| **BL79+50** | 502000 | 5597951 |
| **BL79+75** | 501992 | 5597974 |
| **BL32+75** | 504540 | 5593275 |
| **BL33+25** | 504495 | 5593325 |
| **BL33+50** | 504504 | 5593349 |
| **BL33+75** | 504461 | 5593376 |
| **BL34+25** | 504424 | 5593425 |
| **BL34+50** | 504421 | 5593454 |
| **BL34+75** | 504418 | 5593476 |
| **BL35+25** | 504429 | 5593526 |
| **BL35+50** | 504448 | 5593549 |
| **BL35+75** | 504439 | 5593576 |
| **BL36+25** | 504425 | 5593625 |
| **BL36+50** | 504424 | 5593650 |
| **BL36+75** | 504415 | 5593674 |
| **BL37+25** | 504423 | 5593723 |
| **BL37+50** | 504421 | 5593749 |
| **BL37+75** | 504425 | 5593770 |
| **BL38+25** | 504388 | 5593824 |
| **BL38+50** | 504346 | 5593851 |
| **BL38+75** | 504313 | 5593876 |
| **BL39+25** | 504314 | 5593926 |
| **BL39+50** | 504282 | 5593948 |
| **BL39+75** | 504276 | 5593975 |
| **BL40+25** | 504259 | 5594025 |
| **BL40+50** | 504239 | 5594051 |
| **BL40+75** | 504200 | 5594075 |
| **BL41+25** | 504164 | 5594126 |
| **BL41+50** | 504164 | 5594149 |
| **BL41+75** | 504159 | 5594175 |
| **BL42+25** | 504137 | 5594226 |
| **BL42+50** | 504125 | 5594251 |
| **BL42+75** | 504113 | 5594274 |
| **BL43+25** | 504084 | 5594326 |
| **BL43+50** | 504035 | 5594357 |
| **BL43+75** | 504006 | 5594386 |
| **BL44+25** | 503941 | 5594429 |
| **BL44+50** | 503910 | 5594453 |
| **BL44+75** | 503900 | 5594465 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **BL45+25** | 503832 | 5594529 |
| **BL45+50** | 503810 | 5594560 |
| **BL45+75** | 503793 | 5594575 |
| **BL46+25** | 503760 | 5594629 |
| **BL46+50** | 503744 | 5594651 |
| **BL46+75** | 503739 | 5594670 |
| **BL47+25** | 503654 | 5594729 |
| **BL47+50** | 503576 | 5594742 |
| **BL47+75** | 503535 | 5594776 |
| **BL48+25** | 503492 | 5594842 |
| **BL48+75** | 503440 | 5594875 |
| **BL49+25** | 503489 | 5594925 |
| **BL49+50** | 503450 | 5594950 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **BL49+75** | 503421 | 5594975 |
| **BL50+25** | 503404 | 5595025 |
| **BL50+50** | 503407 | 5595050 |
| **BL50+75** | 503398 | 5595075 |
| **BL51+25** | 503397 | 5595125 |
| **BL51+50** | 503395 | 5595150 |
| **BL51+75** | 503390 | 5595175 |
| **224-AC09-004** | 503483 | 5594976 |
| **224-AC09-007** | 504216 | 5596519 |
| **224-AC09-008** | 504184 | 5596548 |
| **224-AC09-009** | 504168 | 5596582 |
| **224-AC09-011** | 504110 | 5596626 |

| Sample No. | EASTING | NORTHING |
|---|---|---|
| **224-AC09-012** | 504091 | 5596665 |
| **224-AC09-013** | 504070 | 5596696 |
| **224-AC09-015** | 504028 | 5596767 |
| **224-AC09-016** | 503999 | 5596788 |
| **224-AC09-017** | 503963 | 5596806 |
| **224-AC09-019** | 503906 | 5596858 |
| **224-AC09-020** | 503889 | 5596892 |
| **224-AC09-021** | 503875 | 5596930 |
| **224-AC09-023** | 503832 | 5596985 |
| **224-AC09-024** | 503807 | 5597022 |

# Appendix II

Sample Results


## Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

ISO9001:2008 Certified


TO: BRAVEHEART RESOURCES CANADA INC.
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

FILE: 5 3 4 6 9

DATE: September 09 , 2010

ATTN: David Johnston

### 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 48+50N 0+25E | <0.5 | 1.69 | 6 | <1 | <1 | 65 | 2 | 0.48 | <1 | 12 | 22 | 30 | 2.78 | 0.33 | 13 | 0.71 | 498 | 1 | 0.02 | 28 | 0.06 | 53 | <1 | 26 | 30 | 0.06 | <1 | 24 | 4 | 101 |
| L 48+50N 0+50E | <0.5 | 1.72 | 7 | <1 | <1 | 67 | 2 | 0.60 | <1 | 12 | 22 | 31 | 2.80 | 0.40 | 15 | 0.73 | 572 | 1 | 0.02 | 29 | 0.06 | 32 | <1 | 26 | 31 | 0.06 | <1 | 24 | <1 | 87 |
| L 48+50N 0+75E | <0.5 | 1.77 | 8 | <1 | <1 | 66 | 2 | 0.51 | <1 | 13 | 23 | 32 | 2.91 | 0.36 | 15 | 0.77 | 570 | <1 | 0.02 | 32 | 0.06 | 32 | <1 | 29 | 32 | 0.06 | <1 | 25 | <1 | 87 |
| L 48+50N 1+25E | <0.5 | 1.60 | 5 | <1 | <1 | 53 | 2 | 0.26 | <1 | 11 | 20 | 27 | 2.51 | 0.31 | 10 | 0.72 | 389 | <1 | 0.02 | 26 | 0.04 | 25 | 1 | 12 | 27 | 0.06 | <1 | 23 | <1 | 72 |
| L 48+50N 1+50E | <0.5 | 1.50 | 4 | <1 | 1 | 54 | 1 | 1.46 | <1 | 11 | 20 | 29 | 2.57 | 0.44 | 11 | 0.81 | 464 | <1 | 0.02 | 25 | 0.05 | 22 | <1 | 46 | 28 | 0.06 | <1 | 22 | 2 | 66 |
| L 48+50N 1+75E | <0.5 | 1.52 | 4 | <1 | <1 | 54 | 2 | 0.92 | <1 | 11 | 20 | 30 | 2.67 | 0.34 | 11 | 0.81 | 478 | <1 | 0.02 | 26 | 0.05 | 23 | <1 | 31 | 30 | 0.06 | <1 | 22 | <1 | 70 |
| L 48+50N 2+25E | <0.5 | 1.66 | 7 | <1 | <1 | 46 | 1 | 0.51 | <1 | 13 | 21 | 31 | 2.92 | 0.30 | 13 | 0.85 | 371 | <1 | 0.01 | 32 | 0.06 | 26 | <1 | 22 | 31 | 0.06 | <1 | 23 | 4 | 75 |
| L 48+50N 2+50E | <0.5 | 1.75 | 5 | <1 | <1 | 49 | 3 | 0.58 | <1 | 19 | 20 | 43 | 2.55 | 0.34 | 25 | 0.91 | 394 | <1 | 0.01 | 58 | 0.06 | 28 | <1 | 22 | 29 | 0.06 | <1 | 22 | <1 | 78 |
| L 48+50N 2+75E | <0.5 | 1.79 | 8 | <1 | <1 | 69 | 2 | 0.34 | <1 | 12 | 21 | 30 | 2.89 | 0.36 | 16 | 0.77 | 573 | <1 | 0.02 | 29 | 0.06 | 33 | 1 | 18 | 32 | 0.06 | <1 | 25 | <1 | 93 |
| L 48+50N 3+25E | <0.5 | 1.63 | 7 | <1 | <1 | 55 | 2 | 0.35 | <1 | 12 | 20 | 27 | 2.78 | 0.31 | 10 | 0.74 | 513 | <1 | 0.02 | 27 | 0.06 | 31 | 1 | 16 | 30 | 0.05 | <1 | 22 | <1 | 99 |
| L 48+50N 3+75E | <0.5 | 1.80 | 6 | <1 | 6 | 75 | 2 | 0.29 | <1 | 12 | 23 | 28 | 2.89 | 0.39 | 12 | 0.73 | 469 | <1 | 0.02 | 28 | 0.07 | 34 | 1 | 14 | 32 | 0.06 | <1 | 25 | <1 | 112 |
| L 48+50N 4+25E | <0.5 | 1.82 | 6 | <1 | <1 | 71 | 2 | 0.43 | <1 | 13 | 23 | 35 | 2.95 | 0.38 | 16 | 0.72 | 580 | 1 | 0.02 | 30 | 0.07 | 36 | <1 | 20 | 33 | 0.06 | <1 | 25 | <1 | 97 |
| L 48+50N 4+50E | <0.5 | 1.81 | 7 | <1 | <1 | 73 | 2 | 0.33 | <1 | 13 | 23 | 32 | 2.94 | 0.37 | 16 | 0.73 | 541 | <1 | 0.02 | 30 | 0.07 | 33 | 1 | 16 | 33 | 0.06 | <1 | 25 | <1 | 90 |
| L 48+50N 4+75E | <0.5 | 1.83 | 7 | <1 | <1 | 70 | 2 | 0.32 | <1 | 12 | 23 | 32 | 2.90 | 0.36 | 17 | 0.72 | 549 | <1 | 0.02 | 30 | 0.07 | 32 | 1 | 17 | 33 | 0.06 | <1 | 26 | <1 | 90 |
| L 48+50N 5+25E | <0.5 | 1.76 | 6 | <1 | <1 | 59 | 2 | 0.30 | <1 | 12 | 22 | 30 | 2.86 | 0.34 | 14 | 0.72 | 436 | <1 | 0.02 | 29 | 0.06 | 32 | 2 | 16 | 32 | 0.06 | <1 | 25 | 5 | 92 |
| L 48+50N 5+50E | <0.5 | 1.80 | 6 | <1 | <1 | 68 | 2 | 0.26 | <1 | 12 | 23 | 32 | 2.85 | 0.34 | 15 | 0.73 | 495 | <1 | 0.02 | 29 | 0.06 | 32 | 2 | 15 | 32 | 0.06 | <1 | 25 | <1 | 94 |
| L 48+50N 5+75E | <0.5 | 1.83 | 9 | <1 | <1 | 65 | 2 | 0.29 | <1 | 13 | 23 | 35 | 2.96 | 0.32 | 17 | 0.73 | 487 | 1 | 0.02 | 32 | 0.06 | 36 | 1 | 16 | 33 | 0.06 | <1 | 26 | <1 | 91 |
| L 48+50N 6+25E | <0.5 | 1.55 | 3 | <1 | <1 | 55 | 1 | 0.17 | <1 | 10 | 19 | 30 | 2.31 | 0.26 | 8 | 0.67 | 246 | <1 | 0.02 | 24 | 0.05 | 21 | <1 | 10 | 24 | 0.05 | <1 | 28 | <1 | 61 |
| L 48+50N 6+50E | <0.5 | 1.82 | 6 | <1 | <1 | 64 | 2 | 0.29 | <1 | 13 | 23 | 49 | 2.96 | 0.37 | 16 | 0.74 | 496 | <1 | 0.02 | 31 | 0.05 | 34 | 1 | 16 | 33 | 0.06 | <1 | 25 | <1 | 90 |
| L 48+50N 7+25E | <0.5 | 1.56 | 1 | <1 | <1 | 78 | <1 | 0.12 | <1 | 8 | 16 | 13 | 1.70 | 0.19 | 4 | 0.56 | 228 | <1 | 0.02 | 23 | 0.03 | 15 | <1 | 13 | 16 | 0.05 | <1 | 19 | 1 | 80 |
| L 48+50N 7+50E | <0.5 | 1.45 | 1 | <1 | <1 | 43 | <1 | 0.11 | <1 | 13 | 16 | 34 | 2.88 | 0.15 | 5 | 0.62 | 221 | 1 | 0.02 | 36 | 0.03 | 18 | 1 | 9 | 28 | 0.04 | <1 | 19 | <1 | 53 |
| L 48+50N 8+25E | <0.5 | 1.41 | 2 | <1 | <1 | 97 | <1 | 0.14 | <1 | 9 | 16 | 19 | 1.92 | 0.14 | 5 | 0.61 | 280 | <1 | 0.02 | 23 | 0.03 | 20 | <1 | 11 | 19 | 0.04 | <1 | 17 | <1 | 73 |
| L 48+50N 8+75E | <0.5 | 1.48 | <1 | <1 | 7 | 99 | 2 | 0.17 | <1 | 8 | 14 | 13 | 1.60 | 0.13 | 4 | 0.59 | 397 | <1 | 0.02 | 20 | 0.03 | 13 | <1 | 13 | 15 | 0.05 | <1 | 16 | 16 | 113 |
| L 48+50N 9+25E | <0.5 | 2.68 | 3 | <1 | <1 | 165 | <1 | 0.15 | <1 | 10 | 18 | 15 | 2.04 | 0.20 | 5 | 0.50 | 327 | 1 | 0.04 | 41 | 0.08 | 17 | <1 | 15 | 21 | 0.07 | <1 | 25 | <1 | 122 |
| L 48+50N 9+75E | <0.5 | 4.21 | 7 | <1 | <1 | 158 | <1 | 0.23 | <1 | 11 | 18 | 11 | 2.42 | 0.13 | 4 | 0.36 | 327 | 2 | 0.06 | 29 | 0.22 | 23 | <1 | 22 | 25 | 0.10 | <1 | 29 | <1 | 143 |
| L 48+50N 10+25E | <0.5 | 2.23 | 2 | <1 | <1 | 236 | 1 | 0.16 | <1 | 8 | 16 | 10 | 1.83 | 0.19 | 5 | 0.42 | 1042 | <1 | 0.03 | 21 | 0.13 | 14 | <1 | 17 | 18 | 0.06 | <1 | 21 | <1 | 115 |
| L 48+50N 10+75E | <0.5 | 2.45 | 3 | <1 | <1 | 133 | 1 | 0.11 | <1 | 10 | 20 | 11 | 2.13 | 0.17 | 4 | 0.54 | 271 | 1 | 0.03 | 27 | 0.07 | 15 | <1 | 11 | 21 | 0.07 | <1 | 25 | <1 | 91 |
| L 48+50N 11+50E | <0.5 | 2.95 | 1 | <1 | <1 | 234 | 1 | 0.19 | <1 | 10 | 19 | 15 | 2.09 | 0.21 | 3 | 0.67 | 510 | 1 | 0.04 | 28 | 0.17 | 18 | <1 | 21 | 21 | 0.09 | <1 | 24 | <1 | 124 |
| L 48+50N 11+75E | <0.5 | 3.97 | 5 | <1 | <1 | 178 | <1 | 0.21 | <1 | 9 | 16 | 8 | 2.31 | 0.10 | 3 | 0.40 | 796 | 1 | 0.06 | 22 | 0.24 | 17 | <1 | 18 | 22 | 0.11 | <1 | 33 | <1 | 117 |
| L 48+50N 12+25E | <0.5 | 3.05 | 2 | <1 | <1 | 179 | 1 | 0.19 | <1 | 10 | 19 | 15 | 2.21 | 0.21 | 5 | 0.55 | 452 | 1 | 0.04 | 31 | 0.10 | 19 | <1 | 16 | 23 | 0.08 | <1 | 26 | 1 | 109 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Sample received on Aug. 20, 2010

