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## **ASSESSMENT REPORT**

describing

### **PROSPECTING, SOIL GEOCHEMICAL SAMPLING AND EXCAVATOR TRENCHING**

at the

### **STRING PROPERTY**

|            |                   |
|------------|-------------------|
| String 1-6 | YD07903-YD07908   |
| 7-24       | YC98477-YC98494   |
| 25-60      | YD112145-YD112180 |
| 61-74      | YD07401-YD07414   |
| 75-90      | YD07415-YD07430   |
| 91-106     | YD112285-YD112300 |
| 107-108    | YD113249-YD113250 |

NTS 105G/09

Latitude 61°34'N; Longitude 130°24'W

located in the

Watson Lake Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**WOLVERINE MINERALS CORP.**  
and  
**STRATEGIC METALS LTD.**

by

C.J. Chung, B.Sc. Geology, GIT

April 2012

## **CONTENTS**

|                                          |    |
|------------------------------------------|----|
| INTRODUCTION                             | 1  |
| PROPERTY LOCATION, CLAIM DATA AND ACCESS | 1  |
| HISTORY AND PREVIOUS WORK                | 2  |
| GEOMORPHOLOGY                            | 3  |
| GEOLOGY                                  | 3  |
| MINERALIZATION                           | 5  |
| SOIL GEOCHEMISTRY                        | 6  |
| MECHANIZED TRENCHING                     | 7  |
| DISCUSSION AND CONCLUSIONS               | 8  |
| REFERENCES                               | 10 |

## **APPENDICES**

|     |                             |
|-----|-----------------------------|
| I   | STATEMENT OF QUALIFICATIONS |
| II  | ROCK SAMPLE DESCRIPTIONS    |
| III | NOTES ON TRENCHES           |
| IV  | CERTIFICATES OF ANALYSIS    |
| V   | TRENCH MAPS                 |

## **FIGURES**

| <b><u>No.</u></b> | <b><u>Description</u></b>                  | <b><u>Follows Page</u></b> |
|-------------------|--------------------------------------------|----------------------------|
| 1                 | Property Location                          | 1                          |
| 2                 | Claim Locations                            | 1                          |
| 3                 | Tectonic Setting                           | 3                          |
| 4                 | Geology                                    | 4                          |
| 5                 | Rock Sample Locations                      | 5                          |
| 6                 | Gold Rock and Trench Soil Geochemistry     | In pocket                  |
| 7                 | Arsenic Rock and Trench Soil Geochemistry  | In pocket                  |
| 8                 | Antimony Rock and Trench Soil Geochemistry | In pocket                  |
| 9                 | Copper Rock and Trench Soil Geochemistry   | In pocket                  |
| 10                | Zinc Rock and Trench Soil Geochemistry     | In pocket                  |
| 11                | Soil Sample Locations                      | In pocket                  |
| 12                | Trench Soil Sample Locations               | In pocket                  |
| 13                | Gold Soil Geochemistry                     | In pocket                  |
| 14                | Arsenic Soil Geochemistry                  | In pocket                  |
| 15                | Antimony Soil Geochemistry                 | In pocket                  |
| 16                | Copper Soil Geochemistry                   | In pocket                  |
| 17                | Zinc Soil Geochemistry                     | In pocket                  |
| 18                | Trench Locations                           | 8                          |

## **TABLES**

|     |                                                       |   |
|-----|-------------------------------------------------------|---|
| I   | Highlight Gold Intercepts from RP97-01 and RP97-02    | 2 |
| II  | Lithological Units                                    | 4 |
| III | Anomalous Thresholds and Peak Values for Soil Samples | 7 |
| IV  | Significant Trenching Results from the 2011 Program   | 8 |

## **INTRODUCTION**

The String property covers strong, generally coincident gold-arsenic-antimony soil anomalies, located in southeastern Yukon Territory. Wolverine Minerals Corp. can earn a 100% interest in the property subject to an option agreement with Strategic Metals Ltd.

This report describes a work program that was conducted intermittently between June 14 and August 8, 2011. Exploration performed included prospecting, soil sampling and excavator trenching. Archer, Cathro & Associates (1981) Limited performed soil sampling and trenching on behalf of Wolverine, while an individual prospector contracted by Wolverine carried out prospecting. The author compiled and interpreted the 2011 data, and her Statement of Qualifications appears in Appendix I.

## **PROPERTY LOCATION, CLAIM DATA AND ACCESS**

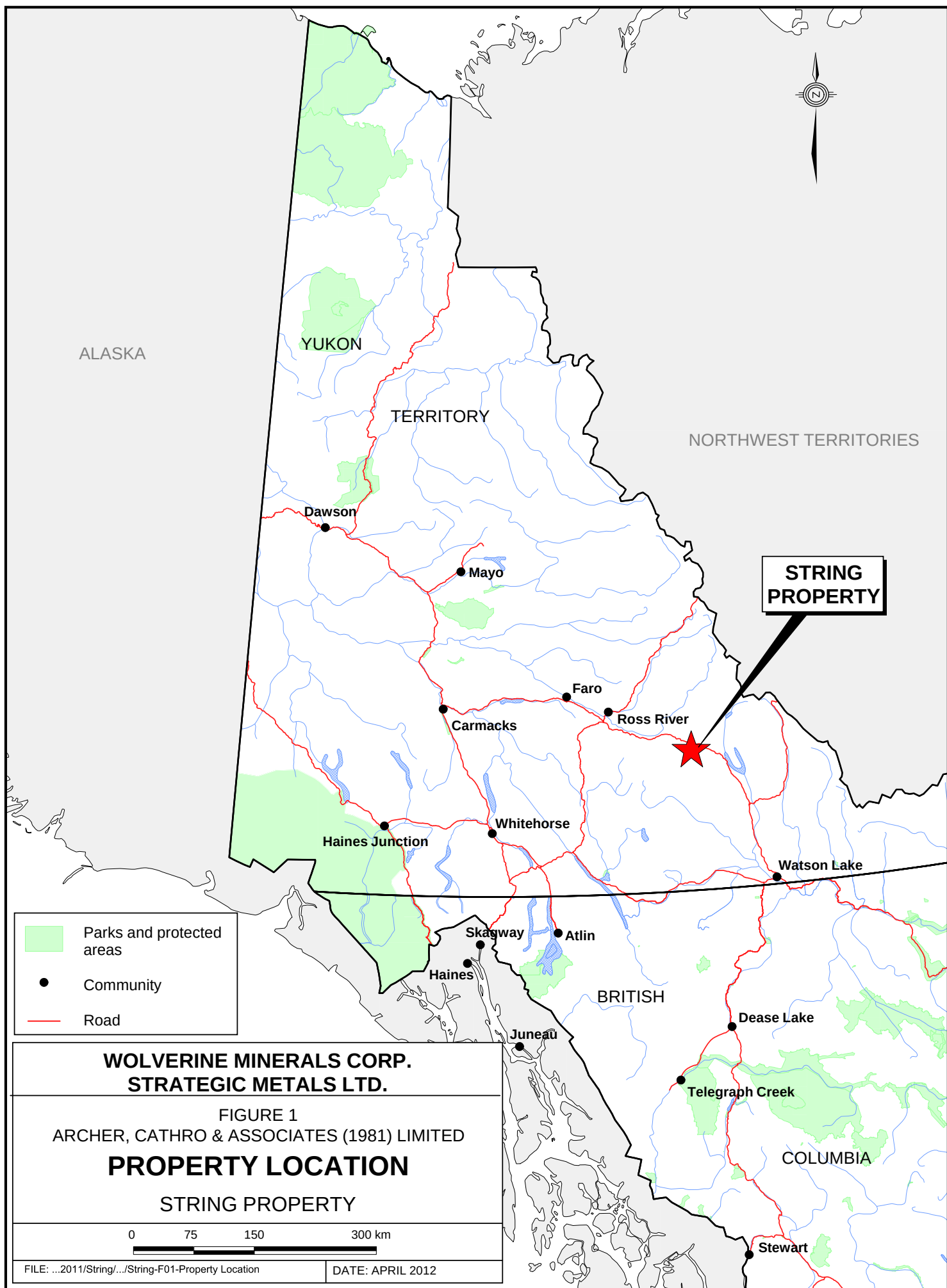
The String property comprises 108 contiguous mineral claims, 48 of which were staked during summer 2011. The claims are located in southeastern Yukon on the NTS map sheet 105G/09 at latitude 61°34' north and longitude 130°24' west (Figure 1). They cover a total area of approximately 2200 ha (22 km<sup>2</sup>) and are registered with the Watson Lake Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic. Specifics concerning claim registration are listed below, while the locations of individual claims are shown on Figure 2.

| <u>Claim Name</u> | <u>Grant Number</u> | <u>Expiry Date*</u> |
|-------------------|---------------------|---------------------|
| String 1-6        | YD07903-YD07908     | March 31, 2019      |
| 7-24              | YD98477-YC98494     | March 31, 2019      |
| 25-60             | YD112145-YD112180   | March 31, 2016      |
| 61-74             | YD07401-YD07414     | March 31, 2017      |
| 75-90             | YD07415-YD07430     | March 31, 2017      |
| 91-106            | YD112285-YD112300   | March 31, 2017      |
| 107-108           | YD113249-YD113250   | March 31, 2017      |

\* Expiry date includes 2011 work that has been filed for assessment credit.

In 2011, access to and from the property for both the soil samplers and prospector was provided by a Hughes 500D helicopter owned and operated by Kluane Airways Ltd. from the Inconnu Fishing Lodge on McEvoy Lake, which is located approximately 28 km northeast of the property. The trenching program was done by a four-person crew from a fly camp on the property.

The String property lies about 115 km northwest of the community of Ross River, the nearest supply centre. Road access for the property is via the Robert Campbell Highway, which crosses the northernmost part of the claim block. The Robert Campbell Highway is usable in all seasons by two wheel drive vehicles.



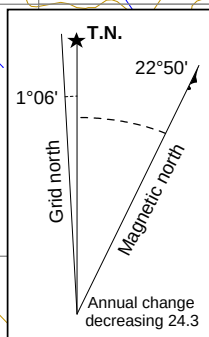
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STRATEGIC METALS LTD.**

**FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
CLAIM LOCATIONS  
STRING PROPERTY**

0 200 1000 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-F02-Claims.wor

DATE: APRIL 2012



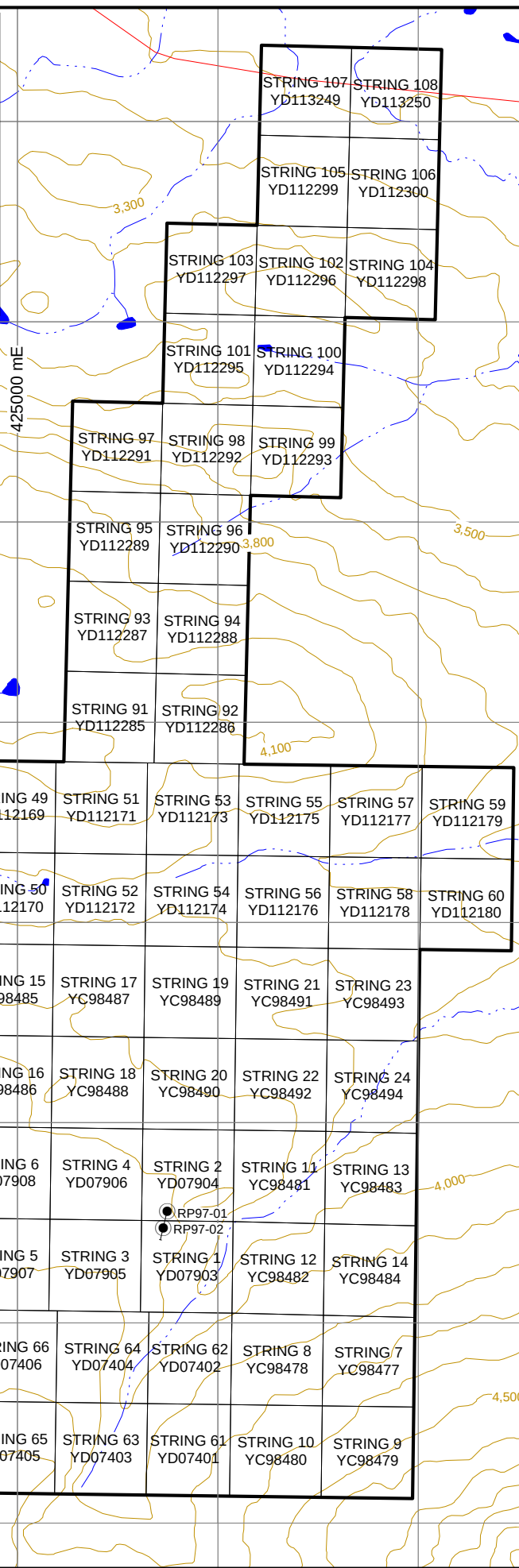
● 1997 diamond drill hole

6 830 000 mN

6 828 000 mN

6 826 000 mN

|                      |                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| STRING 89<br>YD07429 | STRING 90<br>YD07430 | STRING 35<br>YD112155 | STRING 36<br>YD112156 | STRING 47<br>YD112167 | STRING 48<br>YD112168 | STRING 49<br>YD112169 | STRING 51<br>YD112171 | STRING 53<br>YD112173 | STRING 55<br>YD112175 | STRING 57<br>YD112177 | STRING 59<br>YD112179 |
| STRING 87<br>YD07427 | STRING 88<br>YD07428 | STRING 33<br>YD112153 | STRING 34<br>YD112154 | STRING 45<br>YD112165 | STRING 46<br>YD112166 | STRING 50<br>YD112170 | STRING 52<br>YD112172 | STRING 54<br>YD112174 | STRING 56<br>YD112176 | STRING 58<br>YD112178 | STRING 60<br>YD112180 |
| STRING 85<br>YD07425 | STRING 86<br>YD07426 | STRING 31<br>YD112151 | STRING 32<br>YD112152 | STRING 43<br>YD112163 | STRING 44<br>YD112164 | STRING 15<br>YC98485  | STRING 17<br>YC98487  | STRING 19<br>YC98489  | STRING 21<br>YC98491  | STRING 23<br>YC98493  |                       |
| STRING 83<br>YD07423 | STRING 84<br>YD07424 | STRING 29<br>YD112149 | STRING 30<br>YD112150 | STRING 41<br>YD112161 | STRING 42<br>YD112162 | STRING 16<br>YC98486  | STRING 18<br>YC98488  | STRING 20<br>YC98490  | STRING 22<br>YC98492  | STRING 24<br>YC98494  |                       |
| STRING 81<br>YD07421 | STRING 82<br>YD07422 | STRING 27<br>YD112147 | STRING 28<br>YD112148 | STRING 39<br>YD112159 | STRING 40<br>YD112160 | STRING 6<br>YD07908   | STRING 4<br>YD07906   | STRING 2<br>YD07904   | STRING 11<br>YC98481  | STRING 13<br>YC98483  |                       |
| STRING 79<br>YD07419 | STRING 80<br>YD07420 | STRING 25<br>YD112145 | STRING 26<br>YD112146 | STRING 37<br>YD112157 | STRING 38<br>YD112158 | STRING 5<br>YD07907   | STRING 3<br>YD07905   | STRING 1<br>YD07903   | STRING 12<br>YC98482  | STRING 14<br>YC98484  |                       |
| STRING 77<br>YD07417 | STRING 78<br>YD07418 | STRING 74<br>YD07414  | STRING 72<br>YD07412  | STRING 70<br>YD07410  | STRING 68<br>YD07408  | STRING 66<br>YD07406  | STRING 64<br>YD07404  | STRING 62<br>YD07402  | STRING 8<br>YC98478   | STRING 7<br>YC98477   |                       |
| STRING 75<br>YD07415 | STRING 76<br>YD07416 | STRING 73<br>YD07413  | STRING 71<br>YD07411  | STRING 69<br>YD07409  | STRING 67<br>YD07407  | STRING 65<br>YD07405  | STRING 63<br>YD07403  | STRING 61<br>YD07401  | STRING 10<br>YC98480  | STRING 9<br>YC98479   |                       |



## **HISTORY AND PREVIOUS WORK**

In 1995, Westmin Resources Limited staked a large claim block comprising several properties that were part of its Wolverine Regional Project (Terry *et al.*, 1997). The southern portion of Westmin's Rope property overlapped with the current String claims. That year, Westmin completed an airborne geophysical survey over its entire claim block.

In 1996, Westmin conducted geological mapping, rock sampling, regional-scale soil sampling along claim lines, localized grid soil sampling, contour soil sampling and stream sediment sampling on its various Wolverine Regional Project claims (Terry *et al.*, 1997).

In 1997, Westmin completed more detailed work to follow up encouraging results from its 1996 program (Terry, 1998). This work comprised line cutting, soil sampling, geological mapping and diamond drilling in two holes. Westmin did not analyze its soil samples for arsenic or antimony. Two diamond drill holes, totalling 325.5 m, tested beneath a small kill zone within a very strong gold-in-soil anomaly. The locations of the drill holes are shown on Figure 2. Disseminated and coarse-grained aggregates of pyrite were reported, mostly with quartz veining. No base metal minerals were noted and, aside from the pyritic quartz veins, no apparent cause for the anomalous soil geochemistry was observed in the drill core. Both holes were sampled from top to bottom and results are summarized in Table I.

**Table I – Highlight Gold Intercepts from RP97-01 and RP97-02 (after Terry, 1998)**

| <b>Hole</b> | <b>From<br/>(m)</b> | <b>To<br/>(m)</b> | <b>Length<br/>(m)</b> | <b>Au<br/>(g/t)</b> | <b>As<br/>(ppm)</b> | <b>Sb<br/>(ppm)</b> |
|-------------|---------------------|-------------------|-----------------------|---------------------|---------------------|---------------------|
| RP97-01     | 56.0                | 78.6              | 22.6                  | 0.117               | NR                  | NR                  |
| including   | 69.7                | 78.6              | 8.9                   | 0.157               | NR                  | NR                  |
| RP97-01     | 166.7               | 172.1             | 5.4                   | 0.192               | 1816                | 22                  |
| RP97-02     | 33.6                | 35.1              | 1.5                   | 0.265               | 2350                | 8.8                 |
| RP97-02     | 45.0                | 47.0              | 2.0                   | 0.511               | 1830                | 28                  |
| RP97-02     | 64.4                | 65.8              | 1.4                   | 0.115               | 70                  | 26                  |

NR – Not reported

The Rope claims were subsequently allowed to lapse without any further work being done on the ground now covered by the String property.

Strategic staked the String 1 to 6 claims in December 2009, and added the String 7 to 24 claims in June 2010. A soil geochemical sampling program conducted that year identified a southeast trending gold-arsenic-antimony anomaly that is supported locally by elevated zinc values. Strategic added the String 25 to 60 claims in October 2010 (Eaton, 2011).

The property was optioned to Wolverine in fall 2010.

## **GEOMORPHOLOGY**

The String property covers low knolls at the northern edge of the Campbell Range within the Pelly Mountains. Creeks draining the property flow northward into the Finlayson River, which ultimately connects to the Arctic Ocean via the Liard and Mackenzie rivers.

Local elevations on the property range from about 945 to 1400 m above sea level (asl). Topographic relief is gentle (0 to 10°). Little or no outcrop is present on the property and it is mostly blanketed by Pleistocene colluvium deposits and glacial till.

The entire property lies below treeline, which is at approximately 1400 m asl in the area. Vegetation consists of stands of stunted black spruce and poplar with an understorey of alder, willow, low shrubs and moss.

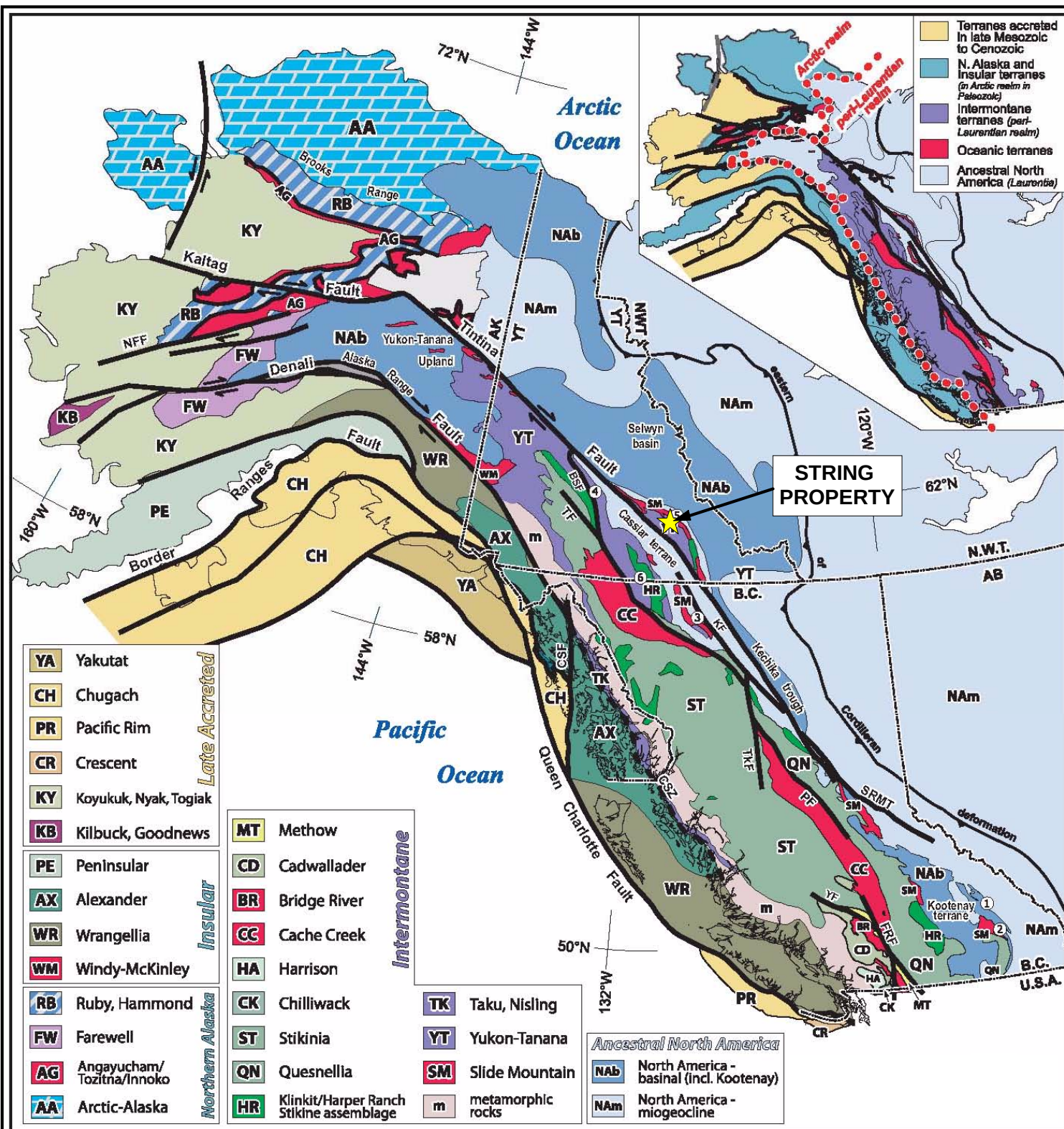
Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago (Yukon Geological Survey, 2010). Finlayson Lake map area was affected by three lobes of that ice sheet. The Cassiar lobe, which flowed in a northwesterly direction, covered the area southwest of the Pelly Mountains. The Liard lobe, which flowed east to southeast, covered the area southeast of the Pelly Mountains. The area north of the Pelly Mountains was covered by the east-northeast flowing Selwyn lobe. A complex system of ice-caps and cirque glaciers was active at high elevations in the Pelly Mountains and contributed to the ice bodies surrounding them.

The climate in the String property area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from early June to late September.

## **GEOLOGY**

The String property, though not of primary interest for base metals, lies within the Finlayson Lake Volcanogenic Massive Sulphide (VMS) District. This district has been the focus of numerous government and industry sponsored studies due to its VMS potential. The Geological Survey of Canada mapped the Finlayson Lake area (NTS map sheet 105G) twice at 1:250,000 scale (Wheeler *et al.*, 1960 and Tempelman-Kluit, 1977). In the late 1990s and early 2000s, the Yukon Geological Survey performed more detailed (1:50,000 scale) mapping in the area and in 2002, it completed a geological compilation that updated the lithological names (Bond *et al.*, 2002). In 2003, Gordey and Makepeace incorporated this data into a Yukon-wide geological compilation. No detailed geological mapping has been completed within the area now covered by the String property due to the lack of outcrop and, as such, the following geological descriptions are largely based on the published government data.

The Finlayson Lake District comprises an isolated outlier of Yukon-Tanana and Slide Mountain terranes and affiliated overlap assemblages (Figure 3). The district is bounded by the Tintina Fault to the southwest and the Inconnu Thrust Fault to the northeast.



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FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# TECTONIC SETTING

## STRING PROPERTY

0 300 km

Yukon-Tanana and Slide Mountain terranes represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during late Devonian and through Permian (Piercey *et al.*, 2001). Pericratonic rocks of Yukon-Tanana Terrane and oceanic rocks of Slide Mountain Terrane are juxtaposed against rocks of the North American continental margin sequence along the post-Late Triassic Inconnu Thrust Fault (Murphy *et al.*, 2006). Yukon-Tanana and Slide Mountain terranes in the Finlayson Lake District are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies metasedimentary and metavolcanic rocks and affiliated metaplutonic suites.

Prior to the Late Triassic, the Yukon-Tanana Terrane experienced regional shortening and uplift. This terrane was imbricated with mid-Paleozoic Slide Mountain Terrane after the Late Triassic and the resultant structural stack was subsequently thrust onto the North American continental margin before the Mid-Cretaceous (Murphy *et al.*, 2006).

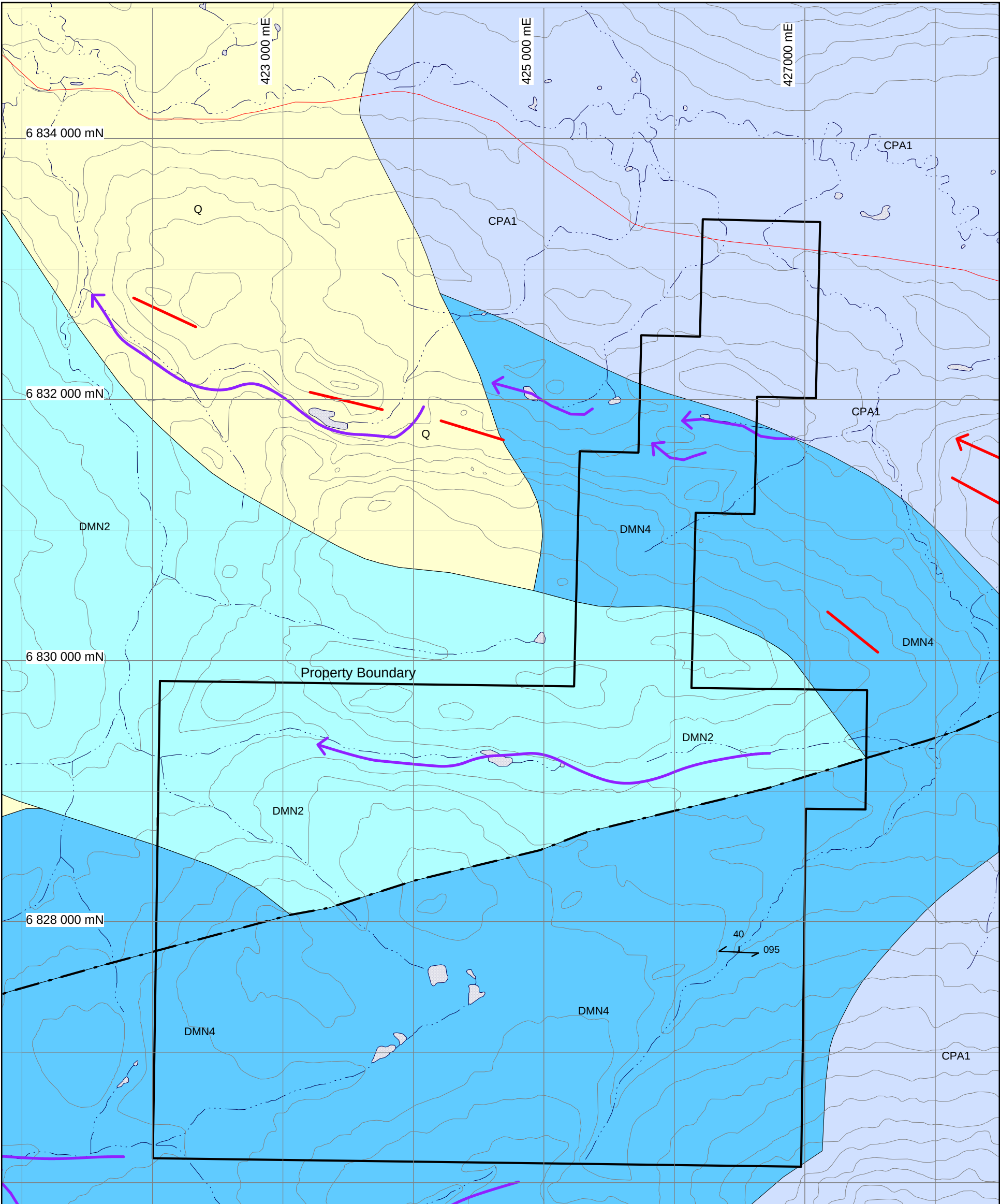
During the Mesozoic era two types of intrusion were emplaced in the Finlayson Lake District. The first includes several unmetamorphosed Early Jurassic mafic and intermediate composition plutons. The second consists of Late Cretaceous two-mica quartz monzonite and granite (Mortensen and Jilson, 1985).

In the String property area, Yukon-Tanana Terrane is represented by Devonian, Mississippian and older(?) Nasina Assemblage (DMN2, DMN4), while Slide Mountain Terrane is assigned to Carboniferous to Permian Anvil Group (CPA1). Thick quaternary cover is mapped to the northwest of the property.

The main lithological units in the area are described in greater detail in Table II, while geology around the String property is shown on Figure 4.

**Table II – Lithological Units (after Gordey and Makepeace, 2003)**

| Unit Name         | Map Name | Age                      | Terrane        | Description                                                                                                                                                                                                                                               |
|-------------------|----------|--------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Q        | Quaternary               |                | Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand and gravel, and local volcanic ash, in part with cover of soil and organic deposits.                                                                              |
| Anvil Group       | CPA1     | Carboniferous to Permian | Slide Mountain | Variably altered and foliated, locally augite-phyric basalt (local pillows), diorite and gabbro, chlorite greenstone, amphibolite greenstone and amphibolite; minor metachert, siliceous argillite or siltstone, greywacke, tuff and siliceous limestone. |
| Nasina Assemblage | DMN2     | Devonian, Mississippian  | Yukon-Tanana   | Marble.                                                                                                                                                                                                                                                   |



Normal fault

Strike and dip of foliation

Glacial movement (direction known, unknown)

Subglacial and proglacial meltwater channel

Q

unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

CPA1

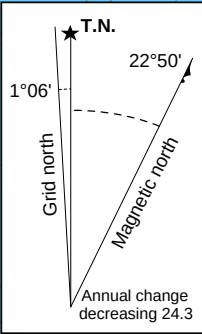
1. variably altered and foliated, locally augite-phyric basalt (local pillows), diorite and gabbro, chlorite greenstone, amphibolitic greenstone and amphibolite; minor metachert, siliceous argillite or siltstone, greywacke, tuff and siliceous limestone.

DMN2

2. marble

DMN4

4. quartzite, micaceous quartzite, quartz muscovite(and/or chlorite; feldspar augen) schist, minor metaconglomerate and metagrit.



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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY

STRING PROPERTY

00.51

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-F04-Geology.wor

DATE: APRIL 2012

|  |      |                                         |                  |                                                                                                                                 |
|--|------|-----------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  |      | and Older                               |                  |                                                                                                                                 |
|  | DMN4 | Devonian,<br>Mississippian<br>and Older | Yukon-<br>Tanana | Quartzite, micaceous quartzite, quartz muscovite ( $\pm$ chlorite; feldspar augen) schist, minor metaconglomerate and metagrit. |

Rusty listwanite float has been reported in many soil pits and trenches on the property. The source of this material has not yet been identified, but it likely was derived from an alteration zone developed within Anvil Group.

Regional mapping has inferred that an east-northeasterly trending normal fault bisects the property. Foliation in the area strikes easterly to southeasterly and dips shallowly to the north or northeast.

### **MINERALIZATION**

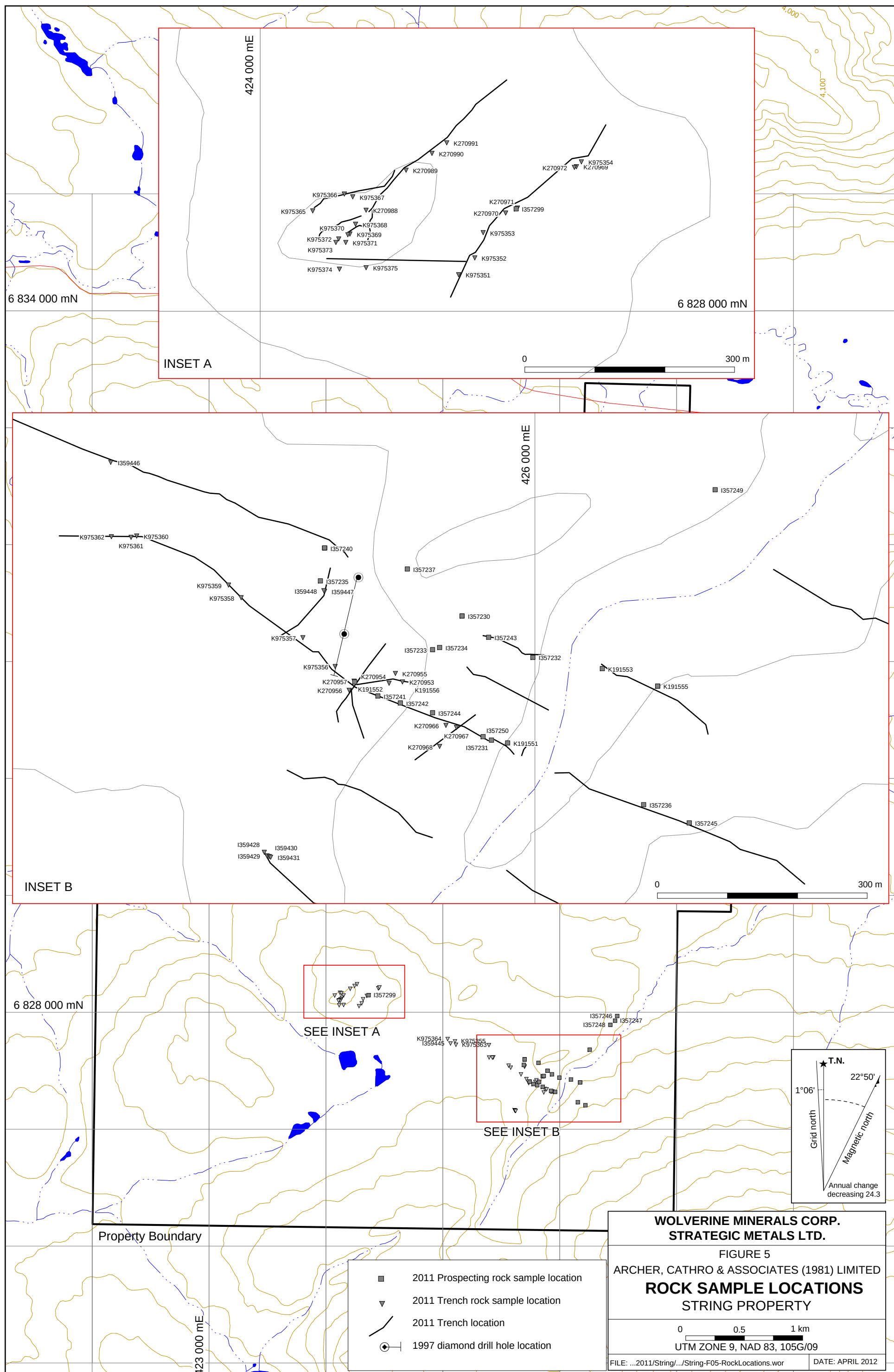
Drilling by Westmin in 1997 identified the primary lithology as fine-grained clastic sediments hosting pyrite. Graphitic argillites and siltstones with interbedded units of pale green mafic tuff were intersected by both holes. Pyrite was seen throughout the core as disseminations and coarse-grained aggregates and is commonly associated with quartz veining. No base metal minerals were noted.

During prospecting in 2011, 29 rock samples were taken in the area with historical soil geochemical anomalies. Another 49 grab samples were taken during the trenching program. These specimens were taken from float and outcrops on steep slopes where it was not possible for the excavators to dig trenches.

Preparation of rock samples was carried out at ALS Chemex in Whitehorse, Yukon, where each sample was dried and fine crushed to better than 70% passing -2 mm before a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then sent to ALS Chemex in North Vancouver, British Columbia, where splits were analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (Au-AA24 and ME-ICP41).

All rock sample locations are illustrated on Figure 5 while results for gold, arsenic, antimony, copper and zinc are plotted on Figures 6 to 10, respectively. Descriptions for the rock samples collected during prospecting are given in Appendix II, rock specimens collected during trenching are described in Appendix III and Certificates of Analysis are located in Appendix IV.

Samples collected were mostly dark grey to black graphitic mudstone, often foliated. Volcanic rocks, such as basalt and probably lapilli tuff, were also sampled. The volcanics generally weather to orange-brown on exterior surfaces and occasionally exhibit limonite on fractures. Quartz veining is commonly present and several samples of vein material were also taken.



Most rock samples yielded background to slightly elevated values for gold. The best sample collected during prospecting returned 343 ppb gold and 3380 ppm arsenic. Other metals were weakly to strongly anomalous, returning up to 76 ppm for antimony, up to 261 ppm copper and up to 120 ppm zinc.

One sample collected during the trenching program returned coincident elevated values for gold (2,570 ppb), arsenic (2,650 ppm), antimony (>1%), copper (3.51%) and zinc (5,510 ppm) in the centre of the property. This sample was from a small boulder of finely to coarsely crystalline vuggy quartz with abundant tetrahedrite, malachite and azurite.

### **SOIL GEOCHEMISTRY**

In 1996 and 1997, Westmin collected reconnaissance- and detailed-scale grid soil samples in the area now covered by the String property. The highest gold value (2,460 ppb) was returned from a sample taken within a one metre diameter orange soil exposure (kill zone?). In 2010, Strategic extended and infilled the southern part of Westmin's grid in order to follow up this very strong gold-in-soil anomaly. This work defined an approximately 1200 by 400 m, southeasterly elongated gold-arsenic-antimony anomaly in the south-central part of the property. The anomalous area is defined by values of 50 to 2,460 ppb gold, 50 to 6,700 ppm arsenic and 5 to 55 ppm antimony (Eaton, 2011). In 2011, two more soil grids were sampled in other parts of the property and soil samples were taken along the floor of some newly excavated trenches.

A total of 1702 soil samples were collected in 2011, with 1536 samples taken from the new soil grids and the remaining 166 were taken at three to five metre spacings along trench floors that did not reach bedrock.

Locations for trench floor soil sample were determined using a hard-chain to survey distances, while locations for grid samples were established using hand-held GPS units. All sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Trench floor samples were dug using augers attached to the booms of CanDig excavators. The material was collected at or near the soil-bedrock interface. Grid samples were dug using hand-held augers and were collected as deep in the soil profile as ground conditions allowed, which was typically between 30 and 60 cm below surface. Each sample was placed into an individually pre-numbered Kraft paper bag.

All soil samples were sent to ALS Chemex, where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21).

Figure 11 illustrates the 2011 grid soil samples locations while Figure 12 shows the locations of the trench floor soil samples. Results for grid soil samples along with historical values for gold, arsenic, antimony, copper and zinc are plotted on Figures 13 to 17, respectively, while trench floor samples results for the same elements are shown with rock geochemistry on

Figures 6 to 10. Westmin did not analyze its samples for arsenic or antimony. Table III shows the anomalous thresholds, while the Certificates of Analysis are provided in Appendix IV.

**Table III – Anomalous Thresholds and Peak Values for Soil Samples**

| <b>Element</b>  | <b>Threshold Values (ppm)</b> |                    |               | <b>Peak (ppm)</b> |                  |                    |
|-----------------|-------------------------------|--------------------|---------------|-------------------|------------------|--------------------|
|                 | <i>Weak</i>                   | <i>Moderate</i>    | <i>Strong</i> | <i>Historical</i> | <i>2011 Grid</i> | <i>2011 Trench</i> |
| <b>Gold</b>     | $\geq 0.02 < 0.05$            | $\geq 0.05 < 0.20$ | $\geq 0.20$   | 2.46              | 1.11             | 2.12               |
| <b>Arsenic</b>  | $\geq 100 < 200$              | $\geq 200 < 500$   | $\geq 500$    | 6700              | 10100            | 10100              |
| <b>Antimony</b> | $\geq 10 < 20$                | $\geq 20 < 50$     | $\geq 50$     | 55                | 283              | 93                 |
| <b>Copper</b>   | $\geq 100 < 200$              | $\geq 200 < 500$   | $\geq 500$    | 1150              | 625              | 377                |
| <b>Zinc</b>     | $\geq 200 < 500$              | $\geq 500 < 1000$  | $\geq 1000$   | 6450              | 2640             | 3490               |

In previously untrenched areas, an approximately 1800 by 500 m anomalous zone is defined in the centre of the property (Zone A). It comprises anomalous arsenic and antimony with several coincident elevated gold values. This zone appears to be the northwest extension of the southeast trending gold-arsenic-antimony zone defined in 2010. The highest values returned from Zone A are 416 ppb gold, 4,260 ppm arsenic and 283 ppm antimony. Copper and zinc also returned strongly elevated values (up to 625 ppm and up to 1320 ppm, respectively). Two other small and less defined anomalies were also noted. The first, Zone B, is located about 400 m southwest of Zone A while the other, Zone C, is located at the south-central boundary of the claim block. Zone B is approximately 800 by 200 m in size and returned 676 ppb gold, 4230 ppm arsenic and 34 ppm antimony with background copper and zinc values. Zone C is a loosely defined area of about 500 by 400 m with coincident weakly to moderately elevated arsenic (up to 251 ppm), weakly to strongly elevated antimony (up to 76 ppm) and copper (up to 368 ppm) values. Other isolated samples with elevated gold, copper, and zinc values are scattered through the eastern part of the property.

Trench floor soil samples often produced higher values than that obtained from overlying soil samples, particularly for gold (up to 2,120 ppb) and zinc (up to 3,490 ppm). In some cases, the trench floor soil samples are also significantly higher than nearby bedrock samples, suggesting that mineralized zones may have weathered recessively compared to unmineralized bedrock and may be hidden by a deeper layer of soil.

### **MECHANIZED TRENCHING**

A mechanized trenching program was carried out in 2011 using two helicopter-portable CanDig excavators. The CanDigs were disassembled and flown by a Bell 206B helicopter to the property. Trenching was often impeded by permafrost and swampy ground, where it was impossible to dig past the organic layer. In other areas, the CanDigs were unable to penetrate through overburden composed of poorly sorted till.

Twenty-eight trenches, totalling in 4481.9 m, were dug. However, bedrock was often not reached and only 1557.1 m were mapped and sampled. Where trenches exposed bedrock, continuous chip sampling was done at one to five metre intervals. Where trenches did not reach

bedrock, soil samples were taken at or near the soil-bedrock interface along the trench floor. Grab samples were also collected where interesting but discontinuous subcrop was exposed. Results for specimen rock and soil samples are discussed respectively in the Mineralization and Soil Geochemistry sections above. The analytical techniques used for continuous chip samples are the same as those described for rock samples in the Mineralization section.

Figure 18 shows the location of the trenches, with highlighting showing mapped and chip sampled sections. Notes on the trenching are located in Appendix IV, while detailed cross sections displaying geology and chip sample numbers are presented in Appendix V.

Grab samples collected from the trenches were mainly comprised of fine-grained, well-laminated/foliated graphitic argillite with calcite and quartz veining or iron-carbonate altered metavolcanics. Vein material is massive, vuggy, white quartz, often with orange-yellow alteration, possibly indicating the presence of iron carbonate.