Certified by: _____

ISO9001:2008 Certified

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

ATTN: David Johnston

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 48+50N 12+50E | <0.5 | 2.36 | 4 | <1 | <1 | 116 | 1 | 0.19 | <1 | 10 | 21 | 23 | 2.25 | 0.31 | 8 | 0.62 | 209 | <1 | 0.03 | 24 | 0.05 | 14 | <1 | 15 | 23 | 0.06 | <1 | 29 | 2 | 77 |
| L 48+50N 12+75E | <0.5 | 2.19 | 2 | <1 | <1 | 152 | 1 | 0.11 | <1 | 8 | 16 | 12 | 1.85 | 0.18 | 5 | 0.45 | 303 | 1 | 0.03 | 19 | 0.09 | 14 | <1 | 11 | 18 | 0.07 | <1 | 24 | 3 | 102 |
| L 48+50N 13+25E | <0.5 | 2.13 | <1 | <1 | 10 | 144 | 2 | 0.10 | <1 | 9 | 18 | 9 | 1.91 | 0.21 | 4 | 0.44 | 233 | 1 | 0.03 | 28 | 0.03 | 15 | <1 | 14 | 19 | 0.06 | <1 | 21 | <1 | 101 |
| L 48+50N 13+50E | <0.5 | 1.21 | 2 | <1 | <1 | 74 | 2 | 0.05 | <1 | 6 | 14 | 8 | 1.72 | 0.14 | 5 | 0.46 | 309 | <1 | 0.02 | 16 | 0.03 | 12 | <1 | 7 | 16 | 0.03 | <1 | 14 | 1 | 90 |
| L 48+50N 13+75E | <0.5 | 4.92 | 9 | <1 | <1 | 218 | <1 | 0.09 | <1 | 10 | 17 | 14 | 2.28 | 0.07 | 4 | 0.33 | 655 | 2 | 0.08 | 33 | 0.29 | 17 | <1 | 15 | 22 | 0.11 | <1 | 29 | <1 | 217 |
| L 48+50N 14+25E | <0.5 | 1.32 | 2 | <1 | <1 | 90 | 1 | 0.09 | <1 | 7 | 15 | 13 | 1.82 | 0.14 | 5 | 0.46 | 321 | <1 | 0.02 | 23 | 0.03 | 16 | <1 | 12 | 18 | 0.03 | <1 | 16 | <1 | 67 |
| L 48+50N 14+50E | <0.5 | 1.66 | 5 | <1 | <1 | 74 | <1 | 0.06 | <1 | 9 | 18 | 24 | 2.36 | 0.15 | 5 | 0.52 | 229 | 1 | 0.02 | 30 | 0.03 | 23 | 1 | 7 | 24 | 0.04 | <1 | 19 | <1 | 70 |
| L 48+50N 14+75E | <0.5 | 2.46 | 3 | <1 | <1 | 122 | 1 | 0.14 | <1 | 11 | 20 | 23 | 2.40 | 0.19 | 7 | 0.57 | 285 | 1 | 0.03 | 41 | 0.05 | 19 | 1 | 17 | 24 | 0.06 | <1 | 21 | <1 | 115 |
| L 48+50N 15+25E | <0.5 | 1.58 | 5 | <1 | <1 | 125 | 2 | 0.09 | <1 | 8 | 15 | 16 | 2.09 | 0.13 | 4 | 0.37 | 504 | <1 | 0.03 | 22 | 0.10 | 25 | <1 | 15 | 21 | 0.04 | <1 | 19 | <1 | 82 |
| L 48+50N 15+50E | <0.5 | 2.10 | 3 | <1 | <1 | 175 | <1 | 0.10 | <1 | 10 | 17 | 12 | 1.97 | 0.13 | 4 | 0.45 | 654 | <1 | 0.03 | 33 | 0.10 | 18 | <1 | 16 | 19 | 0.06 | <1 | 20 | <1 | 191 |
| L 48+50N 15+75E | <0.5 | 2.73 | 4 | <1 | 1 | 212 | 1 | 0.18 | <1 | 9 | 17 | 13 | 1.98 | 0.11 | 7 | 0.41 | 616 | 1 | 0.04 | 34 | 0.18 | 21 | <1 | 30 | 20 | 0.08 | <1 | 22 | <1 | 184 |
| L 48+50N 16+25E | <0.5 | 3.58 | 8 | <1 | <1 | 164 | <1 | 0.16 | <1 | 11 | 18 | 16 | 2.50 | 0.10 | 4 | 0.44 | 411 | 1 | 0.05 | 41 | 0.11 | 20 | <1 | 22 | 25 | 0.11 | <1 | 28 | <1 | 101 |
| L 48+50N 16+50E | <0.5 | 2.02 | 6 | <1 | <1 | 119 | <1 | 0.12 | <1 | 10 | 18 | 16 | 2.25 | 0.16 | 6 | 0.54 | 460 | <1 | 0.02 | 34 | 0.03 | 21 | <1 | 18 | 22 | 0.05 | <1 | 21 | <1 | 89 |
| L 48+50N 16+75E | <0.5 | 2.62 | 5 | <1 | <1 | 198 | 2 | 0.12 | <1 | 10 | 16 | 7 | 1.71 | 0.08 | 4 | 0.25 | 1893 | 1 | 0.05 | 19 | 0.20 | 19 | <1 | 19 | 17 | 0.09 | <1 | 25 | <1 | 261 |
| L 48+50N 17+25E | <0.5 | 2.34 | 5 | <1 | <1 | 180 | 1 | 0.10 | <1 | 9 | 16 | 16 | 2.17 | 0.11 | 5 | 0.40 | 1153 | 1 | 0.04 | 28 | 0.11 | 19 | <1 | 17 | 21 | 0.07 | <1 | 24 | <1 | 104 |
| L 48+50N 17+50E | <0.5 | 2.26 | 4 | <1 | <1 | 196 | 1 | 0.08 | <1 | 11 | 18 | 16 | 2.06 | 0.13 | 5 | 0.46 | 541 | <1 | 0.04 | 35 | 0.08 | 17 | <1 | 14 | 20 | 0.07 | <1 | 22 | 1 | 219 |
| L 63+50N 0+25E | <0.5 | 1.96 | 1 | <1 | <1 | 118 | 2 | 0.11 | <1 | 9 | 18 | 14 | 2.02 | 0.17 | 7 | 0.52 | 428 | <1 | 0.02 | 21 | 0.05 | 12 | <1 | 11 | 21 | 0.05 | <1 | 21 | <1 | 119 |
| L 63+50N 0+50E | <0.5 | 3.13 | 4 | <1 | <1 | 229 | 2 | 0.17 | <1 | 12 | 21 | 26 | 2.54 | 0.22 | 8 | 0.56 | 392 | 1 | 0.04 | 37 | 0.06 | 15 | <1 | 27 | 27 | 0.08 | <1 | 26 | <1 | 103 |
| L 63+50N 0+75E | <0.5 | 2.80 | <1 | <1 | <1 | 157 | 2 | 0.20 | <1 | 11 | 19 | 11 | 2.19 | 0.20 | 7 | 0.49 | 517 | 1 | 0.04 | 45 | 0.06 | 14 | <1 | 25 | 23 | 0.08 | <1 | 25 | <1 | 130 |
| L 63+50N 1+25E | <0.5 | 2.72 | 3 | <1 | <1 | 152 | 2 | 0.11 | <1 | 10 | 21 | 19 | 2.34 | 0.20 | 5 | 0.57 | 333 | 1 | 0.03 | 33 | 0.08 | 17 | 1 | 14 | 23 | 0.07 | <1 | 27 | <1 | 95 |
| L 63+50N 1+50E | <0.5 | 1.65 | <1 | <1 | <1 | 144 | 2 | 0.10 | <1 | 7 | 14 | 10 | 1.58 | 0.14 | 5 | 0.39 | 287 | <1 | 0.04 | 18 | 0.06 | 12 | <1 | 14 | 15 | 0.06 | <1 | 22 | <1 | 93 |
| L 63+50N 1+75E | <0.5 | 1.39 | 1 | <1 | <1 | 89 | 3 | 0.24 | <1 | 9 | 19 | 15 | 1.90 | 0.17 | 7 | 0.61 | 296 | <1 | 0.02 | 16 | 0.03 | 12 | 1 | 16 | 19 | 0.06 | <1 | 24 | <1 | 59 |
| L 63+50N 2+25E | <0.5 | 1.55 | 3 | <1 | 4 | 208 | 2 | 0.20 | <1 | 8 | 13 | 10 | 1.62 | 0.11 | 5 | 0.39 | 1419 | <1 | 0.02 | 19 | 0.09 | 16 | <1 | 20 | 16 | 0.05 | <1 | 19 | <1 | 168 |
| L 63+50N 2+50E | <0.5 | 2.85 | 9 | <1 | <1 | 257 | 2 | 0.16 | <1 | 10 | 17 | 16 | 2.35 | 0.15 | 4 | 0.50 | 697 | 1 | 0.04 | 35 | 0.26 | 19 | <1 | 21 | 24 | 0.07 | <1 | 24 | 2 | 124 |
| L 63+50N 2+75E | <0.5 | 2.09 | 5 | <1 | <1 | 126 | 2 | 0.14 | <1 | 12 | 16 | 32 | 2.62 | 0.19 | 5 | 0.57 | 322 | 1 | 0.02 | 30 | 0.07 | 28 | 1 | 14 | 27 | 0.06 | <1 | 27 | <1 | 80 |
| L 63+50N 3+25E | <0.5 | 2.05 | 3 | <1 | <1 | 252 | 3 | 0.25 | <1 | 8 | 15 | 14 | 1.88 | 0.14 | 6 | 0.44 | 1439 | <1 | 0.04 | 25 | 0.13 | 17 | <1 | 34 | 19 | 0.06 | <1 | 21 | <1 | 137 |
| L 63+50N 3+50E | <0.5 | 3.58 | 4 | <1 | <1 | 175 | 3 | 0.18 | <1 | 11 | 19 | 23 | 2.63 | 0.22 | 6 | 0.57 | 350 | 2 | 0.03 | 41 | 0.09 | 22 | 1 | 22 | 29 | 0.08 | <1 | 27 | 2 | 92 |
| L 63+50N 3+75E | <0.5 | 1.35 | 3 | <1 | 29 | 53 | 2 | 0.15 | <1 | 9 | 17 | 31 | 2.49 | 0.24 | 14 | 0.67 | 224 | 1 | 0.02 | 26 | 0.02 | 19 | 2 | 12 | 27 | 0.04 | <1 | 20 | 4 | 56 |
| L 63+50N 4+25E | <0.5 | 1.72 | 3 | <1 | 19 | 117 | <1 | 0.09 | <1 | 8 | 17 | 16 | 2.14 | 0.18 | 5 | 0.56 | 226 | <1 | 0.02 | 27 | 0.06 | 15 | <1 | 11 | 21 | 0.05 | <1 | 19 | <1 | 93 |
| L 63+50N 4+50E | <0.5 | 2.74 | 4 | <1 | 27 | 223 | <1 | 0.15 | <1 | 9 | 19 | 14 | 2.30 | 0.22 | 9 | 0.52 | 990 | 1 | 0.04 | 37 | 0.12 | 17 | <1 | 19 | 23 | 0.08 | <1 | 26 | <1 | 141 |
| L 63+50N 4+75E | <0.5 | 1.49 | 3 | <1 | 25 | 70 | 1 | 0.86 | <1 | 10 | 19 | 29 | 2.45 | 0.35 | 12 | 0.69 | 386 | <1 | 0.02 | 25 | 0.04 | 18 | 1 | 39 | 26 | 0.04 | <1 | 21 | 1 | 58 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Sample received on Aug. 20, 2010

Certified by: _____

ISO9001:2008 Certified

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

ATTN: David Johnston

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 63+50N 5+25E | <0.5 | 1.66 | 3 | <1 | 22 | 79 | <1 | 0.06 | <1 | 10 | 18 | 21 | 2.54 | 0.19 | 5 | 0.66 | 277 | <1 | 0.02 | 31 | 0.09 | 22 | 1 | 8 | 25 | 0.05 | <1 | 20 | <1 | 88 |
| L 63+50N 5+50E | <0.5 | 1.62 | 2 | <1 | 10 | 99 | <1 | 0.05 | <1 | 9 | 17 | 14 | 2.07 | 0.16 | 4 | 0.61 | 548 | <1 | 0.02 | 26 | 0.04 | 12 | <1 | 8 | 20 | 0.04 | <1 | 18 | <1 | 109 |
| L 63+50N 5+75E | <0.5 | 1.50 | 2 | <1 | 13 | 118 | <1 | 0.04 | <1 | 8 | 15 | 11 | 1.88 | 0.15 | 4 | 0.48 | 368 | <1 | 0.02 | 24 | 0.07 | 11 | <1 | 8 | 18 | 0.04 | <1 | 17 | <1 | 94 |
| L 63+50N 6+25E | <0.5 | 2.61 | 3 | <1 | 29 | 277 | <1 | 0.08 | <1 | 12 | 33 | 12 | 2.96 | 0.22 | 5 | 0.54 | 812 | 1 | 0.04 | 54 | 0.22 | 24 | 2 | 12 | 29 | 0.08 | <1 | 27 | <1 | 293 |
| L 63+50N 6+50E | <0.5 | 2.69 | 2 | <1 | <1 | 212 | 1 | 0.20 | <1 | 9 | 18 | 20 | 2.15 | 0.18 | 7 | 0.42 | 932 | 1 | 0.05 | 33 | 0.09 | 18 | <1 | 23 | 22 | 0.09 | <1 | 25 | <1 | 219 |
| L 63+50N 6+75E | <0.5 | 2.75 | 2 | <1 | <1 | 215 | <1 | 0.23 | <1 | 9 | 15 | 12 | 1.99 | 0.19 | 4 | 0.49 | 532 | 1 | 0.06 | 33 | 0.09 | 20 | <1 | 24 | 19 | 0.11 | <1 | 24 | <1 | 173 |
| L 63+50N 7+25E | <0.5 | 3.44 | 5 | <1 | <1 | 237 | <1 | 0.12 | <1 | 11 | 19 | 26 | 2.46 | 0.20 | 4 | 0.64 | 655 | 1 | 0.06 | 40 | 0.22 | 17 | <1 | 14 | 24 | 0.10 | <1 | 26 | <1 | 148 |
| L 63+50N 7+50E | <0.5 | 2.92 | 4 | <1 | 25 | 273 | 1 | 0.12 | <1 | 11 | 21 | 22 | 2.44 | 0.22 | 4 | 0.98 | 831 | 1 | 0.03 | 34 | 0.21 | 15 | 1 | 13 | 24 | 0.09 | <1 | 25 | <1 | 158 |
| L 63+50N 7+75E | <0.5 | 2.12 | <1 | <1 | 17 | 127 | 1 | 0.14 | <1 | 10 | 19 | 10 | 1.83 | 0.16 | 4 | 1.23 | 639 | <1 | 0.03 | 19 | 0.04 | 11 | <1 | 10 | 17 | 0.09 | <1 | 24 | <1 | 85 |
| L 63+50N 8+25E | <0.5 | 2.79 | 6 | <1 | 37 | 295 | 4 | 1.52 | <1 | 12 | 30 | 49 | 3.30 | 0.59 | 32 | 1.09 | 755 | 2 | 0.03 | 38 | 0.06 | 30 | 1 | 34 | 36 | 0.08 | <1 | 32 | 5 | 84 |
| L 63+50N 8+50E | <0.5 | 2.91 | <1 | <1 | 14 | 214 | 2 | 0.39 | <1 | 11 | 18 | 22 | 2.41 | 0.29 | 5 | 2.00 | 987 | 2 | 0.03 | 24 | 0.04 | 19 | <1 | 13 | 23 | 0.10 | <1 | 24 | <1 | 98 |
| L 63+50N 8+75E | <0.5 | 3.76 | 2 | <1 | <1 | 263 | 1 | 0.16 | <1 | 12 | 20 | 24 | 2.67 | 0.26 | 5 | 1.33 | 615 | 2 | 0.04 | 32 | 0.10 | 17 | <1 | 10 | 27 | 0.12 | <1 | 30 | <1 | 148 |
| L 63+50N 9+25E | <0.5 | 2.79 | 1 | <1 | 28 | 155 | <1 | 0.21 | <1 | 13 | 31 | 17 | 2.75 | 0.27 | 5 | 1.62 | 345 | 1 | 0.02 | 31 | 0.06 | 21 | 1 | 9 | 26 | 0.10 | <1 | 33 | <1 | 110 |
| L 63+50N 9+50E | <0.5 | 2.39 | 4 | <1 | <1 | 251 | <1 | 0.12 | <1 | 12 | 20 | 13 | 2.63 | 0.22 | 5 | 0.49 | 1104 | 1 | 0.05 | 30 | 0.15 | 34 | 1 | 10 | 25 | 0.08 | <1 | 24 | <1 | 209 |
| L 63+50N 9+75E | <0.5 | 1.90 | 4 | <1 | <1 | 100 | 2 | 0.15 | <1 | 10 | 19 | 21 | 2.52 | 0.22 | 8 | 0.64 | 376 | 1 | 0.03 | 27 | 0.04 | 19 | 1 | 7 | 26 | 0.05 | <1 | 20 | <1 | 115 |
| L 63+50N 10+25E | <0.5 | 2.04 | 3 | <1 | <1 | 114 | 2 | 0.31 | <1 | 10 | 22 | 27 | 2.81 | 0.27 | 16 | 0.66 | 690 | 1 | 0.03 | 27 | 0.02 | 21 | 1 | 9 | 30 | 0.05 | <1 | 22 | <1 | 70 |
| L 63+50N 10+50E | <0.5 | 2.63 | 2 | <1 | <1 | 150 | 1 | 0.22 | <1 | 9 | 17 | 12 | 2.25 | 0.18 | 4 | 0.43 | 802 | 1 | 0.05 | 24 | 0.09 | 19 | <1 | 10 | 21 | 0.07 | <1 | 24 | <1 | 148 |
| L 63+50N 10+75E | <0.5 | 2.97 | 2 | <1 | 5 | 113 | <1 | 0.26 | <1 | 13 | 23 | 9 | 2.95 | 0.20 | 4 | 0.61 | 211 | 2 | 0.03 | 21 | 0.02 | 23 | 1 | 9 | 27 | 0.08 | <1 | 32 | <1 | 98 |
| L 63+50N 11+25E | <0.5 | 2.16 | 2 | <1 | 7 | 128 | 4 | 0.18 | <1 | 11 | 20 | 22 | 2.40 | 0.37 | 11 | 0.83 | 476 | 1 | 0.03 | 22 | 0.04 | 15 | 1 | 9 | 26 | 0.07 | <1 | 26 | 1 | 76 |
| L 63+50N 11+50E | <0.5 | 4.42 | 4 | <1 | 1 | 198 | 4 | 0.13 | <1 | 13 | 27 | 29 | 3.12 | 0.30 | 9 | 0.73 | 816 | 2 | 0.07 | 35 | 0.11 | 43 | 1 | 12 | 33 | 0.10 | <1 | 36 | <1 | 171 |
| L 63+50N 11+75E | <0.5 | 1.12 | 5 | <1 | <1 | 125 | 4 | 0.19 | <1 | 8 | 16 | 12 | 1.79 | 0.15 | 4 | 0.45 | 2280 | <1 | 0.03 | 14 | 0.04 | 29 | 1 | 11 | 16 | 0.06 | <1 | 25 | 8 | 76 |
| L 63+50N 12+25E | <0.5 | 3.45 | 4 | <1 | 4 | 190 | 4 | 0.09 | 1 | 12 | 24 | 23 | 2.69 | 0.27 | 9 | 0.52 | 748 | 2 | 0.05 | 31 | 0.11 | 57 | 1 | 9 | 28 | 0.08 | <1 | 29 | <1 | 207 |
| L 63+50N 12+50E | <0.5 | 2.66 | 4 | <1 | 53 | 165 | 2 | 0.09 | <1 | 13 | 44 | 27 | 3.37 | 0.33 | 5 | 0.86 | 623 | 1 | 0.04 | 33 | 0.11 | 42 | 1 | 10 | 32 | 0.08 | <1 | 44 | <1 | 182 |
| L 63+50N 12+75E | <0.5 | 2.34 | 4 | <1 | 32 | 125 | 5 | 0.13 | <1 | 13 | 29 | 47 | 3.13 | 0.31 | 11 | 0.91 | 286 | 2 | 0.02 | 34 | 0.04 | 36 | 2 | 9 | 33 | 0.06 | <1 | 31 | <1 | 83 |
| L 63+50N 13+25E | <0.5 | 3.22 | 2 | <1 | 45 | 191 | 5 | 0.09 | <1 | 15 | 44 | 28 | 3.29 | 0.37 | 7 | 0.70 | 525 | 2 | 0.04 | 42 | 0.04 | 33 | 2 | 10 | 33 | 0.08 | <1 | 39 | <1 | 159 |
| L 63+50N 13+50E | <0.5 | 3.33 | 2 | <1 | 45 | 234 | 2 | 0.09 | 1 | 18 | 36 | 20 | 3.85 | 0.35 | 3 | 0.71 | 1320 | 2 | 0.04 | 34 | 0.18 | 34 | 2 | 10 | 35 | 0.09 | <1 | 55 | <1 | 275 |
| L 63+50N 13+75E | <0.5 | 3.80 | 2 | <1 | 49 | 316 | 2 | 0.17 | 1 | 25 | 31 | 84 | 4.16 | 0.36 | 12 | 0.81 | 2380 | 2 | 0.04 | 36 | 0.19 | 32 | 2 | 18 | 41 | 0.09 | <1 | 43 | <1 | 276 |
| L 63+50N 14+25E | <0.5 | 2.86 | 2 | <1 | 50 | 201 | 2 | 0.11 | <1 | 15 | 30 | 15 | 3.72 | 0.32 | 5 | 0.63 | 964 | 2 | 0.04 | 25 | 0.06 | 38 | 2 | 12 | 34 | 0.09 | <1 | 51 | <1 | 169 |
| L 63+50N 14+50E | <0.5 | 2.59 | 3 | <1 | 65 | 277 | 4 | 0.08 | <1 | 15 | 28 | 11 | 3.03 | 0.27 | 8 | 0.52 | 3006 | 1 | 0.04 | 32 | 0.16 | 40 | 2 | 13 | 28 | 0.07 | <1 | 30 | <1 | 258 |
| L 63+50N 14+75E | <0.5 | 2.30 | 3 | <1 | 40 | 153 | 5 | 0.11 | <1 | 12 | 25 | 15 | 2.77 | 0.24 | 5 | 0.71 | 628 | 1 | 0.04 | 30 | 0.07 | 22 | 2 | 14 | 25 | 0.06 | <1 | 29 | <1 | 115 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Certified by: _____

Sample received on Aug. 20, 2010

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

ISO9001:2008 Certified

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

ATTN: David Johnston

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 63+50N 15+25E | <0.5 | 2.25 | 3 | <1 | 45 | 126 | 4 | 0.13 | <1 | 14 | 36 | 23 | 3.55 | 0.23 | 7 | 0.86 | 643 | 1 | 0.03 | 35 | 0.08 | 21 | 2 | 15 | 33 | 0.06 | <1 | 31 | <1 | 123 |
| L 63+50N 15+50E | <0.5 | 3.89 | 5 | <1 | 50 | 260 | 4 | 0.15 | <1 | 17 | 37 | 18 | 3.51 | 0.27 | 6 | 0.62 | 1798 | 2 | 0.08 | 39 | 0.22 | 32 | 2 | 23 | 33 | 0.14 | <1 | 40 | <1 | 215 |
| L 63+50N 15+75E | <0.5 | 3.54 | 3 | <1 | 69 | 202 | 3 | 0.19 | <1 | 22 | 82 | 33 | 4.03 | 0.32 | 7 | 1.56 | 895 | 2 | 0.04 | 79 | 0.06 | 32 | 3 | 20 | 39 | 0.11 | <1 | 52 | <1 | 118 |
| L 63+50N 16+25E | <0.5 | 3.43 | 3 | <1 | 93 | 126 | <1 | 0.29 | <1 | 25 | 34 | 44 | 6.05 | 0.23 | 6 | 1.03 | 574 | 3 | 0.03 | 90 | 0.11 | 44 | 5 | 41 | 59 | 0.07 | <1 | 34 | <1 | 167 |
| L 63+50N 16+50E | <0.5 | 3.80 | <1 | <1 | 44 | 366 | 3 | 0.43 | <1 | 20 | 70 | 26 | 3.76 | 0.27 | 6 | 1.78 | 2706 | 2 | 0.04 | 58 | 0.13 | 33 | 2 | 34 | 36 | 0.14 | <1 | 58 | <1 | 200 |
| L 63+50N 16+75E | <0.5 | 4.66 | <1 | <1 | 62 | 197 | 3 | 0.46 | <1 | 22 | 116 | 60 | 4.91 | 0.60 | 7 | 3.41 | 660 | 4 | 0.02 | 79 | 0.05 | 41 | 3 | 22 | 50 | 0.15 | <1 | 89 | <1 | 132 |
| L 63+50N 17+25E | <0.5 | 3.84 | 6 | <1 | 64 | 183 | 4 | 0.17 | <1 | 17 | 32 | 28 | 3.79 | 0.33 | 6 | 0.61 | 864 | 2 | 0.05 | 46 | 0.11 | 37 | 3 | 14 | 37 | 0.08 | <1 | 42 | <1 | 331 |
| L 63+50N 17+50E | <0.5 | 3.11 | 3 | <1 | 46 | 210 | 5 | 0.05 | <1 | 15 | 24 | 22 | 3.37 | 0.28 | 8 | 0.44 | 1999 | 1 | 0.05 | 29 | 0.07 | 29 | 2 | 8 | 32 | 0.08 | <1 | 39 | <1 | 181 |
| L 63+50N 17+75E | <0.5 | 3.13 | 6 | <1 | 52 | 166 | 3 | 0.10 | <1 | 17 | 27 | 14 | 3.93 | 0.32 | 6 | 0.57 | 774 | 2 | 0.04 | 39 | 0.09 | 32 | 3 | 13 | 37 | 0.08 | <1 | 39 | <1 | 212 |
| L 63+50N 18+25E | <0.5 | 2.45 | 5 | <1 | 51 | 147 | 4 | 0.06 | <1 | 12 | 21 | 11 | 3.39 | 0.27 | 5 | 0.36 | 737 | 2 | 0.04 | 20 | 0.06 | 49 | 2 | 10 | 31 | 0.07 | <1 | 39 | <1 | 155 |
| L 63+50N 18+50E | <0.5 | 3.62 | 8 | <1 | 36 | 135 | 4 | 0.04 | <1 | 13 | 24 | 22 | 3.71 | 0.28 | 6 | 0.50 | 917 | 2 | 0.05 | 26 | 0.12 | 28 | 2 | 9 | 35 | 0.08 | <1 | 36 | <1 | 121 |
| L 63+50N 18+75E | <0.5 | 3.58 | 3 | <1 | 53 | 135 | 5 | 0.04 | <1 | 13 | 26 | 19 | 3.91 | 0.37 | 9 | 0.51 | 632 | 2 | 0.05 | 28 | 0.08 | 27 | 2 | 7 | 40 | 0.08 | <1 | 39 | <1 | 145 |
| L 63+50N 19+25E | <0.5 | 3.04 | 3 | <1 | 50 | 243 | 1 | 0.24 | <1 | 19 | 24 | 31 | 4.19 | 0.30 | 4 | 0.60 | 2036 | 1 | 0.04 | 29 | 0.09 | 24 | 2 | 18 | 37 | 0.11 | <1 | 80 | <1 | 178 |
| L 63+50N 19+50E | <0.5 | 3.01 | 6 | <1 | 60 | 183 | <1 | 0.07 | <1 | 21 | 23 | 35 | 4.90 | 0.36 | 2 | 0.65 | 1863 | 2 | 0.04 | 28 | 0.08 | 32 | 3 | 7 | 43 | 0.11 | <1 | 103 | 2 | 219 |
| L 63+50N 19+75E | <0.5 | 2.71 | 5 | <1 | 47 | 91 | 3 | 0.02 | <1 | 10 | 25 | 28 | 4.68 | 0.34 | 3 | 0.62 | 206 | 2 | 0.03 | 26 | 0.09 | 24 | 3 | 5 | 45 | 0.06 | <1 | 41 | 5 | 121 |
| L 63+50N 20+25E | <0.5 | 0.96 | 4 | <1 | 29 | 58 | 5 | 0.04 | <1 | 6 | 12 | 9 | 2.51 | 0.15 | 5 | 0.27 | 220 | 1 | 0.04 | 14 | 0.08 | 20 | 1 | 8 | 23 | 0.04 | <1 | 27 | <1 | 73 |
| L 78+50N 0+25E | <0.5 | 3.64 | 5 | <1 | 56 | 230 | 5 | 0.23 | <1 | 13 | 24 | 19 | 3.12 | 0.30 | 5 | 0.66 | 533 | 1 | 0.05 | 44 | 0.14 | 75 | 2 | 24 | 30 | 0.08 | <1 | 33 | <1 | 181 |
| L 78+50N 0+50E | <0.5 | 5.16 | 6 | <1 | 45 | 307 | 3 | 0.24 | <1 | 15 | 27 | 20 | 3.86 | 0.35 | 4 | 0.65 | 563 | 2 | 0.07 | 58 | 0.24 | 22 | 2 | 36 | 36 | 0.10 | <1 | 38 | 2 | 236 |
| L 78+50N 0+75E | <0.5 | 4.43 | 6 | <1 | 42 | 265 | 3 | 0.31 | <1 | 15 | 34 | 41 | 3.96 | 0.44 | 17 | 0.77 | 934 | 2 | 0.07 | 50 | 0.10 | 27 | 1 | 32 | 37 | 0.10 | <1 | 48 | <1 | 211 |
| L 78+50N 1+25E | <0.5 | 3.27 | 4 | <1 | 35 | 200 | 5 | 0.20 | <1 | 13 | 27 | 30 | 3.21 | 0.30 | 6 | 0.75 | 475 | 1 | 0.05 | 40 | 0.06 | 20 | 1 | 17 | 29 | 0.07 | <1 | 37 | <1 | 164 |
| L 78+50N 1+50E | <0.5 | 2.36 | 9 | <1 | 204 | 324 | 1 | 2.13 | <1 | 11 | 26 | 36 | 2.61 | 0.79 | 19 | 0.82 | 2159 | <1 | 0.16 | 24 | 0.24 | 12 | 2 | 149 | 24 | 0.07 | <1 | 40 | 9 | 73 |
| L 78+50N 1+75E | <0.5 | 2.68 | 4 | <1 | 46 | 179 | <1 | 0.20 | <1 | 13 | 29 | 34 | 3.06 | 0.43 | 5 | 0.91 | 305 | 1 | 0.07 | 35 | 0.05 | 24 | 1 | 19 | 28 | 0.06 | <1 | 43 | 5 | 106 |
| L 78+50N 2+25E | <0.5 | 2.14 | 4 | <1 | 89 | 136 | <1 | 0.13 | <1 | 9 | 23 | 15 | 2.41 | 0.35 | 3 | 0.62 | 273 | 1 | 0.06 | 22 | 0.05 | 17 | 1 | 13 | 21 | 0.06 | <1 | 40 | 6 | 100 |
| L 78+50N 2+50E | <0.5 | 2.68 | 4 | <1 | 3 | 149 | <1 | 0.17 | <1 | 13 | 25 | 21 | 2.65 | 0.38 | 6 | 0.76 | 277 | 1 | 0.08 | 27 | 0.06 | 19 | 2 | 18 | 24 | 0.07 | <1 | 40 | 2 | 88 |
| L 78+50N 2+75E | <0.5 | 4.80 | 8 | <1 | <1 | 203 | <1 | 0.15 | <1 | 11 | 75 | 21 | 2.90 | 0.40 | 4 | 0.47 | 451 | 3 | 0.16 | 78 | 0.18 | 17 | 2 | 21 | 26 | 0.10 | <1 | 42 | 2 | 158 |
| L 78+50N 3+25E | <0.5 | 3.58 | 4 | <1 | <1 | 238 | <1 | 0.16 | <1 | 13 | 40 | 14 | 2.98 | 0.44 | 4 | 0.72 | 764 | 1 | 0.10 | 44 | 0.12 | 19 | 2 | 25 | 26 | 0.08 | <1 | 40 | <1 | 152 |
| L 78+50N 3+50E | <0.5 | 2.80 | 6 | <1 | <1 | 148 | <1 | 0.21 | <1 | 12 | 24 | 21 | 2.91 | 0.37 | 5 | 0.69 | 347 | 1 | 0.08 | 35 | 0.06 | 19 | 2 | 24 | 27 | 0.06 | <1 | 34 | 2 | 105 |
| L 78+50N 3+75E | <0.5 | 4.64 | 6 | <1 | <1 | 258 | <1 | 0.15 | <1 | 11 | 27 | 15 | 3.11 | 0.39 | 4 | 0.40 | 541 | 2 | 0.14 | 34 | 0.15 | 19 | 2 | 22 | 28 | 0.10 | <1 | 40 | <1 | 185 |
| L 78+50N 4+25E | <0.5 | 2.92 | 4 | <1 | <1 | 212 | <1 | 0.12 | <1 | 10 | 20 | 14 | 2.81 | 0.40 | 6 | 0.59 | 843 | 1 | 0.11 | 30 | 0.09 | 15 | 2 | 21 | 25 | 0.06 | <1 | 30 | <1 | 124 |
| L 78+50N 4+50E | <0.5 | 3.02 | 6 | <1 | <1 | 242 | <1 | 0.15 | <1 | 11 | 20 | 15 | 2.61 | 0.37 | 7 | 0.54 | 1503 | 1 | 0.11 | 32 | 0.21 | 15 | 2 | 26 | 24 | 0.07 | <1 | 29 | <1 | 153 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Sample received on Aug. 20, 2010