**Table IV – Significant trenching results from the 2011 program**

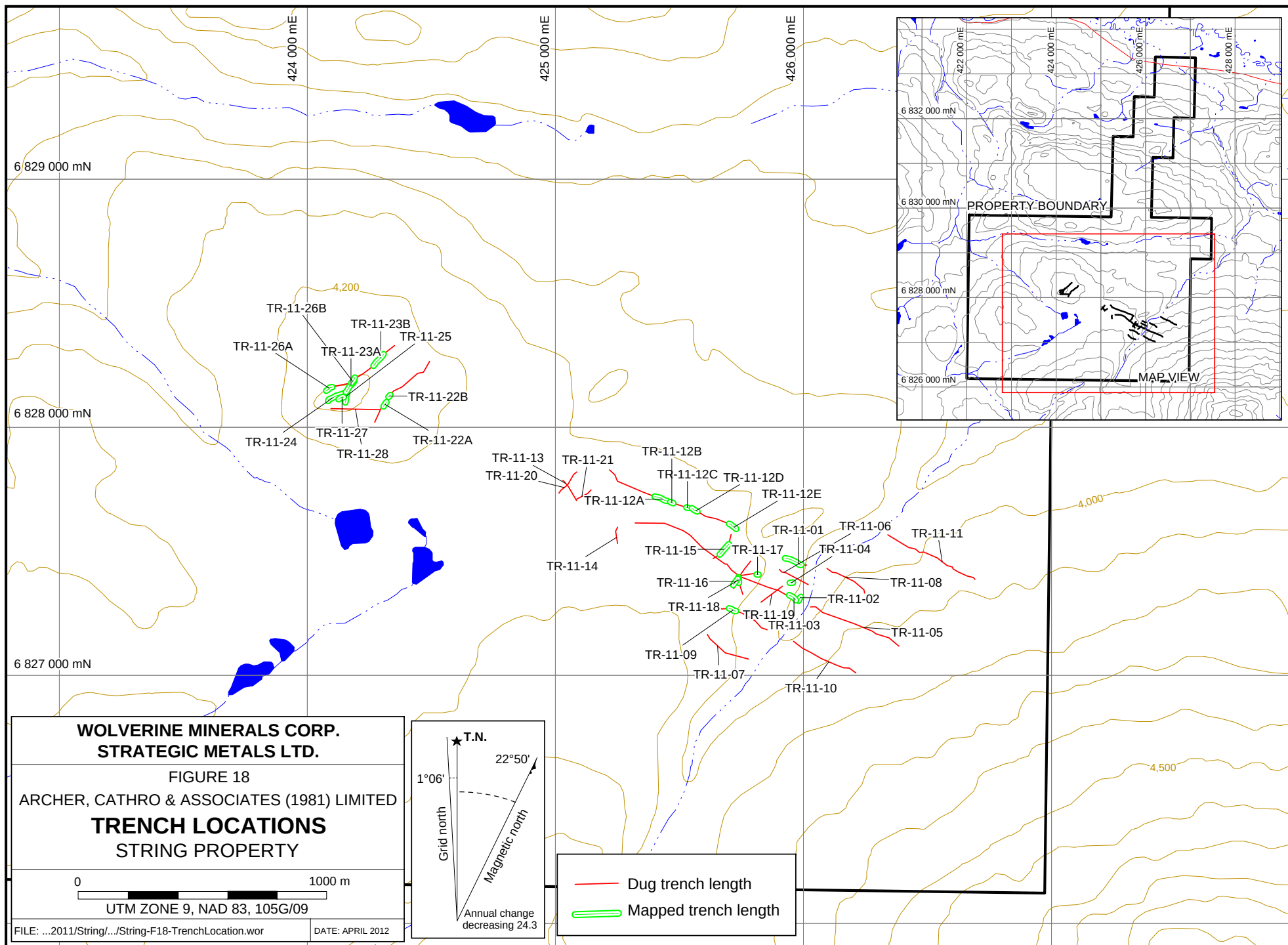
| Trench    | From (m) | To (m) | Length (m) | Gold (ppb) | Arsenic (ppm) | Antimony (ppm) | Copper (ppm) | Zinc (ppm) |
|-----------|----------|--------|------------|------------|---------------|----------------|--------------|------------|
| TR-11-01  | 40       | 45     | 5          | 8          | 67            | 7              | 194          | 1120       |
| TR-11-03  | 27       | 32     | 5          | 2.5        | 110           | 4              | 38           | 103        |
| TR-11-03  | 32       | 38     | 6          | 11         | 231           | 6              | 74           | 72         |
| TR-11-12E | 12       | 16     | 4          | 104        | 62            | 19             | 76           | 159        |
| TR-11-12E | 16       | 20     | 4          | 159        | 65            | 15             | 72           | 229        |

## **DISCUSSION AND CONCLUSIONS**

The String property hosts highly prospective, extensive, largely coincident gold-arsenic-antimony±zinc soil geochemical anomalies in low-lying, previously glaciated, subdued terrain. Closely-spaced grid soil samples collected by Strategic in 2010 and Wolverine in 2011 confirmed the tenor of historical soil geochemical data and extended and better defined the known anomalies.

Two historical diamond drill holes tested below the highest gold value obtained from grid soil sampling. Although intervals with elevated gold values were obtained from both holes, values were sub economic. Similar results have been obtained within orogenic deposits in fault-offset areas in western Yukon (i.e. White Gold). More drilling should be done in that area.

Soil sample grids in 2011 extended the known anomaly to the northwest and discovered two more anomalous zones. Trenching and prospecting returned some high gold values from grab samples and deep profile soil samples; however, continuous chip samples returned lower values than those from nearby soil samples. This may be due to the preferential breakdown of the mineralized bedrock, which may be hidden beneath deep frozen soil, or to glacial deposition from an unidentified source.



Glacial transport could have caused a down-ice shift in the location and distribution of the observed soil anomalies. The regional glacial movement in the area was reportedly from east-southeast to west-northwest (Jackson, 1993). If glacial movement was directed to the northwest and if it caused a shift in the location and distribution of the soil anomaly, then the anomalous values in the northwestern part of the property may have sourced from veins or altered rocks located along a strong fault that is inferred to bisect the property. A detailed study of the local glacial movements and geomorphology should be undertaken prior to future field work on the property in order to determine possible source areas.

The gold potential at the String property is largely unevaluated and, as such, definitely warrants additional work. Mapping and detailed prospecting should be performed in the newly define anomalous areas, paying particular attention to kill zones. If encouraging values are returned, a track-mounted reverse circulation percussion drill could be used to drill sections of holes across the most anomalous areas. Systematic diamond drilling could then be undertaken to test beneath zones identified by the percussion holes. If no mineralization is intersected in bedrock directly beneath the anomalies but elevated values are still present in deep soils, a second phase of percussion drilling should attempt to trace the gold up-ice to its source.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



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**APPENDIX I**

**STATEMENT OF QUALIFICATIONS**

### **STATEMENT OF QUALIFICATIONS**

I, Crystal J Chung, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Burnaby, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2005 with a B.Sc. majoring in Earth and Ocean Sciences (Geology).
2. From 2004 to present, I have been actively engaged in mineral exploration in British Columbia, Alaska and the Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 138321).
4. I have personally reviewed and interpreted all data resulting from this work.



C. J. Chung, B.Sc. Geology, GIT

**APPENDIX II**

**ROCK SAMPLE DESCRIPTIONS**

| Rock Sample Descriptions                                                                                                                                                                                 |            |          | Project: <u>Finlayson</u> |           | Property: <u>String</u>  |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|---------------------------|-----------|--------------------------|----------------------------|
| Sample Number:                                                                                                                                                                                           | Grid East: | E        | Grid North:               | N         | Type: <u>grab</u>        | Dimension:                 |
| I357299                                                                                                                                                                                                  | UTM:       | 424365 E | UTM:                      | 6828146 N | Sample Width:            | Abundance:                 |
|                                                                                                                                                                                                          | Elevation: | m        |                           |           |                          |                            |
| Comments: trench exposure; grey slate with sericitic sheen; pitted with limonite; silicification                                                                                                         |            |          |                           |           |                          |                            |
|                                                                                                                                                                                                          |            |          |                           |           |                          |                            |
| Sample Number:                                                                                                                                                                                           | Grid East: | E        | Grid North:               | N         | Type: <u>subcrop</u>     | Dimension: <u>pit</u>      |
| I357229                                                                                                                                                                                                  | UTM:       | 425896 E | UTM:                      | 6827500 N | Sample Width:            | Abundance: <u>common</u>   |
|                                                                                                                                                                                                          | Elevation: | m        |                           |           |                          |                            |
| Comments: BK moderately hard MST with frequent irregular Qz veinlets and pathes with a frothy pitted texture. Fragments derived from underlying bedrock. Near hilltop.                                   |            |          |                           |           |                          |                            |
|                                                                                                                                                                                                          |            |          |                           |           |                          |                            |
| Sample Number:                                                                                                                                                                                           | Grid East: | E        | Grid North:               | N         | Type: <u>subcrop</u>     | Dimension: <u>pit</u>      |
| I357230                                                                                                                                                                                                  | UTM:       | 425896 E | UTM:                      | 6827500 N | Sample Width:            | Abundance: <u>moderate</u> |
|                                                                                                                                                                                                          | Elevation: | m        |                           |           |                          |                            |
| Comments: WH Qz VEN material.                                                                                                                                                                            |            |          |                           |           |                          |                            |
|                                                                                                                                                                                                          |            |          |                           |           |                          |                            |
| Sample Number:                                                                                                                                                                                           | Grid East: | E        | Grid North:               | N         | Type: <u>till clasts</u> | Dimension:                 |
| I357231                                                                                                                                                                                                  | UTM:       | 425938 E | UTM:                      | 6827323 N | Sample Width:            | Abundance: <u>moderate</u> |
|                                                                                                                                                                                                          | Elevation: | m        |                           |           |                          |                            |
| Comments: WH Qz VEN fragments cut by veinlets of RD'sh BN Li? With patches of powdery WH mineral. Also, patches of Pale YW-BN Cb. Possible vfg, trace GY Sx? Some fragments bounded by GY graphitic MST. |            |          |                           |           |                          |                            |
|                                                                                                                                                                                                          |            |          |                           |           |                          |                            |
| Sample Number:                                                                                                                                                                                           | Grid East: | E        | Grid North:               | N         | Type: <u>till clasts</u> | Dimension:                 |
| I357232                                                                                                                                                                                                  | UTM:       | 425997 E | UTM:                      | 6827441 N | Sample Width:            | Abundance: <u>moderate</u> |
|                                                                                                                                                                                                          | Elevation: | m        |                           |           |                          |                            |
| Comments: MA WH Qz with patches of vfg, RD'sh BN Li. Patches of a sooty BK mineral, cut by Qz-Cb veinlets.                                                                                               |            |          |                           |           |                          |                            |
|                                                                                                                                                                                                          |            |          |                           |           |                          |                            |
| Sample Number:                                                                                                                                                                                           | Grid East: | E        | Grid North:               | N         | Type: <u>subcrop</u>     | Dimension:                 |
| I357233                                                                                                                                                                                                  | UTM:       | 425854 E | UTM:                      | 6827452 N | Sample Width:            | Abundance: <u>abundant</u> |
|                                                                                                                                                                                                          | Elevation: | m        |                           |           |                          |                            |
| Comments: Dull, GY, strongly foliated MST.                                                                                                                                                               |            |          |                           |           |                          |                            |

| Rock Sample Descriptions                                                                                       |            |          | Project: <u>Finlayson</u> | Property: <u>String</u> |                  |                             |
|----------------------------------------------------------------------------------------------------------------|------------|----------|---------------------------|-------------------------|------------------|-----------------------------|
| Sample Number:                                                                                                 | Grid East: | E        | Grid North:               | N                       | Type: float      | Dimension:                  |
| I357234                                                                                                        | UTM:       | 425864 E | UTM:                      | 6827455 N               | Sample Width:    | Abundance: locally common   |
|                                                                                                                | Elevation: | m        |                           |                         |                  |                             |
| Comments: Dull, DK GY MST with sooty, BK fracture coating & patches of frothy, siliceous material. Hard.       |            |          |                           |                         |                  |                             |
|                                                                                                                |            |          |                           |                         |                  |                             |
| Sample Number:                                                                                                 | Grid East: | E        | Grid North:               | N                       | Type: till clast | Dimension: pit              |
| I357235                                                                                                        | UTM:       | 425694 E | UTM:                      | 6827550 N               | Sample Width:    | Abundance: common           |
|                                                                                                                | Elevation: | m        |                           |                         |                  |                             |
| Comments: OR rock, almost entirely decomposed. Vfg Li with some irregular Qz veinlets. Very few MST fragments. |            |          |                           |                         |                  |                             |
|                                                                                                                |            |          |                           |                         |                  |                             |
| Sample Number:                                                                                                 | Grid East: | E        | Grid North:               | N                       | Type: till clast | Dimension:                  |
| I357236                                                                                                        | UTM:       | 426155 E | UTM:                      | 6827231 N               | Sample Width:    | Abundance: ?                |
|                                                                                                                | Elevation: | m        |                           |                         |                  |                             |
| Comments: OR clast. Almost decomposed. Li (Fe-Cb colouring), clay and the occasional Qz veinlet.               |            |          |                           |                         |                  |                             |
|                                                                                                                |            |          |                           |                         |                  |                             |
| Sample Number:                                                                                                 | Grid East: | E        | Grid North:               | N                       | Type: subcrop    | Dimension:                  |
| I357237                                                                                                        | UTM:       | 425818 E | UTM:                      | 6827567 N               | Sample Width:    | Abundance: locally abundant |
|                                                                                                                | Elevation: | m        |                           |                         |                  |                             |
| Comments: DK GY, foliated MST. Patches of OR (>YW) Li on fractures.                                            |            |          |                           |                         |                  |                             |
|                                                                                                                |            |          |                           |                         |                  |                             |
| Sample Number:                                                                                                 | Grid East: | E        | Grid North:               | N                       | Type: subcrop    | Dimension:                  |
| I357238                                                                                                        | UTM:       | 425700 E | UTM:                      | 6827597 N               | Sample Width:    | Abundance: common           |
|                                                                                                                | Elevation: | m        |                           |                         |                  |                             |
| Comments: Dull, DK GY graphitic MST.                                                                           |            |          |                           |                         |                  |                             |
|                                                                                                                |            |          |                           |                         |                  |                             |
| Sample Number:                                                                                                 | Grid East: | E        | Grid North:               | N                       | Type: till clast | Dimension:                  |
| I357239                                                                                                        | UTM:       | 425700 E | UTM:                      | 6827597 N               | Sample Width:    | Abundance: ?                |
|                                                                                                                | Elevation: | m        |                           |                         |                  |                             |
| Comments: MA WH Qz VEN with vuggy Li patches and veinlets.                                                     |            |          |                           |                         |                  |                             |

| Rock Sample Descriptions                                                                                   |            |                     | Project: <u>Finlayson</u> |                      | Property: <u>String</u>   |                     |
|------------------------------------------------------------------------------------------------------------|------------|---------------------|---------------------------|----------------------|---------------------------|---------------------|
| Sample Number:                                                                                             | Grid East: | E                   | Grid North:               | N                    | Type: <b>till clast</b>   | Dimension:          |
| I357240                                                                                                    | UTM:       | 425700 E            | UTM:                      | 6827597 N            | Sample Width:             | Abundance: ?        |
|                                                                                                            | Elevation: | m                   |                           |                      |                           |                     |
| Comments: Moderately hard, DK GY, sil MST. Frequent irregular Qz veinlets.                                 |            |                     |                           |                      |                           |                     |
|                                                                                                            |            |                     |                           |                      |                           |                     |
| Sample Number:                                                                                             | Grid East: | E                   | Grid North:               | N                    | Type: <b>subcrop</b>      | Dimension:          |
| I357241                                                                                                    | UTM:       | 425776 E            | UTM:                      | 6827386 N            | Sample Width: ?           | Abundance:          |
|                                                                                                            | Elevation: | m                   |                           |                      |                           |                     |
| Comments: RD'sh BN silty material with Qz VEN fragments from bottom of trench                              |            |                     |                           |                      |                           |                     |
|                                                                                                            |            |                     |                           |                      |                           |                     |
| Sample Number:                                                                                             | Grid East: | E                   | Grid North:               | N                    | Type: <b>till clast</b>   | Dimension:          |
| I357242                                                                                                    | UTM:       | <div>345808</div> E | UTM:                      | <div>6827376</div> N | Sample Width:             | Abundance: somewhat |
|                                                                                                            | Elevation: | m                   |                           |                      |                           |                     |
| Comments: OR clast (mainly Li or Fe-Cb) with fine dark veinlets, irregular Qz patches & remnant GN patches |            |                     |                           |                      |                           |                     |
|                                                                                                            |            |                     |                           |                      |                           |                     |
| Sample Number:                                                                                             | Grid East: | E                   | Grid North:               | N                    | Type: <b>trench float</b> | Dimension:          |
| I357243                                                                                                    | UTM:       | 425934 E            | UTM:                      | 6827472 N            | Sample Width:             | Abundance: rare     |
|                                                                                                            | Elevation: | m                   |                           |                      |                           |                     |
| Comments: WH Qz VEN (~5cm) with Li patches.                                                                |            |                     |                           |                      |                           |                     |
|                                                                                                            |            |                     |                           |                      |                           |                     |
| Sample Number:                                                                                             | Grid East: | E                   | Grid North:               | N                    | Type: <b>till clast</b>   | Dimension:          |
| I357244                                                                                                    | UTM:       | 425854 E            | UTM:                      | 6827362 N            | Sample Width:             | Abundance: rare     |
|                                                                                                            | Elevation: | m                   |                           |                      |                           |                     |
| Comments: Soft, GY, aphanitic lattice with OR-BN Li interstitial material. Vein material?                  |            |                     |                           |                      |                           |                     |
|                                                                                                            |            |                     |                           |                      |                           |                     |
| Sample Number:                                                                                             | Grid East: | E                   | Grid North:               | N                    | Type: <b>till clast</b>   | Dimension:          |
| I357245                                                                                                    | UTM:       | 426220 E            | UTM:                      | 6827205 N            | Sample Width:             | Abundance: uncommon |
|                                                                                                            | Elevation: | m                   |                           |                      |                           |                     |
| Comments: MD to DK GY, moderately hard sil MST. Some graphitic fractures.                                  |            |                     |                           |                      |                           |                     |

| Rock Sample Descriptions                                                                                                                                                                                                                                        |            |          | Project: <u>Finlayson</u> |           | Property: <u>String</u> |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|---------------------------|-----------|-------------------------|-----------------------|
| Sample Number:                                                                                                                                                                                                                                                  | Grid East: | E        | Grid North:               | N         | Type: float             | Dimension:            |
| I357246                                                                                                                                                                                                                                                         | UTM:       | 426492 E | UTM:                      | 6827968 N | Sample Width:           | Abundance: rare       |
|                                                                                                                                                                                                                                                                 | Elevation: | m        |                           |           |                         |                       |
| Comments: MD GY MST, slightly waxy, dense? RD'sh BN weathering. Small piece of float from near MST subcrop.                                                                                                                                                     |            |          |                           |           |                         |                       |
|                                                                                                                                                                                                                                                                 |            |          |                           |           |                         |                       |
| Sample Number:                                                                                                                                                                                                                                                  | Grid East: | E        | Grid North:               | N         | Type: grab              | Dimension: 3m outcrop |
| I357247                                                                                                                                                                                                                                                         | UTM:       | 426475 E | UTM:                      | 6827932 N | Sample Width:           | Abundance:            |
|                                                                                                                                                                                                                                                                 | Elevation: | m        |                           |           |                         |                       |
| Comments: Foliated BK MST. Li on fractures.                                                                                                                                                                                                                     |            |          |                           |           |                         |                       |
|                                                                                                                                                                                                                                                                 |            |          |                           |           |                         |                       |
| Sample Number:                                                                                                                                                                                                                                                  | Grid East: | E        | Grid North:               | N         | Type: float             | Dimension:            |
| I357248                                                                                                                                                                                                                                                         | UTM:       | 426433 E | UTM:                      | 6827889 N | Sample Width:           | Abundance: abundant   |
|                                                                                                                                                                                                                                                                 | Elevation: | m        |                           |           |                         |                       |
| Comments: BN weathering boulders of LT GN GY, vfg, soft BAS. Locally up to several % Py.                                                                                                                                                                        |            |          |                           |           |                         |                       |
|                                                                                                                                                                                                                                                                 |            |          |                           |           |                         |                       |
| Sample Number:                                                                                                                                                                                                                                                  | Grid East: | E        | Grid North:               | N         | Type: grab              | Dimension: 5m outcrop |
| I357249                                                                                                                                                                                                                                                         | UTM:       | 426260 E | UTM:                      | 6827681 N | Sample Width:           | Abundance:            |
|                                                                                                                                                                                                                                                                 | Elevation: | m        |                           |           |                         |                       |
| Comments: LT GN GY, vfg, soft BAS. OR BN weathering. White powdery fracture coating.                                                                                                                                                                            |            |          |                           |           |                         |                       |
|                                                                                                                                                                                                                                                                 |            |          |                           |           |                         |                       |
| Sample Number:                                                                                                                                                                                                                                                  | Grid East: | E        | Grid North:               | N         | Type: outcrop           | Dimension: 1m outcrop |
| I357250                                                                                                                                                                                                                                                         | UTM:       | 435926 E | UTM:                      | 6827328 N | Sample Width:           | Abundance:            |
|                                                                                                                                                                                                                                                                 | Elevation: | m        |                           |           |                         |                       |
| Comments: Outcrop of broken vein material partly exposed (1m, orientation uncertain) in the bottom of the trench. WH Qz VEN with LT OR staining on fractures. Patches of soft YW-WH clayey mineral make up up to 3 % of the rock. Occasional small patch of Li. |            |          |                           |           |                         |                       |
|                                                                                                                                                                                                                                                                 |            |          |                           |           |                         |                       |
| Sample Number:                                                                                                                                                                                                                                                  | Grid East: | E        | Grid North:               | N         | Type: float             | Dimension:            |
| K191551                                                                                                                                                                                                                                                         | UTM:       | 425961 E | UTM:                      | 6827319 N | Sample Width:           | Abundance: abundant   |
|                                                                                                                                                                                                                                                                 | Elevation: | m        |                           |           |                         |                       |
| Comments: Probable lapilli tuff with pale YW-GN, vfg matrix. ~10% subangular, pale GN, aphanitic lapilli. MD GY blebs of Cb occur in variable amounts up to 10%.                                                                                                |            |          |                           |           |                         |                       |

| Rock Sample Descriptions                                                                    |            |          | Project: <u>Finlayson</u> |           | Property: <u>String</u> |                          |
|---------------------------------------------------------------------------------------------|------------|----------|---------------------------|-----------|-------------------------|--------------------------|
| Sample Number:                                                                              | Grid East: | E        | Grid North:               | N         | Type: <u>trench o/c</u> | Dimension: <u>2m</u>     |
| K191552                                                                                     | UTM:       | 425741 E | UTM:                      | 6827407 N | Sample Width:           | Abundance:               |
|                                                                                             | Elevation: | m        |                           |           |                         |                          |
| Comments: LT to DK GY, LT OR (fec) weathering banded MST. ~2% irregular Qz veinlets.        |            |          |                           |           |                         |                          |
|                                                                                             |            |          |                           |           |                         |                          |
| Sample Number:                                                                              | Grid East: | E        | Grid North:               | N         | Type: <u>till clast</u> | Dimension:               |
| K191553                                                                                     | UTM:       | 426096 E | UTM:                      | 6827425 N | Sample Width:           | Abundance: <u>rare</u>   |
|                                                                                             | Elevation: | m        |                           |           |                         |                          |
| Comments: BK MST with frequent irregular Qz veinlets & patches of 'frothy' textured silica. |            |          |                           |           |                         |                          |
|                                                                                             |            |          |                           |           |                         |                          |
| Sample Number:                                                                              | Grid East: | E        | Grid North:               | N         | Type: <u>till clast</u> | Dimension:               |
| K191554                                                                                     | UTM:       | 426175 E | UTM:                      | 6827400 N | Sample Width:           | Abundance: <u>common</u> |
|                                                                                             | Elevation: | m        |                           |           |                         |                          |
| Comments: Pale, GN, hard, aphanitic FEL with OR stained fractures & ~2% Li patches.         |            |          |                           |           |                         |                          |
|                                                                                             |            |          |                           |           |                         |                          |
| Sample Number:                                                                              | Grid East: | E        | Grid North:               | N         | Type: <u>till clast</u> | Dimension:               |
| K191555                                                                                     | UTM:       | 426175 E | UTM:                      | 6827400 N | Sample Width:           | Abundance: <u>common</u> |
|                                                                                             | Elevation: | m        |                           |           |                         |                          |
| Comments: MD GN, soft, aphanitic BAS with minor LT GN (Ep) patches and Li on fractures.     |            |          |                           |           |                         |                          |
|                                                                                             |            |          |                           |           |                         |                          |
| Sample Number:                                                                              | Grid East: | E        | Grid North:               | N         | Type: <u>float</u>      | Dimension:               |
| K191556                                                                                     | UTM:       | 425824 E | UTM:                      | 6827405 N | Sample Width:           | Abundance: <u>rare</u>   |
|                                                                                             | Elevation: | m        |                           |           |                         |                          |
| Comments: from frost boil near high Au/As soil sample. LT GY, hard, aphanitic MA RHY?       |            |          |                           |           |                         |                          |

**APPENDIX III**  
**NOTES ON TRENCHES**

## **STRING PROPERTY NOTES ON TRENCHES**

Most of the trenches as dug contained extensive intervals where either the presence of frozen soil or swampy ground made it impossible to dig past the organic layer. In addition, most only penetrated as far as poorly-sorted till. These factors greatly limited both mapping and sampling of the trenches. Here are notes taken on the non-mapped portions of the trenches, referring to the dominant clast type in the till and any other noteworthy features.

### **TR-11-01**

Mapped and rock-sampled a 73m section from the west end of the trench. The rest of the trench was too shallow to map, mostly only reaching the organic horizon. Where till was reached, soil samples were taken by hand. The dominant clast in the till, as in the mappable portion of the trench, was fine-grained well-laminated/foliated graphitic argillite, with calcite and quartz veining.

### **TR-11-02**

Mapped and rock-sampled the entire 18m length of the trench. The dominant rock type was iron carbonate-altered meta-volcanic.

### **TR-11-03**

Mapped and rock-sampled the entire 38m length of the trench. The dominant rock type was iron carbonate-altered meta-volcanic.

### **TR-11-04**

Mapped and rock-sampled a 13m section at the eastern end of the trench. The rest of the trench was predominantly limited to frozen organic soil, with occasional till exposures, and severe sloughing of any deeper regions. The dominant clast in the till, and rock type in the mapped section, was finely laminated/foliated graphitic argillite. Sections of the trench were soil-sampled using a CanDig auger. Where significant rock fragments were exposed, spot rock-samples were taken:

*K270966:* Brown/orange iron carbonate-altered meta-volcanic tuff, and vuggy coarse crystalline quartz with brown/orange alteration.

*K975356:* Fragmented argillite with extensive brown/orange alteration.

*K975357:* Extensive angular blocks (up to boulder-sized) of vuggy quartz, with red/orange alteration. Occasional argillite presence.

*K975358:* Approximately 2m of good exposure of fractured and fragmented fissile argillite.

*K975359:* Vuggy massive limonitized quartz float in brown/grey till.

*K975360:* Argillite. Extensive brown/orange colouration in till and on weathering surfaces of rock fragments. Occasional calcite-rich floats.

*K975361:* White massive quartz with minor limonite and yellow alteration, with scattered argillite fragments.

*K975362:* Approximately 5m of possible bedrock, strongly jointed and sheeted. Well-foliated micaceous argillite, with extensive yellow/brown alteration on weathering surfaces and red/orange on fractures. Extensive limonitized quartz floats.

### **TR-11-05, TR-11-06, TR-11-08, TR-11-10, TR-11-11**

Did not penetrate past the organic horizon or shallow till with very rounded clasts. Where possible, soil samples were taken by hand.

**TR-11-07**

Did not penetrate past the organic horizon, except for approximately 20m of unsorted, rounded to sub-rounded till at the western end. The dominant clast in the till was fissile finely-laminated/foliated graphitic argillite, with extensive red/orange alteration on fracture surfaces perpendicular to foliation. Significant angular to sub-angular massive quartz clasts were also present.

**TR-11-09**

Mapped and rock-sampled a 31m section near the west end of the trench.

The rest of the trench was too shallow to map, mostly only reaching the organic horizon. Where till was reached, soil samples were taken by hand. The dominant rock type was finely laminated/foliated graphitic argillite, with extensive quartz and calcite veining.

**TR-11-12**

Mapped and rock-sampled five sections along the length of the trench.

The rest of the trench was too shallow to map, mostly passing through swampy organic material. Occasionally grey till was reached, with the dominant clast being finely-foliated graphitic argillite, with quartz and calcite veining. This is consistent with the fragmented rock seen in the mapped sections. Soil samples were taken along the unmapped sections, as well as spot rock-sample /359446, an exposure of the argillite.

**TR-11-13**

In very swampy ground, largely filled with water. In some places the trench was deep enough to turn up unsorted brown till. The dominant clast was fine-grained grey/green carbonate-altered meta-volcanic, with calcite inclusions and minor mica content. Foliated argillite and massive quartz were also present. Where till was reached, soil samples were taken by hand, as well as spot rock-sample /359445, an exposure of the meta-volcanic rock.

**TR-11-14**

In very swampy ground, predominantly filled with water. Only reached the organic horizon and poorly sorted brown/grey till. The dominant clast was foliated grey graphitic argillite, with folded calcite veins. Limonitized massive quartz was also present.

**TR-11-15**

Mapped and rock-sampled a 57m section in the centre of the trench.

South of the mapped section, the trench was shallow and swampy, mostly water-filled, with brown organic soil overlying dark grey till, with argillite the dominant clast. North of the mapped section, the trench again barely passed the organic horizon, with occasional exposures of orange/brown soil containing iron carbonate-altered meta-volcanic clasts. Within the mapped section was the contact between the two rock types.

The trench was soil-sampled using a CanDig auger, and north of the mapped section, spot rock-samples were taken:

/359447: Foliated iron carbonate-altered volcanic tuff with quartz phenocrysts.

/359448: Foliated quartz-rich carbonaceous rock with orange, red, manganese and yellow/green alteration on fractures.

**TR-11-16**

Mapped and rock-sampled a 42m section near the south end of the trench.

South and north of the mapped section, the trench was shallow and water-filled, rich in organic soil, with occasional exposures of dark grey fragmented argillite and quartz chips. The mapped section

contained both argillite and a section of grey/green foliated iron carbonate-altered meta-volcanic rock.

The trench was soil-sampled using a CanDig auger, and spot rock-samples were taken north of the mapped section:

*K270956 & K270957*: Fine dark grey/brown foliated argillite with orange alteration on fractures perpendicular to foliation.

#### **TR-11-17**

Mapped and rock-sampled an 8m section near the northeast end of the trench.

Southwest of the mapped section, the trench was mostly shallow and only dug as far as frozen organic soil, with occasional exposures of grey argillite-dominated till. Closer to the mapped section, there was more exposure of orange/brown soil containing iron carbonate-altered meta-volcanic clasts and massive quartz. The mapped section was dominated by the same meta-volcanic rock type.

The trench was soil-sampled using a CanDig auger, and spot rock-samples were taken southwest of the mapped section:

*K270955*: Orange/brown soil, massive to foliated white quartz chips, with fractured and foliated calcite-rich carbonate-altered fine meta-volcanic tuff. Extensive yellow/orange and red/brown alteration on fractures and weathering surfaces.

*K270954*: Massive foliated quartz, with orange/yellow/brown alteration on fractures and minor manganese. Extensive dirty yellow alteration. This was on the southeast rib of the trench.

*K270953*: On the northwest rib of the trench, opposite *K270954*, iron carbonate-altered grey/green meta-volcanic tuff with calcite inclusions.

#### **TR-11-18**

Mapped and rock-sampled a 23m section near the north end of the trench.

The rest of the trench, where exposed past the organic horizon, consisted of grey poorly-sorted till dominated by fragmented graphitic argillite. The mapped section was dominated by the same rock type.

The trench was soil-sampled using a CanDig auger.

#### **TR-11-19**

Predominantly did not penetrate past the organic horizon, and the trench was mostly water-filled.

Grey till and orange/brown soil were occasionally exposed. The dominant clast type was orange iron carbonate-altered meta-volcanic, with occasional argillite-rich areas.

The trench was soil-sampled using a CanDig auger, and where possible spot rock-samples were taken:

*K270968*: Very altered meta-volcanic, with extensive orange on all fractures. Highly pitted, with calcite inclusions. Minor quartz fragments in the till.

*K270967*: Extensive massive quartz fragments.

#### **TR-11-20**

In very swampy ground, filled with water. Where not organic-rich, the sides consisted of orange/brown soil dominated by grey/green iron carbonate-altered meta-volcanic clasts and extensive quartz fragments, to the south, and grey till dominated by argillite fragments towards the north end. Soil samples were taken by hand, as well as spot rock-sample *K975364*, an exposure of the meta-volcanic rock and the quartz fragments.

**TR-11-21**

In very swampy ground, predominantly water-filled and organic-rich, with occasional exposures of grey soil. The dominant clast type was grey/green iron carbonate-altered meta-volcanic. Soil samples were taken by hand, as well as spot rock-sample K975363, an exposure of the meta-volcanic rock.

**TR-11-22**

Mapped and rock-sampled two sections along the length of the trench.

South of the mapped sections, the trench was mostly shallow and swampy, penetrating only as far as the organic layer, with occasional exposures of grey till. The clasts were dominated by foliated argillite with folded calcite veins, and occasional stretches of brown soil with abundant quartz fragments. Meanwhile, trench TR-11-22A, the regions between the two mapped stretches, and the first half of trench TR-11-22B consisted predominantly of grey/green iron carbonate-altered meta-volcanic tuff. The second half of TR-11-22B was dominated by argillite, as were the clasts north of the mapped sections, where exposed, with occasional quartz fragments.

Soil samples of the unmapped sections were taken by hand, as well as spot rock-samples where enough rocks were exposed:

*K270970*: Light grey/green meta-volcanic, with extensive criss-crossing calcite veins, and iron carbonate alteration.

*K270971*: Argillite, with silver/gold oily alteration on lamination planes, and quartz blocks.

*K270972*: Finely foliated graphitic argillite with calcite and orange-red alteration.

*K270969*: Small boulder of massive, vuggy quartz, fine to coarsely crystalline, with extensive massive tetrahedrite, malachite and azurite, and orange alteration. Substantial quartz fragments in the till.

*K975351*: White and yellow sugary quartz float, with black and orange alteration.

*K975352*: Vuggy quartz, fine to coarsely crystalline, extensive yellow/orange alteration on weathering surfaces.

*K975353*: Quartz float with orange calcite coating.

*K975354*: Vuggy quartz float with extensive limonite alteration.

**TR-11-23**

Mapped and rock-sampled two sections along the length of the trench.

Trench TR-11-23A stretched from the south end of the trench and consisted predominantly of iron carbonate-altered meta-volcanics. Between the mapped sections, the trench was shallow and organic-rich, with occasional exposures of till that varied from meta-volcanic dominated to argillite dominated. By trench TR-11-23B the dominant rock type was argillite.

Soil samples of the unmapped sections were taken by hand, as well as spot rock-samples where enough rocks were exposed:

*K270988*: A sample of the bedrock exposure near the south end of the trench. Grey/green carbonate-altered meta-volcanic with extensive calcite inclusions.

*K270989*: Iron carbonate-altered meta-volcanic.

*K270990*: Foliated argillite with folded quartz veins  $\leq 2$ mm thick.

*K270991*: Foliated argillite.

**TR-11-24**

Mapped and rock-sampled the entire 69m length of the trench. The dominant rock type was iron carbonate-altered meta-volcanic tuff, with massive quartz veins.

**TR-11-25**

Mapped and rock-sampled the entire 45m length of the trench. The dominant rock type was iron carbonate-altered meta-volcanic tuff.

**TR-11-26**

Mapped and sampled two sections along the length of the trench.

The first section, TR-11-26A, was at the southern end of the trench and was dominated by grey/green iron carbonate-altered meta-volcanic tuff. The second section, TR-11-26B, was at the northern end of the trench, and was dominated by a dark grey, more basaltic carbonate-altered meta-volcanic rock, with calcite and mica contents varying to high at the northern end.

The area between the two mapped sections did not penetrate past the organic layer and was mostly filled with water, with occasional exposures of soil and rock fragments, dominated by the grey/green carbonaceous meta-volcanic tuff.

Soil samples of the unmapped sections were taken by hand, as well as spot rock-sample *K975365* from the outcrop near the south end of the trench, and samples *K975366* and *K975367* from the area between the two mapped sections. All the samples were of grey/green carbonate-altered meta-volcanic tuff.

**TR-11-27**

Mapped and rock-sampled the entire 23.5m length of the trench. The dominant rock type was iron carbonate-altered meta-volcanic tuff.

**TR-11-28**

Shallow, mostly did not penetrate past the organic horizon. Occasional exposures of till revealed it to be predominantly grey with more orange-coloured sections. The dominant rock type among the till and rare rock fragments was iron carbonate-altered meta-volcanic tuff, with extensive quartz fragments also present.

Soil samples were taken by hand, as well as spot rock-samples:

*K975374*: Quartz boulder with calcite coating and dark green inclusions.

*K975375*: Massive calcitic quartz fragments in orange/brown soil with iron carbonate-altered meta-volcanic fragments.

**APPENDIX IV**  
**CERTIFICATES OF ANALYSIS**



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981)  
LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

Page: 1  
Finalized Date: 16- JUL- 2011  
Account: F

**CERTIFICATE WH11115561**

Project: Wolverine - Finlayson

P.O. No.:

This report is for 120 Soil samples submitted to our lab in Whitehorse, YT, Canada on 22-JUN- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
2103 Dollarton Hwy  
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1016- 510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Page: 2 - A  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145621           |                                   | 0.22                       | 0.006                  | 0.5                    | 0.41                 | 9                      | <10                   | 210                    | <0.5                   | <2                     | 1.10                 | 1.4                    | 6                      | 9                      | 53                     | 1.98                 |
| CC145622           |                                   | 0.20                       | 0.006                  | 0.2                    | 0.56                 | 13                     | <10                   | 330                    | <0.5                   | <2                     | 1.89                 | <0.5                   | 6                      | 9                      | 28                     | 1.03                 |
| CC145623           |                                   | 0.12                       | 0.039                  | 0.2                    | 0.58                 | <2                     | <10                   | 410                    | <0.5                   | <2                     | 2.19                 | 0.8                    | 5                      | 5                      | 34                     | 0.37                 |
| CC145624           |                                   | 0.40                       | 0.006                  | 0.2                    | 1.56                 | 19                     | <10                   | 480                    | 0.5                    | <2                     | 0.66                 | 1.9                    | 20                     | 98                     | 56                     | 2.94                 |
| CC145625           |                                   | 0.28                       | 0.005                  | 0.2                    | 1.05                 | 8                      | <10                   | 280                    | <0.5                   | <2                     | 1.19                 | 1.3                    | 13                     | 78                     | 39                     | 2.10                 |
| CC145626           |                                   | 0.20                       | 0.008                  | 0.6                    | 1.60                 | 9                      | <10                   | 640                    | 0.6                    | <2                     | 2.26                 | 1.8                    | 17                     | 106                    | 50                     | 2.68                 |
| CC145627           |                                   | 0.18                       | 0.006                  | 0.4                    | 1.75                 | 9                      | <10                   | 660                    | 0.8                    | <2                     | 1.41                 | <0.5                   | 14                     | 96                     | 63                     | 2.66                 |
| CC145628           |                                   | 0.34                       | 0.005                  | 0.3                    | 1.62                 | 9                      | <10                   | 520                    | 0.6                    | <2                     | 0.49                 | <0.5                   | 18                     | 110                    | 43                     | 2.95                 |
| CC145629           |                                   | 0.42                       | 0.003                  | 0.2                    | 1.49                 | 7                      | <10                   | 420                    | <0.5                   | <2                     | 0.26                 | <0.5                   | 16                     | 102                    | 25                     | 2.81                 |
| CC145630           |                                   | 0.52                       | 0.003                  | 0.3                    | 1.41                 | 7                      | <10                   | 240                    | <0.5                   | <2                     | 0.18                 | 0.5                    | 12                     | 74                     | 11                     | 2.34                 |
| CC145631           |                                   | 0.22                       | 0.005                  | 0.4                    | 1.02                 | 13                     | <10                   | 170                    | <0.5                   | <2                     | 0.09                 | <0.5                   | 10                     | 61                     | 22                     | 3.03                 |
| CC145632           |                                   | 0.38                       | 0.005                  | 0.5                    | 0.96                 | 7                      | <10                   | 350                    | <0.5                   | <2                     | 0.67                 | 0.6                    | 11                     | 39                     | 44                     | 2.42                 |
| CC145633           |                                   | 0.56                       | 0.007                  | 0.3                    | 1.25                 | 9                      | <10                   | 310                    | <0.5                   | <2                     | 0.43                 | 0.5                    | 16                     | 66                     | 42                     | 2.76                 |
| CC145634           |                                   | 0.24                       | 0.001                  | <0.2                   | 1.40                 | 5                      | <10                   | 290                    | <0.5                   | <2                     | 0.13                 | <0.5                   | 8                      | 40                     | 14                     | 2.21                 |
| CC145635           |                                   | 0.44                       | 0.002                  | <0.2                   | 1.43                 | 9                      | <10                   | 310                    | <0.5                   | <2                     | 0.17                 | <0.5                   | 13                     | 72                     | 15                     | 2.66                 |
| CC145636           |                                   | 0.38                       | 0.012                  | 0.8                    | 0.76                 | 21                     | <10                   | 400                    | <0.5                   | <2                     | 1.15                 | 1.0                    | 15                     | 21                     | 44                     | 2.77                 |
| CC145637           |                                   | 0.24                       | 0.003                  | 0.3                    | 1.54                 | 10                     | <10                   | 410                    | 0.6                    | <2                     | 1.80                 | 1.6                    | 26                     | 88                     | 26                     | 2.65                 |
| CC145638           |                                   | 0.12                       | 0.007                  | 0.2                    | 1.67                 | 5                      | <10                   | 350                    | 0.6                    | <2                     | 1.15                 | 1.2                    | 23                     | 73                     | 17                     | 2.67                 |
| CC145639           |                                   | 0.14                       | 0.007                  | 0.2                    | 0.95                 | 9                      | <10                   | 570                    | <0.5                   | <2                     | 11.6                 | 1.4                    | 25                     | 37                     | 30                     | 1.50                 |
| CC145640           |                                   | 0.18                       | 0.003                  | 0.4                    | 1.31                 | 7                      | <10                   | 460                    | <0.5                   | <2                     | 1.59                 | 0.7                    | 16                     | 93                     | 39                     | 2.30                 |
| CC145641           |                                   | 0.34                       | 0.004                  | 0.2                    | 1.44                 | 10                     | <10                   | 410                    | 0.5                    | <2                     | 0.92                 | <0.5                   | 17                     | 92                     | 33                     | 2.58                 |
| CC145642           |                                   | 0.24                       | 0.004                  | 0.4                    | 1.44                 | 9                      | <10                   | 280                    | <0.5                   | <2                     | 0.96                 | 0.8                    | 17                     | 101                    | 30                     | 2.87                 |
| CC145643           |                                   | 0.16                       | 0.012                  | 0.4                    | 1.08                 | 61                     | <10                   | 570                    | <0.5                   | <2                     | 0.65                 | 0.5                    | 37                     | 109                    | 26                     | 3.28                 |
| CC145644           |                                   | 0.12                       | 0.019                  | 0.4                    | 0.88                 | 39                     | <10                   | 450                    | <0.5                   | <2                     | 1.00                 | 5.2                    | 38                     | 195                    | 63                     | 3.24                 |
| CC145645           |                                   | 0.24                       | 0.012                  | 3.0                    | 0.44                 | 25                     | <10                   | 460                    | <0.5                   | <2                     | 0.38                 | 2.5                    | 6                      | 20                     | 45                     | 1.38                 |
| CC145646           |                                   | 0.16                       | 0.006                  | <0.2                   | 0.63                 | 20                     | <10                   | 460                    | <0.5                   | <2                     | 0.45                 | 0.8                    | 5                      | 13                     | 27                     | 2.12                 |
| CC145647           |                                   | 0.16                       | 0.024                  | 1.8                    | 0.38                 | 26                     | <10                   | 340                    | <0.5                   | <2                     | 0.35                 | 1.3                    | 5                      | 12                     | 51                     | 1.73                 |
| CC145648           |                                   | 0.16                       | 0.017                  | 2.7                    | 0.91                 | 27                     | <10                   | 610                    | <0.5                   | <2                     | 1.16                 | 4.1                    | 14                     | 26                     | 172                    | 1.80                 |
| CC145649           |                                   | 0.16                       | 0.037                  | 1.0                    | 0.66                 | 47                     | <10                   | 450                    | <0.5                   | <2                     | 0.65                 | 3.0                    | 15                     | 21                     | 101                    | 3.01                 |
| CC145650           |                                   | 0.18                       | 0.014                  | 1.9                    | 0.60                 | 65                     | <10                   | 300                    | <0.5                   | <2                     | 0.32                 | 1.1                    | 7                      | 20                     | 71                     | 2.46                 |
| CC145651           |                                   | 0.26                       | 0.006                  | 0.2                    | 0.92                 | 55                     | <10                   | 180                    | <0.5                   | <2                     | 1.54                 | <0.5                   | 11                     | 21                     | 29                     | 2.55                 |
| CC145652           |                                   | 0.16                       | 0.013                  | 0.6                    | 0.78                 | 40                     | <10                   | 220                    | <0.5                   | <2                     | 1.32                 | 1.0                    | 30                     | 29                     | 82                     | 4.51                 |
| CC145653           |                                   | 0.46                       | 0.010                  | 0.8                    | 1.02                 | 33                     | <10                   | 280                    | 0.5                    | <2                     | 0.51                 | 1.4                    | 15                     | 47                     | 80                     | 3.16                 |
| CC145654           |                                   | 0.46                       | 0.006                  | 0.6                    | 1.10                 | 17                     | <10                   | 200                    | <0.5                   | <2                     | 2.83                 | 1.7                    | 16                     | 32                     | 60                     | 2.79                 |
| CC145655           |                                   | 0.50                       | 0.008                  | 0.7                    | 1.05                 | 14                     | <10                   | 250                    | <0.5                   | <2                     | 0.49                 | 1.2                    | 14                     | 56                     | 59                     | 2.27                 |
| CC145656           |                                   | 0.20                       | 0.003                  | 0.2                    | 0.92                 | 9                      | <10                   | 190                    | <0.5                   | <2                     | 2.19                 | <0.5                   | 11                     | 17                     | 23                     | 2.34                 |
| CC145657           |                                   | 0.26                       | 0.007                  | 0.3                    | 0.84                 | 46                     | <10                   | 290                    | <0.5                   | <2                     | 2.44                 | <0.5                   | 12                     | 25                     | 36                     | 2.56                 |
| CC145658           |                                   | 0.22                       | 0.042                  | 0.4                    | 1.10                 | 100                    | <10                   | 260                    | <0.5                   | <2                     | 1.06                 | 0.8                    | 24                     | 36                     | 53                     | 4.79                 |
| CC145659           |                                   | 0.28                       | 0.004                  | 0.2                    | 1.16                 | 79                     | <10                   | 290                    | <0.5                   | <2                     | 1.70                 | 0.5                    | 16                     | 31                     | 34                     | 3.16                 |
| CC145660           |                                   | 0.22                       | 0.004                  | <0.2                   | 1.45                 | 23                     | <10                   | 380                    | <0.5                   | <2                     | 2.31                 | <0.5                   | 28                     | 76                     | 61                     | 4.44                 |



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Page: 2 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145621           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.16                         | 650                         | 2                           | 0.01                         | 28                          | 840                         | 14                          | 0.08                        | 4                           | 2                           | 65                          |
| CC145622           |                                   | <10                          | <1                          | 0.05                        | <10                          | 0.27                         | 393                         | 1                           | 0.02                         | 16                          | 1050                        | 10                          | 0.09                        | <2                          | 1                           | 101                         |
| CC145623           |                                   | <10                          | 1                           | 0.02                        | <10                          | 0.23                         | 232                         | 1                           | 0.02                         | 16                          | 810                         | 4                           | 0.15                        | <2                          | 1                           | 130                         |
| CC145624           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.04                         | 421                         | 1                           | 0.01                         | 125                         | 770                         | 15                          | 0.06                        | <2                          | 5                           | 37                          |
| CC145625           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.06                         | 420                         | 1                           | 0.01                         | 118                         | 650                         | 25                          | 0.53                        | <2                          | 3                           | 56                          |
| CC145626           |                                   | <10                          | 1                           | 0.09                        | 10                           | 1.13                         | 1260                        | 2                           | 0.01                         | 148                         | 980                         | 13                          | 0.12                        | 2                           | 4                           | 102                         |
| CC145627           |                                   | <10                          | <1                          | 0.10                        | 10                           | 1.16                         | 530                         | 1                           | 0.01                         | 207                         | 650                         | 11                          | 0.07                        | <2                          | 5                           | 57                          |
| CC145628           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.21                         | 861                         | 1                           | 0.01                         | 129                         | 610                         | 15                          | 0.03                        | <2                          | 5                           | 23                          |
| CC145629           |                                   | <10                          | <1                          | 0.07                        | 20                           | 1.07                         | 470                         | 1                           | 0.01                         | 85                          | 390                         | 13                          | 0.02                        | <2                          | 3                           | 16                          |
| CC145630           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.93                         | 592                         | 1                           | 0.01                         | 61                          | 540                         | 9                           | 0.01                        | <2                          | 2                           | 13                          |
| CC145631           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.60                         | 299                         | 5                           | 0.01                         | 47                          | 350                         | 15                          | 0.05                        | 3                           | 2                           | 24                          |
| CC145632           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.45                         | 383                         | 3                           | 0.01                         | 58                          | 570                         | 15                          | 0.04                        | 2                           | 3                           | 42                          |
| CC145633           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.81                         | 429                         | 2                           | 0.01                         | 79                          | 790                         | 13                          | 0.02                        | <2                          | 5                           | 26                          |
| CC145634           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.51                         | 231                         | 1                           | 0.01                         | 27                          | 100                         | 10                          | 0.01                        | <2                          | 2                           | 20                          |
| CC145635           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.86                         | 331                         | 1                           | 0.01                         | 64                          | 300                         | 12                          | 0.01                        | <2                          | 2                           | 12                          |
| CC145636           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.26                         | 727                         | 3                           | <0.01                        | 56                          | 1390                        | 14                          | 0.03                        | 5                           | 3                           | 32                          |
| CC145637           |                                   | <10                          | 1                           | 0.09                        | 20                           | 1.00                         | 1375                        | 1                           | 0.01                         | 114                         | 1990                        | 14                          | 0.05                        | <2                          | 4                           | 27                          |
| CC145638           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.41                         | 889                         | 1                           | 0.01                         | 74                          | 490                         | 14                          | 0.02                        | <2                          | 4                           | 17                          |
| CC145639           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.30                         | 426                         | 1                           | 0.01                         | 60                          | 1790                        | 8                           | 0.07                        | <2                          | 1                           | 63                          |
| CC145640           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.15                         | 683                         | 1                           | 0.01                         | 113                         | 650                         | 14                          | 0.05                        | <2                          | 3                           | 36                          |
| CC145641           |                                   | <10                          | 1                           | 0.09                        | 20                           | 1.23                         | 507                         | 1                           | 0.01                         | 116                         | 670                         | 13                          | 0.03                        | <2                          | 5                           | 33                          |
| CC145642           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.25                         | 555                         | 1                           | 0.01                         | 86                          | 650                         | 53                          | 0.04                        | <2                          | 4                           | 37                          |
| CC145643           |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.77                         | 1235                        | 10                          | <0.01                        | 87                          | 1350                        | 18                          | 0.04                        | 7                           | 3                           | 52                          |
| CC145644           |                                   | <10                          | 2                           | 0.07                        | 10                           | 0.47                         | 981                         | 9                           | 0.01                         | 319                         | 1210                        | 12                          | 0.10                        | 8                           | 4                           | 71                          |
| CC145645           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.07                         | 343                         | 9                           | 0.01                         | 15                          | 1970                        | 25                          | 0.06                        | 6                           | 1                           | 94                          |
| CC145646           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.14                         | 85                          | 4                           | <0.01                        | 15                          | 850                         | 12                          | 0.04                        | 5                           | 1                           | 36                          |
| CC145647           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.16                         | 131                         | 14                          | <0.01                        | 26                          | 1210                        | 22                          | 0.08                        | 10                          | 1                           | 63                          |
| CC145648           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.29                         | 1785                        | 8                           | 0.01                         | 82                          | 1820                        | 14                          | 0.15                        | 9                           | 2                           | 124                         |
| CC145649           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.22                         | 1155                        | 7                           | 0.01                         | 58                          | 1870                        | 15                          | 0.05                        | 21                          | 2                           | 79                          |
| CC145650           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.13                         | 265                         | 7                           | 0.01                         | 32                          | 1460                        | 12                          | 0.05                        | 7                           | 1                           | 57                          |
| CC145651           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.53                         | 262                         | 1                           | 0.02                         | 30                          | 890                         | 12                          | 0.06                        | 2                           | 2                           | 64                          |
| CC145652           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.30                         | 632                         | 4                           | 0.01                         | 142                         | 1330                        | 9                           | 0.07                        | 6                           | 3                           | 69                          |
| CC145653           |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.67                         | 522                         | 7                           | 0.01                         | 99                          | 1050                        | 17                          | 0.02                        | 5                           | 4                           | 40                          |
| CC145654           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.00                         | 523                         | 4                           | 0.01                         | 66                          | 900                         | 13                          | 0.01                        | 4                           | 3                           | 74                          |
| CC145655           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.79                         | 322                         | 2                           | 0.01                         | 99                          | 950                         | 14                          | 0.01                        | 3                           | 4                           | 38                          |
| CC145656           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.38                         | 290                         | 1                           | 0.01                         | 26                          | 760                         | 7                           | 0.11                        | <2                          | 1                           | 69                          |
| CC145657           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.41                         | 726                         | 2                           | 0.01                         | 41                          | 820                         | 9                           | 0.10                        | <2                          | 2                           | 76                          |
| CC145658           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.69                         | 742                         | 4                           | 0.01                         | 85                          | 1260                        | 16                          | 0.07                        | 4                           | 4                           | 47                          |
| CC145659           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.49                         | 409                         | 2                           | 0.01                         | 45                          | 880                         | 14                          | 0.05                        | 2                           | 3                           | 64                          |
| CC145660           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.89                         | 825                         | 2                           | 0.01                         | 116                         | 1220                        | 10                          | 0.04                        | <2                          | 5                           | 80                          |



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Page: 2 - C  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145621           |                                   | <20       | 0.01      | <10       | <10       | 14        | <10       | 172       |
| CC145622           |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 104       |
| CC145623           |                                   | <20       | 0.02      | <10       | <10       | 5         | <10       | 63        |
| CC145624           |                                   | <20       | 0.03      | <10       | 10        | 56        | <10       | 139       |
| CC145625           |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       | 161       |
| CC145626           |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 103       |
| CC145627           |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 79        |
| CC145628           |                                   | <20       | 0.03      | <10       | <10       | 50        | <10       | 74        |
| CC145629           |                                   | <20       | 0.03      | <10       | <10       | 51        | <10       | 77        |
| CC145630           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 56        |
| CC145631           |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 71        |
| CC145632           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 112       |
| CC145633           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 104       |
| CC145634           |                                   | <20       | 0.04      | <10       | <10       | 50        | <10       | 37        |
| CC145635           |                                   | <20       | 0.03      | <10       | <10       | 50        | <10       | 58        |
| CC145636           |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       | 124       |
| CC145637           |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 89        |
| CC145638           |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 63        |
| CC145639           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 38        |
| CC145640           |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 74        |
| CC145641           |                                   | <20       | 0.03      | <10       | <10       | 47        | <10       | 78        |
| CC145642           |                                   | <20       | 0.02      | <10       | <10       | 46        | <10       | 214       |
| CC145643           |                                   | <20       | 0.01      | <10       | <10       | 54        | <10       | 168       |
| CC145644           |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 271       |
| CC145645           |                                   | <20       | 0.01      | <10       | <10       | 102       | <10       | 96        |
| CC145646           |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       | 94        |
| CC145647           |                                   | <20       | <0.01     | <10       | <10       | 27        | <10       | 132       |
| CC145648           |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 219       |
| CC145649           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 227       |
| CC145650           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 123       |
| CC145651           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 89        |
| CC145652           |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 181       |
| CC145653           |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 256       |
| CC145654           |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 210       |
| CC145655           |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 194       |
| CC145656           |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       | 57        |
| CC145657           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 63        |
| CC145658           |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 110       |
| CC145659           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 94        |
| CC145660           |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 90        |



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Page: 3 - A  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145661           |                                   | 0.24                       | 0.001                  | <0.2                   | 1.75                 | 23                     | <10                   | 650                    | 0.6                    | <2                     | 0.87                 | <0.5                   | 32                     | 85                     | 44                     | 5.06                 |
| CC145662           |                                   | 0.24                       | 0.005                  | 0.3                    | 1.69                 | 30                     | <10                   | 330                    | <0.5                   | <2                     | 1.29                 | <0.5                   | 32                     | 105                    | 62                     | 5.43                 |
| CC145663           |                                   | 0.14                       | 0.013                  | 0.6                    | 0.67                 | 32                     | <10                   | 290                    | <0.5                   | <2                     | 0.57                 | 2.0                    | 8                      | 24                     | 51                     | 1.71                 |
| CC145664           |                                   | 0.12                       | 0.021                  | 0.6                    | 0.77                 | 45                     | <10                   | 380                    | <0.5                   | <2                     | 0.75                 | 1.0                    | 9                      | 24                     | 47                     | 1.87                 |
| CC145665           |                                   | 0.32                       | 0.017                  | 0.3                    | 0.81                 | 147                    | <10                   | 290                    | <0.5                   | <2                     | 0.23                 | 0.6                    | 11                     | 29                     | 54                     | 2.55                 |
| CC145666           |                                   | 0.44                       | 0.031                  | 0.6                    | 1.71                 | 143                    | <10                   | 420                    | 0.7                    | <2                     | 0.27                 | 0.8                    | 17                     | 48                     | 87                     | 4.00                 |
| CC145667           |                                   | 0.26                       | 0.024                  | 0.4                    | 0.98                 | 357                    | <10                   | 370                    | <0.5                   | <2                     | 0.23                 | 2.4                    | 14                     | 26                     | 46                     | 3.17                 |
| CC145668           |                                   | 0.14                       | 0.052                  | 0.9                    | 0.84                 | 165                    | <10                   | 420                    | <0.5                   | <2                     | 1.18                 | 3.0                    | 39                     | 30                     | 164                    | 5.68                 |
| CC145669           |                                   | 0.10                       | 0.021                  | 0.4                    | 0.47                 | 19                     | <10                   | 170                    | <0.5                   | <2                     | 1.34                 | 0.8                    | 4                      | 7                      | 42                     | 0.92                 |
| CC145670           |                                   | 0.12                       | 0.006                  | 0.2                    | 0.30                 | 18                     | <10                   | 120                    | <0.5                   | <2                     | 1.44                 | 0.6                    | 7                      | 4                      | 21                     | 1.59                 |
| CC145671           |                                   | 0.14                       | 0.014                  | <0.2                   | 0.42                 | 19                     | <10                   | 90                     | <0.5                   | <2                     | 2.49                 | <0.5                   | 6                      | 4                      | 15                     | 0.93                 |
| CC145672           |                                   | 0.12                       | 0.012                  | 0.5                    | 0.79                 | 37                     | <10                   | 180                    | <0.5                   | <2                     | 2.20                 | 0.8                    | 11                     | 18                     | 30                     | 2.05                 |
| CC145673           |                                   | 0.48                       | 0.013                  | <0.2                   | 0.89                 | 14                     | <10                   | 130                    | <0.5                   | <2                     | 0.27                 | 0.5                    | 9                      | 49                     | 27                     | 1.96                 |
| CC145674           |                                   | 0.06                       | NSS                    | 0.2                    | 0.84                 | 1525                   | <10                   | 530                    | <0.5                   | <2                     | 1.61                 | 3.9                    | 52                     | 10                     | 58                     | 13.75                |
| CC145675           |                                   | 0.08                       | 0.009                  | 0.2                    | 0.71                 | 31                     | <10                   | 200                    | <0.5                   | <2                     | 1.35                 | 2.1                    | 15                     | 14                     | 48                     | 1.33                 |
| CC145676           |                                   | 0.44                       | 0.004                  | 0.3                    | 1.52                 | 4                      | <10                   | 30                     | <0.5                   | <2                     | 6.21                 | <0.5                   | 15                     | 22                     | 24                     | 3.15                 |
| CC145677           |                                   | 0.48                       | 0.005                  | 0.3                    | 0.61                 | 31                     | <10                   | 190                    | <0.5                   | <2                     | 4.21                 | 0.5                    | 16                     | 27                     | 40                     | 2.78                 |
| CC145678           |                                   | 0.40                       | 0.011                  | 0.6                    | 1.03                 | 27                     | <10                   | 350                    | <0.5                   | <2                     | 0.95                 | 1.2                    | 16                     | 56                     | 74                     | 2.88                 |
| CC145679           |                                   | 0.10                       | 0.015                  | 0.3                    | 0.92                 | 9                      | <10                   | 210                    | <0.5                   | <2                     | 2.28                 | <0.5                   | 10                     | 29                     | 21                     | 1.70                 |
| CC145680           |                                   | 0.32                       | 0.002                  | <0.2                   | 0.56                 | 9                      | <10                   | 70                     | <0.5                   | <2                     | 0.46                 | <0.5                   | 18                     | 13                     | 34                     | 4.41                 |
| CC145681           |                                   | 0.24                       | 0.012                  | 0.3                    | 1.25                 | 77                     | <10                   | 240                    | <0.5                   | <2                     | 0.60                 | 0.5                    | 17                     | 43                     | 53                     | 3.51                 |
| CC145682           |                                   | 0.30                       | 0.012                  | 0.3                    | 1.33                 | 105                    | <10                   | 250                    | <0.5                   | <2                     | 0.66                 | 0.6                    | 17                     | 39                     | 50                     | 4.22                 |
| CC145683           |                                   | 0.38                       | 0.011                  | 0.4                    | 1.19                 | 62                     | <10                   | 250                    | 0.5                    | <2                     | 0.90                 | 0.6                    | 17                     | 32                     | 51                     | 3.51                 |
| CC145684           |                                   | 0.22                       | 0.008                  | 0.4                    | 1.07                 | 80                     | <10                   | 280                    | <0.5                   | <2                     | 1.65                 | 0.6                    | 19                     | 29                     | 45                     | 3.48                 |
| CC145685           |                                   | 0.14                       | 0.004                  | 0.5                    | 0.78                 | 29                     | <10                   | 280                    | <0.5                   | <2                     | 1.49                 | 0.5                    | 43                     | 43                     | 66                     | 8.14                 |
| CC145686           |                                   | 0.42                       | 0.005                  | 0.3                    | 1.25                 | 20                     | <10                   | 440                    | <0.5                   | <2                     | 1.99                 | 0.5                    | 32                     | 48                     | 61                     | 4.30                 |
| CC145687           |                                   | 0.32                       | 0.012                  | 0.7                    | 1.26                 | 80                     | <10                   | 450                    | 0.5                    | <2                     | 0.84                 | 0.6                    | 22                     | 37                     | 68                     | 3.73                 |
| CC145688           |                                   | 0.34                       | 0.016                  | 0.4                    | 1.68                 | 109                    | <10                   | 240                    | 0.5                    | <2                     | 1.01                 | 0.6                    | 26                     | 46                     | 73                     | 4.98                 |
| CC145689           |                                   | 0.24                       | 0.030                  | 1.4                    | 1.01                 | 170                    | <10                   | 340                    | 0.7                    | <2                     | 0.97                 | 1.5                    | 17                     | 34                     | 85                     | 3.85                 |
| CC145690           |                                   | 0.16                       | 0.006                  | 0.5                    | 0.61                 | 113                    | <10                   | 170                    | <0.5                   | <2                     | 0.28                 | 0.5                    | 6                      | 16                     | 31                     | 1.43                 |
| CC145691           |                                   | 0.46                       | 0.022                  | 0.9                    | 1.02                 | 213                    | <10                   | 250                    | <0.5                   | <2                     | 0.30                 | 0.9                    | 11                     | 32                     | 60                     | 3.09                 |
| CC145692           |                                   | 0.38                       | 0.029                  | 0.7                    | 0.90                 | 95                     | <10                   | 560                    | <0.5                   | <2                     | 0.50                 | 1.0                    | 13                     | 30                     | 92                     | 2.61                 |
| CC145693           |                                   | 0.46                       | 0.027                  | 0.9                    | 0.94                 | 85                     | <10                   | 520                    | <0.5                   | <2                     | 0.41                 | 1.1                    | 9                      | 28                     | 79                     | 2.35                 |
| CC145694           |                                   | 0.12                       | 0.017                  | 1.9                    | 0.52                 | 45                     | <10                   | 290                    | <0.5                   | <2                     | 0.54                 | 4.7                    | 7                      | 23                     | 116                    | 1.31                 |
| CC145695           |                                   | 0.26                       | 0.004                  | 0.6                    | 0.59                 | 22                     | <10                   | 290                    | <0.5                   | <2                     | 0.46                 | 1.7                    | 8                      | 21                     | 47                     | 1.62                 |
| CC145696           |                                   | 0.28                       | 0.013                  | 0.9                    | 0.65                 | 14                     | <10                   | 320                    | <0.5                   | <2                     | 0.43                 | 1.3                    | 4                      | 22                     | 36                     | 1.10                 |
| CC145697           |                                   | 0.20                       | 0.037                  | 2.6                    | 0.44                 | 20                     | <10                   | 690                    | <0.5                   | <2                     | 0.30                 | 1.5                    | 4                      | 21                     | 34                     | 1.08                 |
| CC145698           |                                   | 0.22                       | 0.010                  | 1.9                    | 0.60                 | 25                     | <10                   | 260                    | <0.5                   | <2                     | 0.48                 | 5.2                    | 5                      | 22                     | 47                     | 1.31                 |
| CC145699           |                                   | 0.16                       | 0.008                  | 0.3                    | 0.61                 | 23                     | <10                   | 170                    | <0.5                   | <2                     | 0.31                 | 1.0                    | 10                     | 47                     | 17                     | 1.32                 |
| CC145700           |                                   | 0.08                       | NSS                    | 0.5                    | 0.77                 | 32                     | <10                   | 320                    | <0.5                   | <2                     | 0.48                 | 2.3                    | 25                     | 104                    | 36                     | 2.25                 |



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Page: 3 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145661           |                                   | <10                          | <1                          | 0.09                        | 30                           | 0.67                         | 648                         | 1                           | 0.01                         | 134                         | 680                         | 11                          | 0.02                        | <2                          | 8                           | 39                          |
| CC145662           |                                   | 10                           | <1                          | 0.06                        | 20                           | 0.76                         | 479                         | 1                           | 0.01                         | 141                         | 1560                        | 9                           | 0.03                        | <2                          | 7                           | 55                          |
| CC145663           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.32                         | 798                         | 4                           | 0.02                         | 29                          | 1370                        | 8                           | 0.05                        | 10                          | 2                           | 69                          |
| CC145664           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.32                         | 383                         | 5                           | 0.01                         | 30                          | 1760                        | 11                          | 0.04                        | 6                           | 2                           | 76                          |
| CC145665           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.28                         | 383                         | 5                           | 0.01                         | 39                          | 1210                        | 20                          | 0.01                        | 7                           | 1                           | 39                          |
| CC145666           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.42                         | 492                         | 7                           | 0.01                         | 62                          | 1860                        | 21                          | 0.01                        | 11                          | 3                           | 53                          |
| CC145667           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.21                         | 581                         | 9                           | 0.01                         | 29                          | 1590                        | 20                          | 0.01                        | 6                           | 2                           | 38                          |
| CC145668           |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.31                         | 576                         | 7                           | 0.01                         | 109                         | 4970                        | 19                          | 0.08                        | 16                          | 5                           | 147                         |
| CC145669           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.10                         | 114                         | 3                           | 0.03                         | 20                          | 830                         | 6                           | 0.12                        | 2                           | 1                           | 82                          |
| CC145670           |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.17                         | 645                         | 1                           | 0.02                         | 18                          | 730                         | 7                           | 0.09                        | <2                          | 1                           | 60                          |
| CC145671           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.11                         | 92                          | 1                           | 0.04                         | 16                          | 620                         | <2                          | 0.11                        | <2                          | <1                          | 78                          |
| CC145672           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.34                         | 1215                        | 2                           | 0.01                         | 29                          | 1080                        | 11                          | 0.13                        | 3                           | 1                           | 74                          |
| CC145673           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.52                         | 199                         | 3                           | 0.01                         | 46                          | 1040                        | 11                          | 0.01                        | 2                           | 1                           | 33                          |
| CC145674           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.11                         | 4200                        | 22                          | 0.01                         | 114                         | 2360                        | 2                           | 0.25                        | 3                           | <1                          | 110                         |
| CC145675           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.28                         | 526                         | 2                           | 0.02                         | 115                         | 770                         | 4                           | 0.29                        | <2                          | 1                           | 68                          |
| CC145676           |                                   | <10                          | 1                           | 0.03                        | 20                           | 0.90                         | 403                         | 1                           | 0.02                         | 28                          | 620                         | 10                          | 0.01                        | <2                          | 3                           | 62                          |
| CC145677           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.51                         | 436                         | 3                           | 0.01                         | 57                          | 700                         | 8                           | 0.02                        | 2                           | 3                           | 58                          |
| CC145678           |                                   | <10                          | <1                          | 0.11                        | 20                           | 1.05                         | 610                         | 5                           | 0.01                         | 104                         | 1270                        | 17                          | 0.02                        | 4                           | 4                           | 66                          |
| CC145679           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.55                         | 579                         | 1                           | 0.02                         | 32                          | 860                         | 8                           | 0.14                        | <2                          | 1                           | 68                          |
| CC145680           |                                   | <10                          | <1                          | 0.04                        | 40                           | 0.27                         | 490                         | 1                           | 0.01                         | 40                          | 600                         | 9                           | 0.02                        | <2                          | 3                           | 18                          |
| CC145681           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.80                         | 399                         | 2                           | 0.01                         | 62                          | 1020                        | 15                          | 0.02                        | 2                           | 5                           | 35                          |
| CC145682           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.74                         | 229                         | 3                           | <0.01                        | 52                          | 1050                        | 17                          | 0.03                        | 3                           | 5                           | 33                          |
| CC145683           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.58                         | 537                         | 3                           | 0.01                         | 54                          | 1070                        | 14                          | 0.04                        | 2                           | 4                           | 37                          |
| CC145684           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.47                         | 945                         | 3                           | 0.01                         | 57                          | 1220                        | 16                          | 0.07                        | 3                           | 3                           | 51                          |
| CC145685           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.42                         | 973                         | 4                           | 0.01                         | 153                         | 2060                        | 12                          | 0.09                        | 3                           | 6                           | 41                          |
| CC145686           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.73                         | 584                         | 2                           | 0.01                         | 117                         | 1340                        | 10                          | 0.04                        | <2                          | 5                           | 59                          |
| CC145687           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.45                         | 452                         | 5                           | 0.01                         | 76                          | 1110                        | 13                          | 0.03                        | 4                           | 4                           | 37                          |
| CC145688           |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.81                         | 771                         | 3                           | 0.01                         | 86                          | 1420                        | 13                          | 0.03                        | 4                           | 5                           | 54                          |
| CC145689           |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.55                         | 601                         | 11                          | 0.01                         | 106                         | 1690                        | 28                          | 0.04                        | 9                           | 4                           | 64                          |
| CC145690           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.12                         | 107                         | 5                           | 0.01                         | 19                          | 870                         | 8                           | 0.03                        | 9                           | 1                           | 54                          |
| CC145691           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.30                         | 297                         | 6                           | <0.01                        | 46                          | 1440                        | 17                          | 0.02                        | 8                           | 2                           | 46                          |
| CC145692           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.36                         | 403                         | 5                           | <0.01                        | 58                          | 1870                        | 14                          | 0.02                        | 9                           | 3                           | 74                          |
| CC145693           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.29                         | 288                         | 5                           | 0.01                         | 44                          | 1620                        | 13                          | 0.04                        | 6                           | 2                           | 72                          |
| CC145694           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.22                         | 177                         | 6                           | 0.02                         | 35                          | 1380                        | 15                          | 0.05                        | 9                           | 1                           | 67                          |
| CC145695           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.14                         | 215                         | 6                           | 0.01                         | 24                          | 2470                        | 21                          | 0.03                        | 4                           | 1                           | 103                         |
| CC145696           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.19                         | 82                          | 4                           | <0.01                        | 15                          | 1990                        | 29                          | 0.03                        | 5                           | 1                           | 120                         |
| CC145697           |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.08                         | 107                         | 6                           | <0.01                        | 11                          | 1880                        | 45                          | 0.10                        | 11                          | 1                           | 228                         |
| CC145698           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.16                         | 212                         | 10                          | 0.01                         | 17                          | 1610                        | 21                          | 0.05                        | 9                           | 1                           | 64                          |
| CC145699           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.45                         | 372                         | 6                           | 0.01                         | 44                          | 1280                        | 10                          | 0.03                        | 2                           | 1                           | 43                          |
| CC145700           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.94                         | 1390                        | 6                           | 0.01                         | 96                          | 1450                        | 10                          | 0.06                        | 3                           | 2                           | 55                          |



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Page: 3 - C  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145661           |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 83        |
| CC145662           |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 98        |
| CC145663           |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 114       |
| CC145664           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 144       |
| CC145665           |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 173       |
| CC145666           |                                   | <20       | 0.01      | <10       | <10       | 58        | <10       | 247       |
| CC145667           |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 138       |
| CC145668           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 284       |
| CC145669           |                                   | <20       | 0.01      | <10       | <10       | 7         | <10       | 54        |
| CC145670           |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 63        |
| CC145671           |                                   | <20       | 0.01      | <10       | <10       | 7         | <10       | 23        |
| CC145672           |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 101       |
| CC145673           |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 70        |
| CC145674           |                                   | <20       | 0.02      | <10       | 10        | 16        | <10       | 1285      |
| CC145675           |                                   | <20       | 0.01      | <10       | 60        | 11        | <10       | 981       |
| CC145676           |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       | 76        |
| CC145677           |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 116       |
| CC145678           |                                   | <20       | 0.02      | <10       | <10       | 46        | <10       | 183       |
| CC145679           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 85        |
| CC145680           |                                   | <20       | <0.01     | <10       | <10       | 9         | <10       | 118       |
| CC145681           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 101       |
| CC145682           |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 107       |
| CC145683           |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 99        |
| CC145684           |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 90        |
| CC145685           |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 79        |
| CC145686           |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 89        |
| CC145687           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 125       |
| CC145688           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 136       |
| CC145689           |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 200       |
| CC145690           |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 74        |
| CC145691           |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       | 186       |
| CC145692           |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 214       |
| CC145693           |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 182       |
| CC145694           |                                   | <20       | 0.01      | <10       | <10       | 96        | <10       | 332       |
| CC145695           |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 159       |
| CC145696           |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       | 93        |
| CC145697           |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 79        |
| CC145698           |                                   | <20       | 0.01      | <10       | <10       | 79        | <10       | 147       |
| CC145699           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 73        |
| CC145700           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 144       |



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Page: 4 - A  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145701           |                                   | 0.22                       | 0.024                  | 0.4                    | 0.82                 | 63                     | <10                   | 440                    | <0.5                   | <2                     | 0.51                 | <0.5                   | 12                     | 28                     | 58                     | 2.08                 |
| CC145702           |                                   | 0.20                       | 0.052                  | 1.2                    | 0.83                 | 221                    | <10                   | 400                    | 0.5                    | <2                     | 0.89                 | 2.3                    | 14                     | 26                     | 144                    | 3.01                 |
| CC145703           |                                   | 0.42                       | 0.051                  | 5.8                    | 1.26                 | 460                    | <10                   | 690                    | 0.7                    | <2                     | 0.40                 | 1.2                    | 18                     | 34                     | 100                    | 3.98                 |
| CC145704           |                                   | 0.46                       | 0.026                  | 1.1                    | 1.45                 | 160                    | <10                   | 350                    | 0.6                    | <2                     | 0.25                 | 1.0                    | 17                     | 38                     | 93                     | 3.84                 |
| CC145705           |                                   | 0.40                       | 0.021                  | 0.4                    | 1.29                 | 218                    | <10                   | 280                    | 0.6                    | <2                     | 1.20                 | 0.5                    | 45                     | 32                     | 128                    | 8.67                 |
| CC145706           |                                   | 0.30                       | 0.031                  | 0.7                    | 1.20                 | 242                    | <10                   | 270                    | 0.5                    | <2                     | 0.70                 | 1.0                    | 20                     | 34                     | 73                     | 3.98                 |
| CC145707           |                                   | 0.14                       | 0.005                  | 0.3                    | 0.37                 | 23                     | <10                   | 140                    | <0.5                   | <2                     | 0.99                 | 0.5                    | 16                     | 11                     | 37                     | 3.33                 |
| CC145708           |                                   | 0.24                       | 0.005                  | 0.3                    | 0.93                 | 48                     | <10                   | 250                    | <0.5                   | <2                     | 1.27                 | 0.7                    | 14                     | 22                     | 39                     | 2.71                 |
| CC145709           |                                   | 0.18                       | 0.010                  | 0.3                    | 1.07                 | 77                     | <10                   | 230                    | <0.5                   | <2                     | 0.91                 | <0.5                   | 17                     | 29                     | 43                     | 3.43                 |
| CC145710           |                                   | 0.18                       | 0.006                  | 0.2                    | 0.95                 | 47                     | <10                   | 250                    | <0.5                   | 2                      | 1.38                 | <0.5                   | 10                     | 18                     | 29                     | 2.53                 |
| CC145711           |                                   | 0.14                       | 0.007                  | 0.3                    | 1.13                 | 63                     | <10                   | 270                    | <0.5                   | 2                      | 1.13                 | 0.6                    | 14                     | 33                     | 44                     | 2.94                 |
| CC145712           |                                   | 0.28                       | 0.002                  | 0.2                    | 1.05                 | 9                      | <10                   | 140                    | <0.5                   | 3                      | 1.85                 | <0.5                   | 16                     | 19                     | 31                     | 3.00                 |
| CC145713           |                                   | 0.22                       | 0.008                  | 0.4                    | 1.36                 | 16                     | <10                   | 180                    | <0.5                   | 2                      | 2.98                 | 0.5                    | 15                     | 39                     | 48                     | 3.00                 |
| CC145714           |                                   | 0.36                       | 0.007                  | 0.3                    | 1.49                 | 21                     | <10                   | 530                    | 0.5                    | 3                      | 0.44                 | 0.5                    | 13                     | 67                     | 43                     | 2.87                 |
| CC145715           |                                   | 0.34                       | 0.004                  | 0.2                    | 0.99                 | 17                     | <10                   | 160                    | <0.5                   | 3                      | 0.17                 | <0.5                   | 6                      | 43                     | 15                     | 2.02                 |
| CC145716           |                                   | 0.32                       | 0.005                  | 0.4                    | 1.06                 | 15                     | <10                   | 290                    | <0.5                   | 2                      | 0.35                 | <0.5                   | 10                     | 63                     | 23                     | 2.26                 |
| CC145717           |                                   | 0.14                       | 0.003                  | 0.3                    | 0.67                 | 230                    | <10                   | 280                    | <0.5                   | 3                      | 1.18                 | 2.2                    | 27                     | 26                     | 35                     | 3.59                 |
| CC145718           |                                   | 0.34                       | 0.008                  | 0.6                    | 1.18                 | 25                     | <10                   | 240                    | <0.5                   | 2                      | 0.98                 | 2.4                    | 21                     | 36                     | 69                     | 1.54                 |
| CC145719           |                                   | 0.26                       | 0.006                  | 0.3                    | 0.88                 | 11                     | <10                   | 350                    | <0.5                   | 3                      | 0.62                 | 1.3                    | 10                     | 26                     | 22                     | 1.28                 |
| CC145720           |                                   | 0.36                       | 0.012                  | 0.5                    | 1.01                 | 16                     | <10                   | 340                    | <0.5                   | 4                      | 0.60                 | 1.0                    | 10                     | 43                     | 33                     | 2.37                 |
| CC145721           |                                   | 0.24                       | 0.006                  | 0.7                    | 1.04                 | 21                     | <10                   | 310                    | <0.5                   | 3                      | 1.45                 | 1.8                    | 13                     | 44                     | 51                     | 2.78                 |
| CC145722           |                                   | 0.30                       | 0.004                  | 0.2                    | 0.85                 | 9                      | <10                   | 190                    | <0.5                   | 2                      | 0.37                 | 0.8                    | 6                      | 33                     | 23                     | 1.39                 |
| CC145723           |                                   | 0.12                       | 0.009                  | 0.3                    | 0.84                 | 23                     | <10                   | 370                    | <0.5                   | 3                      | 2.50                 | 0.9                    | 16                     | 27                     | 23                     | 1.94                 |
| CC145724           |                                   | 0.40                       | 0.010                  | 0.2                    | 1.49                 | 16                     | <10                   | 160                    | <0.5                   | 2                      | 0.58                 | <0.5                   | 16                     | 39                     | 35                     | 3.42                 |
| CC145725           |                                   | 0.22                       | 0.008                  | 0.2                    | 1.45                 | 18                     | <10                   | 180                    | <0.5                   | 4                      | 0.99                 | 0.5                    | 13                     | 32                     | 26                     | 3.03                 |
| CC145726           |                                   | 0.20                       | 0.007                  | 0.3                    | 0.97                 | 61                     | <10                   | 220                    | <0.5                   | <2                     | 1.60                 | <0.5                   | 28                     | 37                     | 65                     | 5.58                 |
| CC145727           |                                   | 0.20                       | 0.001                  | 0.3                    | 0.47                 | 47                     | <10                   | 310                    | <0.5                   | 4                      | 5.54                 | 0.5                    | 26                     | 24                     | 75                     | 5.93                 |
| CC145728           |                                   | 0.32                       | 0.002                  | <0.2                   | 2.04                 | 32                     | <10                   | 320                    | <0.5                   | <2                     | 1.81                 | <0.5                   | 33                     | 100                    | 29                     | 5.75                 |
| CC145729           |                                   | 0.32                       | 0.005                  | <0.2                   | 1.90                 | 58                     | <10                   | 440                    | 0.7                    | <2                     | 0.53                 | <0.5                   | 31                     | 64                     | 56                     | 5.65                 |
| CC145730           |                                   | 0.30                       | 0.003                  | <0.2                   | 1.43                 | 24                     | <10                   | 320                    | <0.5                   | 2                      | 2.60                 | <0.5                   | 22                     | 66                     | 43                     | 4.40                 |
| CC145731           |                                   | 0.44                       | 0.007                  | 0.2                    | 2.01                 | 29                     | <10                   | 170                    | <0.5                   | 4                      | 1.71                 | <0.5                   | 29                     | 101                    | 59                     | 6.70                 |
| CC145732           |                                   | 0.22                       | 0.032                  | 2.6                    | 1.02                 | 87                     | <10                   | 640                    | <0.5                   | 4                      | 0.41                 | 3.2                    | 13                     | 33                     | 96                     | 2.81                 |
| CC145733           |                                   | 0.28                       | 0.024                  | 3.2                    | 0.75                 | 45                     | <10                   | 1150                   | <0.5                   | 2                      | 0.69                 | 10.0                   | 7                      | 21                     | 625                    | 1.83                 |
| CC145734           |                                   | 0.14                       | 0.051                  | 1.0                    | 0.67                 | 162                    | <10                   | 310                    | <0.5                   | 2                      | 0.42                 | 0.6                    | 14                     | 19                     | 243                    | 5.27                 |
| CC145735           |                                   | 0.18                       | 0.020                  | 0.5                    | 0.75                 | 128                    | <10                   | 320                    | <0.5                   | 2                      | 0.52                 | 0.6                    | 10                     | 26                     | 48                     | 2.58                 |
| CC145736           |                                   | 0.32                       | 0.022                  | 2.3                    | 0.71                 | 32                     | <10                   | 550                    | <0.5                   | 2                      | 0.32                 | 1.3                    | 8                      | 19                     | 90                     | 1.42                 |
| CC145737           |                                   | 0.32                       | 0.046                  | 4.9                    | 1.00                 | 80                     | <10                   | 830                    | 0.5                    | 3                      | 0.41                 | 1.9                    | 6                      | 22                     | 126                    | 2.96                 |
| CC145738           |                                   | 0.24                       | 0.013                  | 0.8                    | 0.46                 | 27                     | <10                   | 180                    | <0.5                   | 2                      | 0.42                 | 0.7                    | 4                      | 13                     | 24                     | 0.99                 |
| CC145739           |                                   | 0.16                       | 0.012                  | 0.7                    | 0.59                 | 55                     | <10                   | 180                    | <0.5                   | 2                      | 1.42                 | <0.5                   | 6                      | 13                     | 21                     | 1.72                 |
| CC145740           |                                   | 0.36                       | 0.029                  | 0.8                    | 0.95                 | 73                     | <10                   | 410                    | <0.5                   | <2                     | 0.58                 | 1.6                    | 10                     | 32                     | 73                     | 2.46                 |



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Page: 4 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145701           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.34                         | 449                         | 5                           | <0.01                        | 33                          | 1660                        | 13                          | 0.02                        | 7                           | 2                           | 61                          |
| CC145702           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.29                         | 1115                        | 11                          | 0.01                         | 71                          | 2520                        | 20                          | 0.06                        | 20                          | 3                           | 105                         |
| CC145703           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.30                         | 482                         | 13                          | <0.01                        | 73                          | 1720                        | 26                          | 0.05                        | 12                          | 3                           | 71                          |
| CC145704           |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.36                         | 362                         | 11                          | 0.01                         | 69                          | 1850                        | 25                          | 0.04                        | 11                          | 3                           | 59                          |
| CC145705           |                                   | <10                          | 1                           | 0.09                        | 30                           | 0.32                         | 888                         | 4                           | <0.01                        | 145                         | 3870                        | 13                          | 0.06                        | 8                           | 8                           | 75                          |
| CC145706           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.57                         | 507                         | 6                           | 0.01                         | 74                          | 1310                        | 16                          | 0.03                        | 5                           | 4                           | 44                          |
| CC145707           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.14                         | 788                         | 4                           | 0.01                         | 41                          | 570                         | 10                          | 0.06                        | 2                           | 2                           | 41                          |
| CC145708           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.33                         | 521                         | 2                           | 0.02                         | 40                          | 1010                        | 11                          | 0.08                        | <2                          | 2                           | 53                          |
| CC145709           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.51                         | 510                         | 2                           | 0.01                         | 51                          | 900                         | 13                          | 0.04                        | 2                           | 3                           | 40                          |
| CC145710           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.34                         | 293                         | 1                           | 0.02                         | 36                          | 670                         | 13                          | 0.04                        | <2                          | 2                           | 55                          |
| CC145711           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.62                         | 710                         | 2                           | 0.01                         | 55                          | 940                         | 17                          | 0.03                        | 4                           | 3                           | 47                          |
| CC145712           |                                   | <10                          | <1                          | 0.02                        | 20                           | 0.44                         | 654                         | <1                          | 0.01                         | 34                          | 640                         | 12                          | 0.09                        | <2                          | 2                           | 38                          |
| CC145713           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.89                         | 498                         | 2                           | <0.01                        | 55                          | 1170                        | 14                          | 0.01                        | 4                           | 3                           | 71                          |
| CC145714           |                                   | <10                          | 8                           | 0.06                        | 10                           | 0.75                         | 528                         | 3                           | 0.01                         | 82                          | 1370                        | 13                          | 0.01                        | 2                           | 3                           | 40                          |
| CC145715           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.39                         | 204                         | 2                           | <0.01                        | 37                          | 530                         | 13                          | <0.01                       | 2                           | 2                           | 19                          |
| CC145716           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.58                         | 364                         | 2                           | <0.01                        | 64                          | 540                         | 11                          | 0.01                        | 2                           | 2                           | 36                          |
| CC145717           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.36                         | 456                         | 5                           | 0.01                         | 339                         | 890                         | 6                           | 0.14                        | 3                           | 2                           | 61                          |
| CC145718           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.61                         | 129                         | 3                           | <0.01                        | 105                         | 950                         | 16                          | 0.20                        | 3                           | 3                           | 62                          |
| CC145719           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.31                         | 388                         | 3                           | 0.01                         | 53                          | 1090                        | 9                           | 0.08                        | <2                          | 2                           | 52                          |
| CC145720           |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.52                         | 692                         | 3                           | <0.01                        | 48                          | 1130                        | 11                          | 0.03                        | 2                           | 3                           | 38                          |
| CC145721           |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.69                         | 512                         | 3                           | <0.01                        | 74                          | 1010                        | 14                          | 0.02                        | 3                           | 4                           | 46                          |
| CC145722           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.47                         | 125                         | <1                          | <0.01                        | 28                          | 1100                        | 11                          | 0.01                        | <2                          | 2                           | 34                          |
| CC145723           |                                   | <10                          | 1                           | 0.03                        | 10                           | 0.37                         | 3460                        | 2                           | 0.02                         | 35                          | 1070                        | 6                           | 0.14                        | <2                          | 1                           | 79                          |
| CC145724           |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.78                         | 295                         | 1                           | <0.01                        | 52                          | 830                         | 13                          | 0.02                        | <2                          | 4                           | 23                          |
| CC145725           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.74                         | 474                         | 1                           | 0.01                         | 38                          | 510                         | 12                          | 0.03                        | <2                          | 2                           | 32                          |
| CC145726           |                                   | <10                          | 1                           | 0.04                        | 20                           | 0.49                         | 740                         | 2                           | <0.01                        | 120                         | 1840                        | 10                          | 0.09                        | 4                           | 6                           | 54                          |
| CC145727           |                                   | <10                          | <1                          | 0.02                        | 10                           | 1.24                         | 1485                        | 1                           | 0.01                         | 77                          | 1630                        | 6                           | 0.17                        | 3                           | 3                           | 112                         |
| CC145728           |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.87                         | 728                         | <1                          | 0.01                         | 133                         | 820                         | 11                          | 0.05                        | <2                          | 6                           | 65                          |
| CC145729           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.56                         | 616                         | 1                           | <0.01                        | 147                         | 920                         | 12                          | 0.02                        | 5                           | 7                           | 26                          |
| CC145730           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.74                         | 725                         | <1                          | 0.01                         | 101                         | 1330                        | 7                           | 0.06                        | 2                           | 5                           | 108                         |
| CC145731           |                                   | 10                           | <1                          | 0.04                        | 30                           | 0.84                         | 797                         | <1                          | 0.01                         | 155                         | 1590                        | 6                           | 0.04                        | 2                           | 7                           | 68                          |
| CC145732           |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.23                         | 671                         | 15                          | 0.01                         | 43                          | 2590                        | 24                          | 0.06                        | 29                          | 2                           | 105                         |
| CC145733           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.16                         | 487                         | 9                           | 0.02                         | 61                          | 1880                        | 20                          | 0.07                        | 16                          | 1                           | 136                         |
| CC145734           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.09                         | 444                         | 17                          | <0.01                        | 78                          | 3400                        | 34                          | 0.05                        | 22                          | 2                           | 120                         |
| CC145735           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.25                         | 235                         | 6                           | <0.01                        | 37                          | 1910                        | 11                          | 0.02                        | 9                           | 2                           | 81                          |
| CC145736           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.13                         | 382                         | 3                           | 0.02                         | 28                          | 1440                        | 10                          | 0.07                        | 3                           | 1                           | 58                          |
| CC145737           |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.14                         | 240                         | 11                          | 0.02                         | 45                          | 1720                        | 37                          | 0.09                        | 11                          | 2                           | 241                         |
| CC145738           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.09                         | 200                         | 3                           | 0.02                         | 17                          | 950                         | 6                           | 0.05                        | 3                           | 1                           | 33                          |
| CC145739           |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.17                         | 246                         | 6                           | 0.01                         | 25                          | 1180                        | 10                          | 0.06                        | 3                           | 1                           | 69                          |
| CC145740           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.34                         | 280                         | 9                           | <0.01                        | 47                          | 2240                        | 17                          | 0.01                        | 21                          | 3                           | 78                          |



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Page: 4 - C  
 Total # Pages: 4 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 16- JUL- 2011  
 Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145701           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 130       |
| CC145702           |                                   | <20       | 0.01      | <10       | <10       | 47        | <10       | 176       |
| CC145703           |                                   | <20       | 0.01      | <10       | <10       | 60        | <10       | 203       |
| CC145704           |                                   | <20       | 0.01      | <10       | <10       | 59        | <10       | 192       |
| CC145705           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 210       |
| CC145706           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 171       |
| CC145707           |                                   | <20       | <0.01     | <10       | <10       | 12        | <10       | 77        |
| CC145708           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 70        |
| CC145709           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 91        |
| CC145710           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 65        |
| CC145711           |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 97        |
| CC145712           |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 86        |
| CC145713           |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 104       |
| CC145714           |                                   | <20       | 0.02      | <10       | <10       | 46        | <10       | 123       |
| CC145715           |                                   | <20       | 0.04      | <10       | <10       | 39        | <10       | 55        |
| CC145716           |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 69        |
| CC145717           |                                   | <20       | 0.01      | <10       | 10        | 20        | <10       | 2060      |
| CC145718           |                                   | <20       | 0.02      | <10       | 10        | 32        | <10       | 306       |
| CC145719           |                                   | <20       | 0.02      | <10       | 40        | 23        | <10       | 312       |
| CC145720           |                                   | <20       | 0.03      | <10       | <10       | 38        | <10       | 141       |
| CC145721           |                                   | <20       | 0.03      | <10       | <10       | 37        | <10       | 197       |
| CC145722           |                                   | <20       | 0.05      | <10       | <10       | 32        | <10       | 84        |
| CC145723           |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 70        |
| CC145724           |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 106       |
| CC145725           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 89        |
| CC145726           |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 76        |
| CC145727           |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 45        |
| CC145728           |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 74        |
| CC145729           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 79        |
| CC145730           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 76        |
| CC145731           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 90        |
| CC145732           |                                   | <20       | 0.01      | <10       | <10       | 123       | <10       | 208       |
| CC145733           |                                   | <20       | 0.01      | <10       | <10       | 81        | <10       | 283       |
| CC145734           |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 374       |
| CC145735           |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 170       |
| CC145736           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 112       |
| CC145737           |                                   | <20       | 0.01      | <10       | <10       | 57        | <10       | 259       |
| CC145738           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 41        |
| CC145739           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 54        |
| CC145740           |                                   | <20       | 0.01      | <10       | <10       | 53        | <10       | 200       |



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 16- JUL- 2011  
Account: F

Project: Wolverine - Finlayson

**CERTIFICATE OF ANALYSIS WH11115561**

| Method      | CERTIFICATE COMMENTS           |
|-------------|--------------------------------|
| ALL METHODS | NSS is non- sufficient sample. |



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Page: 1  
Finalized Date: 22- JUL- 2011  
Account: F