Certified by: _____

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net


ISO9001:2008 Certified

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

ATTN: David Johnston

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 78+50N 4+75E | <0.5 | 2.68 | 4 | <1 | <1 | 290 | <1 | 0.13 | <1 | 10 | 20 | 11 | 2.42 | 0.37 | 5 | 0.52 | 839 | 1 | 0.13 | 36 | 0.17 | 17 | 2 | 26 | 21 | 0.08 | <1 | 31 | 3 | 275 |
| L 78+50N 5+25E | <0.5 | 5.35 | 2 | <1 | <1 | 191 | 1 | 0.18 | <1 | 11 | 22 | 28 | 3.94 | 0.44 | 24 | 0.66 | 398 | 2 | 0.22 | 52 | 0.12 | 15 | 2 | 59 | 42 | 0.10 | <1 | 32 | <1 | 123 |
| L 78+50N 5+50E | <0.5 | 3.17 | <1 | <1 | <1 | 214 | <1 | 0.25 | <1 | 11 | 22 | 15 | 3.67 | 0.43 | 8 | 0.73 | 519 | 2 | 0.12 | 60 | 0.05 | 17 | 2 | 66 | 33 | 0.07 | <1 | 30 | <1 | 160 |
| L 78+50N 5+75E | <0.5 | 1.65 | <1 | <1 | <1 | 188 | <1 | 0.12 | <1 | 7 | 19 | 9 | 2.26 | 0.28 | 4 | 0.36 | 744 | 1 | 0.12 | 29 | 0.04 | 12 | 1 | 28 | 19 | 0.05 | <1 | 26 | <1 | 105 |
| L 78+50N 6+25E | <0.5 | 1.87 | 2 | <1 | <1 | 117 | <1 | 0.09 | <1 | 10 | 19 | 19 | 2.81 | 0.38 | 5 | 0.79 | 236 | 1 | 0.04 | 34 | 0.03 | 15 | 2 | 18 | 27 | 0.03 | <1 | 22 | <1 | 91 |
| L 78+50N 6+50E | <0.5 | 1.72 | 2 | <1 | <1 | 148 | 1 | 0.09 | <1 | 9 | 16 | 10 | 2.15 | 0.34 | 4 | 0.60 | 252 | <1 | 0.05 | 27 | 0.02 | 13 | 1 | 16 | 18 | 0.03 | <1 | 20 | 3 | 80 |
| L 78+50N 6+75E | <0.5 | 1.95 | 2 | <1 | <1 | 182 | <1 | 0.31 | <1 | 10 | 19 | 14 | 2.26 | 0.30 | 4 | 0.60 | 636 | 1 | 0.06 | 37 | 0.05 | 21 | 1 | 40 | 20 | 0.04 | <1 | 22 | 7 | 126 |
| L 78+50N 7+25E | <0.5 | 3.50 | 5 | <1 | <1 | 226 | <1 | 0.21 | <1 | 14 | 26 | 23 | 3.39 | 0.46 | 5 | 0.82 | 313 | 2 | 0.09 | 57 | 0.09 | 37 | 2 | 30 | 31 | 0.06 | <1 | 30 | 16 | 130 |
| L 78+50N 7+50E | <0.5 | 2.29 | <1 | <1 | <1 | 192 | 2 | 0.27 | <1 | 10 | 18 | 15 | 2.82 | 0.35 | 5 | 0.83 | 617 | 1 | 0.08 | 34 | 0.08 | 28 | 1 | 28 | 25 | 0.06 | <1 | 25 | 75 | 148 |
| L 78+50N 7+75E | <0.5 | 3.59 | <1 | <1 | <1 | 201 | <1 | 0.28 | <1 | 14 | 22 | 22 | 3.90 | 0.54 | 6 | 1.53 | 535 | 2 | 0.07 | 65 | 0.08 | 35 | 2 | 30 | 36 | 0.07 | <1 | 32 | 116 | 165 |
| L 78+50N 8+25E | <0.5 | 4.65 | 2 | <1 | <1 | 210 | <1 | 0.16 | <1 | 13 | 23 | 17 | 3.12 | 0.41 | 8 | 0.55 | 497 | 2 | 0.15 | 53 | 0.16 | 20 | 1 | 25 | 29 | 0.10 | <1 | 33 | <1 | 157 |
| L 78+50N 8+50E | <0.5 | 1.85 | <1 | <1 | <1 | 198 | 2 | 0.10 | <1 | 7 | 19 | 6 | 1.75 | 0.35 | 4 | 0.45 | 749 | <1 | 0.07 | 26 | 0.05 | 15 | 1 | 17 | 15 | 0.04 | <1 | 21 | <1 | 116 |
| L 78+50N 8+75E | <0.5 | 2.69 | 2 | <1 | <1 | 232 | <1 | 0.14 | <1 | 10 | 25 | 11 | 2.36 | 0.42 | 5 | 0.59 | 315 | 1 | 0.09 | 38 | 0.07 | 18 | 2 | 24 | 21 | 0.05 | <1 | 26 | <1 | 99 |
| L 78+50N 9+25E | <0.5 | 2.19 | 3 | <1 | <1 | 171 | 1 | 0.07 | <1 | 10 | 24 | 12 | 2.27 | 0.40 | 4 | 0.58 | 409 | <1 | 0.06 | 35 | 0.03 | 17 | 2 | 15 | 21 | 0.03 | <1 | 22 | <1 | 101 |
| L 78+50N 9+50E | <0.5 | 3.15 | 3 | <1 | <1 | 218 | <1 | 0.11 | <1 | 10 | 25 | 22 | 2.52 | 0.45 | 8 | 0.63 | 377 | 1 | 0.12 | 38 | 0.09 | 21 | 1 | 18 | 24 | 0.05 | <1 | 26 | <1 | 138 |
| L 78+50N 9+75E | <0.5 | 3.42 | 3 | <1 | <1 | 185 | <1 | 0.18 | <1 | 11 | 25 | 21 | 2.39 | 0.35 | 8 | 0.59 | 688 | 2 | 0.14 | 39 | 0.03 | 19 | 1 | 16 | 23 | 0.08 | <1 | 29 | <1 | 97 |
| L 78+50N 10+25E | <0.5 | 3.39 | 2 | <1 | <1 | 173 | 2 | 0.14 | <1 | 11 | 22 | 29 | 2.52 | 0.42 | 8 | 0.70 | 390 | 1 | 0.13 | 37 | 0.09 | 49 | 1 | 14 | 25 | 0.08 | <1 | 25 | 2 | 121 |
| L 78+50N 10+50E | <0.5 | 4.50 | 5 | <1 | <1 | 203 | <1 | 0.19 | <1 | 9 | 17 | 19 | 2.04 | 0.30 | 8 | 0.39 | 641 | 1 | 0.23 | 38 | 0.18 | 15 | <1 | 20 | 20 | 0.12 | <1 | 26 | <1 | 88 |
| L 78+50N 10+75E | <0.5 | 2.94 | 2 | <1 | <1 | 220 | <1 | 0.26 | <1 | 8 | 20 | 16 | 1.96 | 0.30 | 6 | 0.55 | 879 | 1 | 0.14 | 29 | 0.09 | 15 | 1 | 20 | 18 | 0.08 | <1 | 26 | <1 | 89 |
| L 78+50N 11+25E | <0.5 | 2.80 | <1 | <1 | <1 | 197 | <1 | 0.14 | <1 | 10 | 59 | 13 | 2.19 | 0.38 | 3 | 1.26 | 746 | <1 | 0.08 | 59 | 0.05 | 9 | 1 | 14 | 19 | 0.08 | <1 | 32 | <1 | 113 |
| L 78+50N 11+50E | <0.5 | 3.02 | 1 | <1 | <1 | 201 | <1 | 0.15 | <1 | 14 | 28 | 29 | 2.83 | 0.48 | 4 | 0.87 | 528 | 1 | 0.08 | 54 | 0.05 | 17 | 1 | 20 | 25 | 0.08 | <1 | 51 | <1 | 116 |
| L 78+50N 11+75E | <0.5 | 2.36 | 2 | <1 | <1 | 208 | <1 | 0.10 | <1 | 11 | 23 | 17 | 2.37 | 0.36 | 5 | 0.59 | 704 | 1 | 0.07 | 33 | 0.03 | 17 | 2 | 16 | 21 | 0.07 | <1 | 26 | 14 | 97 |
| L 78+50N 12+25E | <0.5 | 2.85 | 1 | <1 | <1 | 262 | <1 | 0.09 | <1 | 12 | 40 | 15 | 2.43 | 0.37 | 7 | 0.45 | 618 | 2 | 0.11 | 49 | 0.06 | 17 | 2 | 15 | 22 | 0.08 | <1 | 28 | <1 | 178 |
| L 78+50N 12+50E | <0.5 | 1.84 | 2 | <1 | <1 | 219 | <1 | 0.07 | <1 | 9 | 22 | 11 | 2.01 | 0.44 | 8 | 0.37 | 693 | 1 | 0.07 | 19 | 0.03 | 21 | 2 | 9 | 18 | 0.07 | <1 | 26 | <1 | 114 |
| L 78+50N 12+75E | <0.5 | 2.39 | <1 | <1 | <1 | 224 | <1 | 0.08 | <1 | 11 | 28 | 15 | 2.60 | 0.42 | 5 | 0.50 | 919 | 1 | 0.08 | 29 | 0.05 | 16 | 2 | 9 | 23 | 0.08 | <1 | 34 | <1 | 155 |
| L 78+50N 13+25E | <0.5 | 2.55 | <1 | <1 | <1 | 182 | <1 | 0.06 | <1 | 12 | 33 | 22 | 2.84 | 0.45 | 6 | 0.61 | 523 | 1 | 0.07 | 30 | 0.06 | 20 | 2 | 9 | 26 | 0.06 | <1 | 38 | <1 | 122 |
| L 78+50N 13+50E | <0.5 | 2.36 | <1 | <1 | <1 | 173 | <1 | 0.14 | <1 | 13 | 32 | 28 | 2.65 | 0.45 | 8 | 0.64 | 485 | 1 | 0.05 | 30 | 0.03 | 19 | 1 | 12 | 24 | 0.08 | <1 | 37 | <1 | 108 |
| L 78+50N 13+75E | <0.5 | 2.07 | 1 | <1 | <1 | 179 | <1 | 0.09 | <1 | 9 | 26 | 12 | 2.44 | 0.42 | 5 | 0.42 | 984 | 1 | 0.06 | 24 | 0.04 | 25 | 2 | 11 | 21 | 0.06 | <1 | 31 | <1 | 126 |
| L 78+50N 14+25E | <0.5 | 2.67 | 2 | <1 | <1 | 267 | <1 | 0.10 | <1 | 11 | 18 | 11 | 2.16 | 0.39 | 7 | 0.27 | 1514 | 1 | 0.09 | 54 | 0.07 | 15 | 1 | 16 | 20 | 0.05 | <1 | 26 | <1 | 197 |
| L 78+50N 14+50E | <0.5 | 2.99 | 2 | <1 | <1 | 210 | <1 | 0.14 | <1 | 15 | 20 | 8 | 2.46 | 0.36 | 4 | 0.32 | 1229 | 1 | 0.12 | 32 | 0.07 | 19 | 1 | 17 | 21 | 0.07 | <1 | 31 | <1 | 296 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Certified by: _____