**CERTIFICATE WH11115562**

Project: Wolverine Finlayson

P.O. No.:

This report is for 120 Soil samples submitted to our lab in Whitehorse, YT, Canada on 22-JUN- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 22- JUL- 2011  
Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145501           |                                   | 0.22                       | 0.001                  | 0.8                    | 0.38                 | 3                      | <10                   | 250                    | <0.5                   | 3                      | 4.78                 | 2.2                    | 2                      | 9                      | 77                     | 0.55                 |
| CC145502           |                                   | 0.10                       | 0.005                  | 0.6                    | 0.43                 | 11                     | <10                   | 170                    | <0.5                   | 2                      | 2.53                 | 1.5                    | 5                      | 16                     | 42                     | 1.07                 |
| CC145503           |                                   | 0.08                       | 0.004                  | 0.3                    | 0.44                 | 2                      | <10                   | 280                    | <0.5                   | 2                      | 2.74                 | 2.8                    | 1                      | 14                     | 23                     | 0.38                 |
| CC145504           |                                   | 0.34                       | 0.011                  | 0.4                    | 0.93                 | 21                     | <10                   | 330                    | <0.5                   | 2                      | 0.30                 | <0.5                   | 11                     | 59                     | 64                     | 2.49                 |
| CC145505           |                                   | 0.18                       | 0.092                  | 2.1                    | 0.88                 | 167                    | <10                   | 380                    | 0.5                    | 3                      | 1.33                 | 0.5                    | 25                     | 31                     | 207                    | 4.07                 |
| CC145506           |                                   | 0.16                       | 0.012                  | 1.0                    | 0.57                 | 17                     | <10                   | 250                    | 0.5                    | <2                     | 1.34                 | <0.5                   | 10                     | 16                     | 145                    | 2.42                 |
| CC145507           |                                   | 0.14                       | 0.007                  | 0.2                    | 0.65                 | 23                     | <10                   | 300                    | <0.5                   | <2                     | 0.66                 | 0.6                    | 13                     | 22                     | 46                     | 2.78                 |
| CC145508           |                                   | 0.08                       | 0.004                  | <0.2                   | 0.51                 | 5                      | <10                   | 210                    | <0.5                   | <2                     | 1.48                 | 2.3                    | 7                      | 10                     | 99                     | 1.24                 |
| CC145509           |                                   | 0.10                       | NSS                    | 0.2                    | 0.30                 | <2                     | <10                   | 110                    | <0.5                   | <2                     | 0.63                 | <0.5                   | 2                      | 7                      | 7                      | 0.80                 |
| CC145510           |                                   | 0.10                       | NSS                    | 0.7                    | 0.33                 | 13                     | <10                   | 400                    | <0.5                   | <2                     | 0.35                 | 1.2                    | 2                      | 13                     | 31                     | 0.80                 |
| CC145511           |                                   | 0.20                       | 0.014                  | 0.4                    | 1.10                 | 96                     | <10                   | 450                    | <0.5                   | <2                     | 0.63                 | <0.5                   | 13                     | 33                     | 54                     | 3.23                 |
| CC145512           |                                   | 0.16                       | 0.031                  | 0.4                    | 0.95                 | 215                    | <10                   | 350                    | <0.5                   | <2                     | 0.52                 | 0.6                    | 12                     | 28                     | 60                     | 2.95                 |
| CC145513           |                                   | 0.26                       | 0.021                  | 0.2                    | 1.01                 | 163                    | <10                   | 450                    | 0.5                    | <2                     | 0.35                 | 1.0                    | 13                     | 34                     | 55                     | 3.35                 |
| CC145514           |                                   | 0.26                       | 0.019                  | 0.6                    | 0.92                 | 53                     | <10                   | 490                    | <0.5                   | <2                     | 0.45                 | 0.5                    | 11                     | 27                     | 53                     | 2.69                 |
| CC145515           |                                   | 0.26                       | 0.040                  | 1.5                    | 0.82                 | 89                     | <10                   | 140                    | <0.5                   | 2                      | 0.12                 | <0.5                   | 8                      | 21                     | 132                    | 2.98                 |
| CC145516           |                                   | 0.28                       | 0.074                  | 5.9                    | 1.64                 | 122                    | <10                   | 510                    | 0.8                    | <2                     | 0.55                 | 1.4                    | 11                     | 58                     | 155                    | 2.82                 |
| CC145517           |                                   | 0.14                       | 0.053                  | 5.9                    | 1.16                 | 297                    | <10                   | 220                    | 0.5                    | <2                     | 0.08                 | 1.4                    | 5                      | 42                     | 92                     | 3.32                 |
| CC145518           |                                   | 0.10                       | 0.012                  | 1.1                    | 0.45                 | 25                     | <10                   | 240                    | <0.5                   | <2                     | 0.59                 | 2.8                    | 15                     | 7                      | 39                     | 1.98                 |
| CC145519           |                                   | 0.14                       | 0.013                  | 0.3                    | 0.58                 | 140                    | <10                   | 260                    | <0.5                   | 2                      | 1.43                 | 2.0                    | 10                     | 12                     | 54                     | 7.59                 |
| CC145520           |                                   | 0.06                       | 0.023                  | 0.2                    | 0.40                 | 12                     | <10                   | 300                    | <0.5                   | <2                     | 3.46                 | 0.9                    | 5                      | 12                     | 52                     | 1.00                 |
| CC145521           |                                   | 0.12                       | 0.016                  | 0.9                    | 0.66                 | 26                     | <10                   | 330                    | <0.5                   | <2                     | 1.24                 | 1.7                    | 9                      | 20                     | 51                     | 1.75                 |
| CC145522           |                                   | 0.10                       | 0.014                  | 0.3                    | 0.70                 | 57                     | <10                   | 610                    | <0.5                   | <2                     | 1.46                 | 1.3                    | 15                     | 19                     | 33                     | 3.12                 |
| CC145523           |                                   | 0.28                       | 0.012                  | 0.5                    | 1.32                 | 32                     | <10                   | 530                    | 0.5                    | <2                     | 0.44                 | 1.8                    | 29                     | 230                    | 74                     | 3.30                 |
| CC145524           |                                   | 0.12                       | 0.008                  | 0.3                    | 1.57                 | 8                      | <10                   | 400                    | 0.5                    | <2                     | 1.07                 | 0.5                    | 12                     | 88                     | 33                     | 2.74                 |
| CC145525           |                                   | 0.12                       | 0.007                  | 0.3                    | 1.48                 | 5                      | <10                   | 430                    | <0.5                   | <2                     | 1.40                 | 0.8                    | 13                     | 84                     | 35                     | 2.30                 |
| CC145526           |                                   | 0.32                       | 0.007                  | <0.2                   | 1.46                 | 7                      | <10                   | 390                    | 0.5                    | <2                     | 0.51                 | <0.5                   | 16                     | 109                    | 36                     | 2.90                 |
| CC145527           |                                   | 0.32                       | 0.004                  | <0.2                   | 1.46                 | 6                      | <10                   | 430                    | <0.5                   | <2                     | 0.24                 | 0.5                    | 15                     | 94                     | 25                     | 2.87                 |
| CC145528           |                                   | 0.18                       | 0.005                  | 0.5                    | 1.44                 | 2                      | <10                   | 400                    | <0.5                   | 2                      | 0.36                 | <0.5                   | 15                     | 92                     | 26                     | 2.58                 |
| CC145529           |                                   | 0.34                       | 0.008                  | 0.2                    | 1.26                 | 4                      | <10                   | 320                    | <0.5                   | <2                     | 0.40                 | <0.5                   | 12                     | 68                     | 40                     | 2.63                 |
| CC145530           |                                   | 0.14                       | 0.007                  | <0.2                   | 1.26                 | 6                      | <10                   | 310                    | <0.5                   | <2                     | 0.44                 | 0.5                    | 12                     | 67                     | 17                     | 2.37                 |
| CC145531           |                                   | 0.26                       | 0.003                  | 0.2                    | 1.54                 | 2                      | <10                   | 310                    | <0.5                   | <2                     | 0.23                 | <0.5                   | 8                      | 50                     | 17                     | 2.20                 |
| CC145532           |                                   | 0.32                       | 0.004                  | <0.2                   | 1.97                 | 6                      | <10                   | 210                    | <0.5                   | <2                     | 0.15                 | <0.5                   | 17                     | 94                     | 18                     | 3.64                 |
| CC145533           |                                   | 0.26                       | 0.009                  | 0.8                    | 1.59                 | 6                      | <10                   | 670                    | 0.7                    | <2                     | 1.42                 | 0.6                    | 14                     | 67                     | 56                     | 2.90                 |
| CC145534           |                                   | 0.20                       | 0.003                  | <0.2                   | 1.32                 | 7                      | <10                   | 210                    | <0.5                   | <2                     | 0.31                 | <0.5                   | 9                      | 73                     | 10                     | 2.59                 |
| CC145535           |                                   | 0.10                       | 0.004                  | <0.2                   | 1.05                 | <2                     | <10                   | 670                    | <0.5                   | <2                     | 1.44                 | 1.3                    | 8                      | 53                     | 12                     | 1.66                 |
| CC145536           |                                   | 0.18                       | 0.003                  | <0.2                   | 1.54                 | 4                      | <10                   | 310                    | <0.5                   | <2                     | 0.91                 | 0.8                    | 14                     | 93                     | 13                     | 2.62                 |
| CC145537           |                                   | 0.30                       | 0.006                  | <0.2                   | 1.76                 | 3                      | <10                   | 460                    | 0.6                    | <2                     | 0.63                 | <0.5                   | 15                     | 140                    | 23                     | 3.08                 |
| CC145538           |                                   | 0.40                       | 0.006                  | 0.4                    | 1.39                 | 6                      | <10                   | 510                    | 0.5                    | <2                     | 1.63                 | 0.5                    | 17                     | 109                    | 50                     | 2.71                 |
| CC145539           |                                   | 0.18                       | 0.005                  | 1.1                    | 1.09                 | 4                      | <10                   | 540                    | <0.5                   | <2                     | 2.15                 | <0.5                   | 11                     | 63                     | 19                     | 1.87                 |
| CC145540           |                                   | 0.10                       | 0.006                  | 0.2                    | 1.03                 | 4                      | <10                   | 340                    | <0.5                   | <2                     | 1.78                 | 1.0                    | 11                     | 67                     | 28                     | 1.81                 |



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Page: 2 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145501           |                                   | <10                          | <1                          | <0.01                       | <10                          | 0.45                         | 462                         | <1                          | 0.01                         | 28                          | 1060                        | 3                           | 0.27                        | 2                           | 1                           | 183                         |
| CC145502           |                                   | <10                          | 1                           | 0.02                        | <10                          | 0.29                         | 630                         | 1                           | 0.01                         | 24                          | 1520                        | 6                           | 0.14                        | 2                           | 1                           | 107                         |
| CC145503           |                                   | <10                          | 1                           | <0.01                       | <10                          | 0.28                         | 381                         | 2                           | 0.02                         | 12                          | 830                         | <2                          | 0.37                        | <2                          | <1                          | 203                         |
| CC145504           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.51                         | 400                         | 3                           | <0.01                        | 73                          | 1220                        | 13                          | 0.04                        | 3                           | 2                           | 38                          |
| CC145505           |                                   | <10                          | <1                          | 0.12                        | 20                           | 0.11                         | 308                         | 21                          | <0.01                        | 201                         | 9350                        | 39                          | 0.07                        | 24                          | 2                           | 167                         |
| CC145506           |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.12                         | 346                         | 8                           | 0.01                         | 38                          | 5570                        | 11                          | 0.01                        | 5                           | 3                           | 90                          |
| CC145507           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.37                         | 341                         | 5                           | 0.01                         | 42                          | 1030                        | 10                          | 0.04                        | 4                           | 4                           | 45                          |
| CC145508           |                                   | <10                          | <1                          | 0.01                        | <10                          | 0.09                         | 96                          | 3                           | <0.01                        | 36                          | 1060                        | <2                          | 0.39                        | 2                           | 1                           | 87                          |
| CC145509           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.04                         | 16                          | 1                           | 0.01                         | 11                          | 540                         | 17                          | 0.34                        | <2                          | <1                          | 53                          |
| CC145510           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.05                         | 14                          | 3                           | 0.01                         | 13                          | 500                         | 52                          | 0.53                        | 3                           | 1                           | 34                          |
| CC145511           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.44                         | 337                         | 7                           | 0.01                         | 49                          | 1780                        | 13                          | 0.01                        | 7                           | 3                           | 49                          |
| CC145512           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.39                         | 438                         | 7                           | 0.01                         | 37                          | 1940                        | 14                          | 0.02                        | 14                          | 3                           | 48                          |
| CC145513           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.29                         | 479                         | 5                           | 0.01                         | 42                          | 1390                        | 14                          | 0.01                        | 7                           | 2                           | 45                          |
| CC145514           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.31                         | 302                         | 7                           | 0.01                         | 46                          | 1420                        | 11                          | 0.01                        | 11                          | 2                           | 59                          |
| CC145515           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.18                         | 133                         | 6                           | <0.01                        | 52                          | 1820                        | 12                          | 0.01                        | 49                          | 1                           | 25                          |
| CC145516           |                                   | <10                          | <1                          | 0.14                        | 20                           | 0.38                         | 197                         | 13                          | 0.01                         | 110                         | 3420                        | 51                          | 0.01                        | 43                          | 4                           | 143                         |
| CC145517           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.15                         | 86                          | 79                          | 0.01                         | 53                          | 2790                        | 46                          | 0.04                        | 109                         | 2                           | 110                         |
| CC145518           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.09                         | 1510                        | 5                           | 0.02                         | 18                          | 710                         | 145                         | 0.18                        | 9                           | 1                           | 55                          |
| CC145519           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.26                         | 1205                        | 11                          | 0.01                         | 24                          | 1080                        | 31                          | 0.12                        | 9                           | 2                           | 96                          |
| CC145520           |                                   | <10                          | <1                          | 0.05                        | <10                          | 0.44                         | 368                         | 3                           | 0.01                         | 34                          | 1200                        | 7                           | 0.18                        | 4                           | 1                           | 145                         |
| CC145521           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.26                         | 1030                        | 3                           | 0.01                         | 45                          | 1460                        | 44                          | 0.08                        | 8                           | 2                           | 91                          |
| CC145522           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.28                         | 1575                        | 5                           | 0.01                         | 38                          | 1220                        | 10                          | 0.08                        | 5                           | 2                           | 88                          |
| CC145523           |                                   | <10                          | <1                          | 0.13                        | 20                           | 3.92                         | 581                         | 5                           | 0.01                         | 420                         | 1300                        | 15                          | 0.01                        | 5                           | 7                           | 51                          |
| CC145524           |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.82                         | 646                         | 2                           | 0.01                         | 84                          | 1190                        | 11                          | 0.09                        | 2                           | 3                           | 50                          |
| CC145525           |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.93                         | 846                         | 1                           | 0.01                         | 100                         | 1080                        | 9                           | 0.09                        | 2                           | 3                           | 65                          |
| CC145526           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.46                         | 721                         | 2                           | 0.01                         | 135                         | 840                         | 10                          | 0.01                        | 2                           | 5                           | 27                          |
| CC145527           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.90                         | 535                         | 1                           | 0.01                         | 76                          | 560                         | 10                          | 0.01                        | <2                          | 4                           | 17                          |
| CC145528           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.92                         | 636                         | 2                           | 0.01                         | 71                          | 810                         | 13                          | 0.03                        | 2                           | 4                           | 26                          |
| CC145529           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.82                         | 246                         | 1                           | 0.01                         | 71                          | 690                         | 9                           | <0.01                       | <2                          | 4                           | 24                          |
| CC145530           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.70                         | 434                         | 2                           | 0.01                         | 54                          | 440                         | 8                           | 0.02                        | <2                          | 3                           | 25                          |
| CC145531           |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.56                         | 217                         | 1                           | 0.01                         | 35                          | 130                         | 6                           | <0.01                       | <2                          | 2                           | 14                          |
| CC145532           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.92                         | 457                         | 1                           | <0.01                        | 63                          | 210                         | 11                          | <0.01                       | 2                           | 3                           | 8                           |
| CC145533           |                                   | <10                          | 1                           | 0.10                        | 10                           | 0.61                         | 691                         | 2                           | 0.01                         | 89                          | 740                         | 15                          | 0.06                        | 3                           | 5                           | 41                          |
| CC145534           |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.75                         | 278                         | 1                           | 0.01                         | 50                          | 400                         | 9                           | <0.01                       | 2                           | 2                           | 13                          |
| CC145535           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.31                         | 598                         | 2                           | 0.01                         | 37                          | 570                         | 7                           | 0.03                        | <2                          | 1                           | 22                          |
| CC145536           |                                   | <10                          | <1                          | 0.13                        | 10                           | 0.54                         | 353                         | 1                           | 0.01                         | 82                          | 220                         | 9                           | 0.01                        | <2                          | 4                           | 17                          |
| CC145537           |                                   | <10                          | <1                          | 0.10                        | 20                           | 1.40                         | 421                         | 1                           | 0.01                         | 140                         | 490                         | 15                          | 0.01                        | <2                          | 5                           | 16                          |
| CC145538           |                                   | <10                          | <1                          | 0.08                        | 10                           | 1.40                         | 659                         | 1                           | 0.01                         | 167                         | 800                         | 9                           | 0.06                        | 3                           | 4                           | 35                          |
| CC145539           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.78                         | 581                         | 1                           | 0.02                         | 64                          | 670                         | 18                          | 0.07                        | <2                          | 2                           | 50                          |
| CC145540           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.93                         | 476                         | 1                           | 0.01                         | 85                          | 680                         | 13                          | 0.07                        | 2                           | 2                           | 56                          |



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Page: 2 - C  
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**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145501           |                                   | <20       | 0.01      | <10       | 20        | 7         | <10       | 25        |
| CC145502           |                                   | <20       | 0.01      | <10       | 10        | 11        | <10       | 82        |
| CC145503           |                                   | <20       | 0.01      | <10       | 10        | 5         | <10       | 103       |
| CC145504           |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 98        |
| CC145505           |                                   | <20       | 0.01      | <10       | <10       | 83        | <10       | 112       |
| CC145506           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 44        |
| CC145507           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 104       |
| CC145508           |                                   | <20       | 0.01      | <10       | <10       | 8         | <10       | 51        |
| CC145509           |                                   | <20       | 0.01      | <10       | <10       | 4         | <10       | 50        |
| CC145510           |                                   | <20       | 0.01      | <10       | 10        | 5         | <10       | 169       |
| CC145511           |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 123       |
| CC145512           |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 129       |
| CC145513           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 145       |
| CC145514           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 174       |
| CC145515           |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 213       |
| CC145516           |                                   | <20       | 0.01      | <10       | 10        | 292       | <10       | 345       |
| CC145517           |                                   | <20       | 0.01      | <10       | <10       | 171       | <10       | 279       |
| CC145518           |                                   | <20       | 0.01      | <10       | <10       | 11        | <10       | 438       |
| CC145519           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 180       |
| CC145520           |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 216       |
| CC145521           |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 211       |
| CC145522           |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 184       |
| CC145523           |                                   | <20       | 0.02      | <10       | <10       | 73        | <10       | 315       |
| CC145524           |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 132       |
| CC145525           |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 121       |
| CC145526           |                                   | <20       | 0.04      | <10       | <10       | 49        | <10       | 84        |
| CC145527           |                                   | <20       | 0.04      | <10       | <10       | 55        | <10       | 79        |
| CC145528           |                                   | <20       | 0.04      | <10       | <10       | 46        | <10       | 87        |
| CC145529           |                                   | <20       | 0.05      | <10       | <10       | 41        | <10       | 89        |
| CC145530           |                                   | <20       | 0.04      | <10       | <10       | 42        | <10       | 68        |
| CC145531           |                                   | <20       | 0.03      | <10       | <10       | 52        | <10       | 60        |
| CC145532           |                                   | <20       | 0.05      | <10       | <10       | 69        | <10       | 67        |
| CC145533           |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 86        |
| CC145534           |                                   | <20       | 0.04      | <10       | <10       | 50        | <10       | 55        |
| CC145535           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 111       |
| CC145536           |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 76        |
| CC145537           |                                   | <20       | 0.03      | <10       | <10       | 52        | <10       | 79        |
| CC145538           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 77        |
| CC145539           |                                   | <20       | 0.02      | <10       | <10       | 28        | <10       | 58        |
| CC145540           |                                   | <20       | 0.02      | <10       | <10       | 26        | <10       | 96        |



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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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Page: 3 - A  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 22- JUL- 2011  
Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145541           |                                   | 0.28                       | 0.007                  | <0.2                   | 1.18                 | 113                    | <10                   | 520                    | <0.5                   | <2                     | 0.60                 | 3.4                    | 29                     | 127                    | 25                     | 2.11                 |
| CC145542           |                                   | 0.08                       | 0.015                  | 0.2                    | 0.45                 | 223                    | <10                   | 500                    | <0.5                   | 2                      | 2.03                 | 0.8                    | 12                     | 33                     | 27                     | 0.87                 |
| CC145543           |                                   | 0.46                       | 0.017                  | 0.5                    | 1.46                 | 164                    | <10                   | 450                    | <0.5                   | 4                      | 0.54                 | 1.0                    | 46                     | 586                    | 58                     | 4.63                 |
| CC145544           |                                   | 0.28                       | 0.016                  | 0.4                    | 0.97                 | 67                     | <10                   | 430                    | <0.5                   | 2                      | 0.83                 | 1.2                    | 27                     | 221                    | 28                     | 2.77                 |
| CC145545           |                                   | 0.20                       | 0.007                  | 0.2                    | 1.96                 | 43                     | <10                   | 680                    | 0.5                    | 2                      | 0.72                 | 2.7                    | 17                     | 58                     | 72                     | 4.04                 |
| CC145546           |                                   | 0.14                       | 0.006                  | 0.7                    | 0.35                 | 13                     | <10                   | 160                    | <0.5                   | 3                      | 0.34                 | 2.4                    | 5                      | 11                     | 18                     | 1.19                 |
| CC145547           |                                   | 0.10                       | 0.015                  | 0.9                    | 0.58                 | 48                     | <10                   | 300                    | <0.5                   | 3                      | 0.71                 | 3.3                    | 8                      | 18                     | 35                     | 1.96                 |
| CC145548           |                                   | 0.18                       | 0.006                  | 0.2                    | 0.30                 | 14                     | <10                   | 150                    | <0.5                   | 3                      | 0.58                 | 2.4                    | 6                      | 8                      | 19                     | 1.37                 |
| CC145549           |                                   | 0.16                       | NSS                    | 0.5                    | 0.42                 | 21                     | <10                   | 270                    | <0.5                   | 3                      | 0.98                 | 2.1                    | 12                     | 9                      | 25                     | 1.79                 |
| CC145550           |                                   | 0.10                       | 0.019                  | 0.7                    | 0.66                 | 26                     | <10                   | 230                    | <0.5                   | 3                      | 0.48                 | 0.6                    | 4                      | 26                     | 26                     | 1.28                 |
| CC145551           |                                   | 0.32                       | 0.004                  | 0.3                    | 0.23                 | 5                      | <10                   | 50                     | <0.5                   | 2                      | 0.33                 | 0.8                    | 8                      | 8                      | 23                     | 1.48                 |
| CC145552           |                                   | 0.26                       | 0.004                  | 0.3                    | 0.40                 | 13                     | <10                   | 90                     | <0.5                   | 2                      | 0.14                 | 1.0                    | 5                      | 20                     | 25                     | 1.41                 |
| CC145553           |                                   | 0.36                       | 0.020                  | 0.5                    | 0.58                 | 24                     | <10                   | 150                    | <0.5                   | 2                      | 0.58                 | 0.7                    | 10                     | 40                     | 110                    | 2.65                 |
| CC145554           |                                   | 0.20                       | 0.006                  | 0.5                    | 0.83                 | 8                      | <10                   | 240                    | <0.5                   | 2                      | 0.77                 | 0.5                    | 6                      | 27                     | 38                     | 1.47                 |
| CC145555           |                                   | 0.08                       | 0.016                  | <0.2                   | 0.36                 | 2                      | <10                   | 140                    | <0.5                   | 2                      | 1.55                 | 0.6                    | 1                      | 6                      | 17                     | 0.19                 |
| CC145556           |                                   | 0.16                       | 0.001                  | 0.2                    | 0.33                 | 10                     | <10                   | 100                    | <0.5                   | 3                      | 17.3                 | 0.7                    | 3                      | 9                      | 21                     | 0.58                 |
| CC145557           |                                   | 0.12                       | NSS                    | <0.2                   | 0.24                 | 2                      | <10                   | 50                     | <0.5                   | 3                      | 0.32                 | <0.5                   | 1                      | 7                      | 2                      | 0.27                 |
| CC145558           |                                   | 0.28                       | 0.019                  | 0.2                    | 0.96                 | 93                     | <10                   | 270                    | <0.5                   | <2                     | 0.29                 | <0.5                   | 13                     | 32                     | 42                     | 3.01                 |
| CC145559           |                                   | 0.10                       | 0.003                  | 0.5                    | 0.28                 | 19                     | <10                   | 180                    | <0.5                   | 2                      | 0.87                 | 1.6                    | 2                      | 5                      | 11                     | 1.28                 |
| CC145560           |                                   | 0.26                       | 0.082                  | 0.8                    | 0.73                 | 111                    | <10                   | 200                    | <0.5                   | 3                      | 0.30                 | 0.9                    | 9                      | 23                     | 119                    | 2.83                 |
| CC145561           |                                   | 0.22                       | 0.022                  | 0.4                    | 0.67                 | 73                     | <10                   | 150                    | <0.5                   | 2                      | 0.36                 | 0.9                    | 10                     | 20                     | 79                     | 3.41                 |
| CC145562           |                                   | 0.40                       | 0.060                  | 1.1                    | 0.38                 | 73                     | <10                   | 230                    | <0.5                   | 3                      | 1.52                 | 1.1                    | 11                     | 7                      | 205                    | 3.00                 |
| CC145563           |                                   | 0.26                       | 0.091                  | 6.5                    | 0.67                 | 206                    | <10                   | 480                    | 0.5                    | 2                      | 0.89                 | 8.1                    | 10                     | 19                     | 350                    | 3.60                 |
| CC145564           |                                   | 0.40                       | 0.017                  | 1.2                    | 0.43                 | 44                     | <10                   | 250                    | <0.5                   | 2                      | 0.57                 | 4.9                    | 10                     | 23                     | 99                     | 2.83                 |
| CC145565           |                                   | 0.36                       | 0.008                  | 0.5                    | 1.36                 | 13                     | 10                    | 400                    | <0.5                   | <2                     | 0.42                 | 1.1                    | 32                     | 288                    | 49                     | 3.25                 |
| CC145566           |                                   | 0.36                       | 0.009                  | 0.3                    | 1.21                 | 12                     | <10                   | 330                    | <0.5                   | <2                     | 0.45                 | 1.2                    | 20                     | 147                    | 42                     | 2.62                 |
| CC145567           |                                   | 0.20                       | 0.011                  | 0.3                    | 1.42                 | 18                     | <10                   | 380                    | <0.5                   | 2                      | 0.59                 | 1.9                    | 18                     | 189                    | 37                     | 2.74                 |
| CC145568           |                                   | 0.28                       | 0.006                  | 0.3                    | 1.38                 | 10                     | <10                   | 290                    | <0.5                   | <2                     | 1.17                 | 0.7                    | 15                     | 89                     | 39                     | 2.70                 |
| CC145569           |                                   | 0.44                       | 0.006                  | <0.2                   | 1.37                 | 7                      | <10                   | 290                    | <0.5                   | 2                      | 0.50                 | <0.5                   | 13                     | 91                     | 24                     | 2.67                 |
| CC145570           |                                   | 0.40                       | 0.009                  | 0.5                    | 2.07                 | 17                     | <10                   | 760                    | 0.9                    | 3                      | 1.25                 | 0.5                    | 17                     | 134                    | 91                     | 3.46                 |
| CC145571           |                                   | 0.48                       | 0.008                  | 0.2                    | 1.60                 | 9                      | <10                   | 350                    | <0.5                   | 4                      | 0.67                 | 0.5                    | 17                     | 98                     | 31                     | 2.87                 |
| CC145572           |                                   | 0.26                       | 0.008                  | 0.5                    | 1.10                 | 8                      | <10                   | 390                    | <0.5                   | 2                      | 0.81                 | 0.5                    | 12                     | 49                     | 44                     | 2.82                 |
| CC145573           |                                   | 0.12                       | 0.009                  | 0.5                    | 1.09                 | 9                      | <10                   | 380                    | <0.5                   | 3                      | 1.27                 | <0.5                   | 8                      | 24                     | 30                     | 1.46                 |
| CC145574           |                                   | 0.26                       | 0.003                  | <0.2                   | 0.94                 | 6                      | <10                   | 210                    | <0.5                   | 3                      | 1.12                 | 0.5                    | 7                      | 37                     | 11                     | 1.71                 |
| CC145575           |                                   | 0.24                       | 0.004                  | 0.2                    | 1.26                 | 9                      | <10                   | 320                    | <0.5                   | 2                      | 0.87                 | <0.5                   | 13                     | 57                     | 22                     | 2.59                 |
| CC145576           |                                   | 0.48                       | 0.015                  | 0.8                    | 1.21                 | 16                     | <10                   | 200                    | 0.5                    | 2                      | 2.74                 | 1.5                    | 19                     | 19                     | 68                     | 4.27                 |
| CC145577           |                                   | 0.24                       | 0.007                  | 0.2                    | 1.09                 | 6                      | <10                   | 350                    | <0.5                   | 4                      | 1.13                 | <0.5                   | 13                     | 70                     | 26                     | 1.99                 |
| CC145578           |                                   | 0.24                       | 0.004                  | <0.2                   | 1.44                 | 3                      | <10                   | 380                    | <0.5                   | <2                     | 1.09                 | <0.5                   | 14                     | 88                     | 29                     | 2.41                 |
| CC145579           |                                   | 0.44                       | 0.004                  | <0.2                   | 1.81                 | 6                      | <10                   | 310                    | 0.5                    | <2                     | 0.74                 | 1.6                    | 15                     | 90                     | 9                      | 2.88                 |
| CC145580           |                                   | 0.26                       | 0.002                  | <0.2                   | 2.26                 | <2                     | <10                   | 420                    | <0.5                   | <2                     | 0.55                 | 0.7                    | 12                     | 87                     | 6                      | 2.57                 |



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Page: 3 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 22- JUL- 2011  
Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145541           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.50                         | 3300                        | 3                           | 0.01                         | 651                         | 950                         | 9                           | 0.02                        | 11                          | 4                           | 42                          |
| CC145542           |                                   | <10                          | 1                           | 0.02                        | <10                          | 0.54                         | 1540                        | 2                           | 0.02                         | 586                         | 910                         | 6                           | 0.13                        | 10                          | 1                           | 107                         |
| CC145543           |                                   | <10                          | 1                           | 0.09                        | 20                           | 2.21                         | 624                         | 2                           | <0.01                        | 622                         | 1590                        | 13                          | <0.01                       | 24                          | 10                          | 39                          |
| CC145544           |                                   | <10                          | 1                           | 0.05                        | 10                           | 1.38                         | 968                         | 2                           | 0.01                         | 368                         | 1060                        | 13                          | 0.02                        | 7                           | 4                           | 54                          |
| CC145545           |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.99                         | 718                         | 1                           | 0.01                         | 80                          | 600                         | 11                          | 0.01                        | 3                           | 10                          | 50                          |
| CC145546           |                                   | <10                          | 1                           | 0.03                        | <10                          | 0.06                         | 324                         | 5                           | 0.01                         | 15                          | 1110                        | 8                           | 0.05                        | 2                           | 1                           | 36                          |
| CC145547           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.12                         | 730                         | 12                          | 0.01                         | 24                          | 1670                        | 25                          | 0.03                        | 9                           | 1                           | 60                          |
| CC145548           |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.09                         | 378                         | 2                           | <0.01                        | 15                          | 920                         | 10                          | 0.02                        | 3                           | 1                           | 43                          |
| CC145549           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.11                         | 1825                        | 4                           | 0.01                         | 20                          | 1120                        | 14                          | 0.08                        | 4                           | 1                           | 78                          |
| CC145550           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.24                         | 120                         | 2                           | <0.01                        | 18                          | 1720                        | 17                          | 0.02                        | 10                          | 1                           | 57                          |
| CC145551           |                                   | <10                          | <1                          | 0.01                        | 10                           | 0.10                         | 146                         | 2                           | <0.01                        | 28                          | 450                         | 7                           | <0.01                       | <2                          | 1                           | 14                          |
| CC145552           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.10                         | 281                         | 4                           | <0.01                        | 27                          | 790                         | 10                          | <0.01                       | 2                           | 1                           | 19                          |
| CC145553           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.35                         | 326                         | 5                           | <0.01                        | 66                          | 2650                        | 21                          | <0.01                       | 7                           | 2                           | 78                          |
| CC145554           |                                   | <10                          | 1                           | 0.02                        | 10                           | 0.34                         | 387                         | 1                           | 0.01                         | 31                          | 1140                        | 7                           | 0.07                        | <2                          | 2                           | 68                          |
| CC145555           |                                   | <10                          | 1                           | <0.01                       | <10                          | 0.13                         | 163                         | 1                           | 0.02                         | 12                          | 500                         | <2                          | 0.34                        | <2                          | <1                          | 90                          |
| CC145556           |                                   | <10                          | <1                          | 0.01                        | <10                          | 0.61                         | 698                         | <1                          | 0.01                         | 20                          | 490                         | 4                           | 0.47                        | 2                           | 1                           | 314                         |
| CC145557           |                                   | <10                          | 1                           | <0.01                       | <10                          | 0.01                         | 16                          | <1                          | 0.01                         | 5                           | 310                         | <2                          | 0.07                        | <2                          | <1                          | 25                          |
| CC145558           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.35                         | 533                         | 2                           | <0.01                        | 53                          | 760                         | 14                          | <0.01                       | 4                           | 3                           | 23                          |
| CC145559           |                                   | <10                          | <1                          | 0.01                        | <10                          | 0.06                         | 187                         | 4                           | 0.02                         | 11                          | 960                         | 2                           | 0.04                        | <2                          | <1                          | 60                          |
| CC145560           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.13                         | 268                         | 14                          | <0.01                        | 46                          | 2260                        | 27                          | 0.02                        | 52                          | 1                           | 117                         |
| CC145561           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.16                         | 450                         | 6                           | <0.01                        | 35                          | 2290                        | 15                          | <0.01                       | 15                          | 1                           | 51                          |
| CC145562           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.62                         | 307                         | 3                           | 0.01                         | 64                          | 1060                        | 12                          | 0.03                        | 58                          | 2                           | 114                         |
| CC145563           |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.14                         | 604                         | 25                          | <0.01                        | 131                         | 3550                        | 18                          | 0.03                        | 52                          | 6                           | 97                          |
| CC145564           |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.11                         | 306                         | 16                          | <0.01                        | 116                         | 2620                        | 21                          | 0.03                        | 13                          | 3                           | 116                         |
| CC145565           |                                   | <10                          | 1                           | 0.07                        | 20                           | 4.18                         | 636                         | 1                           | <0.01                        | 458                         | 880                         | 12                          | <0.01                       | 2                           | 6                           | 32                          |
| CC145566           |                                   | <10                          | <1                          | 0.07                        | 20                           | 1.87                         | 448                         | 1                           | 0.01                         | 200                         | 1030                        | 14                          | <0.01                       | 4                           | 4                           | 33                          |
| CC145567           |                                   | <10                          | 1                           | 0.05                        | 10                           | 2.48                         | 432                         | <1                          | <0.01                        | 184                         | 930                         | 13                          | 0.03                        | 2                           | 4                           | 37                          |
| CC145568           |                                   | <10                          | 1                           | 0.06                        | 10                           | 1.01                         | 873                         | 1                           | 0.01                         | 97                          | 760                         | 12                          | 0.03                        | 2                           | 4                           | 42                          |
| CC145569           |                                   | <10                          | <1                          | 0.06                        | 20                           | 1.14                         | 382                         | 1                           | 0.01                         | 101                         | 760                         | 10                          | <0.01                       | 2                           | 4                           | 23                          |
| CC145570           |                                   | <10                          | <1                          | 0.12                        | 20                           | 1.28                         | 717                         | 1                           | 0.01                         | 223                         | 740                         | 18                          | 0.05                        | 3                           | 8                           | 51                          |
| CC145571           |                                   | <10                          | 1                           | 0.05                        | 20                           | 1.13                         | 356                         | <1                          | 0.01                         | 88                          | 700                         | 13                          | 0.01                        | <2                          | 6                           | 27                          |
| CC145572           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.53                         | 589                         | 2                           | <0.01                        | 69                          | 870                         | 12                          | 0.01                        | 2                           | 4                           | 41                          |
| CC145573           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.16                         | 1030                        | 3                           | 0.03                         | 47                          | 630                         | 6                           | 0.05                        | 2                           | 1                           | 44                          |
| CC145574           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.39                         | 300                         | 1                           | <0.01                        | 20                          | 380                         | 10                          | 0.01                        | <2                          | 2                           | 31                          |
| CC145575           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.56                         | 603                         | 1                           | <0.01                        | 44                          | 330                         | 12                          | <0.01                       | <2                          | 3                           | 22                          |
| CC145576           |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.52                         | 1100                        | 7                           | <0.01                        | 95                          | 460                         | 22                          | <0.01                       | 6                           | 4                           | 128                         |
| CC145577           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.74                         | 607                         | <1                          | 0.01                         | 81                          | 800                         | 9                           | 0.04                        | <2                          | 3                           | 31                          |
| CC145578           |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.97                         | 723                         | 1                           | 0.01                         | 89                          | 830                         | 12                          | 0.03                        | <2                          | 3                           | 23                          |
| CC145579           |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.64                         | 494                         | 1                           | 0.01                         | 76                          | 320                         | 11                          | 0.01                        | <2                          | 3                           | 15                          |
| CC145580           |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.55                         | 193                         | <1                          | 0.01                         | 68                          | 120                         | 8                           | <0.01                       | <2                          | 3                           | 14                          |



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Page: 3 - C  
 Total # Pages: 4 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 22- JUL- 2011  
 Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145541           |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 154       |
| CC145542           |                                   | <20       | 0.01      | <10       | <10       | 12        | <10       | 53        |
| CC145543           |                                   | <20       | 0.01      | <10       | <10       | 64        | <10       | 179       |
| CC145544           |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 142       |
| CC145545           |                                   | <20       | 0.01      | <10       | <10       | 65        | <10       | 195       |
| CC145546           |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 105       |
| CC145547           |                                   | <20       | 0.01      | <10       | <10       | 89        | <10       | 244       |
| CC145548           |                                   | <20       | 0.01      | <10       | <10       | 12        | <10       | 132       |
| CC145549           |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 135       |
| CC145550           |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 78        |
| CC145551           |                                   | <20       | 0.01      | <10       | <10       | 8         | <10       | 186       |
| CC145552           |                                   | <20       | 0.02      | <10       | <10       | 26        | <10       | 98        |
| CC145553           |                                   | <20       | 0.02      | <10       | <10       | 26        | <10       | 95        |
| CC145554           |                                   | <20       | 0.02      | <10       | <10       | 24        | <10       | 52        |
| CC145555           |                                   | <20       | 0.01      | <10       | <10       | 4         | <10       | 35        |
| CC145556           |                                   | <20       | 0.01      | <10       | <10       | 9         | <10       | 60        |
| CC145557           |                                   | <20       | 0.01      | <10       | <10       | 2         | <10       | 17        |
| CC145558           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 107       |
| CC145559           |                                   | <20       | 0.01      | <10       | <10       | 7         | <10       | 66        |
| CC145560           |                                   | <20       | 0.01      | <10       | <10       | 52        | <10       | 192       |
| CC145561           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 171       |
| CC145562           |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 323       |
| CC145563           |                                   | <20       | <0.01     | <10       | <10       | 63        | <10       | 667       |
| CC145564           |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 507       |
| CC145565           |                                   | <20       | 0.02      | <10       | <10       | 53        | <10       | 163       |
| CC145566           |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 185       |
| CC145567           |                                   | <20       | 0.03      | <10       | <10       | 53        | <10       | 264       |
| CC145568           |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 112       |
| CC145569           |                                   | <20       | 0.05      | <10       | <10       | 47        | <10       | 83        |
| CC145570           |                                   | <20       | 0.02      | <10       | <10       | 59        | <10       | 104       |
| CC145571           |                                   | <20       | 0.07      | <10       | <10       | 55        | <10       | 93        |
| CC145572           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 86        |
| CC145573           |                                   | <20       | 0.02      | <10       | <10       | 23        | <10       | 40        |
| CC145574           |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 49        |
| CC145575           |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 54        |
| CC145576           |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       | 211       |
| CC145577           |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 71        |
| CC145578           |                                   | <20       | 0.04      | <10       | <10       | 45        | <10       | 85        |
| CC145579           |                                   | <20       | 0.03      | <10       | <10       | 52        | <10       | 84        |
| CC145580           |                                   | <20       | 0.02      | <10       | <10       | 63        | <10       | 43        |



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Page: 4 - A  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 22- JUL- 2011  
Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145581           |                                   | 0.26                       | 0.003                  | <0.2                   | 1.44                 | 5                      | <10                   | 290                    | <0.5                   | <2                     | 0.56                 | <0.5                   | 11                     | 78                     | 6                      | 2.48                 |
| CC145582           |                                   | 0.22                       | <0.001                 | <0.2                   | 1.47                 | 6                      | <10                   | 530                    | 0.6                    | <2                     | 2.89                 | 2.2                    | 17                     | 88                     | 38                     | 2.87                 |
| CC145583           |                                   | 0.22                       | 0.013                  | 0.2                    | 1.43                 | 6                      | <10                   | 380                    | 0.5                    | <2                     | 0.98                 | <0.5                   | 15                     | 119                    | 40                     | 2.68                 |
| CC145584           |                                   | 0.18                       | 0.008                  | 0.3                    | 1.56                 | 5                      | <10                   | 500                    | 0.5                    | <2                     | 1.44                 | 0.5                    | 14                     | 107                    | 45                     | 2.68                 |
| CC145585           |                                   | 0.34                       | 0.009                  | <0.2                   | 1.38                 | 9                      | <10                   | 360                    | <0.5                   | <2                     | 0.88                 | <0.5                   | 17                     | 98                     | 22                     | 2.71                 |
| CC145586           |                                   | 0.24                       | 0.006                  | <0.2                   | 1.33                 | 7                      | <10                   | 380                    | <0.5                   | <2                     | 1.34                 | <0.5                   | 14                     | 86                     | 31                     | 2.50                 |
| CC145587           |                                   | 0.14                       | 0.017                  | 0.4                    | 0.85                 | 15                     | <10                   | 560                    | <0.5                   | <2                     | 1.26                 | 1.2                    | 19                     | 138                    | 38                     | 1.94                 |
| CC145588           |                                   | 0.26                       | 0.018                  | 0.5                    | 1.06                 | 88                     | <10                   | 500                    | 0.5                    | <2                     | 0.49                 | 1.2                    | 49                     | 324                    | 93                     | 4.10                 |
| CC145589           |                                   | 0.16                       | 0.024                  | <0.2                   | 0.53                 | 105                    | <10                   | 400                    | <0.5                   | <2                     | 1.17                 | 0.8                    | 12                     | 36                     | 75                     | 1.72                 |
| CC145590           |                                   | 0.12                       | 0.014                  | 0.4                    | 0.50                 | 19                     | <10                   | 310                    | <0.5                   | <2                     | 0.75                 | 2.2                    | 8                      | 23                     | 33                     | 1.58                 |
| CC145591           |                                   | 0.46                       | 0.016                  | 0.7                    | 1.06                 | 59                     | <10                   | 210                    | <0.5                   | <2                     | 0.27                 | 0.9                    | 12                     | 30                     | 80                     | 3.12                 |
| CC145592           |                                   | 0.24                       | 0.009                  | 1.1                    | 0.54                 | 23                     | <10                   | 240                    | <0.5                   | <2                     | 0.31                 | 0.9                    | 9                      | 16                     | 27                     | 1.24                 |
| CC145593           |                                   | 0.24                       | 0.029                  | 0.7                    | 0.90                 | 100                    | <10                   | 500                    | <0.5                   | <2                     | 0.57                 | 1.5                    | 10                     | 32                     | 95                     | 2.97                 |
| CC145594           |                                   | 0.36                       | 0.015                  | 1.3                    | 0.81                 | 70                     | <10                   | 510                    | <0.5                   | <2                     | 0.38                 | 0.6                    | 10                     | 25                     | 74                     | 2.58                 |
| CC145595           |                                   | 0.24                       | 0.013                  | <0.2                   | 0.98                 | 107                    | <10                   | 400                    | <0.5                   | <2                     | 0.56                 | <0.5                   | 8                      | 55                     | 59                     | 4.58                 |
| CC145596           |                                   | 0.10                       | 0.023                  | 0.6                    | 0.55                 | 119                    | <10                   | 300                    | <0.5                   | <2                     | 2.07                 | 0.5                    | 20                     | 19                     | 56                     | 2.84                 |
| CC145597           |                                   | 0.32                       | 0.004                  | <0.2                   | 0.24                 | 8                      | <10                   | 110                    | <0.5                   | <2                     | 0.37                 | <0.5                   | 12                     | 5                      | 24                     | 1.96                 |
| CC145598           |                                   | 0.26                       | 0.012                  | 0.3                    | 1.20                 | 60                     | <10                   | 300                    | 0.5                    | <2                     | 0.62                 | <0.5                   | 38                     | 36                     | 76                     | 4.95                 |
| CC145599           |                                   | 0.14                       | 0.004                  | <0.2                   | 0.72                 | 42                     | <10                   | 210                    | <0.5                   | <2                     | 1.80                 | <0.5                   | 14                     | 18                     | 27                     | 4.04                 |
| CC145600           |                                   | 0.34                       | 0.012                  | 0.3                    | 1.16                 | 85                     | <10                   | 280                    | 0.5                    | <2                     | 1.11                 | 0.5                    | 26                     | 36                     | 64                     | 4.73                 |
| CC145601           |                                   | 0.14                       | 0.009                  | 1.0                    | 0.50                 | 15                     | <10                   | 1800                   | <0.5                   | 2                      | 1.27                 | 13.5                   | 67                     | 7                      | 40                     | 2.42                 |
| CC145602           |                                   | 0.20                       | 0.008                  | 0.5                    | 0.59                 | <2                     | <10                   | 350                    | <0.5                   | <2                     | 2.88                 | 6.1                    | 5                      | 21                     | 88                     | 1.14                 |
| CC145603           |                                   | 0.18                       | 0.016                  | 0.2                    | 0.62                 | 2                      | <10                   | 440                    | <0.5                   | <2                     | 2.55                 | 2.2                    | 11                     | 10                     | 32                     | 1.28                 |
| CC145604           |                                   | 0.26                       | 0.012                  | 0.3                    | 0.97                 | 14                     | <10                   | 320                    | <0.5                   | <2                     | 0.53                 | <0.5                   | 12                     | 63                     | 61                     | 2.54                 |
| CC145605           |                                   | 0.24                       | 0.015                  | 0.6                    | 1.00                 | 16                     | <10                   | 320                    | <0.5                   | <2                     | 0.44                 | <0.5                   | 18                     | 67                     | 91                     | 2.79                 |
| CC145606           |                                   | 0.10                       | 0.026                  | <0.2                   | 0.62                 | 6                      | <10                   | 230                    | <0.5                   | <2                     | 3.36                 | <0.5                   | 3                      | 9                      | 32                     | 0.54                 |
| CC145607           |                                   | 0.28                       | 0.014                  | 0.4                    | 1.07                 | 40                     | <10                   | 250                    | <0.5                   | <2                     | 2.02                 | <0.5                   | 13                     | 41                     | 57                     | 3.20                 |
| CC145608           |                                   | 0.16                       | 0.018                  | 0.3                    | 0.89                 | 161                    | <10                   | 260                    | <0.5                   | <2                     | 0.57                 | 0.9                    | 12                     | 24                     | 50                     | 2.98                 |
| CC145609           |                                   | 0.24                       | 0.024                  | 0.5                    | 0.92                 | 142                    | <10                   | 370                    | <0.5                   | <2                     | 0.60                 | 0.9                    | 10                     | 28                     | 46                     | 2.59                 |
| CC145610           |                                   | 0.10                       | NSS                    | 4.4                    | 1.08                 | 236                    | <10                   | 690                    | 0.6                    | <2                     | 0.62                 | 6.9                    | 22                     | 33                     | 166                    | 4.00                 |
| CC145611           |                                   | 0.48                       | 0.026                  | 0.8                    | 1.38                 | 101                    | <10                   | 360                    | 0.6                    | <2                     | 0.36                 | 1.2                    | 13                     | 46                     | 80                     | 3.57                 |
| CC145612           |                                   | 0.42                       | 0.025                  | 0.2                    | 1.46                 | 86                     | <10                   | 540                    | 0.7                    | <2                     | 0.21                 | 0.7                    | 14                     | 39                     | 101                    | 3.47                 |
| CC145613           |                                   | 0.28                       | 0.062                  | 2.4                    | 0.95                 | 110                    | <10                   | 630                    | 0.5                    | <2                     | 1.79                 | 1.2                    | 13                     | 24                     | 173                    | 2.94                 |
| CC145614           |                                   | 0.24                       | 0.018                  | 0.7                    | 0.71                 | 72                     | <10                   | 440                    | <0.5                   | <2                     | 0.69                 | 1.7                    | 11                     | 22                     | 37                     | 1.97                 |
| CC145615           |                                   | 0.24                       | 0.020                  | 1.7                    | 0.64                 | 23                     | <10                   | 460                    | <0.5                   | <2                     | 1.13                 | 4.5                    | 5                      | 15                     | 107                    | 1.29                 |
| CC145616           |                                   | 0.32                       | 0.014                  | 0.5                    | 0.60                 | 42                     | <10                   | 290                    | <0.5                   | <2                     | 0.31                 | 1.1                    | 10                     | 15                     | 65                     | 2.76                 |
| CC145617           |                                   | 0.26                       | 0.072                  | 0.8                    | 0.42                 | 137                    | <10                   | 210                    | <0.5                   | <2                     | 0.79                 | 1.3                    | 5                      | 17                     | 447                    | 2.38                 |
| CC145618           |                                   | 0.16                       | 0.005                  | <0.2                   | 0.20                 | 5                      | <10                   | 130                    | <0.5                   | <2                     | 0.34                 | 1.4                    | 5                      | 5                      | 22                     | 1.24                 |
| CC145619           |                                   | 0.26                       | 0.009                  | 0.8                    | 0.52                 | 26                     | <10                   | 280                    | <0.5                   | <2                     | 1.64                 | 1.0                    | 7                      | 14                     | 32                     | 2.14                 |
| CC145620           |                                   | 0.16                       | 0.011                  | <0.2                   | 0.43                 | 8                      | <10                   | 240                    | <0.5                   | <2                     | 1.00                 | 0.8                    | 6                      | 11                     | 35                     | 1.74                 |



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Page: 4 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 22- JUL- 2011  
Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145581           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.48                         | 263                         | 1                           | 0.01                         | 58                          | 110                         | 8                           | <0.01                       | <2                          | 3                           | 11                          |
| CC145582           |                                   | <10                          | <1                          | 0.17                        | 10                           | 0.57                         | 1925                        | 1                           | 0.01                         | 88                          | 450                         | 9                           | 0.03                        | 3                           | 4                           | 43                          |
| CC145583           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.50                         | 461                         | 1                           | 0.01                         | 156                         | 360                         | 10                          | 0.02                        | 2                           | 4                           | 25                          |
| CC145584           |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.34                         | 553                         | 1                           | 0.01                         | 130                         | 610                         | 17                          | 0.05                        | <2                          | 4                           | 35                          |
| CC145585           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.21                         | 513                         | 2                           | 0.01                         | 108                         | 750                         | 12                          | 0.03                        | 2                           | 4                           | 30                          |
| CC145586           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.10                         | 532                         | 1                           | 0.01                         | 99                          | 760                         | 10                          | 0.04                        | 2                           | 4                           | 42                          |
| CC145587           |                                   | <10                          | <1                          | 0.05                        | 10                           | 2.08                         | 809                         | 2                           | 0.01                         | 401                         | 1040                        | 9                           | 0.10                        | 4                           | 3                           | 82                          |
| CC145588           |                                   | <10                          | 1                           | 0.10                        | 10                           | 2.37                         | 421                         | 4                           | 0.01                         | 771                         | 1270                        | 14                          | 0.01                        | 14                          | 7                           | 45                          |
| CC145589           |                                   | <10                          | <1                          | 0.07                        | <10                          | 0.52                         | 371                         | 2                           | 0.02                         | 255                         | 720                         | 7                           | 0.09                        | 8                           | 2                           | 58                          |
| CC145590           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.26                         | 2590                        | 4                           | 0.01                         | 28                          | 1310                        | 11                          | 0.06                        | 8                           | 1                           | 65                          |
| CC145591           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.38                         | 283                         | 6                           | <0.01                        | 49                          | 1710                        | 13                          | 0.01                        | 11                          | 2                           | 44                          |
| CC145592           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.18                         | 888                         | 6                           | 0.02                         | 18                          | 1150                        | 7                           | 0.04                        | 4                           | 1                           | 34                          |
| CC145593           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.37                         | 542                         | 8                           | 0.01                         | 44                          | 1970                        | 15                          | 0.01                        | 12                          | 3                           | 78                          |
| CC145594           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.22                         | 256                         | 16                          | 0.01                         | 53                          | 1090                        | 17                          | 0.02                        | 8                           | 3                           | 52                          |
| CC145595           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.30                         | 225                         | 2                           | 0.01                         | 40                          | 890                         | 10                          | 0.07                        | 7                           | 2                           | 57                          |
| CC145596           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.20                         | 396                         | 5                           | 0.01                         | 51                          | 2300                        | 13                          | 0.11                        | 8                           | 2                           | 106                         |
| CC145597           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.05                         | 511                         | 3                           | <0.01                        | 14                          | 450                         | 8                           | 0.01                        | 3                           | 1                           | 19                          |
| CC145598           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.53                         | 463                         | 4                           | 0.01                         | 113                         | 1310                        | 18                          | 0.03                        | 6                           | 6                           | 35                          |
| CC145599           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.30                         | 821                         | 1                           | 0.02                         | 46                          | 630                         | 5                           | 0.05                        | 2                           | 3                           | 60                          |
| CC145600           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.56                         | 337                         | 3                           | 0.01                         | 98                          | 1300                        | 14                          | 0.07                        | 6                           | 5                           | 45                          |
| CC145601           |                                   | <10                          | 1                           | 0.02                        | <10                          | 0.12                         | 26700                       | 28                          | 0.04                         | 131                         | 1110                        | 4                           | 0.13                        | 3                           | <1                          | 80                          |
| CC145602           |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.40                         | 142                         | 1                           | 0.01                         | 36                          | 840                         | 5                           | 0.34                        | 4                           | 2                           | 137                         |
| CC145603           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.30                         | 4840                        | 3                           | 0.02                         | 54                          | 880                         | 3                           | 0.18                        | 3                           | 1                           | 109                         |
| CC145604           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.73                         | 731                         | 4                           | 0.01                         | 87                          | 1710                        | 10                          | 0.01                        | 4                           | 3                           | 66                          |
| CC145605           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.72                         | 545                         | 3                           | 0.01                         | 118                         | 1260                        | 14                          | <0.01                       | 5                           | 4                           | 46                          |
| CC145606           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.35                         | 354                         | 2                           | 0.02                         | 18                          | 970                         | <2                          | 0.16                        | 2                           | <1                          | 150                         |
| CC145607           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.41                         | 791                         | 4                           | 0.01                         | 81                          | 1240                        | 16                          | 0.02                        | 7                           | 4                           | 73                          |
| CC145608           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.37                         | 394                         | 4                           | 0.01                         | 41                          | 1130                        | 15                          | 0.02                        | 5                           | 3                           | 40                          |
| CC145609           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.34                         | 406                         | 7                           | 0.01                         | 30                          | 2080                        | 16                          | 0.03                        | 8                           | 2                           | 54                          |
| CC145610           |                                   | <10                          | 1                           | 0.11                        | 10                           | 0.17                         | 2010                        | 56                          | 0.01                         | 107                         | 2510                        | 33                          | 0.13                        | 16                          | 2                           | 200                         |
| CC145611           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.45                         | 498                         | 7                           | 0.01                         | 61                          | 2180                        | 17                          | <0.01                       | 10                          | 3                           | 63                          |
| CC145612           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.34                         | 350                         | 7                           | 0.01                         | 58                          | 1550                        | 18                          | 0.01                        | 10                          | 2                           | 54                          |
| CC145613           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.41                         | 1045                        | 9                           | 0.01                         | 69                          | 2030                        | 17                          | 0.10                        | 21                          | 2                           | 172                         |
| CC145614           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.22                         | 2260                        | 12                          | 0.01                         | 27                          | 2600                        | 18                          | 0.04                        | 8                           | 1                           | 88                          |
| CC145615           |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.13                         | 390                         | 4                           | 0.01                         | 34                          | 1600                        | 12                          | 0.24                        | 13                          | 2                           | 91                          |
| CC145616           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.22                         | 394                         | 4                           | <0.01                        | 50                          | 770                         | 15                          | 0.01                        | 12                          | 3                           | 54                          |
| CC145617           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.06                         | 140                         | 6                           | 0.01                         | 69                          | 4350                        | 18                          | 0.01                        | 283                         | 1                           | 99                          |
| CC145618           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.04                         | 259                         | 4                           | 0.01                         | 16                          | 550                         | 8                           | 0.03                        | 5                           | 1                           | 25                          |
| CC145619           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.25                         | 465                         | 2                           | 0.01                         | 29                          | 1290                        | 32                          | 0.05                        | 7                           | 2                           | 98                          |
| CC145620           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.13                         | 389                         | 2                           | 0.01                         | 25                          | 870                         | 11                          | 0.06                        | 6                           | 1                           | 67                          |



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Page: 4 - C  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 22- JUL- 2011  
Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145581           |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 35        |
| CC145582           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 111       |
| CC145583           |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 72        |
| CC145584           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 85        |
| CC145585           |                                   | <20       | 0.02      | <10       | <10       | 45        | <10       | 83        |
| CC145586           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 81        |
| CC145587           |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 143       |
| CC145588           |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 232       |
| CC145589           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 109       |
| CC145590           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 138       |
| CC145591           |                                   | <20       | 0.01      | <10       | <10       | 53        | <10       | 200       |
| CC145592           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 75        |
| CC145593           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 203       |
| CC145594           |                                   | <20       | 0.01      | <10       | <10       | 55        | <10       | 116       |
| CC145595           |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       | 84        |
| CC145596           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 101       |
| CC145597           |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 54        |
| CC145598           |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 111       |
| CC145599           |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       | 70        |
| CC145600           |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 105       |
| CC145601           |                                   | <20       | 0.01      | <10       | 10        | 12        | <10       | 1880      |
| CC145602           |                                   | <20       | 0.02      | <10       | 30        | 18        | <10       | 209       |
| CC145603           |                                   | <20       | 0.01      | <10       | 10        | 8         | <10       | 232       |
| CC145604           |                                   | <20       | 0.04      | <10       | <10       | 40        | <10       | 103       |
| CC145605           |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 100       |
| CC145606           |                                   | <20       | 0.01      | <10       | <10       | 6         | <10       | 28        |
| CC145607           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 126       |
| CC145608           |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 108       |
| CC145609           |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 104       |
| CC145610           |                                   | <20       | 0.01      | <10       | 10        | 103       | <10       | 288       |
| CC145611           |                                   | <20       | 0.01      | <10       | <10       | 49        | <10       | 280       |
| CC145612           |                                   | <20       | 0.01      | <10       | <10       | 55        | <10       | 246       |
| CC145613           |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 175       |
| CC145614           |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 116       |
| CC145615           |                                   | <20       | 0.01      | <10       | 20        | 17        | <10       | 63        |
| CC145616           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 269       |
| CC145617           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 316       |
| CC145618           |                                   | <20       | 0.01      | <10       | <10       | 8         | <10       | 110       |
| CC145619           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 232       |
| CC145620           |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 178       |



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 22- JUL- 2011  
Account: F

Project: Wolverine Finlayson

**CERTIFICATE OF ANALYSIS WH11115562**

| Method      | CERTIFICATE COMMENTS           |
|-------------|--------------------------------|
| ALL METHODS | NSS is non- sufficient sample. |



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Page: 1  
Finalized Date: 5- AUG- 2011  
Account: F

**CERTIFICATE WH11116571**

Project: Wolverine- String

P.O. No.:

This report is for 163 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29-JUN- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC147451           |                                   | 0.25                       | 0.003                  | <0.2                   | 1.05                 | 18                     | <10                   | 140                    | <0.5                   | <2                     | 0.26                 | 0.8                    | 14                     | 115                    | 16                     | 3.48                 |
| CC147452           |                                   | 0.49                       | 0.005                  | 0.2                    | 1.11                 | 11                     | <10                   | 360                    | <0.5                   | <2                     | 0.57                 | 0.6                    | 10                     | 53                     | 27                     | 2.50                 |
| CC147453           |                                   | 0.26                       | 0.007                  | <0.2                   | 1.41                 | 15                     | <10                   | 490                    | <0.5                   | <2                     | 0.37                 | 0.9                    | 15                     | 80                     | 31                     | 2.83                 |
| CC147454           |                                   | 0.35                       | 0.006                  | 0.2                    | 1.01                 | 19                     | <10                   | 300                    | <0.5                   | <2                     | 0.27                 | 0.6                    | 10                     | 66                     | 28                     | 2.46                 |
| CC147455           |                                   | 0.24                       | 0.012                  | 0.5                    | 1.20                 | 22                     | <10                   | 510                    | <0.5                   | <2                     | 0.47                 | 1.6                    | 16                     | 100                    | 58                     | 2.63                 |
| CC147456           |                                   | 0.11                       | 0.017                  | 0.5                    | 1.19                 | 8                      | <10                   | 540                    | <0.5                   | <2                     | 0.86                 | 1.0                    | 12                     | 65                     | 29                     | 1.94                 |
| CC147457           |                                   | 0.28                       | 0.006                  | 0.2                    | 1.16                 | 10                     | <10                   | 360                    | <0.5                   | <2                     | 0.62                 | 0.6                    | 9                      | 48                     | 22                     | 2.04                 |
| CC147458           |                                   | 0.29                       | 0.008                  | 0.3                    | 1.19                 | 14                     | <10                   | 440                    | <0.5                   | <2                     | 0.41                 | 0.6                    | 10                     | 40                     | 23                     | 2.17                 |
| CC147459           |                                   | 0.22                       | 0.009                  | 1.9                    | 1.30                 | 15                     | <10                   | 570                    | <0.5                   | <2                     | 0.84                 | 1.9                    | 9                      | 47                     | 61                     | 1.51                 |
| CC147460           |                                   | 0.48                       | 0.007                  | 0.4                    | 1.44                 | 14                     | <10                   | 320                    | <0.5                   | <2                     | 0.32                 | 0.5                    | 13                     | 57                     | 35                     | 2.81                 |
| CC147461           |                                   | 0.36                       | 0.014                  | 0.4                    | 1.27                 | 20                     | <10                   | 560                    | <0.5                   | <2                     | 0.32                 | 1.0                    | 11                     | 59                     | 46                     | 2.57                 |
| CC147462           |                                   | 0.15                       | 0.024                  | 3.4                    | 1.62                 | 24                     | <10                   | 840                    | <0.5                   | <2                     | 0.45                 | 2.1                    | 15                     | 63                     | 122                    | 2.83                 |
| CC147463           |                                   | 0.39                       | 0.006                  | 0.3                    | 1.12                 | 17                     | <10                   | 250                    | <0.5                   | <2                     | 0.18                 | 0.7                    | 10                     | 58                     | 27                     | 2.22                 |
| CC147464           |                                   | 0.38                       | 0.006                  | 0.4                    | 1.28                 | 8                      | <10                   | 360                    | <0.5                   | <2                     | 0.28                 | 1.1                    | 10                     | 49                     | 35                     | 2.20                 |
| CC147465           |                                   | 0.43                       | 0.011                  | 0.3                    | 1.18                 | 12                     | <10                   | 360                    | <0.5                   | <2                     | 0.38                 | 1.1                    | 10                     | 46                     | 29                     | 2.42                 |
| CC147466           |                                   | 0.27                       | 0.007                  | 0.4                    | 1.22                 | 8                      | <10                   | 430                    | <0.5                   | <2                     | 0.73                 | <0.5                   | 8                      | 43                     | 30                     | 1.92                 |
| CC147467           |                                   | 0.31                       | 0.010                  | 0.5                    | 1.47                 | 15                     | <10                   | 660                    | 0.5                    | <2                     | 0.65                 | 1.5                    | 10                     | 57                     | 68                     | 2.52                 |
| CC147468           |                                   | 0.30                       | 0.013                  | 0.7                    | 1.02                 | 12                     | <10                   | 500                    | <0.5                   | <2                     | 0.43                 | 2.2                    | 7                      | 53                     | 55                     | 1.85                 |
| CC147469           |                                   | 0.27                       | 0.025                  | 0.3                    | 1.27                 | 41                     | <10                   | 510                    | <0.5                   | <2                     | 0.40                 | 0.5                    | 15                     | 39                     | 58                     | 3.47                 |
| CC147470           |                                   | 0.15                       | 0.005                  | <0.2                   | 0.92                 | 13                     | <10                   | 280                    | <0.5                   | <2                     | 0.15                 | <0.5                   | 9                      | 46                     | 15                     | 2.24                 |
| CC147471           |                                   | 0.38                       | 0.005                  | <0.2                   | 1.05                 | 10                     | <10                   | 100                    | <0.5                   | <2                     | 0.10                 | <0.5                   | 6                      | 30                     | 25                     | 2.32                 |
| CC147472           |                                   | 0.38                       | 0.002                  | 0.4                    | 1.06                 | 13                     | <10                   | 110                    | <0.5                   | <2                     | 0.09                 | <0.5                   | 8                      | 39                     | 18                     | 2.45                 |
| CC147473           |                                   | 0.39                       | 0.007                  | <0.2                   | 1.32                 | 11                     | <10                   | 300                    | <0.5                   | <2                     | 0.07                 | <0.5                   | 6                      | 31                     | 37                     | 2.65                 |
| CC147474           |                                   | 0.35                       | 0.003                  | <0.2                   | 1.05                 | 20                     | <10                   | 220                    | <0.5                   | <2                     | 0.08                 | <0.5                   | 8                      | 37                     | 27                     | 2.95                 |
| CC147475           |                                   | 0.40                       | 0.032                  | <0.2                   | 1.06                 | 9                      | <10                   | 160                    | <0.5                   | <2                     | 0.17                 | <0.5                   | 7                      | 31                     | 27                     | 2.09                 |
| CC147476           |                                   | 0.24                       | 0.006                  | 0.3                    | 1.34                 | 6                      | <10                   | 450                    | <0.5                   | <2                     | 0.68                 | <0.5                   | 7                      | 32                     | 44                     | 1.90                 |
| CC147477           |                                   | 0.28                       | 0.012                  | 0.7                    | 1.50                 | 9                      | <10                   | 420                    | <0.5                   | <2                     | 0.69                 | <0.5                   | 9                      | 35                     | 53                     | 2.16                 |
| CC147478           |                                   | 0.33                       | 0.014                  | 0.8                    | 1.41                 | 15                     | <10                   | 560                    | <0.5                   | <2                     | 0.89                 | <0.5                   | 15                     | 46                     | 118                    | 2.76                 |
| CC147479           |                                   | 0.31                       | 0.015                  | 0.4                    | 1.12                 | 60                     | <10                   | 280                    | <0.5                   | <2                     | 0.99                 | <0.5                   | 6                      | 26                     | 44                     | 1.57                 |
| CC145751           |                                   | 0.19                       | 0.002                  | <0.2                   | 0.46                 | 11                     | <10                   | 130                    | <0.5                   | <2                     | 1.36                 | <0.5                   | 8                      | 11                     | 18                     | 1.42                 |
| CC145752           |                                   | 0.08                       | 0.013                  | <0.2                   | 0.72                 | 16                     | <10                   | 220                    | <0.5                   | <2                     | 2.55                 | <0.5                   | 3                      | 7                      | 20                     | 0.76                 |
| CC145753           |                                   | 0.29                       | 0.018                  | 0.7                    | 1.26                 | 102                    | <10                   | 400                    | <0.5                   | <2                     | 0.67                 | <0.5                   | 13                     | 42                     | 42                     | 3.33                 |
| CC145754           |                                   | 0.14                       | 0.071                  | 2.5                    | 1.13                 | 215                    | <10                   | 530                    | 0.5                    | <2                     | 0.65                 | 1.7                    | 14                     | 35                     | 134                    | 3.55                 |
| CC145755           |                                   | 0.18                       | 0.027                  | 3.5                    | 0.59                 | 49                     | <10                   | 370                    | <0.5                   | <2                     | 0.24                 | 1.0                    | 7                      | 16                     | 66                     | 1.41                 |
| CC145756           |                                   | 0.36                       | 0.028                  | 0.4                    | 0.97                 | 70                     | <10                   | 520                    | <0.5                   | <2                     | 0.80                 | 2.0                    | 10                     | 34                     | 76                     | 2.65                 |
| CC145757           |                                   | 0.19                       | 0.008                  | 0.2                    | 0.55                 | 37                     | <10                   | 180                    | <0.5                   | <2                     | 0.13                 | 1.2                    | 3                      | 15                     | 29                     | 1.48                 |
| CC145758           |                                   | 0.49                       | 0.026                  | 1.2                    | 0.99                 | 64                     | <10                   | 500                    | <0.5                   | <2                     | 0.57                 | 1.6                    | 10                     | 32                     | 69                     | 2.65                 |
| CC145759           |                                   | 0.21                       | 0.088                  | 1.0                    | 0.80                 | 432                    | <10                   | 410                    | <0.5                   | <2                     | 0.46                 | 1.9                    | 9                      | 23                     | 35                     | 2.21                 |
| CC145760           |                                   | 0.22                       | 0.011                  | 0.9                    | 0.51                 | 49                     | <10                   | 390                    | <0.5                   | <2                     | 0.35                 | 1.2                    | 9                      | 10                     | 31                     | 1.79                 |
| CC145761           |                                   | 0.41                       | 0.029                  | 5.3                    | 0.16                 | 42                     | <10                   | 110                    | <0.5                   | <2                     | 0.07                 | 0.9                    | <1                     | 33                     | 35                     | 4.83                 |



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Page: 2 - B  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC147451           |                                   | 10                           | <1                          | 0.08                        | 10                           | 0.72                         | 674                         | 2                           | <0.01                        | 48                          | 660                         | 14                          | <0.01                       | <2                          | 2                           | 19                          |
| CC147452           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.70                         | 404                         | 1                           | <0.01                        | 34                          | 970                         | 12                          | <0.01                       | <2                          | 3                           | 37                          |
| CC147453           |                                   | <10                          | <1                          | 0.12                        | 10                           | 0.80                         | 619                         | 1                           | <0.01                        | 50                          | 790                         | 13                          | <0.01                       | <2                          | 4                           | 29                          |
| CC147454           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.77                         | 431                         | 2                           | <0.01                        | 70                          | 740                         | 13                          | <0.01                       | 3                           | 2                           | 34                          |
| CC147455           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.10                         | 490                         | 3                           | <0.01                        | 136                         | 1040                        | 16                          | <0.01                       | 4                           | 4                           | 45                          |
| CC147456           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.74                         | 835                         | 1                           | <0.01                        | 64                          | 940                         | 10                          | 0.03                        | <2                          | 3                           | 70                          |
| CC147457           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.71                         | 548                         | 1                           | <0.01                        | 41                          | 970                         | 11                          | <0.01                       | 2                           | 3                           | 45                          |
| CC147458           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.53                         | 828                         | 3                           | <0.01                        | 32                          | 870                         | 14                          | <0.01                       | <2                          | 2                           | 34                          |
| CC147459           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.34                         | 723                         | 3                           | <0.01                        | 73                          | 1330                        | 17                          | 0.03                        | 2                           | 3                           | 125                         |
| CC147460           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.74                         | 844                         | 1                           | <0.01                        | 44                          | 570                         | 12                          | <0.01                       | 2                           | 3                           | 26                          |
| CC147461           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.70                         | 605                         | 3                           | <0.01                        | 66                          | 840                         | 14                          | <0.01                       | 2                           | 3                           | 42                          |
| CC147462           |                                   | <10                          | 2                           | 0.09                        | 20                           | 0.61                         | 988                         | 6                           | <0.01                        | 59                          | 1230                        | 28                          | 0.01                        | 4                           | 3                           | 98                          |
| CC147463           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.64                         | 440                         | 2                           | <0.01                        | 41                          | 650                         | 11                          | <0.01                       | 3                           | 1                           | 29                          |
| CC147464           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.60                         | 565                         | 1                           | <0.01                        | 38                          | 640                         | 10                          | <0.01                       | <2                          | 2                           | 26                          |
| CC147465           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.63                         | 934                         | 2                           | <0.01                        | 33                          | 760                         | 14                          | <0.01                       | <2                          | 3                           | 32                          |
| CC147466           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.58                         | 678                         | 2                           | <0.01                        | 28                          | 1050                        | 9                           | 0.03                        | <2                          | 2                           | 58                          |
| CC147467           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.69                         | 704                         | 2                           | <0.01                        | 57                          | 970                         | 19                          | <0.01                       | <2                          | 4                           | 67                          |
| CC147468           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.47                         | 225                         | 2                           | <0.01                        | 40                          | 920                         | 17                          | <0.01                       | 3                           | 4                           | 148                         |
| CC147469           |                                   | <10                          | <1                          | 0.06                        | 30                           | 0.66                         | 674                         | 3                           | <0.01                        | 54                          | 950                         | 35                          | <0.01                       | 2                           | 4                           | 29                          |
| CC147470           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.42                         | 456                         | 1                           | <0.01                        | 29                          | 410                         | 12                          | <0.01                       | 2                           | 2                           | 15                          |
| CC147471           |                                   | 10                           | <1                          | 0.04                        | 20                           | 0.40                         | 309                         | 1                           | <0.01                        | 22                          | 460                         | 12                          | <0.01                       | 3                           | 2                           | 9                           |
| CC147472           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.36                         | 465                         | 1                           | <0.01                        | 23                          | 660                         | 19                          | <0.01                       | <2                          | 2                           | 11                          |
| CC147473           |                                   | 10                           | <1                          | 0.04                        | 20                           | 0.40                         | 318                         | 1                           | <0.01                        | 20                          | 390                         | 14                          | <0.01                       | 2                           | 2                           | 9                           |
| CC147474           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.38                         | 516                         | 2                           | <0.01                        | 22                          | 700                         | 17                          | <0.01                       | <2                          | 2                           | 11                          |
| CC147475           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.48                         | 407                         | 1                           | <0.01                        | 25                          | 590                         | 9                           | <0.01                       | <2                          | 1                           | 13                          |
| CC147476           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.41                         | 549                         | 1                           | <0.01                        | 28                          | 1240                        | 8                           | 0.04                        | <2                          | 2                           | 42                          |
| CC147477           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.47                         | 644                         | 1                           | <0.01                        | 38                          | 870                         | 11                          | 0.03                        | <2                          | 3                           | 39                          |
| CC147478           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.64                         | 752                         | 1                           | <0.01                        | 52                          | 1010                        | 17                          | 0.01                        | 2                           | 3                           | 53                          |
| CC147479           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.32                         | 320                         | <1                          | <0.01                        | 23                          | 840                         | 15                          | 0.03                        | <2                          | 2                           | 56                          |
| CC145751           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.17                         | 214                         | <1                          | 0.01                         | 37                          | 630                         | 3                           | <0.01                       | <2                          | 1                           | 41                          |
| CC145752           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.11                         | 106                         | <1                          | <0.01                        | 16                          | 600                         | 2                           | 0.07                        | <2                          | <1                          | 65                          |
| CC145753           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.47                         | 413                         | 7                           | <0.01                        | 49                          | 1550                        | 16                          | <0.01                       | 6                           | 3                           | 55                          |
| CC145754           |                                   | <10                          | <1                          | 0.12                        | 10                           | 0.29                         | 579                         | 12                          | <0.01                        | 91                          | 2470                        | 25                          | 0.05                        | 15                          | 4                           | 168                         |
| CC145755           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.09                         | 299                         | 4                           | 0.01                         | 24                          | 2030                        | 9                           | 0.04                        | 7                           | 1                           | 70                          |
| CC145756           |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.48                         | 450                         | 6                           | <0.01                        | 39                          | 2320                        | 16                          | 0.01                        | 6                           | 2                           | 120                         |
| CC145757           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.04                         | 195                         | 4                           | <0.01                        | 17                          | 1200                        | 12                          | 0.01                        | 6                           | <1                          | 34                          |
| CC145758           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.30                         | 377                         | 7                           | <0.01                        | 38                          | 2720                        | 15                          | 0.01                        | 13                          | 2                           | 89                          |
| CC145759           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.25                         | 356                         | 5                           | <0.01                        | 33                          | 1710                        | 10                          | 0.04                        | 8                           | 1                           | 73                          |
| CC145760           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.09                         | 642                         | 7                           | <0.01                        | 18                          | 1150                        | 10                          | 0.03                        | 4                           | 1                           | 38                          |
| CC145761           |                                   | <10                          | <1                          | 0.51                        | 10                           | 0.01                         | 15                          | 29                          | <0.01                        | 4                           | 2630                        | 73                          | 1.46                        | 10                          | 3                           | 484                         |



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**LIMITED**  
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 VANCOUVER BC V6B 1L8

Page: 2 - C  
 Total # Pages: 6 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| CC147451           |                                   | <20       | 0.14      | <10       | <10       | 82        | <10       |
| CC147452           |                                   | <20       | 0.07      | <10       | <10       | 39        | <10       |
| CC147453           |                                   | <20       | 0.08      | <10       | <10       | 49        | <10       |
| CC147454           |                                   | <20       | 0.03      | <10       | <10       | 36        | <10       |
| CC147455           |                                   | <20       | 0.03      | <10       | <10       | 38        | <10       |
| CC147456           |                                   | <20       | 0.03      | <10       | <10       | 32        | <10       |
| CC147457           |                                   | <20       | 0.05      | <10       | <10       | 35        | <10       |
| CC147458           |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       |
| CC147459           |                                   | <20       | 0.02      | <10       | 10        | 32        | <10       |
| CC147460           |                                   | <20       | 0.06      | <10       | <10       | 48        | <10       |
| CC147461           |                                   | <20       | 0.03      | <10       | <10       | 41        | <10       |
| CC147462           |                                   | <20       | 0.02      | <10       | <10       | 75        | <10       |
| CC147463           |                                   | <20       | 0.04      | <10       | <10       | 43        | <10       |
| CC147464           |                                   | <20       | 0.03      | <10       | <10       | 36        | <10       |
| CC147465           |                                   | <20       | 0.03      | <10       | <10       | 36        | <10       |
| CC147466           |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| CC147467           |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       |
| CC147468           |                                   | <20       | 0.01      | <10       | <10       | 57        | <10       |
| CC147469           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       |
| CC147470           |                                   | <20       | 0.06      | <10       | <10       | 38        | <10       |
| CC147471           |                                   | <20       | 0.06      | <10       | <10       | 49        | <10       |
| CC147472           |                                   | <20       | 0.07      | <10       | <10       | 43        | <10       |
| CC147473           |                                   | <20       | 0.04      | <10       | <10       | 51        | <10       |
| CC147474           |                                   | <20       | 0.07      | <10       | <10       | 58        | <10       |
| CC147475           |                                   | <20       | 0.04      | <10       | <10       | 32        | <10       |
| CC147476           |                                   | <20       | 0.03      | <10       | <10       | 31        | <10       |
| CC147477           |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       |
| CC147478           |                                   | <20       | 0.03      | <10       | <10       | 34        | <10       |
| CC147479           |                                   | <20       | 0.02      | <10       | 10        | 22        | <10       |
| CC145751           |                                   | <20       | 0.01      | <10       | <10       | 9         | <10       |
| CC145752           |                                   | <20       | 0.01      | <10       | <10       | 8         | <10       |
| CC145753           |                                   | <20       | 0.01      | <10       | <10       | 49        | <10       |
| CC145754           |                                   | <20       | 0.01      | <10       | <10       | 59        | <10       |
| CC145755           |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       |
| CC145756           |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       |
| CC145757           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       |
| CC145758           |                                   | <20       | 0.01      | <10       | <10       | 63        | <10       |
| CC145759           |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       |
| CC145760           |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       |
| CC145761           |                                   | <20       | 0.01      | <10       | <10       | 47        | <10       |



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Page: 3 - A  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145762           |                                   | 0.22                       | 0.027                  | 1.5                    | 1.26                 | 70                     | <10                   | 560                    | 0.8                    | <2                     | 0.24                 | 2.6                    | 20                     | 39                     | 179                    | 4.39                 |
| CC145763           |                                   | 0.23                       | 0.025                  | 1.0                    | 0.90                 | 45                     | <10                   | 460                    | 0.5                    | <2                     | 1.04                 | 3.4                    | 61                     | 519                    | 67                     | 5.93                 |
| CC145764           |                                   | 0.27                       | 0.020                  | 0.7                    | 1.42                 | 14                     | <10                   | 580                    | 0.6                    | <2                     | 1.62                 | 1.2                    | 15                     | 133                    | 74                     | 2.75                 |
| CC145765           |                                   | 0.25                       | 0.008                  | 0.7                    | 1.27                 | 9                      | <10                   | 370                    | 0.5                    | <2                     | 1.09                 | 0.5                    | 14                     | 65                     | 53                     | 2.55                 |
| CC145766           |                                   | 0.21                       | 0.006                  | 0.5                    | 0.62                 | 5                      | <10                   | 250                    | <0.5                   | <2                     | 0.79                 | 0.9                    | 9                      | 30                     | 34                     | 1.66                 |
| CC145767           |                                   | 0.30                       | 0.007                  | 0.6                    | 1.41                 | 8                      | <10                   | 430                    | 0.5                    | <2                     | 0.86                 | 0.5                    | 16                     | 97                     | 50                     | 2.79                 |
| CC145768           |                                   | 0.30                       | 0.004                  | 0.3                    | 1.03                 | 11                     | <10                   | 110                    | <0.5                   | <2                     | 0.25                 | 0.6                    | 15                     | 147                    | 8                      | 2.58                 |
| CC145769           |                                   | 0.50                       | 0.008                  | 0.6                    | 1.62                 | 12                     | <10                   | 550                    | 0.6                    | <2                     | 1.08                 | 0.5                    | 18                     | 138                    | 56                     | 2.96                 |
| CC145770           |                                   | 0.37                       | 0.016                  | 1.9                    | 1.31                 | 23                     | <10                   | 750                    | 0.7                    | <2                     | 1.05                 | 2.7                    | 24                     | 63                     | 123                    | 4.42                 |
| CC145771           |                                   | 0.42                       | 0.007                  | 0.3                    | 0.79                 | 8                      | <10                   | 250                    | <0.5                   | <2                     | 0.08                 | 0.5                    | 8                      | 29                     | 42                     | 2.90                 |
| CC145772           |                                   | 0.32                       | 0.004                  | <0.2                   | 1.67                 | 9                      | <10                   | 320                    | <0.5                   | <2                     | 0.14                 | <0.5                   | 14                     | 91                     | 15                     | 2.68                 |
| CC145773           |                                   | 0.22                       | 0.008                  | 0.3                    | 1.22                 | 6                      | <10                   | 390                    | <0.5                   | <2                     | 1.36                 | <0.5                   | 12                     | 82                     | 19                     | 2.23                 |
| CC145774           |                                   | 0.23                       | 0.008                  | <0.2                   | 0.60                 | <2                     | <10                   | 170                    | <0.5                   | <2                     | 2.91                 | <0.5                   | 6                      | 5                      | 11                     | 1.66                 |
| CC145775           |                                   | 0.26                       | 0.004                  | 0.3                    | 1.24                 | 8                      | <10                   | 270                    | <0.5                   | <2                     | 0.58                 | 0.5                    | 13                     | 84                     | 17                     | 2.24                 |
| CC145776           |                                   | 0.27                       | 0.006                  | 0.4                    | 1.46                 | 14                     | <10                   | 430                    | 0.5                    | <2                     | 0.51                 | <0.5                   | 18                     | 136                    | 43                     | 3.06                 |
| CC145777           |                                   | 0.23                       | 0.004                  | 0.5                    | 1.40                 | 14                     | <10                   | 350                    | <0.5                   | <2                     | 1.11                 | 0.5                    | 14                     | 116                    | 26                     | 2.78                 |
| CC145778           |                                   | 0.32                       | 0.013                  | 0.7                    | 0.81                 | 29                     | <10                   | 400                    | <0.5                   | <2                     | 0.56                 | 0.8                    | 21                     | 116                    | 28                     | 2.35                 |
| CC145779           |                                   | 0.21                       | 0.009                  | 0.5                    | 0.58                 | 25                     | 20                    | 380                    | <0.5                   | <2                     | 0.71                 | 1.0                    | 45                     | 459                    | 26                     | 2.91                 |
| CC145780           |                                   | 0.28                       | 0.009                  | 0.6                    | 0.75                 | 34                     | <10                   | 440                    | <0.5                   | <2                     | 0.53                 | <0.5                   | 11                     | 26                     | 17                     | 2.15                 |
| CC145781           |                                   | 0.11                       | 0.019                  | 0.3                    | 0.97                 | 22                     | <10                   | 340                    | <0.5                   | <2                     | 1.64                 | 1.1                    | 13                     | 25                     | 66                     | 2.82                 |
| CC145782           |                                   | 0.12                       | 0.025                  | 1.0                    | 0.74                 | 26                     | <10                   | 740                    | <0.5                   | <2                     | 1.84                 | 1.1                    | 5                      | 13                     | 59                     | 1.20                 |
| CC145783           |                                   | 0.37                       | 0.030                  | 0.4                    | 1.19                 | 91                     | <10                   | 360                    | 0.6                    | <2                     | 0.18                 | 1.3                    | 13                     | 33                     | 79                     | 3.06                 |
| CC145784           |                                   | 0.40                       | 0.028                  | 0.5                    | 0.49                 | 35                     | <10                   | 440                    | <0.5                   | <2                     | 0.19                 | 1.2                    | 5                      | 21                     | 86                     | 1.63                 |
| CC145785           |                                   | 0.27                       | 0.049                  | 6.9                    | 1.63                 | 236                    | <10                   | 660                    | 1.2                    | <2                     | 0.53                 | 2.9                    | 8                      | 47                     | 183                    | 3.71                 |
| CC145786           |                                   | 0.52                       | 0.016                  | 0.2                    | 0.55                 | 66                     | <10                   | 180                    | <0.5                   | <2                     | 0.86                 | 0.7                    | 18                     | 18                     | 54                     | 2.76                 |
| CC145787           |                                   | 0.40                       | 0.029                  | 0.8                    | 0.39                 | 63                     | <10                   | 160                    | <0.5                   | <2                     | 1.38                 | 7.6                    | 16                     | 11                     | 77                     | 3.06                 |
| CC145788           |                                   | 0.23                       | 0.013                  | 0.5                    | 0.90                 | 50                     | <10                   | 240                    | <0.5                   | <2                     | 0.33                 | 0.5                    | 12                     | 32                     | 42                     | 2.94                 |
| CC145789           |                                   | 0.31                       | 0.015                  | 0.2                    | 1.16                 | 108                    | <10                   | 270                    | <0.5                   | <2                     | 0.41                 | <0.5                   | 14                     | 38                     | 36                     | 3.52                 |
| CC145790           |                                   | 0.17                       | 0.092                  | 0.5                    | 0.95                 | 426                    | <10                   | 350                    | <0.5                   | <2                     | 1.11                 | 0.5                    | 14                     | 23                     | 45                     | 4.05                 |
| CC145791           |                                   | 0.21                       | 0.007                  | 0.4                    | 1.16                 | 58                     | <10                   | 300                    | <0.5                   | <2                     | 1.12                 | 0.5                    | 15                     | 42                     | 37                     | 3.35                 |
| CC145792           |                                   | 0.22                       | 0.009                  | 0.5                    | 1.29                 | 41                     | <10                   | 290                    | 0.5                    | <2                     | 0.74                 | 0.5                    | 16                     | 43                     | 53                     | 3.36                 |
| CC145793           |                                   | 0.26                       | 0.015                  | 0.9                    | 1.00                 | 24                     | <10                   | 240                    | <0.5                   | <2                     | 1.01                 | <0.5                   | 12                     | 31                     | 63                     | 2.74                 |
| CC145794           |                                   | 0.23                       | 0.013                  | 0.5                    | 0.99                 | 22                     | <10                   | 260                    | <0.5                   | <2                     | 0.93                 | <0.5                   | 11                     | 30                     | 51                     | 2.48                 |
| CC145795           |                                   | 0.43                       | 0.006                  | 0.4                    | 1.23                 | 22                     | <10                   | 250                    | 0.5                    | <2                     | 1.05                 | 1.1                    | 28                     | 39                     | 47                     | 2.40                 |
| CC145796           |                                   | 0.33                       | 0.030                  | 0.6                    | 0.81                 | 24                     | <10                   | 270                    | <0.5                   | <2                     | 0.37                 | <0.5                   | 9                      | 35                     | 59                     | 2.35                 |
| CC145797           |                                   | 0.42                       | 0.010                  | 0.9                    | 0.94                 | 24                     | <10                   | 340                    | <0.5                   | 2                      | 0.80                 | 1.5                    | 11                     | 43                     | 72                     | 2.65                 |
| CC145798           |                                   | 0.42                       | 0.009                  | 0.4                    | 1.32                 | 20                     | <10                   | 460                    | 0.5                    | <2                     | 0.69                 | 0.9                    | 16                     | 82                     | 49                     | 2.54                 |
| CC145799           |                                   | 0.19                       | 0.004                  | 0.5                    | 0.56                 | 18                     | <10                   | 220                    | <0.5                   | <2                     | 2.89                 | 1.0                    | 16                     | 17                     | 33                     | 3.16                 |
| CC145800           |                                   | 0.69                       | 0.008                  | 0.5                    | 0.17                 | 20                     | <10                   | 40                     | <0.5                   | <2                     | 9.2                  | <0.5                   | 11                     | 5                      | 28                     | 2.74                 |
| CC145801           |                                   | 0.31                       | 0.006                  | 0.4                    | 1.53                 | 10                     | <10                   | 550                    | 0.6                    | <2                     | 1.25                 | 0.8                    | 21                     | 110                    | 53                     | 2.80                 |