Sample received on Aug. 20, 2010

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net


ISO9001:2008 Certified

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

ATTN: David Johnston

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 78+50N 14+75E | <0.5 | 1.75 | 3 | <1 | <1 | 144 | <1 | 0.11 | <1 | 10 | 16 | 13 | 2.32 | 0.28 | 3 | 0.48 | 968 | <1 | 0.09 | 24 | 0.03 | 14 | 1 | 15 | 20 | 0.06 | <1 | 31 | <1 | 258 |
| L 78+50N 15+25E | <0.5 | 2.71 | 1 | <1 | <1 | 290 | <1 | 0.10 | <1 | 12 | 21 | 12 | 2.90 | 0.41 | 4 | 0.47 | 1569 | 1 | 0.10 | 28 | 0.14 | 20 | 2 | 17 | 26 | 0.06 | <1 | 31 | <1 | 247 |
| L 78+50N 15+50E | <0.5 | 2.63 | 3 | <1 | <1 | 214 | <1 | 0.10 | <1 | 12 | 21 | 14 | 2.87 | 0.38 | 6 | 0.52 | 942 | 2 | 0.08 | 29 | 0.12 | 18 | 2 | 16 | 26 | 0.04 | <1 | 28 | <1 | 138 |
| L 78+50N 15+75E | <0.5 | 2.33 | 3 | <1 | <1 | 151 | <1 | 0.09 | <1 | 11 | 25 | 17 | 3.05 | 0.38 | 4 | 1.07 | 464 | 3 | 0.07 | 30 | 0.06 | 18 | 2 | 12 | 27 | 0.05 | <1 | 34 | <1 | 108 |
| L 78+50N 16+25E | <0.5 | 4.46 | 4 | <1 | 20 | 164 | <1 | 0.24 | <1 | 15 | 62 | 22 | 3.48 | 0.38 | 1 | 2.65 | 636 | 2 | 0.08 | 56 | 0.03 | 22 | 2 | 13 | 29 | 0.11 | <1 | 56 | <1 | 142 |
| L 78+50N 17+25E | <0.5 | 2.43 | 8 | <1 | 9 | 188 | <1 | 1.35 | <1 | 14 | 29 | 26 | 3.26 | 0.40 | 12 | 0.69 | 1080 | <1 | 0.05 | 44 | 0.10 | 42 | 2 | 69 | 31 | 0.03 | <1 | 24 | 31 | 132 |
| L 78+50N 17+75E | <0.5 | 2.42 | 5 | <1 | <1 | 242 | <1 | 0.09 | <1 | 10 | 25 | 17 | 2.56 | 0.36 | 4 | 0.51 | 450 | 1 | 0.08 | 37 | 0.08 | 19 | 2 | 20 | 25 | 0.04 | <1 | 24 | <1 | 130 |
| BL:52+25 | <0.5 | 2.41 | 3 | <1 | 1 | 145 | <1 | 0.27 | <1 | 12 | 27 | 27 | 2.83 | 0.46 | 9 | 1.05 | 404 | 1 | 0.06 | 31 | 0.05 | 24 | 2 | 17 | 26 | 0.06 | <1 | 31 | <1 | 107 |
| BL:52+50 | <0.5 | 1.69 | 3 | <1 | <1 | 119 | <1 | 0.17 | <1 | 10 | 25 | 29 | 2.68 | 0.43 | 10 | 0.83 | 256 | 1 | 0.04 | 31 | 0.03 | 19 | 1 | 13 | 26 | 0.04 | <1 | 24 | <1 | 72 |
| BL:52+75 | <0.5 | 1.56 | 4 | <1 | 7 | 70 | <1 | 0.23 | <1 | 10 | 22 | 33 | 2.87 | 0.43 | 11 | 0.85 | 378 | <1 | 0.04 | 29 | 0.04 | 21 | 2 | 16 | 28 | 0.04 | <1 | 53 | 4 | 71 |
| BL:53+25 | <0.5 | 1.40 | 4 | <1 | <1 | 62 | <1 | 1.71 | <1 | 10 | 39 | 28 | 2.44 | 0.38 | 6 | 0.89 | 353 | 1 | 0.03 | 40 | 0.04 | 22 | 2 | 54 | 23 | 0.04 | <1 | 31 | <1 | 62 |
| BL:53+50 | <0.5 | 2.70 | 2 | <1 | 6 | 91 | <1 | 4.16 | <1 | 8 | 14 | 19 | 1.92 | 0.32 | 9 | 0.44 | 201 | 1 | 0.09 | 18 | 0.03 | 16 | 1 | 108 | 19 | 0.06 | <1 | 24 | 4 | 75 |
| BL:53+75 | <0.5 | 1.53 | 2 | <1 | <1 | 79 | <1 | 1.49 | <1 | 9 | 16 | 32 | 2.47 | 0.44 | 8 | 0.60 | 211 | <1 | 0.04 | 25 | 0.02 | 18 | 1 | 41 | 24 | 0.03 | <1 | 29 | 3 | 56 |
| BL:54+25 | <0.5 | 1.15 | 8 | <1 | <1 | 77 | <1 | 1.60 | <1 | 9 | 15 | 37 | 3.46 | 0.37 | 5 | 0.51 | 541 | <1 | 0.04 | 21 | 0.05 | 21 | 2 | 63 | 31 | 0.02 | <1 | 39 | 24 | 50 |
| BL:54+50 | <0.5 | 1.96 | 2 | <1 | <1 | 90 | <1 | 1.90 | <1 | 12 | 21 | 51 | 6.40 | 0.40 | 9 | 0.71 | 455 | 2 | 0.05 | 27 | 0.03 | 22 | 4 | 59 | 58 | 0.05 | <1 | 43 | 35 | 63 |
| BL:54+75 | <0.5 | 3.84 | <1 | <1 | 12 | 122 | <1 | 1.60 | <1 | 8 | 15 | 18 | 2.26 | 0.32 | 11 | 0.30 | 604 | 1 | 0.23 | 22 | 0.02 | 12 | 2 | 93 | 21 | 0.07 | <1 | 20 | <1 | 105 |
| BL:55+25 | <0.5 | 3.05 | <1 | <1 | <1 | 172 | <1 | 2.68 | <1 | 10 | 21 | 33 | 5.27 | 0.47 | 10 | 0.53 | 670 | 1 | 0.10 | 29 | 0.03 | 18 | 3 | 117 | 47 | 0.05 | <1 | 36 | 90 | 75 |
| BL:55+50 | <0.5 | 0.34 | 3 | <1 | 49 | 44 | <1 | >10 | <1 | 6 | 22 | 20 | 0.46 | 0.07 | 61 | 0.14 | 201 | <1 | 0.02 | 10 | 0.03 | 5 | <1 | 419 | <1 | <0.01 | <1 | 16 | <1 | <1 |
| BL:55+75 | <0.5 | 1.31 | 7 | <1 | 30 | 84 | <1 | 1.20 | 2 | 38 | 17 | 38 | 3.29 | 0.39 | 21 | 0.59 | 464 | 2 | 0.04 | 27 | 0.03 | 13 | 12 | 33 | 11 | 0.03 | <1 | 26 | 51 | <1 |
| BL:56+25 | <0.5 | 1.69 | 7 | <1 | 46 | 120 | <1 | 0.87 | 2 | 44 | 27 | 45 | 3.26 | 0.44 | 17 | 0.69 | 482 | 2 | 0.05 | 45 | 0.04 | 18 | 2 | 15 | <1 | 0.05 | <1 | 25 | 16 | <1 |
| BL:56+50 | <0.5 | 1.20 | 4 | <1 | 61 | 83 | <1 | 0.24 | 1 | 33 | 19 | 36 | 2.69 | 0.39 | 13 | 0.60 | 290 | 2 | 0.03 | 27 | 0.04 | 10 | 3 | 9 | 4 | 0.03 | <1 | 23 | 19 | <1 |
| BL:56+75 | <0.5 | 1.20 | 5 | <1 | 28 | 75 | <1 | 0.28 | 1 | 36 | 19 | 42 | 2.89 | 0.37 | 19 | 0.67 | 347 | 2 | 0.03 | 30 | 0.04 | 17 | 1 | 8 | 7 | 0.04 | <1 | 24 | 10 | <1 |
| BL:57+25 | <0.5 | 1.62 | 8 | <1 | <1 | 104 | <1 | 0.42 | 3 | 48 | 28 | 56 | 3.88 | 0.35 | 19 | 0.77 | 313 | 1 | 0.04 | 38 | 0.04 | 26 | 2 | <1 | 10 | 0.07 | <1 | 31 | 19 | <1 |
| BL:57+50 | <0.5 | 1.50 | 3 | <1 | <1 | 94 | <1 | 0.15 | 1 | 33 | 19 | 29 | 2.59 | 0.39 | 9 | 0.67 | 208 | 2 | 0.04 | 29 | 0.02 | 15 | <1 | 10 | 13 | 0.04 | <1 | 25 | 10 | 1 |
| BL:57+75 | <0.5 | 0.81 | 1 | <1 | <1 | 52 | <1 | 0.18 | 1 | 24 | 27 | 23 | 1.90 | 0.25 | 12 | 0.42 | 151 | 1 | 0.03 | 25 | 0.02 | 9 | <1 | 7 | 6 | 0.03 | <1 | 14 | 6 | <1 |
| BL:58+25 | <0.5 | 2.63 | 3 | <1 | <1 | 263 | <1 | 0.22 | 1 | 29 | 22 | 13 | 2.46 | 0.34 | 9 | 0.43 | 824 | 2 | 0.11 | 27 | 0.17 | 6 | 2 | 13 | 4 | 0.07 | <1 | 26 | <1 | 99 |
| BL:58+50 | <0.5 | 1.67 | 1 | <1 | 14 | 226 | <1 | 0.15 | 1 | 24 | 15 | 12 | 1.97 | 0.32 | 11 | 0.40 | 444 | 1 | 0.09 | 23 | 0.06 | 5 | <1 | 25 | 3 | 0.04 | <1 | 18 | 2 | 54 |
| BL:58+75 | <0.5 | 1.54 | 3 | <1 | 10 | 154 | <1 | 0.23 | 1 | 31 | 19 | 21 | 2.45 | 0.37 | 10 | 0.53 | 380 | 2 | 0.06 | 28 | 0.06 | 14 | 2 | 16 | 9 | 0.03 | <1 | 20 | 5 | <1 |
| BL:59+25 | <0.5 | 1.17 | 2 | <1 | 15 | 106 | <1 | 0.13 | 1 | 26 | 27 | 15 | 2.13 | 0.29 | 9 | 0.46 | 194 | 1 | 0.04 | 22 | 0.04 | 8 | 1 | 6 | 5 | 0.03 | <1 | 17 | 2 | 3 |
| BL:59+50 | <0.5 | 2.77 | 5 | <1 | 12 | 167 | <1 | 0.12 | 2 | 30 | 24 | 26 | 2.84 | 0.41 | 10 | 0.57 | 256 | 8 | 0.09 | 27 | 0.04 | 28 | 31 | 11 | 10 | 0.05 | <1 | 26 | 2 | <1 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Certified by: _____