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Page: 3 - B  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145762           |                                   | <10                          | 1                           | 0.12                        | 20                           | 0.13                         | 1310                        | 11                          | <0.01                        | 105                         | 2230                        | 36                          | 0.03                        | 16                          | 3                           | 69                          |
| CC145763           |                                   | <10                          | 3                           | 0.07                        | 10                           | 2.71                         | 1280                        | 5                           | <0.01                        | 1195                        | 1340                        | 14                          | 0.09                        | 14                          | 11                          | 76                          |
| CC145764           |                                   | <10                          | <1                          | 0.09                        | 10                           | 1.54                         | 904                         | 1                           | <0.01                        | 236                         | 890                         | 13                          | 0.06                        | <2                          | 4                           | 71                          |
| CC145765           |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.87                         | 2100                        | 1                           | <0.01                        | 111                         | 740                         | 12                          | 0.04                        | <2                          | 3                           | 50                          |
| CC145766           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.31                         | 941                         | 2                           | 0.01                         | 57                          | 660                         | 8                           | 0.03                        | <2                          | 2                           | 35                          |
| CC145767           |                                   | <10                          | 1                           | 0.09                        | 20                           | 1.22                         | 580                         | 1                           | <0.01                        | 150                         | 730                         | 17                          | 0.02                        | <2                          | 4                           | 41                          |
| CC145768           |                                   | <10                          | 5                           | 0.06                        | 10                           | 1.26                         | 454                         | 1                           | <0.01                        | 120                         | 340                         | 8                           | <0.01                       | 2                           | 2                           | 12                          |
| CC145769           |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.65                         | 539                         | 1                           | <0.01                        | 206                         | 590                         | 47                          | 0.02                        | 2                           | 6                           | 40                          |
| CC145770           |                                   | <10                          | 1                           | 0.13                        | 20                           | 0.57                         | 2720                        | 6                           | <0.01                        | 248                         | 3640                        | 18                          | 0.08                        | 7                           | 8                           | 79                          |
| CC145771           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.23                         | 150                         | 5                           | <0.01                        | 54                          | 570                         | 15                          | 0.02                        | 5                           | 2                           | 53                          |
| CC145772           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.98                         | 371                         | 1                           | <0.01                        | 87                          | 190                         | 10                          | <0.01                       | <2                          | 3                           | 10                          |
| CC145773           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.97                         | 338                         | <1                          | <0.01                        | 85                          | 800                         | 11                          | 0.03                        | <2                          | 3                           | 33                          |
| CC145774           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.29                         | 609                         | <1                          | <0.01                        | 4                           | 430                         | 10                          | 0.01                        | 2                           | 2                           | 136                         |
| CC145775           |                                   | <10                          | <1                          | 0.11                        | 10                           | 0.63                         | 438                         | 1                           | 0.01                         | 68                          | 600                         | 12                          | 0.01                        | <2                          | 2                           | 29                          |
| CC145776           |                                   | <10                          | <1                          | 0.12                        | 10                           | 1.29                         | 706                         | 1                           | <0.01                        | 153                         | 290                         | 18                          | <0.01                       | <2                          | 5                           | 22                          |
| CC145777           |                                   | <10                          | <1                          | 0.10                        | 10                           | 1.49                         | 420                         | 1                           | <0.01                        | 125                         | 590                         | 13                          | 0.02                        | <2                          | 4                           | 33                          |
| CC145778           |                                   | <10                          | <1                          | 0.06                        | 10                           | 1.30                         | 539                         | 5                           | <0.01                        | 119                         | 1190                        | 22                          | 0.03                        | 7                           | 3                           | 52                          |
| CC145779           |                                   | <10                          | <1                          | 0.05                        | 10                           | 6.17                         | 851                         | 2                           | <0.01                        | 548                         | 1300                        | 10                          | 0.05                        | 6                           | 3                           | 73                          |
| CC145780           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.35                         | 579                         | 4                           | <0.01                        | 20                          | 1220                        | 12                          | 0.05                        | 4                           | 2                           | 67                          |
| CC145781           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.00                         | 949                         | 2                           | <0.01                        | 40                          | 1390                        | 9                           | 0.14                        | 3                           | 4                           | 141                         |
| CC145782           |                                   | <10                          | 1                           | 0.05                        | <10                          | 0.24                         | 895                         | 2                           | 0.02                         | 33                          | 1020                        | 9                           | 0.12                        | 4                           | 1                           | 151                         |
| CC145783           |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.25                         | 333                         | 8                           | <0.01                        | 65                          | 1390                        | 25                          | 0.02                        | 11                          | 2                           | 70                          |
| CC145784           |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.09                         | 188                         | 4                           | <0.01                        | 22                          | 940                         | 18                          | 0.09                        | 5                           | 1                           | 121                         |
| CC145785           |                                   | <10                          | 1                           | 0.12                        | 20                           | 0.22                         | 205                         | 23                          | <0.01                        | 56                          | 5950                        | 48                          | 0.07                        | 29                          | 5                           | 237                         |
| CC145786           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.48                         | 548                         | 3                           | <0.01                        | 46                          | 670                         | 11                          | <0.01                       | 11                          | 3                           | 37                          |
| CC145787           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.69                         | 673                         | 5                           | <0.01                        | 79                          | 870                         | 12                          | 0.01                        | 16                          | 3                           | 61                          |
| CC145788           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.30                         | 382                         | 14                          | <0.01                        | 54                          | 830                         | 18                          | 0.01                        | 8                           | 2                           | 54                          |
| CC145789           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.54                         | 438                         | 4                           | <0.01                        | 51                          | 1110                        | 12                          | <0.01                       | 4                           | 3                           | 33                          |
| CC145790           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.29                         | 1050                        | 4                           | 0.02                         | 44                          | 890                         | 16                          | 0.10                        | 6                           | 2                           | 70                          |
| CC145791           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.61                         | 598                         | 2                           | 0.01                         | 58                          | 1320                        | 11                          | 0.04                        | 3                           | 3                           | 51                          |
| CC145792           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.67                         | 306                         | 2                           | 0.02                         | 69                          | 890                         | 15                          | 0.02                        | 3                           | 4                           | 36                          |
| CC145793           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.50                         | 596                         | 3                           | 0.01                         | 52                          | 1910                        | 13                          | 0.03                        | 3                           | 3                           | 55                          |
| CC145794           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.47                         | 419                         | 2                           | 0.02                         | 51                          | 1440                        | 13                          | 0.04                        | 3                           | 2                           | 51                          |
| CC145795           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.74                         | 302                         | 1                           | 0.02                         | 58                          | 890                         | 12                          | 0.08                        | <2                          | 4                           | 49                          |
| CC145796           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.32                         | 279                         | 3                           | 0.01                         | 52                          | 1310                        | 11                          | <0.01                       | 4                           | 3                           | 44                          |
| CC145797           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.56                         | 663                         | 3                           | 0.01                         | 75                          | 1160                        | 22                          | 0.03                        | 5                           | 4                           | 59                          |
| CC145798           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.01                         | 359                         | 1                           | 0.02                         | 122                         | 770                         | 14                          | 0.01                        | 2                           | 5                           | 33                          |
| CC145799           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.36                         | 1210                        | 1                           | 0.02                         | 46                          | 670                         | 8                           | 0.04                        | 2                           | 2                           | 56                          |
| CC145800           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.80                         | 517                         | 1                           | 0.01                         | 27                          | 510                         | 6                           | 0.01                        | 5                           | 3                           | 102                         |
| CC145801           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.02                         | 929                         | 1                           | 0.02                         | 118                         | 900                         | 12                          | 0.07                        | <2                          | 4                           | 52                          |



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Page: 3 - C  
 Total # Pages: 6 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145762           |                                   | <20       | <0.01     | <10       | <10       | 72        | <10       | 459       |
| CC145763           |                                   | <20       | <0.01     | <10       | <10       | 55        | <10       | 466       |
| CC145764           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 107       |
| CC145765           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 96        |
| CC145766           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 110       |
| CC145767           |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 94        |
| CC145768           |                                   | <20       | 0.03      | <10       | <10       | 49        | <10       | 64        |
| CC145769           |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       | 177       |
| CC145770           |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 245       |
| CC145771           |                                   | <20       | <0.01     | <10       | <10       | 21        | <10       | 124       |
| CC145772           |                                   | <20       | 0.03      | <10       | <10       | 46        | <10       | 54        |
| CC145773           |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 72        |
| CC145774           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       | 32        |
| CC145775           |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 96        |
| CC145776           |                                   | <20       | 0.02      | <10       | <10       | 50        | <10       | 86        |
| CC145777           |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       | 128       |
| CC145778           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 101       |
| CC145779           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 195       |
| CC145780           |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 93        |
| CC145781           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 94        |
| CC145782           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 70        |
| CC145783           |                                   | <20       | 0.01      | <10       | <10       | 56        | <10       | 334       |
| CC145784           |                                   | <20       | <0.01     | <10       | <10       | 30        | <10       | 122       |
| CC145785           |                                   | <20       | 0.01      | <10       | 10        | 137       | <10       | 358       |
| CC145786           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 184       |
| CC145787           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 702       |
| CC145788           |                                   | <20       | 0.01      | <10       | <10       | 69        | <10       | 141       |
| CC145789           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 95        |
| CC145790           |                                   | <20       | <0.01     | <10       | <10       | 24        | <10       | 100       |
| CC145791           |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 93        |
| CC145792           |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 106       |
| CC145793           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 98        |
| CC145794           |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 105       |
| CC145795           |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 127       |
| CC145796           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 128       |
| CC145797           |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 195       |
| CC145798           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 139       |
| CC145799           |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 141       |
| CC145800           |                                   | <20       | <0.01     | <10       | <10       | 5         | <10       | 54        |
| CC145801           |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 81        |



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Page: 4 - A  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145802           |                                   | 0.13                       | NSS                    | 0.7                    | 1.31                 | 7                      | <10                   | 630                    | 0.5                    | <2                     | 2.36                 | 1.4                    | 13                     | 85                     | 46                     | 2.20                 |
| CC145803           |                                   | 0.15                       | 0.015                  | 0.4                    | 0.73                 | 24                     | <10                   | 220                    | 0.5                    | <2                     | 0.17                 | 0.5                    | 20                     | 29                     | 83                     | 4.83                 |
| CC145804           |                                   | 0.09                       | 0.002                  | 0.2                    | 1.67                 | 26                     | <10                   | 870                    | 0.7                    | <2                     | 1.91                 | 2.3                    | 24                     | 65                     | 29                     | 3.22                 |
| CC145805           |                                   | 0.26                       | 0.003                  | 0.2                    | 1.75                 | 10                     | <10                   | 260                    | <0.5                   | <2                     | 0.14                 | 0.6                    | 19                     | 100                    | 12                     | 3.16                 |
| CC145806           |                                   | 0.35                       | 0.001                  | <0.2                   | 1.60                 | 10                     | <10                   | 220                    | <0.5                   | 2                      | 0.17                 | <0.5                   | 13                     | 82                     | 13                     | 3.06                 |
| CC145807           |                                   | 0.20                       | 0.002                  | <0.2                   | 0.94                 | 9                      | <10                   | 240                    | <0.5                   | <2                     | 0.37                 | 0.5                    | 10                     | 59                     | 11                     | 2.40                 |
| CC145808           |                                   | 0.13                       | 0.003                  | 0.4                    | 1.30                 | 6                      | <10                   | 390                    | <0.5                   | <2                     | 1.54                 | 1.6                    | 10                     | 64                     | 23                     | 2.28                 |
| CC145809           |                                   | 0.12                       | 0.005                  | 0.4                    | 1.23                 | 9                      | <10                   | 380                    | 0.5                    | <2                     | 1.04                 | <0.5                   | 10                     | 64                     | 32                     | 2.29                 |
| CC145810           |                                   | 0.21                       | 0.003                  | <0.2                   | 1.65                 | 9                      | <10                   | 310                    | 0.8                    | <2                     | 0.93                 | <0.5                   | 17                     | 82                     | 28                     | 2.99                 |
| CC145811           |                                   | 0.11                       | <0.001                 | 0.3                    | 1.80                 | 7                      | <10                   | 450                    | 0.7                    | <2                     | 1.45                 | 1.0                    | 23                     | 85                     | 25                     | 2.88                 |
| CC145812           |                                   | 0.25                       | 0.004                  | 0.5                    | 1.37                 | 15                     | <10                   | 340                    | 0.5                    | <2                     | 0.73                 | <0.5                   | 17                     | 129                    | 34                     | 2.89                 |
| CC145813           |                                   | 0.15                       | 0.002                  | 0.6                    | 1.20                 | 8                      | <10                   | 380                    | <0.5                   | <2                     | 1.39                 | 0.8                    | 13                     | 106                    | 42                     | 2.13                 |
| CC145814           |                                   | 0.45                       | 0.009                  | 0.7                    | 1.04                 | 38                     | <10                   | 600                    | <0.5                   | <2                     | 0.46                 | 0.5                    | 11                     | 23                     | 26                     | 2.39                 |
| CC145815           |                                   | 0.15                       | 0.008                  | 0.8                    | 0.58                 | 21                     | <10                   | 540                    | <0.5                   | <2                     | 0.81                 | 1.0                    | 4                      | 19                     | 27                     | 1.31                 |
| CC145816           |                                   | 0.16                       | 0.007                  | 0.6                    | 0.67                 | 40                     | <10                   | 500                    | <0.5                   | <2                     | 0.70                 | 0.9                    | 10                     | 35                     | 31                     | 2.38                 |
| CC145817           |                                   | 0.14                       | 0.044                  | 1.1                    | 0.79                 | 44                     | <10                   | 550                    | <0.5                   | <2                     | 1.17                 | 0.8                    | 7                      | 25                     | 54                     | 1.94                 |
| CC145818           |                                   | 0.18                       | 0.038                  | 4.4                    | 1.11                 | 35                     | <10                   | 940                    | 0.5                    | 2                      | 1.55                 | 8.0                    | 6                      | 30                     | 127                    | 1.85                 |
| CC145819           |                                   | 0.14                       | 0.029                  | 2.9                    | 1.31                 | 75                     | <10                   | 700                    | 0.6                    | 2                      | 0.83                 | 4.6                    | 14                     | 33                     | 132                    | 2.90                 |
| CC145820           |                                   | 0.12                       | 0.022                  | 1.0                    | 0.59                 | 35                     | <10                   | 350                    | <0.5                   | <2                     | 0.87                 | 1.2                    | 8                      | 17                     | 50                     | 1.80                 |
| CC145821           |                                   | 0.14                       | 0.019                  | 0.9                    | 0.72                 | 43                     | <10                   | 400                    | <0.5                   | <2                     | 0.52                 | 0.9                    | 7                      | 21                     | 73                     | 1.80                 |
| CC145822           |                                   | 0.34                       | 0.022                  | 0.2                    | 1.04                 | 77                     | <10                   | 360                    | <0.5                   | <2                     | 0.24                 | 1.1                    | 11                     | 34                     | 73                     | 3.10                 |
| CC145823           |                                   | 0.32                       | 0.038                  | 2.1                    | 0.32                 | 24                     | <10                   | 1080                   | <0.5                   | <2                     | 0.26                 | 3.0                    | 1                      | 15                     | 65                     | 0.80                 |
| CC145824           |                                   | 0.24                       | 0.072                  | 0.5                    | 1.41                 | 401                    | <10                   | 380                    | 0.7                    | <2                     | 0.25                 | 1.1                    | 20                     | 32                     | 110                    | 4.64                 |
| CC145825           |                                   | 0.37                       | 0.014                  | 0.6                    | 0.41                 | 41                     | <10                   | 160                    | <0.5                   | <2                     | 1.95                 | 41.6                   | 10                     | 9                      | 67                     | 2.96                 |
| CC145826           |                                   | 0.37                       | 0.012                  | 0.8                    | 1.55                 | 68                     | <10                   | 360                    | 0.5                    | <2                     | 0.50                 | 0.8                    | 20                     | 64                     | 75                     | 4.63                 |
| CC145827           |                                   | 0.19                       | 0.016                  | 0.6                    | 1.06                 | 41                     | <10                   | 370                    | <0.5                   | <2                     | 0.57                 | 0.8                    | 12                     | 33                     | 127                    | 3.44                 |
| CC145828           |                                   | 0.29                       | 0.008                  | 0.4                    | 1.64                 | 42                     | <10                   | 220                    | <0.5                   | <2                     | 0.76                 | 0.6                    | 20                     | 50                     | 57                     | 4.46                 |
| CC145829           |                                   | 0.25                       | 0.012                  | 0.3                    | 1.47                 | 87                     | <10                   | 290                    | <0.5                   | <2                     | 0.89                 | 0.8                    | 19                     | 47                     | 66                     | 4.06                 |
| CC145830           |                                   | 0.11                       | NSS                    | 0.3                    | 1.13                 | 27                     | <10                   | 170                    | <0.5                   | <2                     | 1.92                 | <0.5                   | 13                     | 21                     | 40                     | 2.60                 |
| CC145831           |                                   | 0.37                       | 0.004                  | <0.2                   | 1.32                 | 58                     | <10                   | 90                     | <0.5                   | <2                     | 4.35                 | <0.5                   | 15                     | 20                     | 41                     | 3.51                 |
| CC145832           |                                   | 0.26                       | 0.009                  | 0.6                    | 1.13                 | 74                     | <10                   | 210                    | 0.5                    | <2                     | 0.87                 | 0.6                    | 17                     | 21                     | 56                     | 4.06                 |
| CC145833           |                                   | 0.23                       | 0.003                  | 0.2                    | 0.36                 | 20                     | <10                   | 90                     | <0.5                   | <2                     | 5.63                 | <0.5                   | 16                     | 8                      | 39                     | 3.39                 |
| CC145834           |                                   | 0.22                       | 0.004                  | 0.2                    | 0.61                 | 20                     | <10                   | 130                    | <0.5                   | <2                     | 1.44                 | <0.5                   | 11                     | 6                      | 29                     | 2.52                 |
| CC145835           |                                   | 0.25                       | 0.003                  | 0.3                    | 1.28                 | 13                     | <10                   | 110                    | <0.5                   | <2                     | 4.02                 | <0.5                   | 15                     | 19                     | 37                     | 3.53                 |
| CC145836           |                                   | 0.23                       | 0.008                  | 0.4                    | 0.92                 | 14                     | <10                   | 190                    | <0.5                   | <2                     | 1.18                 | 0.5                    | 9                      | 22                     | 31                     | 2.53                 |
| CC145837           |                                   | 0.33                       | 0.010                  | 0.7                    | 1.09                 | 43                     | <10                   | 420                    | <0.5                   | <2                     | 0.70                 | 1.1                    | 15                     | 36                     | 43                     | 3.80                 |
| CC145838           |                                   | 0.06                       | 0.022                  | 0.8                    | 1.18                 | 30                     | <10                   | 390                    | <0.5                   | <2                     | 1.56                 | 1.3                    | 15                     | 32                     | 65                     | 2.73                 |
| CC145839           |                                   | 0.47                       | 0.004                  | 0.2                    | 1.49                 | 12                     | <10                   | 100                    | <0.5                   | <2                     | 2.46                 | 0.6                    | 16                     | 25                     | 38                     | 3.65                 |
| CC145840           |                                   | 0.63                       | 0.005                  | 0.4                    | 1.45                 | 23                     | <10                   | 200                    | 0.5                    | <2                     | 1.92                 | 0.7                    | 17                     | 35                     | 51                     | 3.66                 |
| CC145841           |                                   | 0.28                       | 0.006                  | 0.2                    | 0.68                 | 20                     | <10                   | 150                    | 0.5                    | <2                     | 2.86                 | 0.5                    | 14                     | 19                     | 40                     | 2.98                 |



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Page: 4 - B  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145802           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.83                         | 620                         | 1                           | 0.02                         | 105                         | 820                         | 11                          | 0.07                        | <2                          | 2                           | 73                          |
| CC145803           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.08                         | 850                         | 4                           | 0.01                         | 79                          | 670                         | 9                           | 0.01                        | 3                           | 3                           | 11                          |
| CC145804           |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.53                         | 2520                        | 2                           | 0.02                         | 96                          | 960                         | 14                          | 0.02                        | 2                           | 6                           | 28                          |
| CC145805           |                                   | <10                          | <1                          | 0.07                        | 20                           | 1.01                         | 474                         | <1                          | 0.01                         | 98                          | 380                         | 11                          | 0.01                        | 2                           | 3                           | 10                          |
| CC145806           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.87                         | 355                         | <1                          | 0.01                         | 65                          | 190                         | 11                          | <0.01                       | <2                          | 3                           | 11                          |
| CC145807           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.50                         | 320                         | 1                           | 0.01                         | 37                          | 290                         | 9                           | 0.01                        | <2                          | 2                           | 16                          |
| CC145808           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.53                         | 732                         | <1                          | 0.02                         | 52                          | 560                         | 10                          | 0.04                        | <2                          | 3                           | 36                          |
| CC145809           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.67                         | 191                         | <1                          | 0.01                         | 62                          | 660                         | 14                          | 0.03                        | <2                          | 3                           | 26                          |
| CC145810           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.64                         | 629                         | <1                          | 0.02                         | 86                          | 380                         | 15                          | 0.02                        | <2                          | 5                           | 17                          |
| CC145811           |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.51                         | 1670                        | 1                           | 0.02                         | 86                          | 1740                        | 15                          | 0.03                        | <2                          | 4                           | 24                          |
| CC145812           |                                   | <10                          | <1                          | 0.11                        | 20                           | 1.82                         | 511                         | 1                           | 0.02                         | 154                         | 630                         | 14                          | 0.02                        | <2                          | 4                           | 32                          |
| CC145813           |                                   | <10                          | <1                          | 0.08                        | 10                           | 1.25                         | 380                         | 2                           | 0.02                         | 122                         | 830                         | 9                           | 0.05                        | <2                          | 3                           | 62                          |
| CC145814           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.45                         | 1195                        | 4                           | 0.01                         | 29                          | 1190                        | 16                          | 0.02                        | 4                           | 3                           | 45                          |
| CC145815           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.34                         | 327                         | 2                           | 0.02                         | 31                          | 1300                        | 11                          | 0.07                        | 3                           | 1                           | 68                          |
| CC145816           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.38                         | 469                         | 4                           | 0.02                         | 49                          | 1300                        | 13                          | 0.05                        | 5                           | 3                           | 56                          |
| CC145817           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.35                         | 394                         | 2                           | 0.02                         | 29                          | 1530                        | 16                          | 0.06                        | 9                           | 2                           | 99                          |
| CC145818           |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.30                         | 398                         | 7                           | 0.02                         | 51                          | 2100                        | 15                          | 0.10                        | 8                           | 3                           | 281                         |
| CC145819           |                                   | <10                          | 1                           | 0.11                        | 10                           | 0.36                         | 1170                        | 11                          | 0.02                         | 67                          | 1810                        | 20                          | 0.09                        | 11                          | 3                           | 97                          |
| CC145820           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.22                         | 325                         | 5                           | 0.02                         | 29                          | 1530                        | 12                          | 0.05                        | 7                           | 2                           | 84                          |
| CC145821           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.23                         | 303                         | 3                           | 0.02                         | 37                          | 1480                        | 10                          | 0.04                        | 6                           | 2                           | 79                          |
| CC145822           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.31                         | 425                         | 5                           | 0.01                         | 52                          | 1460                        | 16                          | 0.01                        | 9                           | 2                           | 50                          |
| CC145823           |                                   | <10                          | <1                          | 0.07                        | 30                           | 0.06                         | 46                          | 4                           | 0.01                         | 14                          | 2030                        | 23                          | 0.03                        | 11                          | 2                           | 118                         |
| CC145824           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.29                         | 447                         | 9                           | 0.01                         | 77                          | 1790                        | 20                          | 0.01                        | 11                          | 3                           | 49                          |
| CC145825           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.97                         | 313                         | 14                          | 0.01                         | 111                         | 860                         | 15                          | 0.02                        | 8                           | 3                           | 85                          |
| CC145826           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.64                         | 495                         | 8                           | 0.03                         | 109                         | 1510                        | 18                          | 0.03                        | 5                           | 5                           | 48                          |
| CC145827           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.33                         | 477                         | 8                           | 0.03                         | 46                          | 2240                        | 28                          | 0.07                        | 6                           | 3                           | 129                         |
| CC145828           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.67                         | 626                         | 3                           | 0.03                         | 79                          | 1220                        | 18                          | 0.03                        | 2                           | 4                           | 42                          |
| CC145829           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.75                         | 532                         | 3                           | 0.03                         | 80                          | 1420                        | 25                          | 0.05                        | 5                           | 5                           | 48                          |
| CC145830           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.56                         | 356                         | 1                           | 0.04                         | 40                          | 910                         | 10                          | 0.07                        | 2                           | 2                           | 63                          |
| CC145831           |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.69                         | 378                         | 1                           | 0.03                         | 38                          | 580                         | 12                          | 0.02                        | 2                           | 4                           | 96                          |
| CC145832           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.44                         | 781                         | 1                           | 0.03                         | 46                          | 680                         | 50                          | 0.03                        | 6                           | 4                           | 37                          |
| CC145833           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.28                         | 767                         | 1                           | 0.03                         | 31                          | 630                         | 8                           | 0.02                        | 2                           | 3                           | 69                          |
| CC145834           |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.12                         | 309                         | 1                           | 0.03                         | 23                          | 640                         | 7                           | 0.08                        | 2                           | 2                           | 36                          |
| CC145835           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.81                         | 884                         | 1                           | 0.03                         | 34                          | 630                         | 10                          | 0.03                        | 2                           | 3                           | 65                          |
| CC145836           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.39                         | 204                         | 2                           | 0.03                         | 35                          | 920                         | 8                           | 0.09                        | 2                           | 2                           | 44                          |
| CC145837           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.45                         | 2510                        | 5                           | 0.03                         | 50                          | 1670                        | 14                          | 0.05                        | 4                           | 4                           | 59                          |
| CC145838           |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.49                         | 1295                        | 5                           | 0.03                         | 63                          | 1560                        | 16                          | 0.10                        | 5                           | 3                           | 81                          |
| CC145839           |                                   | <10                          | <1                          | 0.05                        | 30                           | 0.70                         | 446                         | 1                           | 0.03                         | 43                          | 680                         | 11                          | 0.02                        | 2                           | 3                           | 63                          |
| CC145840           |                                   | <10                          | <1                          | 0.08                        | 30                           | 0.81                         | 488                         | 2                           | 0.03                         | 60                          | 920                         | 13                          | 0.02                        | 2                           | 4                           | 59                          |
| CC145841           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.66                         | 428                         | 2                           | 0.03                         | 41                          | 920                         | 8                           | 0.04                        | 3                           | 3                           | 59                          |



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Page: 4 - C  
 Total # Pages: 6 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145802           |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 135       |
| CC145803           |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       | 175       |
| CC145804           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 151       |
| CC145805           |                                   | <20       | 0.03      | <10       | <10       | 54        | <10       | 91        |
| CC145806           |                                   | <20       | 0.04      | <10       | <10       | 56        | <10       | 68        |
| CC145807           |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 58        |
| CC145808           |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 149       |
| CC145809           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 88        |
| CC145810           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 51        |
| CC145811           |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 59        |
| CC145812           |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 138       |
| CC145813           |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 125       |
| CC145814           |                                   | <20       | <0.01     | <10       | <10       | 40        | <10       | 139       |
| CC145815           |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 107       |
| CC145816           |                                   | <20       | 0.01      | <10       | <10       | 49        | <10       | 154       |
| CC145817           |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 129       |
| CC145818           |                                   | <20       | 0.01      | <10       | 20        | 73        | <10       | 379       |
| CC145819           |                                   | <20       | 0.01      | <10       | <10       | 99        | <10       | 516       |
| CC145820           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 149       |
| CC145821           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 164       |
| CC145822           |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 233       |
| CC145823           |                                   | <20       | 0.01      | <10       | <10       | 64        | <10       | 103       |
| CC145824           |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       | 246       |
| CC145825           |                                   | <20       | <0.01     | <10       | <10       | 17        | <10       | 1320      |
| CC145826           |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       | 149       |
| CC145827           |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 97        |
| CC145828           |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 116       |
| CC145829           |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 133       |
| CC145830           |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 74        |
| CC145831           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 84        |
| CC145832           |                                   | <20       | <0.01     | <10       | <10       | 21        | <10       | 103       |
| CC145833           |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 84        |
| CC145834           |                                   | <20       | 0.01      | <10       | <10       | 8         | <10       | 62        |
| CC145835           |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 76        |
| CC145836           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 115       |
| CC145837           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 202       |
| CC145838           |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 166       |
| CC145839           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 131       |
| CC145840           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 123       |
| CC145841           |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 92        |



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Page: 5 - A  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC145842           |                                   | 0.49                       | 0.416                  | 0.9                    | 0.41                 | 2030                   | <10                   | 230                    | <0.5                   | <2                     | 0.16                 | <0.5                   | 7                      | 12                     | 25                     | 4.97                 |
| CC145843           |                                   | 0.09                       | 0.012                  | 0.7                    | 0.86                 | 48                     | <10                   | 350                    | <0.5                   | <2                     | 2.65                 | 0.7                    | 7                      | 16                     | 52                     | 1.78                 |
| CC145844           |                                   | 0.41                       | 0.026                  | 0.5                    | 0.79                 | 76                     | <10                   | 420                    | <0.5                   | <2                     | 0.38                 | 0.7                    | 13                     | 24                     | 53                     | 2.56                 |
| CC145845           |                                   | 0.33                       | 0.009                  | 0.7                    | 1.39                 | 63                     | <10                   | 400                    | 0.5                    | <2                     | 0.60                 | 0.7                    | 13                     | 48                     | 52                     | 3.38                 |
| CC145846           |                                   | 0.53                       | 0.088                  | <0.2                   | 0.31                 | 113                    | <10                   | 90                     | <0.5                   | <2                     | 0.14                 | <0.5                   | 7                      | 10                     | 181                    | 2.15                 |
| CC145847           |                                   | 0.53                       | 0.022                  | 0.6                    | 0.65                 | 141                    | <10                   | 300                    | <0.5                   | <2                     | 1.13                 | 1.4                    | 14                     | 18                     | 70                     | 2.78                 |
| CC145848           |                                   | 0.56                       | 0.019                  | 1.0                    | 1.16                 | 72                     | <10                   | 780                    | 0.6                    | <2                     | 0.56                 | 24.1                   | 12                     | 31                     | 159                    | 2.80                 |
| CC145849           |                                   | 0.46                       | 0.007                  | 0.2                    | 0.25                 | 12                     | <10                   | 210                    | <0.5                   | <2                     | 0.11                 | <0.5                   | 2                      | 5                      | 22                     | 0.90                 |
| CC145850           |                                   | 0.52                       | 0.018                  | 1.6                    | 0.89                 | 39                     | <10                   | 650                    | 0.5                    | <2                     | 0.55                 | 2.3                    | 7                      | 34                     | 76                     | 2.30                 |
| CC145851           |                                   | 0.27                       | 0.006                  | 0.3                    | 1.46                 | 7                      | <10                   | 810                    | 0.5                    | <2                     | 1.01                 | 0.7                    | 16                     | 89                     | 63                     | 2.39                 |
| CC145852           |                                   | 0.35                       | 0.008                  | 0.2                    | 1.92                 | 12                     | <10                   | 600                    | 0.6                    | <2                     | 0.37                 | <0.5                   | 16                     | 92                     | 35                     | 3.14                 |
| CC145853           |                                   | 0.30                       | 0.005                  | <0.2                   | 1.45                 | 11                     | <10                   | 250                    | <0.5                   | <2                     | 0.18                 | <0.5                   | 15                     | 117                    | 13                     | 3.15                 |
| CC145854           |                                   | 0.25                       | 0.006                  | <0.2                   | 1.51                 | 10                     | <10                   | 280                    | <0.5                   | <2                     | 0.25                 | 1.1                    | 12                     | 99                     | 15                     | 2.53                 |
| CC145855           |                                   | 0.23                       | 0.004                  | 1.0                    | 1.69                 | 8                      | <10                   | 700                    | 0.7                    | <2                     | 0.45                 | <0.5                   | 15                     | 83                     | 52                     | 2.35                 |
| CC145856           |                                   | 0.24                       | 0.009                  | 0.4                    | 0.58                 | 10                     | <10                   | 230                    | <0.5                   | <2                     | 0.12                 | <0.5                   | 14                     | 14                     | 66                     | 3.13                 |
| CC145857           |                                   | 0.50                       | 0.019                  | 0.5                    | 0.78                 | 18                     | <10                   | 250                    | 0.5                    | <2                     | 0.32                 | 0.6                    | 13                     | 31                     | 36                     | 2.56                 |
| CC145858           |                                   | 0.30                       | 0.029                  | 0.9                    | 0.42                 | 28                     | <10                   | 160                    | <0.5                   | <2                     | 0.18                 | <0.5                   | 8                      | 23                     | 42                     | 3.41                 |
| CC145859           |                                   | 0.17                       | NSS                    | 0.8                    | 1.24                 | 11                     | <10                   | 570                    | 0.5                    | <2                     | 1.56                 | 1.0                    | 13                     | 60                     | 57                     | 2.54                 |
| CC145860           |                                   | 0.23                       | 0.008                  | 0.6                    | 1.45                 | 13                     | <10                   | 370                    | <0.5                   | <2                     | 1.10                 | 0.7                    | 16                     | 104                    | 35                     | 2.73                 |
| CC145861           |                                   | 0.25                       | 0.020                  | 0.3                    | 1.22                 | 11                     | <10                   | 330                    | <0.5                   | <2                     | 0.84                 | 0.8                    | 13                     | 97                     | 18                     | 2.32                 |
| CC145862           |                                   | 0.41                       | 0.008                  | 0.6                    | 1.23                 | 12                     | <10                   | 300                    | <0.5                   | <2                     | 0.93                 | 0.7                    | 16                     | 120                    | 41                     | 2.58                 |
| CC145863           |                                   | 0.17                       | 0.012                  | 0.9                    | 0.79                 | 21                     | <10                   | 380                    | <0.5                   | <2                     | 0.48                 | 0.7                    | 9                      | 27                     | 38                     | 2.20                 |
| CC145864           |                                   | 0.17                       | 0.009                  | 0.9                    | 0.54                 | 34                     | <10                   | 230                    | <0.5                   | <2                     | 0.30                 | <0.5                   | 3                      | 20                     | 19                     | 1.81                 |
| CC145865           |                                   | 0.17                       | 0.011                  | 1.2                    | 0.69                 | 28                     | <10                   | 350                    | <0.5                   | <2                     | 0.53                 | 0.7                    | 4                      | 57                     | 25                     | 1.54                 |
| CC145866           |                                   | 0.24                       | 0.017                  | 1.6                    | 0.80                 | 72                     | <10                   | 330                    | <0.5                   | <2                     | 0.37                 | 2.9                    | 8                      | 27                     | 82                     | 2.30                 |
| CC145867           |                                   | 0.33                       | 0.022                  | 0.8                    | 0.82                 | 57                     | <10                   | 370                    | <0.5                   | <2                     | 0.52                 | 1.2                    | 8                      | 31                     | 69                     | 2.52                 |
| CC145901           |                                   | 0.35                       | 0.013                  | 0.8                    | 0.85                 | 25                     | <10                   | 190                    | <0.5                   | <2                     | 0.57                 | 2.1                    | 14                     | 37                     | 65                     | 3.15                 |
| CC145902           |                                   | 0.35                       | 0.008                  | 0.8                    | 0.71                 | 20                     | <10                   | 230                    | <0.5                   | <2                     | 0.67                 | 1.5                    | 12                     | 23                     | 58                     | 2.50                 |
| CC145903           |                                   | 0.18                       | 0.006                  | 0.7                    | 1.00                 | 6                      | <10                   | 220                    | <0.5                   | <2                     | 1.67                 | 1.3                    | 8                      | 18                     | 51                     | 1.96                 |
| CC145904           |                                   | 0.49                       | 0.015                  | 1.0                    | 1.00                 | 39                     | <10                   | 160                    | <0.5                   | <2                     | 0.39                 | 1.7                    | 16                     | 26                     | 90                     | 4.28                 |
| CC145905           |                                   | 0.27                       | 0.005                  | 0.3                    | 1.09                 | 17                     | <10                   | 130                    | <0.5                   | 2                      | 2.38                 | 0.6                    | 16                     | 20                     | 46                     | 3.61                 |
| CC145906           |                                   | 0.25                       | 0.003                  | 0.2                    | 0.58                 | 19                     | <10                   | 150                    | <0.5                   | <2                     | 0.69                 | 0.5                    | 12                     | 16                     | 32                     | 2.79                 |
| CC145741           |                                   | 0.27                       | 0.015                  | 0.7                    | 0.70                 | 43                     | <10                   | 1010                   | <0.5                   | <2                     | 0.52                 | 0.7                    | 9                      | 19                     | 57                     | 2.57                 |
| CC145742           |                                   | 0.12                       | 0.016                  | 0.7                    | 0.43                 | 19                     | <10                   | 600                    | <0.5                   | <2                     | 1.28                 | 0.9                    | 4                      | 6                      | 21                     | 1.21                 |
| CC145743           |                                   | 0.20                       | 0.009                  | 0.8                    | 0.59                 | 32                     | <10                   | 350                    | <0.5                   | <2                     | 0.56                 | 0.6                    | 4                      | 18                     | 20                     | 1.25                 |
| CC145744           |                                   | 0.27                       | 0.006                  | 0.5                    | 1.31                 | 7                      | <10                   | 470                    | 0.5                    | <2                     | 1.51                 | 1.5                    | 14                     | 119                    | 44                     | 2.52                 |
| CC145745           |                                   | 0.21                       | 0.005                  | 0.3                    | 1.15                 | 5                      | <10                   | 230                    | <0.5                   | <2                     | 0.93                 | <0.5                   | 13                     | 88                     | 25                     | 2.28                 |
| CC145746           |                                   | 0.40                       | 0.016                  | 0.2                    | 0.90                 | 8                      | <10                   | 160                    | <0.5                   | 2                      | 0.36                 | 0.5                    | 12                     | 68                     | 26                     | 2.81                 |
| CC145747           |                                   | 0.46                       | 0.007                  | 0.6                    | 1.47                 | 9                      | <10                   | 420                    | 0.5                    | <2                     | 0.69                 | <0.5                   | 19                     | 108                    | 45                     | 2.94                 |
| CC145748           |                                   | 0.20                       | 0.018                  | 0.8                    | 0.81                 | 3                      | <10                   | 430                    | <0.5                   | <2                     | 1.31                 | 1.3                    | 9                      | 46                     | 26                     | 1.62                 |



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Page: 5 - B  
Total # Pages: 6 (A - C)  
Plus Appendix Pages  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC145842           |                                   | <10                          | <1                          | 0.19                        | 20                           | 0.09                         | 141                         | 4                           | 0.02                         | 25                          | 490                         | 29                          | 0.48                        | 11                          | 2                           | 107                         |
| CC145843           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.28                         | 496                         | 3                           | 0.03                         | 38                          | 1390                        | 11                          | 0.17                        | 5                           | 1                           | 139                         |
| CC145844           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.27                         | 551                         | 5                           | 0.02                         | 51                          | 970                         | 14                          | 0.02                        | 3                           | 3                           | 36                          |
| CC145845           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.55                         | 251                         | 4                           | 0.02                         | 62                          | 1150                        | 17                          | 0.03                        | 4                           | 4                           | 46                          |
| CC145846           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.04                         | 97                          | 3                           | 0.02                         | 36                          | 1210                        | 18                          | 0.03                        | 108                         | <1                          | 43                          |
| CC145847           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.54                         | 832                         | 4                           | 0.03                         | 85                          | 1020                        | 15                          | 0.03                        | 6                           | 4                           | 60                          |
| CC145848           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.33                         | 578                         | 17                          | 0.03                         | 117                         | 1230                        | 22                          | 0.02                        | 9                           | 2                           | 74                          |
| CC145849           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.05                         | 83                          | 3                           | 0.02                         | 6                           | 350                         | 7                           | 0.03                        | 4                           | <1                          | 27                          |
| CC145850           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.18                         | 289                         | 8                           | 0.03                         | 27                          | 3760                        | 19                          | 0.09                        | 6                           | 1                           | 285                         |
| CC145851           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.57                         | 1010                        | 1                           | 0.03                         | 66                          | 570                         | 11                          | 0.03                        | <2                          | 3                           | 50                          |
| CC145852           |                                   | 10                           | <1                          | 0.07                        | 20                           | 0.92                         | 779                         | 2                           | 0.03                         | 100                         | 530                         | 16                          | 0.02                        | 2                           | 4                           | 23                          |
| CC145853           |                                   | <10                          | <1                          | 0.07                        | 20                           | 1.04                         | 541                         | 2                           | 0.02                         | 76                          | 390                         | 10                          | 0.01                        | <2                          | 2                           | 11                          |
| CC145854           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.78                         | 294                         | 1                           | 0.03                         | 91                          | 210                         | 21                          | 0.02                        | <2                          | 2                           | 11                          |
| CC145855           |                                   | 10                           | <1                          | 0.08                        | 20                           | 0.59                         | 515                         | 2                           | 0.04                         | 90                          | 490                         | 17                          | 0.02                        | <2                          | 4                           | 27                          |
| CC145856           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.22                         | 228                         | 4                           | 0.02                         | 64                          | 240                         | 18                          | 0.02                        | 2                           | 2                           | 11                          |
| CC145857           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.31                         | 300                         | 4                           | 0.02                         | 55                          | 280                         | 18                          | 0.04                        | 5                           | 3                           | 35                          |
| CC145858           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.07                         | 180                         | 5                           | 0.02                         | 47                          | 390                         | 23                          | 0.09                        | 6                           | 2                           | 35                          |
| CC145859           |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.81                         | 965                         | 2                           | 0.03                         | 94                          | 650                         | 18                          | 0.05                        | 3                           | 3                           | 41                          |
| CC145860           |                                   | <10                          | <1                          | 0.10                        | 10                           | 1.37                         | 590                         | 1                           | 0.03                         | 123                         | 660                         | 17                          | 0.04                        | <2                          | 3                           | 34                          |
| CC145861           |                                   | <10                          | <1                          | 0.06                        | 10                           | 1.42                         | 443                         | 2                           | 0.03                         | 91                          | 880                         | 13                          | 0.05                        | <2                          | 3                           | 43                          |
| CC145862           |                                   | <10                          | <1                          | 0.08                        | 10                           | 1.49                         | 817                         | 1                           | 0.02                         | 150                         | 790                         | 18                          | 0.07                        | <2                          | 3                           | 53                          |
| CC145863           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.26                         | 298                         | 4                           | 0.02                         | 33                          | 1230                        | 16                          | 0.05                        | 3                           | 2                           | 48                          |
| CC145864           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.13                         | 144                         | 7                           | 0.01                         | 15                          | 1260                        | 19                          | 0.03                        | 6                           | 1                           | 41                          |
| CC145865           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.30                         | 133                         | 2                           | 0.02                         | 38                          | 1380                        | 20                          | 0.05                        | 3                           | 2                           | 60                          |
| CC145866           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.25                         | 312                         | 6                           | 0.01                         | 45                          | 1420                        | 21                          | 0.04                        | 9                           | 1                           | 57                          |
| CC145867           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.33                         | 261                         | 7                           | 0.01                         | 47                          | 2470                        | 13                          | 0.03                        | 11                          | 2                           | 85                          |
| CC145901           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.52                         | 535                         | 4                           | 0.01                         | 81                          | 1050                        | 14                          | 0.03                        | 4                           | 4                           | 37                          |
| CC145902           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.29                         | 446                         | 4                           | 0.01                         | 53                          | 1040                        | 13                          | 0.03                        | 2                           | 2                           | 38                          |
| CC145903           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.42                         | 461                         | 1                           | 0.02                         | 33                          | 760                         | 9                           | 0.09                        | <2                          | 1                           | 59                          |
| CC145904           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.48                         | 444                         | 4                           | 0.01                         | 64                          | 1250                        | 14                          | 0.02                        | <2                          | 4                           | 34                          |
| CC145905           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.59                         | 690                         | 1                           | 0.01                         | 46                          | 760                         | 13                          | 0.02                        | <2                          | 4                           | 43                          |
| CC145906           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.28                         | 494                         | 1                           | 0.01                         | 32                          | 730                         | 15                          | 0.04                        | <2                          | 2                           | 39                          |
| CC145741           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.24                         | 245                         | 4                           | 0.02                         | 43                          | 1280                        | 19                          | 0.05                        | 6                           | 3                           | 49                          |
| CC145742           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.11                         | 152                         | 2                           | 0.02                         | 15                          | 920                         | 8                           | 0.10                        | <2                          | 1                           | 77                          |
| CC145743           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.14                         | 207                         | 2                           | 0.02                         | 17                          | 1050                        | 18                          | 0.07                        | 2                           | 1                           | 47                          |
| CC145744           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.39                         | 491                         | <1                          | 0.02                         | 139                         | 780                         | 12                          | 0.12                        | <2                          | 4                           | 80                          |
| CC145745           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.10                         | 518                         | <1                          | 0.02                         | 110                         | 390                         | 10                          | 0.05                        | <2                          | 4                           | 40                          |
| CC145746           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.65                         | 553                         | 1                           | 0.01                         | 70                          | 440                         | 10                          | 0.03                        | <2                          | 3                           | 21                          |
| CC145747           |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.24                         | 571                         | 1                           | 0.02                         | 128                         | 700                         | 18                          | 0.05                        | <2                          | 5                           | 37                          |
| CC145748           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.41                         | 1195                        | 2                           | 0.02                         | 49                          | 1220                        | 10                          | 0.15                        | <2                          | 2                           | 78                          |



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Page: 5 - C  
 Total # Pages: 6 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| CC145842           |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       |
| CC145843           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       |
| CC145844           |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       |
| CC145845           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       |
| CC145846           |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       |
| CC145847           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       |
| CC145848           |                                   | <20       | 0.01      | <10       | <10       | 52        | <10       |
| CC145849           |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       |
| CC145850           |                                   | <20       | 0.01      | <10       | <10       | 75        | <10       |
| CC145851           |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       |
| CC145852           |                                   | <20       | 0.01      | <10       | <10       | 52        | <10       |
| CC145853           |                                   | <20       | 0.03      | <10       | <10       | 64        | <10       |
| CC145854           |                                   | <20       | 0.02      | <10       | <10       | 53        | <10       |
| CC145855           |                                   | <20       | 0.01      | <10       | <10       | 52        | <10       |
| CC145856           |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       |
| CC145857           |                                   | <20       | <0.01     | <10       | <10       | 22        | <10       |
| CC145858           |                                   | <20       | <0.01     | <10       | <10       | 21        | <10       |
| CC145859           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       |
| CC145860           |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       |
| CC145861           |                                   | <20       | 0.03      | <10       | <10       | 42        | <10       |
| CC145862           |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       |
| CC145863           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       |
| CC145864           |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       |
| CC145865           |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       |
| CC145866           |                                   | <20       | 0.01      | <10       | <10       | 57        | <10       |
| CC145867           |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       |
| CC145901           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       |
| CC145902           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       |
| CC145903           |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       |
| CC145904           |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       |
| CC145905           |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       |
| CC145906           |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       |
| CC145741           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       |
| CC145742           |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       |
| CC145743           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       |
| CC145744           |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       |
| CC145745           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       |
| CC145746           |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       |
| CC145747           |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       |
| CC145748           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       |



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Page: 6 - A  
 Total # Pages: 6 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>0.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|------------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| CC145749           |                                   | 0.30                               | 0.013                           | 0.6                           | 1.74                         | 14                          | <10                         | 560                          | 0.6                           | <2                          | 1.22                         | 0.6                           | 23                          | 136                         | 32                          | 3.52                         |
| CC145750           |                                   | 0.62                               | 0.006                           | 0.4                           | 1.27                         | 5                           | <10                         | 320                          | <0.5                          | <2                          | 0.49                         | <0.5                          | 13                          | 112                         | 13                          | 2.48                         |
| CC145991           |                                   | 0.23                               | 0.026                           | 0.5                           | 1.34                         | 170                         | <10                         | 520                          | 0.5                           | <2                          | 0.79                         | <0.5                          | 12                          | 31                          | 66                          | 3.25                         |





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Page: 6 - C  
 Total # Pages: 6 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| CC145749           |                                   | <20       | 0.01      | <10       | <10       | 52        | <10       | 103       |
| CC145750           |                                   | <20       | 0.02      | <10       | <10       | 45        | <10       | 67        |
| CC145991           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 142       |



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 5- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11116571**

| Method      | CERTIFICATE COMMENTS           |
|-------------|--------------------------------|
| ALL METHODS | NSS is non- sufficient sample. |



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Page: 1  
Finalized Date: 5- AUG- 2011  
Account: F

**CERTIFICATE WH11123805**

Project: Wolverine- String

P.O. No.:

This report is for 30 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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## Project: Wolverine- String

**Total # Pages: 2 (A - C)**

Page: 2 - A

# CERTIFICATE OF ANALYSIS WH11123805

| Sample Description | Method Analyte Units LOR | WEI- 21   | Au- ICP21 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                          | Recvd Wt. | Au        | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe        |
|                    |                          | kg        | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %         |
|                    |                          | 0.02      | 0.001     | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01      |
| CC145951           |                          | 0.07      | 0.020     | 0.3       | 0.85      | 94        | <10       | 460       | <0.5      | <2        | 2.33      | 0.8       | 4         | 15        | 77        | 1.04      |
| CC145952           |                          | 0.64      | 0.013     | 0.7       | 1.66      | 17        | <10       | 760       | <0.5      | <2        | 0.64      | 0.5       | 10        | 67        | 40        | 3.03      |
| CC145953           |                          | 0.24      | 0.002     | <0.2      | 1.01      | 15        | <10       | 270       | <0.5      | <2        | 0.25      | 1.3       | 10        | 47        | 21        | 2.36      |
| CC145954           |                          | 0.22      | 0.007     | 0.2       | 1.67      | 15        | <10       | 550       | <0.5      | <2        | 0.50      | <0.5      | 15        | 63        | 43        | 2.85      |
| CC145955           |                          | 0.12      | 0.005     | 0.2       | 1.13      | 11        | <10       | 390       | <0.5      | <2        | 0.78      | 1.1       | 9         | 38        | 28        | 1.75      |
| CC145956           |                          | 0.56      | 0.009     | 0.4       | 1.14      | 21        | <10       | 380       | <0.5      | <2        | 0.37      | 2.1       | 11        | 53        | 45        | 2.44      |
| CC145957           |                          | 0.32      | 0.012     | 0.4       | 1.20      | 13        | <10       | 580       | <0.5      | <2        | 0.31      | 0.8       | 11        | 51        | 59        | 2.21      |
| CC145958           |                          | 0.25      | 0.011     | 1.1       | 1.16      | 23        | <10       | 700       | <0.5      | <2        | 1.14      | 8.7       | 13        | 40        | 98        | 1.97      |
| CC145959           |                          | 0.10      | 0.013     | 1.1       | 1.13      | 14        | <10       | 670       | <0.5      | <2        | 0.68      | 10.3      | 12        | 35        | 49        | 1.78      |
| CC145960           |                          | 0.15      | 0.011     | 2.2       | 1.35      | 18        | <10       | 800       | <0.5      | <2        | 0.52      | 5.3       | 11        | 50        | 73        | 2.34      |
| CC145961           |                          | 0.09      | 0.028     | 4.9       | 0.91      | 19        | <10       | 890       | <0.5      | <2        | 0.43      | 4.4       | 7         | 30        | 44        | 1.72      |
| CC145962           |                          | 0.32      | 0.005     | 0.3       | 1.08      | 14        | <10       | 310       | <0.5      | <2        | 0.54      | 0.7       | 8         | 41        | 26        | 2.12      |
| CC145963           |                          | 0.14      | 0.006     | 1.5       | 0.93      | 11        | <10       | 520       | <0.5      | <2        | 1.03      | 0.8       | 7         | 21        | 52        | 1.99      |
| CC145964           |                          | 0.20      | 0.007     | 0.5       | 1.38      | 14        | <10       | 640       | <0.5      | <2        | 1.29      | 0.5       | 12        | 64        | 62        | 2.48      |
| CC145965           |                          | 0.35      | 0.023     | 0.7       | 1.61      | 22        | <10       | 750       | 0.8       | <2        | 1.70      | 0.7       | 10        | 48        | 133       | 2.65      |
| CC145966           |                          | 0.14      | 0.017     | 1.1       | 1.49      | 10        | <10       | 810       | 0.9       | <2        | 2.27      | 1.0       | 6         | 31        | 93        | 1.87      |
| CC145967           |                          | 0.12      | 0.004     | <0.2      | 1.02      | 24        | <10       | 260       | <0.5      | <2        | 0.11      | <0.5      | 11        | 72        | 24        | 3.09      |
| CC145968           |                          | 0.15      | 0.005     | 0.2       | 1.14      | 8         | <10       | 470       | <0.5      | <2        | 1.54      | 0.5       | 7         | 38        | 58        | 1.46      |
| CC145969           |                          | 0.23      | 0.005     | 0.3       | 1.16      | 10        | <10       | 620       | <0.5      | <2        | 1.20      | <0.5      | 7         | 34        | 50        | 1.85      |
| CC145970           |                          | 0.19      | 0.151     | <0.2      | 1.01      | 38        | <10       | 90        | <0.5      | <2        | 0.07      | <0.5      | 5         | 40        | 24        | 3.80      |
| CC145971           |                          | 0.41      | 0.004     | 0.3       | 2.18      | 22        | <10       | 240       | <0.5      | <2        | 0.17      | <0.5      | 12        | 69        | 40        | 3.84      |
| CC145972           |                          | 0.32      | 0.008     | 1.0       | 2.45      | 17        | <10       | 570       | 0.7       | <2        | 1.29      | 0.6       | 11        | 60        | 105       | 2.84      |
| CC145973           |                          | 0.20      | 0.009     | 0.3       | 1.42      | 7         | <10       | 280       | <0.5      | <2        | 0.70      | <0.5      | 9         | 37        | 42        | 2.35      |
| CC145974           |                          | 0.18      | 0.006     | 0.7       | 1.35      | 13        | <10       | 560       | <0.5      | <2        | 1.93      | <0.5      | 9         | 39        | 97        | 1.92      |
| CC145975           |                          | 0.32      | 0.008     | 0.3       | 1.48      | 42        | <10       | 390       | <0.5      | <2        | 0.79      | 2.2       | 17        | 90        | 57        | 3.00      |
| CC145976           |                          | 0.51      | 0.014     | <0.2      | 1.73      | 15        | <10       | 130       | 0.7       | <2        | 0.20      | <0.5      | 37        | 221       | 44        | 3.85      |
| CC145977           |                          | 0.19      | 0.005     | 0.2       | 1.41      | 11        | <10       | 150       | 0.6       | <2        | 0.29      | 0.6       | 45        | 198       | 70        | 3.59      |
| CC145978           |                          | 0.41      | 0.006     | <0.2      | 1.85      | 21        | <10       | 120       | 0.8       | <2        | 0.15      | <0.5      | 24        | 163       | 36        | 3.80      |
| CC145979           |                          | 0.47      | 0.006     | 0.2       | 2.03      | 9         | <10       | 140       | 0.7       | <2        | 0.21      | <0.5      | 19        | 127       | 66        | 3.64      |
| CC145980           |                          | 0.40      | 0.006     | <0.2      | 1.85      | 26        | <10       | 110       | 0.7       | <2        | 0.14      | <0.5      | 16        | 179       | 46        | 4.06      |
|                    |                          |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |



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## Project: Wolverine- String

**Total # Pages: 2 (A - C)**

**CERTIFICATE OF ANALYSIS    WH11123805**

| Sample Description | Method Analyte Units LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                          | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr        |
|                    |                          | ppm       | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       |
|                    |                          | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         | 1         |
| CC145951           |                          | <10       | <1        | 0.04      | 10        | 0.16      | 675       | 1         | 0.01      | 31        | 970       | 9         | 0.14      | 2         | 1         | 135       |
| CC145952           |                          | 10        | 1         | 0.07      | 20        | 0.87      | 639       | 2         | <0.01     | 46        | 1000      | 18        | 0.04      | 3         | 4         | 49        |
| CC145953           |                          | <10       | <1        | 0.07      | 10        | 0.56      | 807       | 2         | <0.01     | 27        | 590       | 12        | 0.01      | 2         | 2         | 17        |
| CC145954           |                          | 10        | <1        | 0.06      | 20        | 0.88      | 549       | 2         | <0.01     | 48        | 880       | 17        | 0.03      | 2         | 5         | 37        |
| CC145955           |                          | <10       | <1        | 0.04      | 10        | 0.47      | 1520      | 2         | 0.01      | 35        | 920       | 11        | 0.07      | 2         | 2         | 51        |
| CC145956           |                          | <10       | <1        | 0.06      | 20        | 0.64      | 439       | 4         | <0.01     | 90        | 1050      | 15        | 0.01      | 4         | 3         | 41        |
| CC145957           |                          | <10       | <1        | 0.05      | 20        | 0.59      | 435       | 3         | <0.01     | 58        | 700       | 13        | 0.01      | 3         | 3         | 35        |
| CC145958           |                          | <10       | <1        | 0.05      | 10        | 0.47      | 1570      | 4         | 0.01      | 61        | 1300      | 16        | 0.09      | 4         | 2         | 99        |
| CC145959           |                          | <10       | 1         | 0.04      | 10        | 0.40      | 4790      | 3         | 0.01      | 49        | 990       | 15        | 0.07      | 2         | 2         | 75        |
| CC145960           |                          | <10       | 1         | 0.05      | 20        | 0.55      | 1035      | 5         | <0.01     | 58        | 1530      | 24        | 0.08      | 5         | 3         | 122       |
| CC145961           |                          | <10       | 1         | 0.05      | 10        | 0.18      | 812       | 13        | 0.01      | 25        | 2200      | 48        | 0.10      | 9         | 2         | 280       |
| CC145962           |                          | <10       | <1        | 0.05      | 20        | 0.55      | 496       | 2         | <0.01     | 32        | 910       | 11        | 0.02      | 2         | 2         | 40        |
| CC145963           |                          | <10       | 1         | 0.04      | 10        | 0.22      | 313       | 3         | 0.01      | 21        | 1340      | 15        | 0.09      | 2         | 1         | 63        |
| CC145964           |                          | <10       | 1         | 0.07      | 10        | 0.55      | 668       | 2         | <0.01     | 46        | 940       | 21        | 0.06      | 2         | 3         | 76        |
| CC145965           |                          | <10       | 1         | 0.08      | 10        | 0.47      | 715       | 3         | <0.01     | 44        | 1510      | 25        | 0.14      | 2         | 3         | 96        |
| CC145966           |                          | <10       | 1         | 0.06      | 20        | 0.23      | 954       | 1         | 0.01      | 37        | 2270      | 22        | 0.20      | 2         | 3         | 141       |
| CC145967           |                          | 10        | <1        | 0.08      | 10        | 0.55      | 684       | 2         | <0.01     | 39        | 600       | 28        | 0.02      | 2         | 2         | 12        |
| CC145968           |                          | <10       | 1         | 0.05      | 10        | 0.30      | 615       | 1         | 0.01      | 31        | 1040      | 12        | 0.10      | <2        | 3         | 81        |
| CC145969           |                          | <10       | <1        | 0.07      | 10        | 0.24      | 1035      | 1         | 0.01      | 27        | 1430      | 15        | 0.09      | <2        | 3         | 68        |
| CC145970           |                          | 10        | <1        | 0.05      | 20        | 0.21      | 294       | 2         | <0.01     | 19        | 1240      | 31        | 0.02      | 2         | 1         | 9         |
| CC145971           |                          | 10        | <1        | 0.08      | 10        | 0.92      | 727       | 2         | <0.01     | 45        | 460       | 16        | 0.02      | 2         | 4         | 13        |
| CC145972           |                          | 10        | <1        | 0.09      | 30        | 0.64      | 675       | 2         | 0.01      | 67        | 1590      | 11        | 0.12      | 2         | 5         | 65        |
| CC145973           |                          | <10       | <1        | 0.05      | 20        | 0.58      | 558       | 1         | <0.01     | 37        | 960       | 10        | 0.04      | 2         | 2         | 36        |
| CC145974           |                          | <10       | <1        | 0.06      | 20        | 0.45      | 682       | 1         | 0.01      | 45        | 1150      | 10        | 0.10      | 2         | 2         | 84        |
| CC145975           |                          | <10       | <1        | 0.05      | 20        | 1.01      | 906       | 2         | <0.01     | 99        | 840       | 13        | 0.04      | 2         | 4         | 51        |
| CC145976           |                          | 10        | <1        | 0.14      | 10        | 3.03      | 621       | <1        | 0.02      | 455       | 210       | 11        | 0.02      | <2        | 8         | 13        |
| CC145977           |                          | <10       | <1        | 0.07      | 10        | 3.53      | 795       | <1        | 0.01      | 663       | 810       | 11        | 0.06      | 2         | 5         | 16        |
| CC145978           |                          | 10        | <1        | 0.15      | 10        | 1.84      | 585       | <1        | 0.01      | 256       | 230       | 14        | 0.03      | <2        | 6         | 12        |
| CC145979           |                          | 10        | <1        | 0.21      | 10        | 1.61      | 393       | <1        | 0.02      | 296       | 350       | 11        | 0.02      | <2        | 7         | 14        |
| CC145980           |                          | 10        | <1        | 0.14      | 10        | 1.23      | 499       | <1        | 0.01      | 158       | 340       | 12        | 0.02      | 2         | 6         | 10        |
|                    |                          |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 5- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11123805**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC145951           |                                   | <20       | 0.02      | <10       | <10       | 16        | <10       | 86        |
| CC145952           |                                   | <20       | 0.05      | <10       | <10       | 50        | <10       | 149       |
| CC145953           |                                   | <20       | 0.08      | <10       | <10       | 40        | <10       | 90        |
| CC145954           |                                   | <20       | 0.04      | <10       | <10       | 57        | <10       | 131       |
| CC145955           |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 107       |
| CC145956           |                                   | <20       | 0.03      | <10       | <10       | 39        | <10       | 618       |
| CC145957           |                                   | <20       | 0.04      | <10       | <10       | 37        | <10       | 212       |
| CC145958           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 251       |
| CC145959           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 216       |
| CC145960           |                                   | <20       | 0.02      | <10       | <10       | 53        | <10       | 231       |
| CC145961           |                                   | <20       | 0.01      | <10       | 10        | 64        | <10       | 137       |
| CC145962           |                                   | <20       | 0.05      | <10       | <10       | 34        | <10       | 106       |
| CC145963           |                                   | <20       | 0.02      | <10       | <10       | 21        | <10       | 74        |
| CC145964           |                                   | <20       | 0.04      | <10       | <10       | 41        | <10       | 87        |
| CC145965           |                                   | <20       | 0.02      | <10       | 10        | 37        | <10       | 118       |
| CC145966           |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 98        |
| CC145967           |                                   | <20       | 0.06      | <10       | <10       | 50        | <10       | 119       |
| CC145968           |                                   | <20       | 0.02      | <10       | <10       | 28        | <10       | 48        |
| CC145969           |                                   | <20       | 0.02      | <10       | <10       | 25        | <10       | 74        |
| CC145970           |                                   | <20       | 0.07      | <10       | <10       | 83        | <10       | 97        |
| CC145971           |                                   | <20       | 0.08      | <10       | <10       | 70        | <10       | 98        |
| CC145972           |                                   | <20       | 0.03      | <10       | <10       | 46        | <10       | 137       |
| CC145973           |                                   | <20       | 0.03      | <10       | <10       | 31        | <10       | 79        |
| CC145974           |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 73        |
| CC145975           |                                   | <20       | 0.06      | <10       | <10       | 46        | <10       | 186       |
| CC145976           |                                   | <20       | 0.13      | <10       | <10       | 62        | <10       | 61        |
| CC145977           |                                   | <20       | 0.04      | <10       | <10       | 35        | <10       | 64        |
| CC145978           |                                   | <20       | 0.14      | <10       | <10       | 69        | <10       | 74        |
| CC145979           |                                   | <20       | 0.14      | <10       | <10       | 64        | <10       | 59        |
| CC145980           |                                   | <20       | 0.15      | <10       | <10       | 78        | <10       | 84        |
|                    |                                   |           |           |           |           |           |           |           |



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Page: 1  
Finalized Date: 11- AUG- 2011  
Account: F

**CERTIFICATE WH11130440**

Project: String- Wolverine

P.O. No.:

This report is for 28 Rock samples submitted to our lab in Whitehorse, YT, Canada on 10-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 11- AUG- 2011  
 Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11130440**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| I359414            |                                   | 1.62                       | 0.009                 | 0.2                    | 0.17                 | 21                     | <10                   | 220                    | <0.5                   | <2                     | 0.90                 | 4.6                    | 5                      | 10                     | 26                     | 0.92                 |
| I359415            |                                   | 1.38                       | 0.013                 | 0.2                    | 0.12                 | 18                     | <10                   | 180                    | <0.5                   | <2                     | 1.69                 | 2.8                    | 6                      | 6                      | 18                     | 0.92                 |
| I359416            |                                   | 0.16                       | 0.014                 | 0.3                    | 0.28                 | 22                     | <10                   | 370                    | <0.5                   | <2                     | 2.02                 | 8.0                    | 9                      | 9                      | 26                     | 1.39                 |
| I359417            |                                   | 1.30                       | 0.017                 | 0.9                    | 0.15                 | 35                     | <10                   | 220                    | <0.5                   | <2                     | 2.45                 | 4.3                    | 4                      | 10                     | 34                     | 1.22                 |
| I359418            |                                   | 1.16                       | 0.014                 | 1.6                    | 0.38                 | 54                     | <10                   | 460                    | <0.5                   | <2                     | 2.97                 | 5.0                    | 1                      | 36                     | 56                     | 0.97                 |
| I359419            |                                   | 1.38                       | 0.014                 | 3.4                    | 0.29                 | 50                     | <10                   | 340                    | <0.5                   | <2                     | 2.64                 | 10.5                   | 1                      | 50                     | 140                    | 0.51                 |
| I359420            |                                   | 1.64                       | 0.019                 | 3.7                    | 0.32                 | 55                     | <10                   | 420                    | <0.5                   | <2                     | 2.99                 | 13.4                   | 1                      | 50                     | 146                    | 0.73                 |
| I359421            |                                   | 1.54                       | 0.016                 | 3.5                    | 0.21                 | 61                     | <10                   | 250                    | <0.5                   | <2                     | 2.39                 | 14.8                   | 1                      | 42                     | 151                    | 0.60                 |
| I359422            |                                   | 1.26                       | 0.009                 | 3.2                    | 0.21                 | 50                     | <10                   | 260                    | <0.5                   | <2                     | 2.00                 | 19.5                   | 1                      | 38                     | 172                    | 0.61                 |
| I359423            |                                   | 1.66                       | 0.008                 | 2.5                    | 0.18                 | 67                     | <10                   | 240                    | <0.5                   | <2                     | 3.25                 | 23.5                   | 1                      | 37                     | 194                    | 0.79                 |
| I359424            |                                   | 1.46                       | 0.010                 | 2.9                    | 0.31                 | 58                     | <10                   | 370                    | <0.5                   | <2                     | 2.25                 | 16.9                   | 1                      | 43                     | 168                    | 0.72                 |
| I359425            |                                   | 1.62                       | 0.012                 | 2.2                    | 0.21                 | 58                     | <10                   | 240                    | <0.5                   | <2                     | 1.84                 | 11.6                   | 1                      | 31                     | 130                    | 0.65                 |
| I359426            |                                   | 1.40                       | 0.007                 | 1.5                    | 0.23                 | 39                     | <10                   | 290                    | <0.5                   | <2                     | 2.14                 | 12.6                   | 2                      | 34                     | 112                    | 0.75                 |
| I359427            |                                   | 1.02                       | 0.007                 | 1.4                    | 0.13                 | 52                     | <10                   | 170                    | <0.5                   | <2                     | 1.44                 | 7.3                    | 1                      | 25                     | 78                     | 0.64                 |
| I359428            |                                   | 1.06                       | 0.011                 | <0.2                   | 2.66                 | 18                     | <10                   | 320                    | <0.5                   | <2                     | 0.85                 | 1.4                    | 27                     | 89                     | 83                     | 6.18                 |
| I359429            |                                   | 1.14                       | 0.008                 | <0.2                   | 1.87                 | 4                      | <10                   | 290                    | <0.5                   | <2                     | 0.58                 | 0.9                    | 21                     | 39                     | 78                     | 4.37                 |
| I359430            |                                   | 1.38                       | 0.006                 | <0.2                   | 1.09                 | 12                     | <10                   | 280                    | <0.5                   | <2                     | 0.41                 | 0.7                    | 15                     | 24                     | 56                     | 3.24                 |
| I359431            |                                   | 1.44                       | <0.005                | <0.2                   | 1.48                 | 12                     | <10                   | 580                    | <0.5                   | <2                     | 1.87                 | 0.9                    | 20                     | 81                     | 48                     | 4.18                 |
| I359432            |                                   | 1.58                       | <0.005                | <0.2                   | 1.49                 | 14                     | <10                   | 370                    | <0.5                   | 2                      | 8.7                  | 1.0                    | 52                     | 157                    | 29                     | 8.39                 |
| I359433            |                                   | 1.72                       | <0.005                | <0.2                   | 1.92                 | 14                     | <10                   | 330                    | <0.5                   | 3                      | 8.2                  | 1.2                    | 69                     | 260                    | 42                     | 10.10                |
| I359434            |                                   | 1.68                       | <0.005                | <0.2                   | 1.20                 | 29                     | <10                   | 530                    | 0.5                    | 3                      | 10.4                 | 1.2                    | 68                     | 114                    | 74                     | 10.15                |
| I359435            |                                   | 1.84                       | <0.005                | <0.2                   | 1.00                 | 8                      | <10                   | 300                    | <0.5                   | 3                      | 13.7                 | 0.7                    | 33                     | 104                    | 31                     | 5.17                 |
| I359436            |                                   | 1.70                       | <0.005                | <0.2                   | 2.39                 | 43                     | <10                   | 330                    | <0.5                   | 2                      | 5.67                 | 1.0                    | 64                     | 327                    | 51                     | 7.77                 |
| I359437            |                                   | 1.54                       | <0.005                | <0.2                   | 1.75                 | 110                    | <10                   | 230                    | <0.5                   | 2                      | 9.1                  | 0.8                    | 55                     | 245                    | 38                     | 6.90                 |
| I359438            |                                   | 1.72                       | 0.011                 | <0.2                   | 0.96                 | 231                    | <10                   | 370                    | <0.5                   | 2                      | 10.6                 | 0.7                    | 39                     | 137                    | 74                     | 5.72                 |
| I359439            |                                   | 1.66                       | <0.005                | <0.2                   | 0.80                 | 22                     | <10                   | 430                    | <0.5                   | 2                      | 9.4                  | 1.0                    | 40                     | 86                     | 87                     | 6.87                 |
| I359440            |                                   | 1.98                       | <0.005                | <0.2                   | 0.90                 | 22                     | <10                   | 520                    | <0.5                   | 3                      | 10.0                 | 0.9                    | 47                     | 106                    | 29                     | 7.39                 |
| I359441            |                                   | 2.02                       | <0.005                | <0.2                   | 0.66                 | 17                     | <10                   | 390                    | <0.5                   | 2                      | 11.6                 | 0.8                    | 32                     | 47                     | 48                     | 6.22                 |



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 11- AUG- 2011  
 Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11130440**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| I359414            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.44                         | 463                         | 4                           | 0.01                         | 25                          | 510                         | 4                           | 0.03                        | 9                           | 1                           | 62                          |
| I359415            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.89                         | 554                         | 2                           | 0.01                         | 27                          | 430                         | 4                           | 0.03                        | 6                           | 1                           | 114                         |
| I359416            |                                   | <10                          | <1                          | 0.11                        | 10                           | 1.05                         | 685                         | 2                           | 0.01                         | 37                          | 700                         | 5                           | 0.02                        | 9                           | 2                           | 142                         |
| I359417            |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.34                         | 335                         | 4                           | 0.01                         | 36                          | 400                         | 8                           | 0.03                        | 10                          | 2                           | 148                         |
| I359418            |                                   | <10                          | <1                          | 0.16                        | 10                           | 0.58                         | 192                         | 3                           | 0.02                         | 22                          | 9550                        | 7                           | 0.04                        | 17                          | 2                           | 253                         |
| I359419            |                                   | <10                          | 2                           | 0.13                        | 10                           | 0.23                         | 113                         | 9                           | 0.01                         | 12                          | >10000                      | 13                          | 0.01                        | 30                          | 2                           | 218                         |
| I359420            |                                   | <10                          | 2                           | 0.14                        | 10                           | 0.72                         | 157                         | 12                          | 0.01                         | 16                          | 8320                        | 13                          | 0.01                        | 20                          | 2                           | 234                         |
| I359421            |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.56                         | 110                         | 12                          | 0.01                         | 15                          | 6660                        | 12                          | 0.02                        | 11                          | 1                           | 177                         |
| I359422            |                                   | <10                          | 2                           | 0.10                        | 10                           | 0.80                         | 144                         | 11                          | 0.01                         | 20                          | 2840                        | 10                          | 0.02                        | 8                           | 1                           | 136                         |
| I359423            |                                   | <10                          | 2                           | 0.08                        | 10                           | 1.28                         | 186                         | 10                          | 0.01                         | 28                          | 4870                        | 11                          | 0.03                        | 7                           | 1                           | 226                         |
| I359424            |                                   | <10                          | 2                           | 0.14                        | 10                           | 0.80                         | 138                         | 14                          | 0.01                         | 18                          | 4060                        | 14                          | 0.02                        | 21                          | 1                           | 167                         |
| I359425            |                                   | <10                          | 3                           | 0.09                        | 10                           | 0.65                         | 138                         | 17                          | 0.01                         | 18                          | 3420                        | 13                          | 0.01                        | 16                          | 1                           | 165                         |
| I359426            |                                   | <10                          | 2                           | 0.09                        | 10                           | 0.71                         | 209                         | 11                          | 0.01                         | 17                          | 4370                        | 7                           | 0.01                        | 10                          | 1                           | 173                         |
| I359427            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.33                         | 124                         | 8                           | 0.01                         | 15                          | 4020                        | 8                           | 0.02                        | 21                          | 1                           | 123                         |
| I359428            |                                   | 10                           | <1                          | 0.29                        | 20                           | 1.74                         | 884                         | 1                           | 0.01                         | 95                          | 1660                        | <2                          | 0.02                        | <2                          | 6                           | 39                          |
| I359429            |                                   | <10                          | <1                          | 0.27                        | 30                           | 0.97                         | 514                         | 1                           | 0.02                         | 77                          | 1610                        | <2                          | 0.02                        | <2                          | 3                           | 28                          |
| I359430            |                                   | <10                          | 1                           | 0.25                        | 20                           | 0.56                         | 683                         | 1                           | 0.01                         | 49                          | 1080                        | <2                          | 0.01                        | <2                          | 2                           | 21                          |
| I359431            |                                   | <10                          | <1                          | 0.18                        | 10                           | 3.08                         | 647                         | 1                           | 0.02                         | 149                         | 1360                        | <2                          | 0.04                        | <2                          | 4                           | 50                          |
| I359432            |                                   | <10                          | <1                          | 0.16                        | 10                           | 1.73                         | 2000                        | 1                           | 0.02                         | 274                         | 1290                        | <2                          | 0.06                        | <2                          | 7                           | 354                         |
| I359433            |                                   | <10                          | <1                          | 0.13                        | 20                           | 2.78                         | 2240                        | <1                          | 0.02                         | 363                         | 2430                        | <2                          | 0.02                        | 2                           | 9                           | 372                         |
| I359434            |                                   | <10                          | 1                           | 0.24                        | 10                           | 2.69                         | 2710                        | 2                           | 0.03                         | 348                         | 5260                        | <2                          | 0.04                        | 2                           | 9                           | 348                         |
| I359435            |                                   | <10                          | 1                           | 0.11                        | 10                           | 3.06                         | 1130                        | <1                          | 0.02                         | 194                         | 990                         | <2                          | 0.01                        | <2                          | 6                           | 519                         |
| I359436            |                                   | <10                          | <1                          | 0.14                        | 10                           | 3.30                         | 1110                        | 2                           | 0.02                         | 353                         | 1490                        | <2                          | 0.02                        | <2                          | 10                          | 229                         |
| I359437            |                                   | <10                          | 1                           | 0.09                        | 10                           | 3.70                         | 1095                        | 2                           | 0.02                         | 298                         | 1350                        | <2                          | 0.02                        | 4                           | 10                          | 354                         |
| I359438            |                                   | <10                          | <1                          | 0.18                        | 10                           | 3.65                         | 1035                        | 1                           | 0.02                         | 209                         | 1520                        | <2                          | 0.03                        | 6                           | 8                           | 425                         |
| I359439            |                                   | <10                          | <1                          | 0.17                        | 20                           | 2.83                         | 1465                        | 3                           | 0.02                         | 163                         | 1120                        | <2                          | 0.01                        | <2                          | 6                           | 309                         |
| I359440            |                                   | <10                          | 1                           | 0.21                        | 20                           | 2.65                         | 1465                        | 3                           | 0.02                         | 203                         | 930                         | <2                          | 0.01                        | <2                          | 6                           | 295                         |
| I359441            |                                   | <10                          | <1                          | 0.13                        | 20                           | 1.11                         | 1435                        | 1                           | 0.02                         | 126                         | 1800                        | <2                          | 0.02                        | <2                          | 5                           | 306                         |



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Page: 2 - C  
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 Finalized Date: 11- AUG- 2011  
 Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11130440**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| I359414            |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       | 252       |
| I359415            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 188       |
| I359416            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 271       |
| I359417            |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 317       |
| I359418            |                                   | <20       | <0.01     | <10       | <10       | 77        | <10       | 229       |
| I359419            |                                   | <20       | <0.01     | <10       | <10       | 491       | <10       | 225       |
| I359420            |                                   | <20       | 0.01      | <10       | <10       | 606       | <10       | 350       |
| I359421            |                                   | <20       | <0.01     | <10       | <10       | 367       | <10       | 425       |
| I359422            |                                   | <20       | <0.01     | <10       | <10       | 381       | <10       | 741       |
| I359423            |                                   | <20       | <0.01     | <10       | <10       | 317       | <10       | 1120      |
| I359424            |                                   | <20       | <0.01     | <10       | <10       | 626       | <10       | 505       |
| I359425            |                                   | <20       | <0.01     | <10       | <10       | 411       | <10       | 382       |
| I359426            |                                   | <20       | <0.01     | <10       | <10       | 419       | <10       | 422       |
| I359427            |                                   | <20       | <0.01     | <10       | <10       | 235       | <10       | 363       |
| I359428            |                                   | <20       | 0.02      | <10       | <10       | 69        | <10       | 111       |
| I359429            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 78        |
| I359430            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 47        |
| I359431            |                                   | <20       | 0.03      | <10       | <10       | 70        | <10       | 77        |
| I359432            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 100       |
| I359433            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 153       |
| I359434            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 160       |
| I359435            |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       | 50        |
| I359436            |                                   | <20       | 0.01      | <10       | <10       | 52        | <10       | 109       |
| I359437            |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 103       |
| I359438            |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       | 72        |
| I359439            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 66        |
| I359440            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 78        |
| I359441            |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 60        |



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Page: 1  
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**CERTIFICATE WH11130441**

Project: Wolverine- String

P.O. No.:

This report is for 29 Rock samples submitted to our lab in Whitehorse, YT, Canada on 10-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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1016- 510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Page: 2 - A  
Total # Pages: 2 (A - C)  
Finalized Date: 6- AUG- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11130441**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| I357229            |                                   | 0.88                       | 0.022                 | 0.2                    | 0.20                 | 18                     | <10                   | 270                    | <0.5                   | <2                     | 0.01                 | 1.5                    | <1                     | 7                      | 5                      | 0.36                 |
| I357230            |                                   | 0.86                       | 0.007                 | <0.2                   | 0.06                 | 5                      | <10                   | 50                     | <0.5                   | <2                     | 0.05                 | <0.5                   | <1                     | 12                     | 2                      | 0.29                 |
| I357231            |                                   | 2.18                       | 0.005                 | <0.2                   | 0.09                 | 26                     | <10                   | 60                     | <0.5                   | <2                     | 0.72                 | <0.5                   | 5                      | 10                     | 16                     | 1.20                 |
| I357232            |                                   | 0.96                       | 0.009                 | 0.3                    | 0.11                 | 77                     | <10                   | 100                    | <0.5                   | <2                     | 0.83                 | 2.4                    | 5                      | 9                      | 14                     | 1.48                 |
| I357233            |                                   | 0.56                       | 0.005                 | 0.8                    | 0.28                 | 3                      | <10                   | 300                    | <0.5                   | <2                     | 0.01                 | <0.5                   | <1                     | 8                      | 2                      | 0.31                 |
| I357234            |                                   | 1.30                       | 0.006                 | <0.2                   | 0.10                 | 4                      | <10                   | 140                    | <0.5                   | <2                     | 0.01                 | <0.5                   | <1                     | 9                      | 1                      | 0.26                 |
| I357235            |                                   | 0.22                       | 0.020                 | 0.2                    | 0.63                 | 979                    | <10                   | 520                    | <0.5                   | <2                     | 0.83                 | 1.7                    | 43                     | 8                      | 23                     | 12.30                |
| I357236            |                                   | 0.18                       | <0.005                | <0.2                   | 0.20                 | 15                     | <10                   | 240                    | <0.5                   | <2                     | 3.41                 | 0.5                    | 14                     | 4                      | 11                     | 8.62                 |
| I357237            |                                   | 0.86                       | 0.010                 | 0.9                    | 0.29                 | 87                     | <10                   | 240                    | <0.5                   | <2                     | 0.66                 | 1.1                    | 4                      | 15                     | 54                     | 2.37                 |
| I357238            |                                   | 0.28                       | 0.073                 | 0.7                    | 0.43                 | 99                     | <10                   | 580                    | <0.5                   | <2                     | 0.39                 | 6.9                    | 7                      | 9                      | 261                    | 2.56                 |
| I357239            |                                   | 0.42                       | 0.005                 | <0.2                   | 0.12                 | 17                     | <10                   | 60                     | <0.5                   | <2                     | 0.03                 | <0.5                   | 5                      | 18                     | 10                     | 0.84                 |
| I357240            |                                   | 0.82                       | <0.005                | 0.2                    | 0.60                 | 10                     | <10                   | 220                    | <0.5                   | <2                     | 0.37                 | 2.0                    | 2                      | 22                     | 10                     | 1.14                 |
| I357241            |                                   | 0.64                       | 0.343                 | 0.2                    | 0.36                 | 3380                   | <10                   | 140                    | <0.5                   | <2                     | 1.64                 | <0.5                   | 14                     | 17                     | 14                     | 3.06                 |
| I357242            |                                   | 1.22                       | 0.013                 | <0.2                   | 1.36                 | 1105                   | <10                   | 430                    | <0.5                   | <2                     | 10.0                 | <0.5                   | 55                     | 111                    | 20                     | 8.99                 |
| I357243            |                                   | 0.40                       | <0.005                | 0.3                    | 0.05                 | 26                     | <10                   | 40                     | <0.5                   | <2                     | 0.34                 | 1.6                    | 4                      | 8                      | 12                     | 0.55                 |
| I357244            |                                   | 0.46                       | <0.005                | <0.2                   | 0.20                 | 73                     | <10                   | 90                     | <0.5                   | <2                     | 15.2                 | <0.5                   | 5                      | 3                      | 6                      | 4.69                 |
| I357245            |                                   | 0.48                       | 0.005                 | 0.2                    | 0.08                 | 11                     | <10                   | 250                    | <0.5                   | <2                     | 0.06                 | <0.5                   | 1                      | 7                      | 6                      | 0.52                 |
| I357246            |                                   | 0.10                       | <0.005                | <0.2                   | 0.38                 | 10                     | <10                   | 340                    | <0.5                   | <2                     | 0.44                 | <0.5                   | <1                     | 7                      | 4                      | 1.07                 |
| I357247            |                                   | 0.52                       | <0.005                | <0.2                   | 0.92                 | 4                      | <10                   | 230                    | <0.5                   | <2                     | 0.13                 | 1.2                    | 8                      | 7                      | 198                    | 2.93                 |
| I357248            |                                   | 1.16                       | <0.005                | <0.2                   | 2.31                 | 4                      | <10                   | 40                     | <0.5                   | 2                      | 1.65                 | <0.5                   | 25                     | 89                     | 95                     | 3.24                 |
| I357249            |                                   | 0.86                       | 0.008                 | <0.2                   | 1.89                 | 116                    | <10                   | 90                     | <0.5                   | <2                     | 5.26                 | <0.5                   | 28                     | 46                     | 118                    | 6.89                 |
| I357250            |                                   | 0.72                       | 0.035                 | <0.2                   | 0.10                 | 176                    | <10                   | 30                     | <0.5                   | <2                     | 0.07                 | 0.9                    | 3                      | 11                     | 18                     | 0.68                 |
| K191551            |                                   | 1.10                       | <0.005                | <0.2                   | 0.29                 | 2                      | <10                   | 470                    | <0.5                   | <2                     | 17.5                 | <0.5                   | 22                     | 56                     | 3                      | 4.48                 |
| K191552            |                                   | 0.86                       | <0.005                | <0.2                   | 0.27                 | 13                     | <10                   | 160                    | <0.5                   | <2                     | 15.3                 | <0.5                   | 20                     | 13                     | 28                     | 6.05                 |
| K191553            |                                   | 0.92                       | 0.006                 | 0.3                    | 0.12                 | 6                      | <10                   | 150                    | <0.5                   | <2                     | 0.16                 | <0.5                   | 4                      | 6                      | 4                      | 0.41                 |
| K191554            |                                   | 0.48                       | <0.005                | 0.3                    | 0.29                 | 12                     | <10                   | 3350                   | <0.5                   | <2                     | 0.20                 | <0.5                   | 2                      | 11                     | 18                     | 1.08                 |
| K191555            |                                   | 1.04                       | <0.005                | <0.2                   | 2.70                 | 5                      | <10                   | 170                    | <0.5                   | <2                     | 2.52                 | <0.5                   | 28                     | 183                    | 73                     | 3.83                 |
| K191556            |                                   | 1.04                       | <0.005                | <0.2                   | 0.13                 | 2                      | <10                   | 450                    | <0.5                   | <2                     | 0.04                 | <0.5                   | 1                      | 9                      | 31                     | 0.34                 |
| K191557            |                                   | 0.46                       | 0.006                 | <0.2                   | 4.84                 | 19                     | <10                   | 150                    | <0.5                   | <2                     | 3.23                 | <0.5                   | 44                     | 205                    | 138                    | 7.90                 |



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11130441**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| I357229            |                                   | <10                          | 1                           | 0.12                        | 10                           | 0.02                         | 28                          | <1                          | 0.01                         | 1                           | 520                         | 2                           | 0.01                        | 10                          | 1                           | 17                          |
| I357230            |                                   | <10                          | <1                          | 0.02                        | <10                          | <0.01                        | 29                          | <1                          | <0.01                        | 1                           | 340                         | 3                           | <0.01                       | 2                           | 1                           | 11                          |
| I357231            |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.03                         | 957                         | <1                          | 0.01                         | 13                          | 390                         | <2                          | <0.01                       | <2                          | 1                           | 19                          |
| I357232            |                                   | <10                          | <1                          | 0.05                        | <10                          | 0.31                         | 805                         | 4                           | 0.01                         | 40                          | 720                         | 4                           | 0.01                        | 7                           | 1                           | 50                          |
| I357233            |                                   | <10                          | <1                          | 0.16                        | 10                           | 0.03                         | 27                          | <1                          | 0.01                         | 1                           | 70                          | 10                          | 0.05                        | <2                          | <1                          | 5                           |
| I357234            |                                   | <10                          | <1                          | 0.07                        | <10                          | 0.01                         | 24                          | <1                          | 0.01                         | 1                           | 30                          | <2                          | 0.03                        | <2                          | <1                          | 6                           |
| I357235            |                                   | <10                          | 1                           | 0.17                        | 20                           | 0.16                         | 2820                        | 2                           | 0.01                         | 100                         | 1750                        | 8                           | <0.01                       | 12                          | 4                           | 34                          |
| I357236            |                                   | <10                          | <1                          | 0.09                        | <10                          | 0.85                         | 2350                        | 5                           | 0.04                         | 39                          | 130                         | 7                           | <0.01                       | <2                          | 2                           | 79                          |
| I357237            |                                   | <10                          | <1                          | 0.13                        | <10                          | 0.02                         | 81                          | 16                          | 0.02                         | 20                          | 5370                        | 7                           | 0.01                        | 13                          | 1                           | 105                         |
| I357238            |                                   | <10                          | <1                          | 0.20                        | 20                           | 0.05                         | 111                         | 8                           | 0.02                         | 44                          | 3730                        | 14                          | <0.01                       | 9                           | 2                           | 88                          |
| I357239            |                                   | <10                          | <1                          | 0.06                        | <10                          | 0.02                         | 105                         | 3                           | 0.02                         | 16                          | 180                         | 2                           | <0.01                       | 2                           | 1                           | 5                           |
| I357240            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.43                         | 289                         | <1                          | <0.01                        | 15                          | 560                         | 12                          | 0.07                        | 2                           | 1                           | 12                          |
| I357241            |                                   | <10                          | <1                          | 0.04                        | <10                          | 0.71                         | 809                         | <1                          | <0.01                        | 74                          | 770                         | 2                           | 0.03                        | 13                          | 4                           | 80                          |
| I357242            |                                   | <10                          | <1                          | 0.19                        | 20                           | 2.12                         | 1960                        | <1                          | <0.01                        | 259                         | 2600                        | <2                          | 0.02                        | 9                           | 7                           | 134                         |
| I357243            |                                   | <10                          | <1                          | 0.01                        | <10                          | 0.01                         | 243                         | <1                          | <0.01                        | 11                          | 1340                        | 6                           | <0.01                       | 8                           | 1                           | 31                          |
| I357244            |                                   | <10                          | <1                          | 0.06                        | 10                           | 5.07                         | 1245                        | <1                          | 0.01                         | 20                          | 270                         | 7                           | 0.01                        | 4                           | 2                           | 509                         |
| I357245            |                                   | <10                          | <1                          | 0.05                        | <10                          | 0.01                         | 347                         | <1                          | <0.01                        | 4                           | 110                         | 6                           | 0.01                        | 2                           | <1                          | 25                          |
| I357246            |                                   | <10                          | <1                          | 0.26                        | 10                           | 0.12                         | 98                          | <1                          | <0.01                        | 1                           | 290                         | 8                           | 0.05                        | <2                          | <1                          | 19                          |
| I357247            |                                   | <10                          | <1                          | 0.40                        | 20                           | 0.26                         | 407                         | <1                          | <0.01                        | 32                          | 1070                        | <2                          | 0.01                        | 2                           | 2                           | 48                          |
| I357248            |                                   | <10                          | <1                          | 0.05                        | <10                          | 1.35                         | 519                         | <1                          | 0.04                         | 38                          | 390                         | <2                          | 0.05                        | 2                           | 2                           | 14                          |
| I357249            |                                   | <10                          | <1                          | 0.07                        | 10                           | 3.60                         | 1625                        | <1                          | 0.02                         | 43                          | 1000                        | 5                           | 0.03                        | 3                           | 22                          | 306                         |
| I357250            |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.02                         | 150                         | <1                          | <0.01                        | 4                           | 40                          | <2                          | 0.02                        | 5                           | <1                          | 4                           |
| K191551            |                                   | <10                          | <1                          | 0.21                        | 10                           | 2.66                         | 982                         | <1                          | 0.01                         | 84                          | 1420                        | 2                           | 0.01                        | 2                           | 6                           | 605                         |
| K191552            |                                   | <10                          | <1                          | 0.09                        | 10                           | 3.97                         | 1030                        | <1                          | 0.01                         | 41                          | 480                         | <2                          | 0.05                        | 4                           | 5                           | 492                         |
| K191553            |                                   | <10                          | <1                          | 0.07                        | <10                          | 0.03                         | 406                         | <1                          | <0.01                        | 3                           | 50                          | 5                           | 0.01                        | 2                           | <1                          | 8                           |
| K191554            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.09                         | 118                         | <1                          | 0.01                         | 8                           | 190                         | 2                           | 0.06                        | <2                          | 1                           | 24                          |
| K191555            |                                   | <10                          | <1                          | 0.03                        | <10                          | 2.25                         | 797                         | <1                          | 0.04                         | 57                          | 430                         | <2                          | 0.01                        | 4                           | 15                          | 36                          |
| K191556            |                                   | <10                          | <1                          | 0.07                        | <10                          | 0.01                         | 76                          | <1                          | <0.01                        | 10                          | 70                          | <2                          | 0.05                        | <2                          | <1                          | 11                          |
| K191557            |                                   | 10                           | <1                          | 0.11                        | 10                           | 5.10                         | 725                         | <1                          | 0.01                         | 123                         | 1300                        | <2                          | 0.02                        | <2                          | 25                          | 252                         |



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11130441**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Th<br>ppm<br>20 | ME- ICP41<br>Ti<br>%<br>0.01 | ME- ICP41<br>Tl<br>ppm<br>10 | ME- ICP41<br>U<br>ppm<br>10 | ME- ICP41<br>V<br>ppm<br>1 | ME- ICP41<br>W<br>ppm<br>10 | ME- ICP41<br>Zn<br>ppm<br>2 |
|--------------------|-----------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|
| I357229            |                                   | <20                          | <0.01                        | <10                          | <10                         | 9                          | <10                         | 9                           |
| I357230            |                                   | <20                          | <0.01                        | <10                          | <10                         | 2                          | <10                         | 2                           |
| I357231            |                                   | <20                          | <0.01                        | <10                          | <10                         | 1                          | <10                         | 29                          |
| I357232            |                                   | <20                          | <0.01                        | <10                          | <10                         | 11                         | <10                         | 653                         |
| I357233            |                                   | <20                          | <0.01                        | <10                          | <10                         | 14                         | <10                         | 9                           |
| I357234            |                                   | <20                          | <0.01                        | <10                          | <10                         | 3                          | <10                         | 5                           |
| I357235            |                                   | <20                          | <0.01                        | <10                          | <10                         | 14                         | <10                         | 657                         |
| I357236            |                                   | <20                          | <0.01                        | <10                          | <10                         | 6                          | <10                         | 73                          |
| I357237            |                                   | <20                          | <0.01                        | <10                          | <10                         | 107                        | <10                         | 263                         |
| I357238            |                                   | <20                          | <0.01                        | <10                          | <10                         | 25                         | <10                         | 218                         |
| I357239            |                                   | <20                          | <0.01                        | <10                          | <10                         | 8                          | <10                         | 22                          |
| I357240            |                                   | <20                          | <0.01                        | <10                          | <10                         | 30                         | <10                         | 70                          |
| I357241            |                                   | <20                          | <0.01                        | <10                          | <10                         | 7                          | <10                         | 29                          |
| I357242            |                                   | <20                          | 0.01                         | <10                          | <10                         | 26                         | <10                         | 114                         |
| I357243            |                                   | <20                          | <0.01                        | <10                          | <10                         | 5                          | <10                         | 110                         |
| I357244            |                                   | <20                          | <0.01                        | <10                          | <10                         | 4                          | <10                         | 105                         |
| I357245            |                                   | <20                          | <0.01                        | <10                          | <10                         | 5                          | <10                         | 23                          |
| I357246            |                                   | <20                          | <0.01                        | <10                          | <10                         | 8                          | <10                         | 8                           |
| I357247            |                                   | <20                          | 0.01                         | <10                          | <10                         | 9                          | <10                         | 252                         |
| I357248            |                                   | <20                          | 0.34                         | <10                          | <10                         | 63                         | <10                         | 59                          |
| I357249            |                                   | <20                          | 0.01                         | <10                          | <10                         | 111                        | <10                         | 80                          |
| I357250            |                                   | <20                          | <0.01                        | <10                          | <10                         | 2                          | <10                         | 145                         |
| K191551            |                                   | <20                          | <0.01                        | <10                          | <10                         | 24                         | <10                         | 17                          |
| K191552            |                                   | <20                          | <0.01                        | <10                          | <10                         | 49                         | <10                         | 93                          |
| K191553            |                                   | <20                          | <0.01                        | <10                          | <10                         | 6                          | <10                         | 13                          |
| K191554            |                                   | <20                          | 0.01                         | <10                          | <10                         | 7                          | <10                         | 26                          |
| K191555            |                                   | <20                          | 0.37                         | <10                          | <10                         | 138                        | <10                         | 72                          |
| K191556            |                                   | <20                          | <0.01                        | <10                          | <10                         | 3                          | <10                         | 14                          |
| K191557            |                                   | <20                          | 0.04                         | <10                          | <10                         | 226                        | <10                         | 141                         |