Sample received on Aug. 20, 2010

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

ISO9001:2008 Certified


**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

ATTN: David Johnston

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BL:59+75** | <0.5 | 1.31 | 5 | <1 | <1 | 102 | <1 | 1.62 | 1 | 27 | 28 | 34 | 2.29 | 0.48 | 20 | 0.62 | 423 | 1 | 0.05 | 22 | 0.04 | 10 | 2 | 43 | 2 | 0.03 | <1 | 25 | 4 | <1 |
| **BL:60+25** | <0.5 | 2.36 | 6 | <1 | <1 | 199 | <1 | 0.21 | 1 | 26 | 23 | 15 | 2.29 | 0.37 | 10 | 0.49 | 639 | 2 | 0.10 | 26 | 0.08 | 7 | 1 | 12 | 5 | 0.05 | <1 | 24 | 1 | 26 |
| **BL:60+50** | <0.5 | 1.22 | 3 | <1 | <1 | 86 | <1 | 0.11 | <1 | 24 | 33 | 21 | 1.99 | 0.44 | 9 | 0.56 | 181 | <1 | 0.04 | 18 | 0.01 | 7 | 2 | 2 | <1 | 0.04 | <1 | 21 | 1 | <1 |
| **BL:60+75** | <0.5 | 1.28 | 3 | <1 | <1 | 83 | <1 | 0.24 | 1 | 28 | 28 | 32 | 2.46 | 0.47 | 13 | 0.71 | 266 | 1 | 0.04 | 21 | 0.03 | 9 | 2 | 6 | 8 | 0.05 | <1 | 26 | <1 | <1 |
| **BL:61+25** | <0.5 | 1.95 | 2 | <1 | <1 | 90 | <1 | 0.24 | 1 | 26 | 23 | 18 | 2.12 | 0.18 | 7 | 0.44 | 236 | 1 | 0.02 | 21 | 0.06 | 6 | <1 | 9 | 4 | 0.06 | <1 | 21 | <1 | <1 |
| **BL:61+50** | <0.5 | 1.03 | 1 | <1 | <1 | 54 | <1 | 0.10 | <1 | 20 | 22 | 14 | 1.66 | 0.13 | 6 | 0.36 | 158 | <1 | 0.01 | 18 | 0.02 | 5 | <1 | <1 | <1 | 0.03 | <1 | 16 | <1 | <1 |
| **BL:61+75** | <0.5 | 1.29 | 2 | <1 | <1 | 138 | <1 | 0.10 | 1 | 24 | 19 | 14 | 2.03 | 0.16 | 9 | 0.45 | 149 | 1 | 0.01 | 22 | 0.03 | 6 | <1 | 2 | <1 | 0.04 | <1 | 15 | <1 | <1 |
| **BL:62+25** | <0.5 | 0.92 | 5 | <1 | <1 | 52 | <1 | 0.90 | 1 | 31 | 15 | 35 | 2.41 | 0.22 | 20 | 0.55 | 369 | <1 | 0.01 | 26 | 0.04 | 15 | <1 | 25 | 3 | 0.03 | <1 | 19 | <1 | <1 |
| **BL:62+50** | <0.5 | 1.52 | 4 | <1 | <1 | 161 | <1 | 0.12 | 1 | 25 | 22 | 15 | 2.06 | 0.19 | 6 | 0.43 | 189 | <1 | 0.01 | 25 | 0.13 | 6 | 2 | 3 | 12 | 0.04 | <1 | 16 | <1 | <1 |
| **BL:62+75** | <0.5 | 0.83 | 11 | <1 | <1 | 39 | <1 | 0.40 | 2 | 37 | 12 | 40 | 3.23 | 0.23 | 14 | 0.48 | 242 | 1 | 0.01 | 27 | 0.04 | 20 | 1 | 9 | 1 | 0.03 | <1 | 18 | 3 | <1 |
| **BL:63+25** | <0.5 | 1.15 | 4 | <1 | <1 | 61 | <1 | 0.27 | 1 | 30 | 21 | 30 | 2.45 | 0.24 | 16 | 0.56 | 338 | 1 | 0.01 | 23 | 0.04 | 12 | 2 | 5 | 16 | 0.04 | <1 | 17 | 6 | <1 |
| **BL:63+75** | <0.5 | 1.15 | 4 | <1 | <1 | 66 | <1 | 0.24 | 1 | 27 | 19 | 23 | 2.24 | 0.27 | 13 | 0.54 | 289 | 1 | 0.01 | 21 | 0.03 | 11 | <1 | 6 | 5 | 0.04 | <1 | 20 | <1 | <1 |
| **BL:64+25** | <0.5 | 1.00 | 3 | <1 | <1 | 54 | <1 | 0.17 | 1 | 26 | 21 | 25 | 2.09 | 0.28 | 12 | 0.50 | 244 | 1 | 0.01 | 19 | 0.03 | 9 | 1 | 2 | 6 | 0.03 | <1 | 19 | 1 | <1 |
| **BL:64+50** | <0.5 | 1.39 | 4 | <1 | <1 | 101 | <1 | 0.28 | 1 | 26 | 16 | 25 | 2.09 | 0.19 | 12 | 0.45 | 366 | <1 | 0.01 | 22 | 0.05 | 9 | 1 | 9 | 6 | 0.04 | <1 | 18 | <1 | <1 |
| **BL:64+75** | <0.5 | 1.34 | 4 | <1 | <1 | 74 | <1 | 0.26 | 1 | 28 | 11 | 26 | 2.26 | 0.19 | 13 | 0.52 | 274 | <1 | 0.01 | 25 | 0.05 | 9 | 2 | 7 | 6 | 0.04 | <1 | 18 | <1 | <1 |
| **BL:65+25** | <0.5 | 1.55 | 2 | <1 | <1 | 114 | <1 | 0.11 | 1 | 28 | 24 | 27 | 2.18 | 0.17 | 9 | 0.56 | 201 | 1 | 0.01 | 25 | 0.03 | 8 | 3 | 3 | 7 | 0.05 | <1 | 18 | <1 | <1 |
| **BL:65+50** | <0.5 | 1.62 | 1 | <1 | <1 | 118 | <1 | 0.14 | 1 | 28 | 13 | 22 | 2.11 | 0.14 | 8 | 0.52 | 257 | 1 | 0.01 | 30 | 0.03 | 9 | <1 | 5 | 1 | 0.05 | <1 | 18 | <1 | 11 |
| **BL:65+75** | <0.5 | 2.68 | 3 | <1 | <1 | 181 | <1 | 0.13 | 1 | 27 | 20 | 21 | 2.22 | 0.13 | 8 | 0.41 | 189 | 2 | 0.03 | 28 | 0.13 | 1 | 2 | 7 | 6 | 0.09 | <1 | 18 | <1 | 70 |
| **BL:66+25** | <0.5 | 1.40 | 3 | <1 | <1 | 94 | <1 | 0.08 | <1 | 23 | 18 | 15 | 1.78 | 0.14 | 8 | 0.39 | 207 | 1 | 0.01 | 22 | 0.07 | 4 | 1 | <1 | <1 | 0.05 | <1 | 14 | <1 | 7 |
| **BL:66+50** | <0.5 | 1.56 | 2 | <1 | <1 | 161 | <1 | 0.09 | 1 | 25 | 18 | 21 | 1.93 | 0.14 | 9 | 0.45 | 225 | <1 | 0.01 | 28 | 0.04 | 7 | 1 | 4 | 8 | 0.05 | <1 | 15 | <1 | 7 |
| **BL:66+75** | <0.5 | 1.11 | 3 | <1 | <1 | 77 | <1 | 0.08 | 1 | 27 | 19 | 22 | 2.18 | 0.16 | 8 | 0.54 | 207 | <1 | 0.01 | 23 | 0.03 | 6 | 2 | 4 | 3 | 0.03 | <1 | 15 | <1 | <1 |
| **BL:67+25** | <0.5 | 1.48 | 2 | <1 | <1 | 113 | <1 | 0.07 | 1 | 29 | 22 | 23 | 2.20 | 0.13 | 6 | 0.46 | 319 | 1 | 0.01 | 28 | 0.11 | 7 | <1 | 3 | 1 | 0.04 | <1 | 18 | <1 | 18 |
| **BL:67+50** | <0.5 | 2.39 | 4 | <1 | <1 | 188 | <1 | 0.11 | 1 | 30 | 16 | 25 | 2.24 | 0.13 | 10 | 0.38 | 349 | 2 | 0.02 | 31 | 0.09 | 5 | 1 | 7 | 11 | 0.06 | <1 | 18 | <1 | 78 |
| **BL:67+75** | <0.5 | 1.42 | 4 | <1 | <1 | 193 | <1 | 0.12 | <1 | 18 | 23 | 8 | 1.26 | 0.07 | 8 | 0.12 | 722 | <1 | 0.03 | 9 | 0.21 | 10 | 2 | 8 | 4 | 0.05 | <1 | 14 | <1 | 52 |
| **BL:68+25** | <0.5 | 1.80 | 2 | <1 | <1 | 166 | <1 | 0.10 | 1 | 28 | 19 | 20 | 2.07 | 0.17 | 6 | 0.52 | 492 | 1 | 0.02 | 27 | 0.09 | 8 | 2 | 3 | 15 | 0.06 | <1 | 24 | <1 | 24 |
| **BL:68+50** | <0.5 | 2.23 | 2 | <1 | <1 | 180 | <1 | 0.08 | 1 | 28 | 18 | 21 | 2.07 | 0.12 | 6 | 0.47 | 501 | 2 | 0.02 | 31 | 0.09 | 6 | 2 | 6 | 2 | 0.07 | <1 | 20 | 2 | 39 |
| **BL:68+75** | <0.5 | 2.44 | 4 | <1 | <1 | 178 | <1 | 0.17 | 1 | 23 | 18 | 16 | 1.66 | 0.10 | 9 | 0.89 | 679 | 1 | 0.03 | 24 | 0.17 | 4 | <1 | 8 | 3 | 0.07 | <1 | 20 | <1 | 69 |
| **BL:69+25** | <0.5 | 1.15 | 2 | <1 | <1 | 41 | <1 | 0.15 | 1 | 27 | 18 | 27 | 2.06 | 0.19 | 8 | 0.67 | 151 | <1 | <0.01 | 21 | 0.05 | 8 | 1 | <1 | 3 | 0.04 | <1 | 18 | 3 | <1 |
| **BL:69+50** | <0.5 | 0.95 | 3 | <1 | <1 | 58 | <1 | 0.48 | 2 | 35 | 16 | 26 | 2.79 | 0.16 | 19 | 0.58 | 399 | <1 | <0.01 | 27 | 0.07 | 44 | 1 | 11 | 7 | 0.03 | <1 | 15 | <1 | 17 |
| **BL:69+75** | <0.5 | 1.08 | 5 | <1 | <1 | 61 | <1 | 0.59 | 2 | 37 | 16 | 36 | 2.83 | 0.25 | 20 | 0.65 | 334 | 1 | 0.01 | 28 | 0.05 | 36 | <1 | 7 | 4 | 0.04 | <1 | 16 | <1 | <1 |
| **BL:70+25** | <0.5 | 2.50 | 4 | <1 | <1 | 135 | <1 | 0.15 | 1 | 30 | 18 | 18 | 2.35 | 0.15 | 9.1 | 0.47 | 224 | 2 | 0.02 | 31 | 0.05 | 6 | 1 | 8 | <1 | 0.07 | <1 | 19 | 3 | 18 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Sample received on Aug. 20, 2010

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

ISO9001:2008 Certified

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

ATTN: David Johnston

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BL:70+50 | <0.5 | 1.34 | 2 | <1 | <1 | 123 | <1 | 0.12 | 1 | 26 | 18 | 20 | 1.94 | 0.21 | 8 | 0.66 | 161 | 1 | 0.01 | 18 | 0.03 | 4 | 2 | 7 | 4 | 0.05 | <1 | 21 | 3 | <1 |
| BL:71+25 | <0.5 | 1.68 | 3 | <1 | <1 | 133 | <1 | 0.22 | 1 | 31 | 20 | 29 | 2.39 | 0.23 | 16 | 0.62 | 270 | 1 | 0.02 | 26 | 0.03 | 12 | 2 | 13 | 12 | 0.04 | <1 | 19 | 1 | <1 |
| BL:71+50 | <0.5 | 1.93 | 4 | <1 | <1 | 163 | <1 | 0.07 | 1 | 25 | 20 | 17 | 1.86 | 0.11 | 8 | 0.32 | 381 | <1 | 0.02 | 21 | 0.16 | 2 | 2 | 4 | <1 | 0.05 | <1 | 15 | <1 | 28 |
| BL:71+75 | <0.5 | 2.00 | 3 | <1 | <1 | 193 | <1 | 0.12 | 1 | 26 | 18 | 16 | 1.88 | 0.11 | 8 | 0.35 | 634 | 1 | 0.02 | 25 | 0.10 | 2 | <1 | 7 | 10 | 0.06 | <1 | 15 | <1 | 83 |
| BL:72+25 | <0.5 | 1.90 | 4 | <1 | <1 | 120 | <1 | 0.17 | <1 | 31 | 17 | 25 | 2.64 | 0.19 | 10 | 0.58 | 271 | 1 | 0.02 | 26 | 0.03 | 8 | 2 | 16 | 5 | 0.05 | <1 | 17 | 7 | <1 |
| BL:72+50 | <0.5 | 1.14 | 3 | <1 | <1 | 45 | <1 | 0.12 | <1 | 30 | 10 | 28 | 2.56 | 0.24 | 15 | 0.64 | 232 | 1 | 0.01 | 21 | 0.02 | 10 | 2 | 8 | 12 | 0.04 | <1 | 19 | 7 | <1 |
| BL:72+75 | <0.5 | 1.75 | 4 | <1 | <1 | 134 | <1 | 0.11 | <1 | 27 | 5 | 19 | 2.22 | 0.17 | 10 | 0.46 | 205 | <1 | 0.02 | 19 | 0.04 | 5 | 2 | 17 | 5 | 0.06 | <1 | 23 | 5 | <1 |
| BL:73+25 | <0.5 | 1.47 | 4 | <1 | <1 | 84 | <1 | 0.18 | <1 | 33 | 14 | 31 | 2.75 | 0.34 | 12 | 0.85 | 263 | 1 | 0.01 | 21 | 0.04 | 7 | 1 | 9 | 13 | 0.06 | <1 | 26 | 3 | <1 |
| BL:73+50 | <0.5 | 1.23 | 3 | <1 | <1 | 60 | <1 | 0.14 | <1 | 32 | 6 | 32 | 2.78 | 0.22 | 11 | 0.62 | 231 | <1 | 0.01 | 25 | 0.02 | 6 | 2 | 7 | 1 | 0.03 | <1 | 23 | 2 | <1 |
| BL:73+75 | <0.5 | 2.58 | 4 | <1 | <1 | 187 | <1 | 0.50 | 1 | 38 | 12 | 32 | 3.41 | 0.23 | 17 | 0.70 | 829 | 1 | 0.03 | 32 | 0.04 | 12 | 2 | 31 | <1 | 0.06 | <1 | 27 | <1 | 85 |
| BL:74+25 | <0.5 | 1.61 | 4 | <1 | <1 | 119 | <1 | 0.06 | <1 | 29 | 8 | 17 | 2.38 | 0.11 | 4 | 0.55 | 215 | <1 | 0.01 | 26 | 0.04 | 4 | <1 | 6 | <1 | 0.04 | <1 | 18 | <1 | 9 |
| BL:74+50 | <0.5 | 2.31 | 5 | <1 | <1 | 145 | <1 | 0.06 | <1 | 30 | 12 | 19 | 2.38 | 0.11 | 8 | 0.43 | 320 | 1 | 0.02 | 29 | 0.08 | 2 | <1 | 8 | <1 | 0.06 | <1 | 23 | <1 | 30 |
| BL:74+75 | <0.5 | 1.26 | 4 | <1 | <1 | 86 | <1 | 0.09 | <1 | 29 | 13 | 21 | 2.37 | 0.19 | 4 | 0.56 | 260 | <1 | 0.01 | 23 | 0.04 | 6 | 2 | 7 | <1 | 0.04 | <1 | 20 | <1 | <1 |
| BL:75+25 | <0.5 | 1.29 | 3 | <1 | <1 | 109 | <1 | 0.07 | 1 | 27 | 28 | 17 | 1.99 | 0.14 | 4 | 0.52 | 177 | 1 | <0.01 | 25 | 0.02 | 6 | 1 | <1 | 19 | 0.04 | <1 | 16 | <1 | <1 |
| BL:75+50 | <0.5 | 1.10 | 39 | <1 | <1 | 45 | <1 | 0.10 | 38 | 46 | 27 | 21 | 2.12 | 0.15 | 11 | 0.35 | 159 | 41 | <0.01 | 47 | 0.01 | 41 | 60 | <1 | 23 | 0.03 | <1 | 15 | <1 | <1 |
| BL:75+75 | <0.5 | 1.62 | 3 | <1 | <1 | 174 | <1 | 0.08 | 1 | 27 | 28 | 18 | 1.97 | 0.11 | 6 | 0.44 | 262 | 2 | 0.01 | 25 | 0.04 | 5 | 2 | <1 | 26 | 0.04 | <1 | 15 | <1 | <1 |
| BL:76+25 | <0.5 | 1.64 | 3 | <1 | <1 | 120 | <1 | 0.10 | 1 | 27 | 30 | 15 | 1.92 | 0.09 | 7 | 0.37 | 175 | 1 | 0.01 | 21 | 0.03 | 7 | 2 | <1 | 18 | 0.04 | <1 | 18 | <1 | <1 |
| BL:76+50 | <0.5 | 3.18 | 3 | <1 | <1 | 245 | <1 | 0.31 | 2 | 37 | 27 | 30 | 2.88 | 0.17 | 19 | 0.48 | 872 | 2 | 0.02 | 35 | 0.05 | 8 | 3 | 10 | 20 | 0.07 | <1 | 23 | <1 | 12 |
| BL:76+75 | <0.5 | 2.07 | 4 | <1 | <1 | 173 | <1 | 0.09 | 2 | 32 | 19 | 18 | 2.27 | 0.11 | 7 | 0.51 | 180 | <1 | 0.01 | 29 | 0.06 | 5 | 3 | <1 | 28 | 0.05 | <1 | 22 | <1 | <1 |
| BL:77+25 | <0.5 | 3.57 | 7 | <1 | <1 | 200 | <1 | 0.11 | 2 | 32 | 25 | 19 | 2.45 | 0.08 | 7 | 0.36 | 440 | 1 | 0.03 | 33 | 0.11 | <1 | 2 | <1 | 15 | 0.10 | <1 | 26 | 3 | 63 |
| BL:77+50 | <0.5 | 2.38 | 4 | <1 | 2 | 237 | <1 | 0.11 | 2 | 33 | 28 | 24 | 2.41 | 0.11 | 7 | 0.51 | 442 | <1 | 0.02 | 31 | 0.06 | 4 | 3 | <1 | 19 | 0.07 | <1 | 23 | 1 | 15 |
| BL:77+75 | <0.5 | 1.65 | 3 | <1 | 2 | 130 | <1 | 0.09 | 2 | 29 | 26 | 25 | 2.13 | 0.14 | 8 | 0.51 | 195 | <1 | 0.01 | 28 | 0.03 | 4 | 2 | <1 | 15 | 0.06 | <1 | 23 | <1 | <1 |
| BL:78+25 | <0.5 | 2.07 | 4 | <1 | <1 | 145 | <1 | 0.16 | 2 | 31 | 31 | 30 | 2.43 | 0.18 | 7 | 0.58 | 272 | 1 | 0.02 | 36 | 0.03 | 5 | 2 | <1 | 14 | 0.06 | <1 | 26 | <1 | <1 |
| BL:78+75 | <0.5 | 2.10 | 4 | <1 | <1 | 219 | <1 | 0.10 | 2 | 34 | 28 | 22 | 2.46 | 0.15 | 4 | 0.52 | 275 | <1 | 0.02 | 37 | 0.09 | 7 | 2 | <1 | 7 | 0.07 | <1 | 22 | <1 | 10 |
| BL:79+25 | <0.5 | 1.35 | 4 | <1 | <1 | 124 | <1 | 0.07 | 1 | 28 | 27 | 18 | 1.99 | 0.10 | 4 | 0.50 | 339 | 1 | 0.01 | 30 | 0.04 | 75 | 2 | <1 | 22 | 0.05 | <1 | 17 | <1 | 7 |
| BL:79+50 | <0.5 | 3.57 | 4 | <1 | <1 | 351 | <1 | 0.14 | 2 | 34 | 22 | 22 | 2.54 | 0.13 | 5 | 0.45 | 249 | 2 | 0.03 | 54 | 0.08 | 1 | 3 | 6 | 11 | 0.11 | <1 | 29 | <1 | 21 |
| BL:79+75 | <0.5 | 3.17 | 4 | <1 | <1 | 243 | <1 | 0.14 | 2 | 34 | 25 | 23 | 2.59 | 0.15 | 10 | 0.50 | 268 | 2 | 0.03 | 49 | 0.05 | 4 | 3 | <1 | 20 | 0.10 | <1 | 26 | 2 | 33 |
| BL:32+75 | <0.5 | 1.67 | 4 | <1 | <1 | 105 | <1 | 0.10 | 2 | 31 | 24 | 17 | 2.20 | 0.12 | 4 | 0.59 | 175 | 1 | 0.01 | 24 | 0.05 | 6 | 3 | <1 | 23 | 0.06 | <1 | 20 | <1 | 4 |
| BL:33+25 | <0.5 | 1.67 | 1 | <1 | <1 | 91 | <1 | 0.10 | 2 | 29 | 26 | 18 | 2.18 | 0.13 | 1 | 0.66 | 208 | <1 | 0.01 | 27 | 0.07 | 8 | 2 | <1 | 16 | 0.06 | <1 | 18 | <1 | 7 |
| BL:33+50 | <0.5 | 1.45 | 3 | <1 | <1 | 94 | <1 | 0.11 | 1 | 29 | 21 | 31 | 2.08 | 0.14 | 7 | 0.70 | 165 | 1 | <0.01 | 28 | 0.02 | 5 | 1 | <1 | 22 | 0.05 | <1 | 16 | <1 | <1 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Certified by: _____

Sample received on Aug. 20, 2010

ISO9001:2008 Certified

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

ATTN: David Johnston

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BL:33+75 | <0.5 | 1.54 | 4 | <1 | <1 | 123 | <1 | 0.10 | 1 | 27 | 30 | 11 | 1.91 | 0.11 | 5 | 0.58 | 505 | 1 | 0.01 | 25 | 0.05 | 4 | 2 | <1 | 22 | 0.05 | <1 | 17 | <1 | 33 |
| BL:34+25 | <0.5 | 1.17 | 2 | <1 | <1 | 134 | <1 | 0.10 | 1 | 20 | 23 | 9 | 1.41 | 0.07 | 2 | 0.44 | 457 | <1 | 0.01 | 19 | 0.04 | 5 | 2 | <1 | 19 | 0.05 | <1 | 16 | <1 | 10 |
| BL:34+50 | <0.5 | 1.64 | 2 | <1 | <1 | 259 | <1 | 0.20 | 1 | 23 | 22 | 8 | 1.58 | 0.09 | 4 | 0.32 | 570 | <1 | 0.02 | 25 | 0.07 | 9 | 2 | 6 | 25 | 0.07 | <1 | 15 | <1 | 57 |
| BL:34+75 | <0.5 | 2.47 | 2 | <1 | <1 | 148 | <1 | 0.24 | 2 | 27 | 25 | 17 | 2.05 | 0.11 | 7 | 0.55 | 258 | 1 | 0.02 | 31 | 0.08 | 2 | 2 | 3 | 26 | 0.08 | <1 | 21 | <1 | 26 |
| BL:35+25 | <0.5 | 1.40 | 5 | <1 | <1 | 122 | <1 | 0.29 | 2 | 31 | 21 | 23 | 2.17 | 0.16 | 7 | 0.71 | 653 | 1 | 0.01 | 26 | 0.04 | 30 | 3 | <1 | 17 | 0.06 | <1 | 20 | <1 | 7 |
| BL:35+50 | <0.5 | 1.34 | 4 | <1 | <1 | 56 | <1 | 0.74 | 2 | 32 | 26 | 27 | 2.32 | 0.16 | 18 | 0.75 | 319 | <1 | 0.01 | 25 | 0.03 | 11 | 1 | 4 | 26 | 0.06 | <1 | 20 | <1 | <1 |
| BL:35+75 | <0.5 | 1.33 | 5 | <1 | <1 | 50 | <1 | 3.17 | 2 | 29 | 27 | 29 | 2.36 | 0.26 | 29 | 0.86 | 324 | <1 | 0.01 | 25 | 0.04 | 34 | 2 | 63 | 26 | 0.06 | <1 | 22 | <1 | <1 |
| BL:36+25 | <0.5 | 1.79 | 4 | <1 | <1 | 64 | <1 | 0.38 | 2 | 34 | 29 | 31 | 2.53 | 0.27 | 13 | 0.95 | 299 | 1 | 0.01 | 30 | 0.04 | 11 | 2 | <1 | 27 | 0.07 | <1 | 25 | 6 | <1 |
| BL:36+50 | <0.5 | 1.29 | 3 | <1 | <1 | 81 | <1 | 0.20 | 1 | 27 | 28 | 15 | 1.93 | 0.16 | 4 | 0.69 | 223 | <1 | 0.01 | 22 | 0.02 | 7 | 3 | <1 | 35 | 0.05 | <1 | 17 | 6 | <1 |
| BL:36+75 | <0.5 | 1.26 | 3 | <1 | <1 | 158 | <1 | 19.05 | 2 | 16 | 27 | 33 | 1.31 | 0.10 | 60 | 0.35 | 751 | <1 | 0.01 | 24 | 0.14 | 2 | 2 | 189 | 23 | 0.04 | <1 | 20 | 5 | 127 |
| BL:37+25 | <0.5 | 2.11 | 4 | <1 | <1 | 110 | <1 | 1.38 | 2 | 30 | 33 | 23 | 2.18 | 0.21 | 23 | 0.73 | 258 | <1 | 0.02 | 35 | 0.08 | 10 | <1 | 16 | 28 | 0.07 | <1 | 20 | 40 | <1 |
| BL:37+50 | <0.5 | 1.81 | 4 | <1 | <1 | 82 | <1 | 3.71 | 2 | 33 | 28 | 21 | 2.53 | 0.24 | 31 | 0.65 | 430 | <1 | 0.02 | 36 | 0.03 | 7 | 1 | 28 | 15 | 0.06 | <1 | 18 | 89 | <1 |
| BL:37+75 | <0.5 | 1.74 | 5 | <1 | <1 | 86 | <1 | 2.85 | 2 | 31 | 34 | 22 | 2.27 | 0.19 | 31 | 0.64 | 254 | <1 | 0.02 | 32 | 0.01 | 13 | <1 | 15 | 20 | 0.06 | <1 | 25 | 53 | <1 |
| BL:38+25 | <0.5 | 2.02 | 3 | <1 | <1 | 210 | <1 | 0.23 | 2 | 28 | 29 | 22 | 1.97 | 0.14 | 7 | 0.63 | 539 | <1 | 0.02 | 29 | 0.05 | 19 | 1 | <1 | 8 | 0.08 | <1 | 26 | <1 | 37 |
| BL:38+50 | <0.5 | 2.05 | 1 | <1 | <1 | 283 | <1 | 0.18 | 1 | 26 | 37 | 12 | 1.83 | 0.15 | 5 | 0.62 | 659 | <1 | 0.02 | 29 | 0.08 | 5 | 2 | <1 | 25 | 0.08 | <1 | 23 | <1 | 80 |
| BL:38+75 | <0.5 | 0.91 | 2 | <1 | <1 | 105 | <1 | 0.15 | 1 | 21 | 28 | 11 | 1.47 | 0.08 | 6 | 0.53 | 271 | <1 | 0.01 | 16 | 0.02 | 7 | 2 | <1 | 21 | 0.05 | <1 | 17 | <1 | <1 |
| BL:39+25 | <0.5 | 1.24 | 3 | <1 | <1 | 94 | <1 | 0.11 | 1 | 23 | 27 | 14 | 1.58 | 0.10 | 5 | 0.64 | 239 | <1 | 0.01 | 17 | 0.03 | 6 | 1 | <1 | 23 | 0.05 | <1 | 16 | <1 | <1 |
| BL:39+50 | <0.5 | 2.63 | 3 | <1 | <1 | 204 | <1 | 0.15 | 2 | 29 | 4 | 20 | 2.42 | 0.15 | 2 | 0.78 | 304 | 3 | 0.02 | 29 | 0.07 | 4 | 2 | 16 | <1 | 0.08 | <1 | 23 | 5 | 40 |
| BL:39+75 | <0.5 | 2.67 | 3 | <1 | <1 | 188 | <1 | 0.22 | 2 | 34 | 9 | 28 | 2.80 | 0.21 | 8 | 0.91 | 298 | 3 | 0.02 | 36 | 0.06 | 5 | 2 | 19 | 12 | 0.07 | <1 | 28 | 2 | 9 |
| BL:40+25 | <0.5 | 3.17 | 2 | <1 | 8 | 217 | <1 | 0.19 | 2 | 31 | 8 | 26 | 2.52 | 0.16 | 5 | 0.83 | 363 | 2 | 0.02 | 36 | 0.08 | <1 | 2 | 23 | <1 | 0.09 | <1 | 22 | 2 | 55 |
| BL:40+50 | <0.5 | 1.77 | 4 | <1 | 12 | 165 | <1 | 0.12 | 2 | 28 | 10 | 24 | 2.20 | 0.17 | 3 | 0.96 | 530 | 2 | 0.01 | 26 | 0.05 | 4 | <1 | 19 | <1 | 0.05 | <1 | 23 | <1 | 19 |
| BL:40+75 | <0.5 | 2.28 | 6 | <1 | <1 | 204 | <1 | 0.23 | 2 | 26 | <1 | 15 | 2.01 | 0.12 | 2 | 0.70 | 469 | 2 | 0.02 | 30 | 0.10 | 5 | <1 | 24 | <1 | 0.08 | <1 | 22 | <1 | 51 |
| BL:41+25 | <0.5 | 2.80 | 6 | <1 | 6 | 222 | <1 | 0.18 | 2 | 34 | 10 | 26 | 2.70 | 0.18 | 3 | 1.16 | 615 | 3 | 0.02 | 33 | 0.15 | 11 | <1 | 19 | <1 | 0.08 | <1 | 23 | <1 | 35 |
| BL:41+50 | <0.5 | 2.22 | 5 | <1 | <1 | 240 | <1 | 0.22 | 2 | 27 | 4 | 14 | 2.02 | 0.11 | 2 | 1.14 | 784 | 2 | 0.02 | 24 | 0.06 | 3 | 2 | 19 | <1 | 0.09 | <1 | 21 | <1 | 141 |
| BL:41+75 | <0.5 | 3.35 | 6 | <1 | <1 | 268 | <1 | 0.46 | 2 | 29 | <1 | 14 | 2.26 | 0.12 | 6 | 0.64 | 1089 | 2 | 0.03 | 31 | 0.07 | 16 | 2 | 39 | <1 | 0.10 | <1 | 25 | <1 | 30 |
| BL:42+25 | <0.5 | 3.45 | 5 | <1 | 19 | 213 | <1 | 0.25 | 2 | 39 | 4 | 38 | 3.11 | 0.22 | 8 | 1.65 | 349 | 3 | 0.02 | 36 | 0.08 | 6 | 2 | 25 | 3 | 0.10 | <1 | 31 | <1 | 21 |
| BL:42+50 | <0.5 | 3.15 | 7 | <1 | 9 | 240 | <1 | 0.12 | 2 | 27 | <1 | 15 | 2.13 | 0.11 | 5 | 0.44 | 1025 | 2 | 0.04 | 25 | 0.19 | 9 | 2 | 18 | <1 | 0.09 | <1 | 21 | <1 | 110 |
| BL:42+75 | <0.5 | 2.25 | 6 | <1 | <1 | 167 | <1 | 0.18 | 2 | 26 | 5 | 11 | 2.05 | 0.10 | 3 | 0.42 | 585 | 2 | 0.02 | 29 | 0.13 | 7 | 1 | 21 | <1 | 0.07 | <1 | 19 | <1 | 55 |
| BL:43+25 | <0.5 | 2.45 | 4 | <1 | <1 | 118 | <1 | 0.18 | 2 | 33 | 7 | 26 | 2.52 | 0.19 | <1 | 0.91 | 299 | 2 | 0.01 | 32 | 0.06 | 4 | 1 | 20 | <1 | 0.08 | <1 | 25 | <1 | 16 |
| BL:43+50 | <0.5 | 1.10 | 2 | <1 | <1 | 63 | <1 | 0.06 | 1 | 23 | <1 | 27 | 1.74 | 0.13 | 4 | 0.57 | 336 | 2 | 0.01 | 17 | 0.04 | 3 | 1 | 9 | <1 | 0.05 | <1 | 21 | 7 | <1 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Certified by: _____

Sample received on Aug. 20, 2010

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net


ISO9001:2008 Certified

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

ATTN: David Johnston

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **BL:43+75** | ≤0.5 | 2.60 | 4 | <1 | <1 | 257 | <1 | 0.13 | 1 | 26 | 12 | 12 | 2.01 | 0.18 | 4 | 0.51 | 899 | 2 | 0.02 | 28 | 0.09 | 4 | <1 | 20 | 2 | 0.08 | <1 | 21 | <1 | 55 |
| **BL:44+25** | ≤0.5 | 1.75 | 4 | <1 | <1 | 145 | <1 | 0.13 | 1 | 24 | <1 | 9 | 1.74 | 0.12 | 2 | 0.47 | 411 | 1 | 0.02 | 23 | 0.05 | 6 | 1 | 18 | 2 | 0.07 | <1 | 19 | <1 | 33 |
| **BL:44+50** | ≤0.5 | 3.78 | 4 | <1 | <1 | 168 | <1 | 0.25 | 2 | 32 | <1 | 18 | 2.60 | 0.20 | 4 | 0.62 | 398 | 2 | 0.03 | 37 | 0.17 | <1 | 2 | 31 | <1 | 0.12 | <1 | 25 | <1 | 49 |
| **BL:44+75** | ≤0.5 | 4.28 | 4 | <1 | <1 | 360 | <1 | 0.30 | 2 | 28 | <1 | 14 | 2.41 | 0.14 | 5 | 0.42 | 719 | 2 | 0.04 | 34 | 0.17 | <1 | 1 | 40 | <1 | 0.15 | <1 | 28 | <1 | 89 |
| **BL:45+25** | ≤0.5 | 1.73 | 3 | <1 | <1 | 99 | <1 | 0.14 | 1 | 29 | <1 | 17 | 2.12 | 0.19 | 4 | 0.76 | 304 | 2 | 0.01 | 25 | 0.05 | 6 | <1 | 18 | 7 | 0.05 | <1 | 18 | <1 | 17 |
| **BL:45+50** | ≤0.5 | 3.00 | 4 | <1 | <1 | 368 | <1 | 0.32 | 2 | 29 | <1 | 22 | 2.29 | 0.18 | 8 | 0.76 | 1127 | 2 | 0.03 | 32 | 0.15 | 18 | 1 | 36 | <1 | 0.09 | <1 | 22 | <1 | 91 |
| **BL:45+75** | ≤0.5 | 3.18 | 5 | <1 | <1 | 265 | <1 | 0.27 | 2 | 28 | <1 | 15 | 2.26 | 0.17 | 8 | 0.56 | 1099 | 3 | 0.03 | 27 | 0.17 | 8 | 1 | 30 | <1 | 0.10 | <1 | 23 | <1 | 37 |
| **BL:46+25** | ≤0.5 | 2.50 | 3 | <1 | 1 | 297 | <1 | 0.14 | 2 | 28 | 6 | 15 | 2.19 | 0.17 | 2 | 0.51 | 1022 | 2 | 0.03 | 30 | 0.14 | 7 | <1 | 21 | 8 | 0.08 | <1 | 28 | <1 | 104 |
| **BL:46+50** | ≤0.5 | 4.07 | 6 | <1 | <1 | 369 | <1 | 0.37 | 2 | 31 | <1 | 22 | 2.48 | 0.17 | 3 | 0.57 | 904 | 2 | 0.04 | 33 | 0.20 | <1 | 2 | 40 | 8 | 0.12 | <1 | 31 | <1 | 126 |
| **BL:46+75** | ≤0.5 | 2.48 | 5 | <1 | 8 | 252 | <1 | 0.22 | 2 | 33 | <1 | 21 | 2.60 | 0.19 | 6 | 0.76 | 763 | 2 | 0.02 | 32 | 0.07 | 15 | <1 | 32 | <1 | 0.09 | <1 | 26 | <1 | 49 |
| **BL:47+25** | ≤0.5 | 1.85 | 7 | <1 | 5 | 92 | <1 | 0.39 | 2 | 42 | 9 | 33 | 3.47 | 0.33 | 21 | 0.93 | 620 | 2 | 0.01 | 37 | 0.07 | 25 | 2 | 22 | 2 | 0.06 | <1 | 23 | <1 | 12 |
| **BL:47+50** | ≤0.5 | 1.58 | 6 | <1 | <1 | 87 | <1 | 0.89 | 2 | 35 | 6 | 23 | 2.86 | 0.37 | 18 | 0.81 | 616 | 2 | 0.01 | 29 | 0.08 | 35 | 1 | 39 | 7 | 0.05 | <1 | 21 | <1 | 43 |
| **BL:47+75** | ≤0.5 | 1.83 | 6 | <1 | <1 | 99 | <1 | 0.41 | 2 | 42 | 10 | 31 | 3.33 | 0.45 | 12 | 0.94 | 572 | 2 | 0.01 | 33 | 0.09 | 27 | 2 | 25 | <1 | 0.06 | <1 | 22 | 2 | 31 |
| **BL:48+25** | ≤0.5 | 1.70 | 9 | <1 | 4 | 140 | <1 | 0.51 | 3 | 41 | <1 | 25 | 3.25 | 0.32 | 13 | 0.88 | 1109 | 2 | 0.01 | 36 | 0.09 | 21 | 2 | 32 | <1 | 0.06 | <1 | 26 | 5 | 103 |
| **BL:48+75** | ≤0.5 | 1.90 | 7 | <1 | 4 | 94 | <1 | 0.44 | 3 | 45 | 6 | 31 | 3.55 | 0.39 | 18 | 0.93 | 570 | 2 | 0.01 | 35 | 0.08 | 28 | <1 | 27 | <1 | 0.06 | <1 | 23 | <1 | 45 |
| **BL:49+25** | ≤0.5 | 1.85 | 6 | <1 | <1 | 102 | <1 | 0.37 | 2 | 44 | <1 | 31 | 3.44 | 0.40 | 16 | 0.88 | 580 | 2 | 0.01 | 39 | 0.07 | 23 | <1 | 25 | 4 | 0.06 | <1 | 26 | <1 | 17 |
| **BL:49+50** | ≤0.5 | 2.00 | 4 | <1 | <1 | 69 | <1 | 0.41 | 2 | 38 | 21 | 29 | 3.14 | 0.55 | 16 | 1.47 | 462 | 3 | <0.01 | 29 | 0.07 | 8 | <1 | 22 | <1 | 0.09 | <1 | 31 | <1 | <1 |
| **BL:49+75** | ≤0.5 | 2.03 | 6 | <1 | 8 | 123 | <1 | 0.48 | 2 | 46 | <1 | 36 | 3.51 | 0.42 | 18 | 0.89 | 674 | 2 | 0.01 | 42 | 0.07 | 22 | 2 | 29 | <1 | 0.07 | <1 | 28 | <1 | 27 |
| **BL:50+25** | ≤0.5 | 1.68 | 6 | <1 | 2 | 91 | <1 | 0.40 | 2 | 43 | <1 | 33 | 3.33 | 0.41 | 18 | 0.85 | 559 | 2 | 0.01 | 36 | 0.08 | 24 | <1 | 26 | <1 | 0.06 | <1 | 25 | <1 | 14 |
| **BL:50+50** | ≤0.5 | 1.90 | 4 | <1 | 7 | 125 | <1 | 0.25 | 2 | 38 | 4 | 28 | 2.95 | 0.37 | 10 | 0.83 | 407 | 2 | 0.01 | 35 | 0.07 | 16 | <1 | 24 | <1 | 0.06 | <1 | 28 | <1 | 8 |
| **BL:50+75** | ≤0.5 | 1.85 | 3 | <1 | <1 | 131 | <1 | 0.23 | 2 | 36 | 4 | 32 | 2.82 | 0.39 | 11 | 0.94 | 376 | 2 | 0.01 | 32 | 0.05 | 13 | <1 | 21 | <1 | 0.07 | <1 | 28 | <1 | <1 |
| **BL:51+25** | ≤0.5 | 2.00 | 7 | <1 | 3 | 83 | <1 | 0.51 | 2 | 42 | <1 | 40 | 3.23 | 0.46 | 19 | 1.40 | 548 | 3 | 0.01 | 33 | 0.06 | 29 | 2 | 24 | <1 | 0.08 | <1 | 37 | <1 | <1 |
| **BL:51+50** | ≤0.5 | 1.63 | 7 | <1 | <1 | 66 | <1 | 4.39 | 2 | 40 | <1 | 32 | 3.25 | 0.35 | 35 | 1.21 | 439 | 2 | 0.01 | 35 | 0.06 | 23 | <1 | 84 | <1 | 0.06 | <1 | 25 | <1 | <1 |
| **BL:51+75** | ≤0.5 | 1.65 | 4 | <1 | 18 | 65 | <1 | 0.40 | 2 | 41 | <1 | 35 | 3.22 | 0.37 | 16 | 1.13 | 538 | 2 | 0.01 | 34 | 0.07 | 17 | 1 | 24 | 12 | 0.08 | <1 | 32 | 17 | <1 |
| **AC 09:004** | ≤0.5 | 1.95 | 8 | <1 | <1 | 91 | <1 | 0.49 | 3 | 46 | <1 | 37 | 3.60 | 0.34 | 19 | 0.99 | 642 | 2 | 0.01 | 41 | 0.08 | 27 | <1 | 30 | 4 | 0.07 | <1 | 25 | <1 | 24 |
| **AC 09:007** | ≤0.5 | 1.73 | 2 | <1 | <1 | 93 | <1 | 0.06 | 3 | 43 | <1 | 31 | 3.48 | 0.19 | 6 | 0.55 | 291 | 2 | 0.01 | 35 | 0.04 | 50 | <1 | 17 | <1 | 0.05 | <1 | 25 | <1 | 60 |
| **AC 09:008** | ≤0.5 | 3.08 | 3 | <1 | <1 | 168 | <1 | 0.19 | 3 | 41 | <1 | 21 | 3.30 | 0.16 | 10 | 0.48 | 685 | 2 | 0.02 | 41 | 0.13 | 11 | 2 | 28 | <1 | 0.09 | <1 | 31 | <1 | 70 |
| **AC 09:009** | ≤0.5 | 3.77 | 2 | <1 | <1 | 243 | <1 | 0.34 | 3 | 42 | <1 | 23 | 3.24 | 0.20 | 9 | 0.48 | 984 | 3 | 0.03 | 37 | 0.22 | 11 | <1 | 37 | <1 | 0.11 | <1 | 47 | <1 | 118 |
| **AC 09:011** | ≤0.5 | 3.28 | 2 | <1 | <1 | 297 | <1 | 0.22 | 2 | 42 | <1 | 21 | 3.17 | 0.15 | 8 | 0.74 | 1555 | 2 | 0.02 | 53 | 0.11 | 9 | 3 | 32 | 5 | 0.10 | <1 | 32 | <1 | 76 |
| **AC 09:012** | ≤0.5 | 3.15 | 2 | <1 | <1 | 251 | <1 | 0.15 | 2 | 40 | <1 | 26 | 3.06 | 0.21 | 5 | 0.58 | 541 | 2 | 0.02 | 29 | 0.13 | <1 | 1 | 23 | <1 | 0.09 | <1 | 38 | <1 | 63 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Sample received on Aug. 20, 2010

Certified by: _____

ISO9001:2008 Certified

# Loring Laboratories(Alberta) Ltd.

629 Beaverdam Road N.E.,
Calgary Alberta T2K 4W7
Tel: 403-274-2777 Fax: 403-275-0541
loringlabs@telus.net

**TO: BRAVEHEART RESOURCES CANADA INC.**
2520 - 16 Street NW
Calgary, Alberta
T2M 3R2

**FILE: 5 3 4 6 9**

**DATE: September 09 , 2010**

ATTN: David Johnston

## 30 ELEMENT ICP ANALYSIS

| Sample No. | Ag ppm | Al % | As ppm | Au ppm | B ppm | Ba ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P % | Pb ppm | Sb ppm | Sr ppm | Th ppm | Ti % | U ppm | V ppm | W ppm | Zn ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AC 09:013** | <0.5 | 2.18 | 5 | <1 | <1 | 110 | <1 | 0.05 | 2 | 43 | <1 | 38 | 3.27 | 0.21 | 8 | 0.78 | 256 | 3 | 0.01 | 43 | 0.04 | 9 | <1 | 19 | 13 | 0.05 | <1 | 25 | <1 | 2 |
| **AC 09:015** | <0.5 | 3.65 | 5 | <1 | 1 | 210 | <1 | 0.12 | 3 | 46 | <1 | 30 | 3.57 | 0.16 | 5 | 0.72 | 306 | 3 | 0.02 | 49 | 0.14 | 8 | <1 | 20 | <1 | 0.09 | <1 | 35 | <1 | 72 |
| **AC 09:016** | <0.5 | 6.23 | 4 | <1 | <1 | 163 | <1 | 0.13 | 3 | 37 | <1 | 49 | 2.92 | 0.17 | 26 | 0.43 | 448 | 3 | 0.08 | 30 | 0.15 | <1 | 2 | 20 | <1 | 0.15 | <1 | 32 | <1 | 16 |
| **AC 09:017** | <0.5 | 1.60 | 5 | <1 | <1 | 82 | <1 | 0.14 | 2 | 34 | <1 | 31 | 2.73 | 0.23 | 15 | 0.69 | 326 | 2 | 0.01 | 29 | 0.05 | 10 | 1 | 16 | <1 | 0.05 | <1 | 21 | <1 | <1 |
| **AC 09:019** | <0.5 | 3.30 | 5 | <1 | 11 | 214 | <1 | 0.08 | 2 | 41 | <1 | 43 | 3.31 | 0.21 | 6 | 0.88 | 390 | 2 | 0.02 | 35 | 0.07 | 6 | 4 | 15 | <1 | 0.09 | <1 | 34 | <1 | 50 |
| **AC 09:020** | <0.5 | 2.30 | 3 | <1 | 20 | 220 | <1 | 0.08 | 2 | 38 | <1 | 30 | 3.05 | 0.20 | 9 | 0.85 | 220 | 2 | 0.01 | 29 | 0.04 | 13 | <1 | 18 | <1 | 0.06 | <1 | 29 | <1 | 40 |
| **AC 09:021** | <0.5 | 3.45 | 4 | <1 | 12 | 402 | <1 | 0.17 | 2 | 40 | 1 | 31 | 3.03 | 0.19 | 10 | 0.88 | 1303 | 3 | 0.02 | 41 | 0.07 | 17 | 2 | 32 | 4 | 0.10 | <1 | 32 | 3 | 77 |
| **AC 09:023** | <0.5 | 1.67 | 7 | <1 | 14 | 94 | <1 | 0.08 | 2 | 36 | <1 | 31 | 2.84 | 0.23 | 23 | 0.84 | 290 | 2 | 0.01 | 29 | 0.03 | 11 | <1 | 14 | 4 | 0.05 | <1 | 23 | <1 | <1 |
| **AC 09:024** | <0.5 | 3.20 | 7 | <1 | 9 | 210 | <1 | 0.08 | 3 | 50 | 8 | 52 | 3.77 | 0.28 | 9 | 0.86 | 290 | 3 | 0.02 | 54 | 0.07 | 11 | <1 | 18 | <1 | 0.08 | <1 | 37 | <1 | 61 |

0.500 Gram sample is digested with multi acid.

Ag using AA finish.

Certified by: _____

Sample received on Aug. 20, 2010