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Page: 1  
Finalized Date: 14- AUG- 2011  
Account: F

**CERTIFICATE WH11130470**

Project: Wolverine- String

P.O. No.:

This report is for 13 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 14- AUG- 2011  
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Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11130470**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>0.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|------------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| CC121201           |                                   | 0.31                               | 0.458                           | 2.4                           | 0.33                         | >10000                      | <10                         | 660                          | <0.5                          | 2                           | 1.54                         | 1.6                           | 97                          | 36                          | 216                         | 15.6                         |
| CC121202           |                                   | 0.37                               | 0.312                           | 0.3                           | 0.29                         | 2580                        | <10                         | 250                          | <0.5                          | <2                          | 0.16                         | <0.5                          | 12                          | 8                           | 37                          | 3.92                         |
| CC121203           |                                   | 0.27                               | 0.060                           | 0.9                           | 0.42                         | 175                         | <10                         | 290                          | <0.5                          | 2                           | 0.65                         | 1.3                           | 11                          | 7                           | 46                          | 2.85                         |
| CC121204           |                                   | 0.26                               | 0.035                           | 1.7                           | 1.61                         | 75                          | <10                         | 440                          | 0.9                           | 3                           | 0.22                         | 3.2                           | 24                          | 48                          | 245                         | 3.45                         |
| CC121206           |                                   | 0.37                               | 0.124                           | 1.3                           | 0.37                         | 1060                        | <10                         | 110                          | <0.5                          | 2                           | 1.23                         | 4.0                           | 23                          | 12                          | 128                         | 4.74                         |
| CC121207           |                                   | 0.27                               | 0.024                           | <0.2                          | 0.45                         | 3330                        | <10                         | 150                          | 0.5                           | <2                          | 0.15                         | <0.5                          | 12                          | 4                           | 36                          | 6.72                         |
| CC121208           |                                   | 0.36                               | 0.225                           | 1.3                           | 0.45                         | 1925                        | <10                         | 170                          | <0.5                          | 2                           | 0.55                         | 0.6                           | 14                          | 7                           | 58                          | 4.46                         |
| CC121209           |                                   | 0.26                               | 0.006                           | 0.4                           | 0.98                         | 24                          | <10                         | 980                          | <0.5                          | 3                           | 0.27                         | 0.6                           | 9                           | 40                          | 37                          | 1.82                         |
| CC121210           |                                   | 0.27                               | 1.110                           | 0.8                           | 0.24                         | >10000                      | <10                         | 250                          | <0.5                          | <2                          | 4.98                         | <0.5                          | 74                          | 27                          | 47                          | 11.10                        |
| CC121211           |                                   | 0.30                               | 0.019                           | 0.4                           | 0.64                         | 125                         | <10                         | 150                          | <0.5                          | 3                           | 1.12                         | 0.5                           | 13                          | 31                          | 42                          | 2.59                         |
| CC121212           |                                   | 0.42                               | 0.002                           | <0.2                          | 3.52                         | 16                          | <10                         | 930                          | 0.6                           | <2                          | 0.85                         | <0.5                          | 26                          | 47                          | 109                         | 7.53                         |
| CC121217           |                                   | 0.22                               | 0.017                           | <0.2                          | 0.90                         | 14                          | <10                         | 420                          | <0.5                          | <2                          | 0.78                         | 1.0                           | 11                          | 76                          | 33                          | 2.13                         |
| CC121218           |                                   | 0.25                               | 0.030                           | 0.3                           | 0.64                         | 67                          | <10                         | 320                          | <0.5                          | <2                          | 0.92                         | 1.6                           | 10                          | 38                          | 58                          | 2.10                         |



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11130470**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC121201           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.51                         | 2540                        | 2                           | 0.02                         | 349                         | 950                         | 23                          | 0.14                        | 60                          | 19                          | 140                         |
| CC121202           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.07                         | 316                         | 1                           | 0.01                         | 33                          | 400                         | 9                           | 0.15                        | 10                          | 2                           | 48                          |
| CC121203           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.08                         | 558                         | 4                           | 0.01                         | 22                          | 1200                        | 16                          | 0.04                        | 7                           | 2                           | 51                          |
| CC121204           |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.36                         | 878                         | 9                           | 0.01                         | 125                         | 2160                        | 26                          | 0.07                        | 20                          | 3                           | 119                         |
| CC121206           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.26                         | 772                         | 10                          | 0.01                         | 91                          | 2400                        | 15                          | 0.03                        | 12                          | 5                           | 62                          |
| CC121207           |                                   | <10                          | <1                          | 0.12                        | 20                           | 0.03                         | 170                         | <1                          | 0.01                         | 26                          | 550                         | 8                           | 0.29                        | 7                           | 5                           | 42                          |
| CC121208           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.14                         | 527                         | 1                           | 0.01                         | 36                          | 580                         | 11                          | 0.08                        | 17                          | 3                           | 41                          |
| CC121209           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.49                         | 458                         | 2                           | 0.02                         | 41                          | 650                         | 13                          | 0.03                        | 3                           | 2                           | 44                          |
| CC121210           |                                   | <10                          | <1                          | 0.05                        | 20                           | 1.27                         | 1825                        | 1                           | 0.01                         | 437                         | 1280                        | 10                          | 0.06                        | 32                          | 15                          | 185                         |
| CC121211           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.84                         | 516                         | 1                           | 0.02                         | 62                          | 680                         | 14                          | 0.03                        | 5                           | 3                           | 72                          |
| CC121212           |                                   | 10                           | <1                          | 0.18                        | 10                           | 3.30                         | 988                         | <1                          | 0.02                         | 40                          | 2060                        | 3                           | 0.02                        | 4                           | 17                          | 60                          |
| CC121217           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.18                         | 376                         | 2                           | 0.02                         | 89                          | 960                         | 10                          | 0.04                        | 3                           | 3                           | 56                          |
| CC121218           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.52                         | 542                         | 4                           | 0.02                         | 55                          | 1650                        | 12                          | 0.06                        | 10                          | 2                           | 78                          |



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11130470**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC121201           |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       | 394       |
| CC121202           |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 80        |
| CC121203           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 142       |
| CC121204           |                                   | <20       | 0.01      | <10       | <10       | 57        | <10       | 509       |
| CC121206           |                                   | <20       | <0.01     | <10       | <10       | 31        | <10       | 308       |
| CC121207           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       | 69        |
| CC121208           |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 126       |
| CC121209           |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 97        |
| CC121210           |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 148       |
| CC121211           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 156       |
| CC121212           |                                   | <20       | 0.16      | <10       | <10       | 188       | <10       | 108       |
| CC121217           |                                   | <20       | 0.03      | <10       | <10       | 39        | <10       | 116       |
| CC121218           |                                   | <20       | 0.02      | <10       | <10       | 28        | <10       | 169       |



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Page: 1  
Finalized Date: 28- AUG- 2011  
Account: F

**CERTIFICATE WH11132852**

Project: Wolverine- STRING

P.O. No.:

This report is for 45 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 28- AUG- 2011  
Account: F

Project: Wolverine- STRING

**CERTIFICATE OF ANALYSIS WH11132852**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC121047           |                                   | 0.28                       | 0.008                  | <0.2                   | 1.13                 | 17                     | <10                   | 420                    | <0.5                   | <2                     | 0.34                 | 1.6                    | 12                     | 56                     | 57                     | 2.59                 |
| CC121048           |                                   | 0.32                       | 0.010                  | 0.2                    | 1.39                 | 13                     | <10                   | 410                    | <0.5                   | <2                     | 0.53                 | 0.6                    | 13                     | 62                     | 51                     | 2.46                 |
| CC121049           |                                   | 0.39                       | 0.005                  | <0.2                   | 1.88                 | 10                     | <10                   | 460                    | <0.5                   | <2                     | 0.68                 | 1.1                    | 16                     | 70                     | 26                     | 3.25                 |
| CC121050           |                                   | 0.54                       | 0.005                  | <0.2                   | 0.83                 | 10                     | <10                   | 270                    | <0.5                   | <2                     | 0.45                 | 1.0                    | 12                     | 52                     | 31                     | 1.56                 |
| CC121061           |                                   | 0.22                       | 0.005                  | <0.2                   | 1.34                 | 39                     | <10                   | 570                    | <0.5                   | <2                     | 0.52                 | 0.9                    | 21                     | 45                     | 48                     | 3.55                 |
| CC121062           |                                   | 0.37                       | 0.013                  | <0.2                   | 1.34                 | 22                     | <10                   | 610                    | 0.5                    | <2                     | 0.47                 | 0.8                    | 11                     | 64                     | 53                     | 2.48                 |
| CC121063           |                                   | 0.26                       | 0.008                  | 0.9                    | 0.47                 | 24                     | <10                   | 90                     | <0.5                   | <2                     | 0.70                 | 5.8                    | 4                      | 14                     | 70                     | 1.23                 |
| CC121064           |                                   | 0.20                       | 0.059                  | 12.2                   | 0.49                 | 207                    | <10                   | 280                    | <0.5                   | <2                     | 2.27                 | 36.2                   | 6                      | 61                     | 368                    | 2.25                 |
| CC121065           |                                   | 0.27                       | 0.016                  | 3.1                    | 0.29                 | 121                    | <10                   | 150                    | <0.5                   | <2                     | 1.89                 | 14.1                   | 8                      | 14                     | 90                     | 2.57                 |
| CC121066           |                                   | 0.22                       | 0.042                  | 4.1                    | 0.35                 | 169                    | <10                   | 140                    | <0.5                   | <2                     | 1.46                 | 12.3                   | 14                     | 24                     | 227                    | 3.93                 |
| CC121068           |                                   | 0.27                       | 0.001                  | <0.2                   | 1.68                 | 9                      | <10                   | 50                     | <0.5                   | <2                     | 1.28                 | <0.5                   | 19                     | 50                     | 32                     | 3.61                 |
| CC121069           |                                   | 0.29                       | 0.004                  | <0.2                   | 0.54                 | 33                     | <10                   | 80                     | <0.5                   | <2                     | 6.92                 | <0.5                   | 16                     | 9                      | 35                     | 3.42                 |
| CC121070           |                                   | 0.28                       | 0.012                  | 2.5                    | 0.40                 | 92                     | <10                   | 100                    | <0.5                   | <2                     | 2.90                 | 8.2                    | 21                     | 8                      | 175                    | 3.26                 |
| CC121071           |                                   | 0.30                       | 1.450                  | 2.4                    | 0.13                 | >10000                 | <10                   | 280                    | <0.5                   | <2                     | 5.62                 | <0.5                   | 111                    | 32                     | 192                    | 22.2                 |
| CC121072           |                                   | 0.23                       | 0.277                  | 0.7                    | 0.49                 | 2490                   | <10                   | 200                    | <0.5                   | <2                     | 0.99                 | 1.1                    | 18                     | 10                     | 66                     | 4.79                 |
| CC121073           |                                   | 0.25                       | 0.159                  | 0.4                    | 0.59                 | 957                    | <10                   | 270                    | <0.5                   | <2                     | 0.82                 | 0.6                    | 12                     | 14                     | 45                     | 3.01                 |
| CC121074           |                                   | 0.32                       | 0.204                  | 0.4                    | 0.54                 | 1020                   | <10                   | 200                    | <0.5                   | <2                     | 0.51                 | <0.5                   | 13                     | 10                     | 53                     | 3.49                 |
| CC121075           |                                   | 0.33                       | 0.162                  | <0.2                   | 0.67                 | 1405                   | <10                   | 140                    | <0.5                   | <2                     | 4.36                 | <0.5                   | 42                     | 17                     | 65                     | 6.47                 |
| CC121076           |                                   | 0.39                       | 1.220                  | 1.0                    | 0.36                 | >10000                 | <10                   | 350                    | <0.5                   | <2                     | 4.83                 | <0.5                   | 67                     | 33                     | 67                     | 11.75                |
| CC121077           |                                   | 0.28                       | 0.005                  | 0.3                    | 0.96                 | 31                     | <10                   | 280                    | <0.5                   | <2                     | 0.93                 | 0.7                    | 13                     | 90                     | 30                     | 2.32                 |
| CC121078           |                                   | 0.42                       | 0.325                  | 0.6                    | 0.25                 | 1810                   | <10                   | 180                    | <0.5                   | <2                     | 0.25                 | <0.5                   | 10                     | 8                      | 74                     | 3.64                 |
| CC121079           |                                   | 0.35                       | 0.090                  | 0.2                    | 1.50                 | 931                    | <10                   | 110                    | <0.5                   | <2                     | 2.24                 | <0.5                   | 23                     | 22                     | 45                     | 4.97                 |
| CC121080           |                                   | 0.30                       | 0.023                  | 3.3                    | 0.96                 | 274                    | <10                   | 230                    | 0.8                    | <2                     | 1.90                 | 15.1                   | 6                      | 26                     | 377                    | 3.77                 |
| CC121081           |                                   | 0.27                       | 0.003                  | 0.2                    | 1.32                 | 62                     | <10                   | 110                    | <0.5                   | <2                     | 0.74                 | 2.5                    | 10                     | 18                     | 27                     | 3.71                 |
| CC121082           |                                   | 0.30                       | 0.012                  | 0.2                    | 0.94                 | 124                    | <10                   | 130                    | <0.5                   | <2                     | 1.11                 | 1.7                    | 12                     | 17                     | 46                     | 3.95                 |
| CC121083           |                                   | 0.29                       | 0.015                  | <0.2                   | 1.07                 | 69                     | <10                   | 190                    | <0.5                   | <2                     | 0.43                 | 0.5                    | 13                     | 40                     | 69                     | 3.32                 |
| CC121084           |                                   | 0.29                       | 0.006                  | <0.2                   | 1.45                 | 57                     | <10                   | 290                    | <0.5                   | <2                     | 0.51                 | 0.9                    | 11                     | 45                     | 46                     | 3.48                 |
| CC121085           |                                   | 0.31                       | 0.008                  | <0.2                   | 1.59                 | 52                     | <10                   | 460                    | <0.5                   | <2                     | 0.69                 | 0.6                    | 14                     | 46                     | 54                     | 3.71                 |
| CC121086           |                                   | 0.34                       | 0.010                  | <0.2                   | 1.76                 | 16                     | <10                   | 290                    | <0.5                   | <2                     | 0.66                 | <0.5                   | 18                     | 70                     | 100                    | 3.81                 |
| CC121087           |                                   | 0.27                       | 0.004                  | 0.2                    | 3.52                 | 12                     | <10                   | 410                    | <0.5                   | <2                     | 0.64                 | <0.5                   | 25                     | 98                     | 132                    | 6.68                 |
| CC121088           |                                   | 0.35                       | 0.006                  | <0.2                   | 1.38                 | 17                     | <10                   | 410                    | <0.5                   | <2                     | 0.50                 | <0.5                   | 14                     | 67                     | 29                     | 2.72                 |
| CC121089           |                                   | 0.35                       | 0.008                  | <0.2                   | 1.21                 | 22                     | <10                   | 310                    | <0.5                   | <2                     | 0.37                 | 0.5                    | 14                     | 82                     | 45                     | 3.02                 |
| CC121090           |                                   | 0.43                       | 0.008                  | 0.2                    | 1.47                 | 23                     | <10                   | 370                    | <0.5                   | <2                     | 0.46                 | <0.5                   | 15                     | 95                     | 59                     | 3.36                 |
| CC121091           |                                   | 0.28                       | 0.006                  | <0.2                   | 0.46                 | 9                      | <10                   | 50                     | 0.6                    | <2                     | 6.19                 | <0.5                   | 19                     | 6                      | 38                     | 2.91                 |
| CC121092           |                                   | 0.31                       | 0.018                  | <0.2                   | 1.07                 | 136                    | <10                   | 170                    | <0.5                   | <2                     | 2.15                 | <0.5                   | 16                     | 13                     | 55                     | 4.05                 |
| CC121093           |                                   | 0.33                       | 0.005                  | <0.2                   | 1.16                 | 24                     | <10                   | 100                    | <0.5                   | <2                     | 0.61                 | <0.5                   | 17                     | 17                     | 42                     | 4.10                 |
| CC121094           |                                   | 0.37                       | 0.007                  | <0.2                   | 0.98                 | 34                     | <10                   | 30                     | <0.5                   | <2                     | 6.32                 | <0.5                   | 19                     | 12                     | 34                     | 3.42                 |
| CC121095           |                                   | 0.34                       | 0.008                  | 0.2                    | 0.97                 | 121                    | <10                   | 40                     | <0.5                   | <2                     | 1.02                 | 0.5                    | 15                     | 14                     | 36                     | 4.17                 |
| CC121096           |                                   | 0.22                       | 0.016                  | 0.2                    | 1.25                 | 180                    | <10                   | 140                    | <0.5                   | <2                     | 0.75                 | 1.2                    | 14                     | 13                     | 36                     | 3.75                 |
| CC121097           |                                   | 0.42                       | 0.306                  | 0.8                    | 3.73                 | 3860                   | <10                   | 80                     | <0.5                   | <2                     | 1.47                 | 0.5                    | 53                     | 22                     | 179                    | 9.44                 |



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Page: 2 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- AUG- 2011  
 Account: F

Project: Wolverine- STRING

**CERTIFICATE OF ANALYSIS WH11132852**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC121047           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.68                         | 482                         | 3                           | 0.01                         | 78                          | 1020                        | 16                          | <0.01                       | 2                           | 4                           | 49                          |
| CC121048           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.71                         | 625                         | 2                           | 0.02                         | 64                          | 860                         | 15                          | 0.01                        | <2                          | 4                           | 48                          |
| CC121049           |                                   | 10                           | <1                          | 0.05                        | 20                           | 1.00                         | 1200                        | 2                           | 0.02                         | 55                          | 790                         | 14                          | 0.02                        | 2                           | 4                           | 46                          |
| CC121050           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.50                         | 242                         | 3                           | 0.01                         | 91                          | 980                         | 10                          | 0.01                        | 3                           | 3                           | 55                          |
| CC121061           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.54                         | 1810                        | 14                          | 0.02                         | 51                          | 1000                        | 16                          | 0.02                        | <2                          | 3                           | 46                          |
| CC121062           |                                   | <10                          | <1                          | 0.06                        | 30                           | 0.73                         | 355                         | 3                           | 0.01                         | 73                          | 930                         | 21                          | 0.01                        | 2                           | 4                           | 53                          |
| CC121063           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.24                         | 149                         | 2                           | 0.04                         | 54                          | 900                         | 10                          | 0.02                        | 5                           | 1                           | 66                          |
| CC121064           |                                   | <10                          | 6                           | 0.13                        | 20                           | 0.29                         | 190                         | 35                          | 0.02                         | 157                         | 6030                        | 46                          | 0.06                        | 67                          | 2                           | 221                         |
| CC121065           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.45                         | 456                         | 13                          | 0.01                         | 111                         | 2290                        | 22                          | 0.03                        | 13                          | 2                           | 166                         |
| CC121066           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.48                         | 474                         | 23                          | 0.01                         | 183                         | 1610                        | 29                          | 0.02                        | 44                          | 3                           | 109                         |
| CC121068           |                                   | <10                          | <1                          | 0.02                        | 40                           | 0.84                         | 272                         | <1                          | 0.02                         | 52                          | 940                         | 8                           | 0.02                        | <2                          | 3                           | 55                          |
| CC121069           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.33                         | 453                         | 1                           | 0.01                         | 37                          | 600                         | 8                           | 0.02                        | <2                          | 4                           | 168                         |
| CC121070           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.46                         | 405                         | 28                          | 0.02                         | 120                         | 2510                        | 34                          | 0.03                        | 19                          | 3                           | 91                          |
| CC121071           |                                   | <10                          | 1                           | 0.04                        | <10                          | 2.58                         | 3120                        | 6                           | 0.02                         | 553                         | 640                         | 12                          | 0.22                        | 93                          | 17                          | 296                         |
| CC121072           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.17                         | 580                         | 3                           | 0.01                         | 62                          | 850                         | 12                          | 0.05                        | 11                          | 4                           | 64                          |
| CC121073           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.18                         | 689                         | 2                           | 0.02                         | 46                          | 490                         | 11                          | 0.08                        | 7                           | 2                           | 55                          |
| CC121074           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.15                         | 509                         | <1                          | <0.01                        | 43                          | 600                         | 10                          | 0.02                        | 7                           | 3                           | 35                          |
| CC121075           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.61                         | 753                         | <1                          | <0.01                        | 267                         | 1800                        | 5                           | 0.03                        | 13                          | 5                           | 103                         |
| CC121076           |                                   | <10                          | <1                          | 0.06                        | 10                           | 1.94                         | 2130                        | 1                           | 0.01                         | 327                         | 2010                        | 10                          | 0.03                        | 35                          | 15                          | 229                         |
| CC121077           |                                   | <10                          | <1                          | 0.06                        | 10                           | 1.62                         | 524                         | 2                           | 0.02                         | 144                         | 820                         | 11                          | 0.05                        | 2                           | 3                           | 37                          |
| CC121078           |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.08                         | 249                         | 3                           | 0.02                         | 35                          | 660                         | 21                          | 0.21                        | 32                          | 2                           | 135                         |
| CC121079           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.75                         | 628                         | 1                           | 0.01                         | 96                          | 890                         | 12                          | 0.05                        | 7                           | 5                           | 64                          |
| CC121080           |                                   | <10                          | 2                           | 0.10                        | 10                           | 0.39                         | 357                         | 41                          | 0.01                         | 86                          | 8180                        | 34                          | 0.06                        | 54                          | 3                           | 551                         |
| CC121081           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.49                         | 344                         | 3                           | 0.01                         | 28                          | 620                         | 13                          | 0.01                        | 2                           | 3                           | 34                          |
| CC121082           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.48                         | 358                         | 8                           | 0.01                         | 40                          | 970                         | 14                          | 0.05                        | 3                           | 3                           | 54                          |
| CC121083           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.62                         | 327                         | 2                           | 0.01                         | 60                          | 1310                        | 10                          | <0.01                       | <2                          | 5                           | 42                          |
| CC121084           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.74                         | 295                         | 2                           | 0.01                         | 49                          | 1130                        | 10                          | 0.01                        | <2                          | 3                           | 36                          |
| CC121085           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.76                         | 402                         | 2                           | 0.01                         | 49                          | 1370                        | 11                          | 0.05                        | 2                           | 4                           | 44                          |
| CC121086           |                                   | <10                          | <1                          | 0.16                        | 20                           | 1.29                         | 406                         | 2                           | 0.01                         | 88                          | 1240                        | 10                          | 0.02                        | 2                           | 6                           | 45                          |
| CC121087           |                                   | 10                           | <1                          | 0.59                        | 20                           | 2.88                         | 519                         | 2                           | 0.01                         | 84                          | 1500                        | 7                           | 0.01                        | <2                          | 13                          | 39                          |
| CC121088           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.79                         | 336                         | 2                           | 0.01                         | 55                          | 1020                        | 14                          | 0.01                        | <2                          | 4                           | 48                          |
| CC121089           |                                   | <10                          | <1                          | 0.07                        | 20                           | 1.00                         | 527                         | 2                           | 0.01                         | 101                         | 1060                        | 14                          | 0.01                        | 2                           | 4                           | 29                          |
| CC121090           |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.23                         | 415                         | 2                           | 0.01                         | 109                         | 1010                        | 9                           | <0.01                       | <2                          | 6                           | 31                          |
| CC121091           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.22                         | 457                         | 2                           | 0.02                         | 25                          | 730                         | 12                          | 0.01                        | 5                           | 5                           | 76                          |
| CC121092           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.45                         | 376                         | 1                           | 0.01                         | 43                          | 820                         | 12                          | 0.03                        | 5                           | 5                           | 74                          |
| CC121093           |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.51                         | 541                         | 1                           | 0.01                         | 41                          | 640                         | 12                          | 0.01                        | 2                           | 4                           | 25                          |
| CC121094           |                                   | <10                          | 1                           | 0.03                        | 40                           | 0.53                         | 303                         | 1                           | 0.02                         | 36                          | 420                         | 9                           | 0.01                        | 5                           | 3                           | 94                          |
| CC121095           |                                   | <10                          | <1                          | 0.02                        | 30                           | 0.50                         | 406                         | 2                           | 0.02                         | 37                          | 1130                        | 13                          | 0.01                        | 4                           | 3                           | 33                          |
| CC121096           |                                   | <10                          | 1                           | 0.15                        | 20                           | 0.35                         | 417                         | 1                           | 0.04                         | 35                          | 970                         | 17                          | 0.01                        | 5                           | 3                           | 39                          |
| CC121097           |                                   | 10                           | 1                           | 0.03                        | 30                           | 2.39                         | 618                         | 3                           | 0.02                         | 47                          | 2120                        | 94                          | 0.04                        | 58                          | 14                          | 72                          |



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- AUG- 2011  
 Account: F

Project: Wolverine- STRING

**CERTIFICATE OF ANALYSIS WH11132852**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| CC121047           |                                   | <20       | 0.04      | <10       | <10       | 40        | <10       |
| CC121048           |                                   | <20       | 0.04      | <10       | <10       | 44        | <10       |
| CC121049           |                                   | <20       | 0.04      | <10       | <10       | 53        | <10       |
| CC121050           |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       |
| CC121061           |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       |
| CC121062           |                                   | <20       | 0.04      | <10       | <10       | 43        | <10       |
| CC121063           |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       |
| CC121064           |                                   | <20       | 0.01      | <10       | 10        | 438       | <10       |
| CC121065           |                                   | <20       | <0.01     | <10       | <10       | 48        | <10       |
| CC121066           |                                   | <20       | <0.01     | <10       | <10       | 40        | <10       |
| CC121068           |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       |
| CC121069           |                                   | <20       | <0.01     | <10       | <10       | 5         | <10       |
| CC121070           |                                   | <20       | <0.01     | <10       | <10       | 53        | <10       |
| CC121071           |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       |
| CC121072           |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       |
| CC121073           |                                   | <20       | 0.01      | <10       | <10       | 11        | <10       |
| CC121074           |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       |
| CC121075           |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       |
| CC121076           |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       |
| CC121077           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       |
| CC121078           |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       |
| CC121079           |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       |
| CC121080           |                                   | <20       | <0.01     | <10       | 30        | 449       | <10       |
| CC121081           |                                   | <20       | <0.01     | <10       | <10       | 23        | <10       |
| CC121082           |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       |
| CC121083           |                                   | <20       | 0.03      | <10       | <10       | 34        | <10       |
| CC121084           |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       |
| CC121085           |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       |
| CC121086           |                                   | <20       | 0.06      | <10       | <10       | 53        | <10       |
| CC121087           |                                   | <20       | 0.24      | <10       | <10       | 128       | <10       |
| CC121088           |                                   | <20       | 0.03      | <10       | <10       | 49        | <10       |
| CC121089           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       |
| CC121090           |                                   | <20       | 0.03      | <10       | <10       | 55        | <10       |
| CC121091           |                                   | <20       | <0.01     | <10       | <10       | 4         | <10       |
| CC121092           |                                   | <20       | <0.01     | <10       | <10       | 25        | <10       |
| CC121093           |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       |
| CC121094           |                                   | 20        | <0.01     | <10       | <10       | 6         | <10       |
| CC121095           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       |
| CC121096           |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       |
| CC121097           |                                   | <20       | <0.01     | <10       | <10       | 129       | <10       |



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**Total # Pages: 3 (A - C)**  
**Finalized Date: 28- AUG- 2011**  
**Account: F**

**CERTIFICATE OF ANALYSIS    WH11132852**

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To: **ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

**Page: 3 - B**  
**Total # Pages: 3 (A - C)**  
**Finalized Date: 28- AUG- 2011**  
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Project: Wolverine- STRING

**CERTIFICATE OF ANALYSIS WH11132852**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |          |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|                    |                                   | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        | Sr       |
|                    |                                   | ppm<br>10 | ppm<br>1  | %<br>0.01 | ppm<br>10 | %<br>0.01 | ppm<br>5  | ppm<br>1  | %<br>0.01 | ppm<br>1  | ppm<br>10 | ppm<br>2  | %<br>0.01 | ppm<br>2  | ppm<br>1  | ppm<br>1 |
| CC121098           |                                   | <10       | 1         | 0.04      | 20        | 0.88      | 468       | 1         | 0.02      | 38        | 620       | 17        | <0.01     | 5         | 3         | 105      |
| CC121099           |                                   | <10       | <1        | 0.04      | 20        | 0.40      | 290       | 2         | 0.02      | 36        | 840       | 16        | 0.02      | 5         | 3         | 38       |
| CC121100           |                                   | <10       | 1         | 0.03      | 20        | 0.43      | 534       | 2         | 0.02      | 38        | 1060      | 15        | <0.01     | 7         | 3         | 36       |
| CC121101           |                                   | <10       | <1        | 0.05      | 20        | 0.74      | 712       | 1         | 0.02      | 57        | 800       | 19        | <0.01     | 5         | 3         | 59       |
| CC121102           |                                   | <10       | 1         | 0.03      | 20        | 0.46      | 571       | 1         | 0.01      | 39        | 840       | 15        | 0.03      | 4         | 3         | 38       |
|                    |                                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |          |
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|                    |                                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |          |
|                    |                                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |          |
|                    |                                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |          |
|                    |                                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |          |
|                    |                                   | </        |           |           |           |           |           |           |           |           |           |           |           |           |           |          |



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Project: Wolverine- STRING

**CERTIFICATE OF ANALYSIS    WH11132852**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| CC121098           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 110       |
| CC121099           |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       | 142       |
| CC121100           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 112       |
| CC121101           |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 135       |
| CC121102           |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 105       |
|                    |                                   |           |           |           |           |           |           |           |



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Page: 1  
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Account: F

**CERTIFICATE WH11138511**

Project: Wolverine- String

P.O. No.:

This report is for 27 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
ATTN: JOAN MARIACHER  
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VANCOUVER BC V6B 1L8**

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

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 2 (A - C)  
Finalized Date: 1- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11138511**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC121103           |                                   | 0.32                       | 0.005                  | 0.2                    | 1.06                 | 15                     | <10                   | 410                    | <0.5                   | <2                     | 0.52                 | 1.3                    | 12                     | 33                     | 27                     | 2.68                 |
| CC121104           |                                   | 0.32                       | 0.005                  | 0.3                    | 1.11                 | 12                     | <10                   | 490                    | <0.5                   | <2                     | 0.41                 | 0.8                    | 10                     | 49                     | 32                     | 2.34                 |
| CC121105           |                                   | 0.32                       | 0.006                  | 0.3                    | 1.12                 | 21                     | <10                   | 680                    | <0.5                   | <2                     | 0.30                 | 0.7                    | 10                     | 36                     | 31                     | 2.58                 |
| CC121106           |                                   | 0.36                       | 0.007                  | 0.4                    | 1.19                 | 35                     | <10                   | 830                    | <0.5                   | <2                     | 0.33                 | 0.8                    | 8                      | 35                     | 38                     | 2.24                 |
| CC121107           |                                   | 0.28                       | 0.005                  | 0.2                    | 1.05                 | 12                     | <10                   | 990                    | <0.5                   | <2                     | 0.43                 | 0.6                    | 8                      | 28                     | 33                     | 1.73                 |
| CC121108           |                                   | 0.38                       | 0.007                  | 0.3                    | 1.26                 | 12                     | <10                   | 1140                   | <0.5                   | <2                     | 0.33                 | 0.5                    | 9                      | 45                     | 52                     | 2.12                 |
| CC121109           |                                   | 0.38                       | 0.008                  | 0.5                    | 1.11                 | 14                     | <10                   | 870                    | <0.5                   | <2                     | 0.37                 | <0.5                   | 11                     | 39                     | 38                     | 2.01                 |
| CC121110           |                                   | 0.38                       | 0.007                  | 0.5                    | 0.98                 | 22                     | <10                   | 600                    | <0.5                   | <2                     | 0.37                 | 1.2                    | 9                      | 40                     | 33                     | 2.33                 |
| CC121111           |                                   | 0.36                       | 0.011                  | 1.2                    | 1.25                 | 14                     | <10                   | 850                    | <0.5                   | <2                     | 0.38                 | 2.7                    | 5                      | 45                     | 110                    | 1.53                 |
| CC121112           |                                   | 0.40                       | 0.009                  | 0.3                    | 1.23                 | 10                     | <10                   | 380                    | <0.5                   | <2                     | 0.28                 | 0.8                    | 7                      | 46                     | 48                     | 1.90                 |
| CC121113           |                                   | 0.40                       | 0.021                  | 0.4                    | 1.27                 | 14                     | <10                   | 570                    | <0.5                   | <2                     | 0.28                 | 0.5                    | 9                      | 48                     | 60                     | 2.21                 |
| CC121114           |                                   | 0.42                       | 0.015                  | 0.5                    | 1.28                 | 21                     | <10                   | 520                    | <0.5                   | <2                     | 0.38                 | 1.2                    | 13                     | 44                     | 60                     | 2.43                 |
| CC121115           |                                   | 0.28                       | 0.015                  | 0.8                    | 1.41                 | 28                     | <10                   | 580                    | <0.5                   | <2                     | 0.36                 | 1.4                    | 11                     | 45                     | 70                     | 2.45                 |
| CC121116           |                                   | 0.36                       | 0.012                  | 0.5                    | 1.23                 | 19                     | <10                   | 500                    | <0.5                   | <2                     | 0.45                 | 1.7                    | 10                     | 61                     | 57                     | 2.68                 |
| CC121117           |                                   | 0.38                       | 0.007                  | 0.4                    | 1.12                 | 18                     | <10                   | 330                    | <0.5                   | <2                     | 0.95                 | 1.3                    | 10                     | 44                     | 50                     | 2.84                 |
| CC121118           |                                   | 0.40                       | 0.004                  | <0.2                   | 0.97                 | 16                     | <10                   | 100                    | <0.5                   | <2                     | 5.61                 | 0.5                    | 11                     | 23                     | 29                     | 2.82                 |
| CC121119           |                                   | 0.34                       | 0.004                  | <0.2                   | 0.94                 | 25                     | <10                   | 170                    | <0.5                   | <2                     | 0.62                 | 0.8                    | 15                     | 27                     | 35                     | 3.82                 |
| CC121120           |                                   | 0.40                       | 0.009                  | 0.4                    | 1.24                 | 16                     | <10                   | 670                    | <0.5                   | <2                     | 0.38                 | 1.7                    | 10                     | 51                     | 59                     | 2.11                 |
| CC121121           |                                   | 0.36                       | 0.011                  | 0.7                    | 1.31                 | 27                     | <10                   | 900                    | 0.5                    | <2                     | 0.41                 | 3.2                    | 13                     | 50                     | 81                     | 2.38                 |
| CC121122           |                                   | 0.32                       | 0.012                  | 0.5                    | 1.19                 | 23                     | <10                   | 600                    | <0.5                   | <2                     | 0.42                 | 0.9                    | 11                     | 45                     | 45                     | 2.31                 |
| CC121123           |                                   | 0.36                       | 0.011                  | 0.6                    | 0.89                 | 23                     | <10                   | 540                    | <0.5                   | <2                     | 0.58                 | 1.3                    | 8                      | 32                     | 45                     | 1.83                 |
| CC121124           |                                   | 0.38                       | 0.005                  | 0.5                    | 0.20                 | 9                      | <10                   | 200                    | <0.5                   | <2                     | 0.24                 | 6.3                    | 9                      | 5                      | 51                     | 2.33                 |
| CC121125           |                                   | 0.32                       | 0.029                  | 0.8                    | 0.59                 | 27                     | <10                   | 570                    | <0.5                   | <2                     | 1.02                 | 1.2                    | 8                      | 12                     | 115                    | 2.53                 |
| CC121127           |                                   | 0.42                       | 0.020                  | 0.4                    | 1.08                 | 60                     | <10                   | 500                    | <0.5                   | <2                     | 0.57                 | 0.8                    | 10                     | 33                     | 52                     | 2.47                 |
| CC121128           |                                   | 0.38                       | 0.010                  | 0.4                    | 0.95                 | 23                     | <10                   | 400                    | <0.5                   | <2                     | 0.35                 | 0.9                    | 10                     | 48                     | 55                     | 2.26                 |
| CC121129           |                                   | 0.40                       | 0.014                  | 0.4                    | 1.24                 | 43                     | <10                   | 540                    | <0.5                   | <2                     | 0.46                 | 1.0                    | 12                     | 49                     | 76                     | 2.68                 |
| CC121130           |                                   | 0.32                       | 0.007                  | <0.2                   | 0.72                 | 86                     | <10                   | 150                    | <0.5                   | <2                     | 0.32                 | 0.6                    | 13                     | 47                     | 23                     | 3.03                 |



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Page: 2 - B  
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Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11138511**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC121103           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.56                         | 648                         | 2                           | <0.01                        | 46                          | 920                         | 11                          | 0.04                        | 2                           | 2                           | 36                          |
| CC121104           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.66                         | 830                         | 1                           | 0.01                         | 55                          | 890                         | 13                          | 0.02                        | 2                           | 3                           | 37                          |
| CC121105           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.45                         | 938                         | 2                           | 0.01                         | 37                          | 800                         | 11                          | 0.03                        | 3                           | 2                           | 37                          |
| CC121106           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.50                         | 302                         | 1                           | <0.01                        | 33                          | 700                         | 12                          | 0.03                        | 3                           | 3                           | 41                          |
| CC121107           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.37                         | 1040                        | <1                          | 0.01                         | 31                          | 750                         | 10                          | 0.03                        | 3                           | 2                           | 46                          |
| CC121108           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.58                         | 406                         | 1                           | <0.01                        | 48                          | 710                         | 14                          | 0.01                        | 4                           | 3                           | 54                          |
| CC121109           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.50                         | 665                         | 1                           | 0.01                         | 39                          | 690                         | 14                          | 0.02                        | 4                           | 3                           | 52                          |
| CC121110           |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.50                         | 443                         | 5                           | <0.01                        | 38                          | 830                         | 14                          | 0.01                        | 4                           | 3                           | 45                          |
| CC121111           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.43                         | 179                         | <1                          | <0.01                        | 37                          | 930                         | 18                          | 0.04                        | 4                           | 3                           | 59                          |
| CC121112           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.57                         | 258                         | 1                           | <0.01                        | 42                          | 670                         | 13                          | 0.01                        | 3                           | 3                           | 37                          |
| CC121113           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.60                         | 487                         | 2                           | <0.01                        | 50                          | 760                         | 13                          | 0.01                        | 3                           | 3                           | 41                          |
| CC121114           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.56                         | 888                         | 3                           | <0.01                        | 50                          | 810                         | 14                          | 0.02                        | 3                           | 3                           | 52                          |
| CC121115           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.54                         | 746                         | 4                           | <0.01                        | 52                          | 890                         | 18                          | 0.03                        | 3                           | 3                           | 63                          |
| CC121116           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.78                         | 313                         | 3                           | <0.01                        | 86                          | 1140                        | 13                          | 0.02                        | 6                           | 4                           | 59                          |
| CC121117           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.59                         | 309                         | 3                           | <0.01                        | 69                          | 960                         | 10                          | 0.01                        | 5                           | 4                           | 49                          |
| CC121118           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.86                         | 493                         | <1                          | 0.02                         | 37                          | 580                         | 6                           | 0.02                        | 4                           | 3                           | 85                          |
| CC121119           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.56                         | 360                         | 3                           | <0.01                        | 52                          | 810                         | 10                          | 0.01                        | 5                           | 4                           | 24                          |
| CC121120           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.62                         | 278                         | <1                          | <0.01                        | 58                          | 810                         | 14                          | 0.03                        | 3                           | 4                           | 50                          |
| CC121121           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.55                         | 343                         | 2                           | <0.01                        | 77                          | 1090                        | 18                          | 0.04                        | 5                           | 4                           | 55                          |
| CC121122           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.53                         | 473                         | 1                           | <0.01                        | 42                          | 1050                        | 13                          | 0.02                        | 5                           | 3                           | 50                          |
| CC121123           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.37                         | 857                         | 1                           | 0.01                         | 41                          | 1240                        | 11                          | 0.04                        | 4                           | 2                           | 55                          |
| CC121124           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.04                         | 343                         | 6                           | <0.01                        | 32                          | 630                         | 12                          | 0.01                        | 4                           | 2                           | 23                          |
| CC121125           |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.12                         | 176                         | 7                           | <0.01                        | 47                          | 3060                        | 25                          | 0.03                        | 5                           | 2                           | 133                         |
| CC121127           |                                   | <10                          | <1                          | 0.08                        | 30                           | 0.53                         | 374                         | 1                           | <0.01                        | 34                          | 1020                        | 16                          | 0.02                        | 3                           | 3                           | 54                          |
| CC121128           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.58                         | 366                         | 2                           | <0.01                        | 69                          | 910                         | 14                          | 0.01                        | 4                           | 3                           | 41                          |
| CC121129           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.63                         | 676                         | 3                           | <0.01                        | 61                          | 1060                        | 16                          | 0.01                        | 4                           | 4                           | 49                          |
| CC121130           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.44                         | 521                         | 2                           | <0.01                        | 42                          | 1460                        | 14                          | 0.01                        | 4                           | 2                           | 33                          |



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Page: 2 - C  
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 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11138511**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC121103           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 126       |
| CC121104           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 105       |
| CC121105           |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 86        |
| CC121106           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 83        |
| CC121107           |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 71        |
| CC121108           |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 107       |
| CC121109           |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 97        |
| CC121110           |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 177       |
| CC121111           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 147       |
| CC121112           |                                   | <20       | 0.03      | <10       | <10       | 33        | <10       | 165       |
| CC121113           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 167       |
| CC121114           |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 196       |
| CC121115           |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 216       |
| CC121116           |                                   | <20       | 0.03      | <10       | <10       | 40        | <10       | 344       |
| CC121117           |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 295       |
| CC121118           |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 98        |
| CC121119           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 144       |
| CC121120           |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 207       |
| CC121121           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 262       |
| CC121122           |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 162       |
| CC121123           |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 150       |
| CC121124           |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 251       |
| CC121125           |                                   | <20       | <0.01     | <10       | <10       | 24        | <10       | 285       |
| CC121127           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 107       |
| CC121128           |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 126       |
| CC121129           |                                   | <20       | 0.04      | <10       | <10       | 41        | <10       | 138       |
| CC121130           |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 124       |



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Page: 1  
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**CERTIFICATE WH11138515**

Project: Wolverine- String

P.O. No.:

This report is for 11 Rock samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- QC  | Crushing QC Test               |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11138515**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| I359442            |                                   | 1.61                       | <0.005                | 0.2                    | 0.39                 | 56                     | <10                   | 300                    | <0.5                   | <2                     | 0.75                 | <0.5                   | 16                     | 6                      | 26                     | 3.18                 |
| I359443            |                                   | 1.28                       | <0.005                | <0.2                   | 0.82                 | 59                     | <10                   | 540                    | <0.5                   | <2                     | 2.12                 | <0.5                   | 21                     | 10                     | 27                     | 4.36                 |
| I359444            |                                   | 1.34                       | <0.005                | <0.2                   | 0.38                 | 61                     | <10                   | 310                    | <0.5                   | <2                     | 5.62                 | <0.5                   | 21                     | 14                     | 17                     | 5.35                 |
| I359445            |                                   | 0.22                       | 0.007                 | <0.2                   | 0.34                 | 154                    | <10                   | 480                    | <0.5                   | <2                     | 11.2                 | <0.5                   | 18                     | 12                     | 11                     | 4.77                 |
| I359446            |                                   | 0.19                       | 0.008                 | <0.2                   | 0.23                 | 17                     | <10                   | 220                    | <0.5                   | <2                     | 0.09                 | 0.9                    | 5                      | 6                      | 56                     | 1.05                 |
| I359451            |                                   | 1.02                       | <0.005                | <0.2                   | 0.58                 | 7                      | <10                   | 70                     | <0.5                   | <2                     | 11.4                 | <0.5                   | 9                      | 7                      | 11                     | 2.26                 |
| I359452            |                                   | 1.25                       | <0.005                | <0.2                   | 0.80                 | 13                     | <10                   | 60                     | <0.5                   | <2                     | 14.3                 | <0.5                   | 9                      | 9                      | 13                     | 2.65                 |
| I359453            |                                   | 1.36                       | <0.005                | 0.3                    | 0.54                 | 16                     | <10                   | 80                     | <0.5                   | <2                     | 11.2                 | <0.5                   | 7                      | 7                      | 13                     | 2.39                 |
| I359454            |                                   | 1.50                       | <0.005                | <0.2                   | 1.06                 | 8                      | <10                   | 90                     | <0.5                   | <2                     | 14.1                 | <0.5                   | 10                     | 9                      | 12                     | 3.21                 |
| I359455            |                                   | 1.31                       | <0.005                | 0.3                    | 0.81                 | 11                     | <10                   | 40                     | <0.5                   | <2                     | 18.0                 | <0.5                   | 9                      | 7                      | 22                     | 3.02                 |
| I359456            |                                   | 1.42                       | <0.005                | <0.2                   | 0.60                 | 22                     | <10                   | 30                     | <0.5                   | <2                     | 16.8                 | 0.5                    | 8                      | 5                      | 30                     | 3.08                 |



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11138515**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| I359442            |                                   | <10                          | <1                          | 0.22                        | 20                           | 0.13                         | 552                         | 4                           | 0.03                         | 34                          | 450                         | 7                           | 0.04                        | 4                           | 2                           | 31                          |
| I359443            |                                   | <10                          | <1                          | 0.43                        | 30                           | 0.32                         | 659                         | 3                           | 0.03                         | 47                          | 460                         | 4                           | 0.04                        | <2                          | 3                           | 60                          |
| I359444            |                                   | <10                          | <1                          | 0.24                        | 20                           | 1.34                         | 1055                        | 3                           | 0.03                         | 52                          | 470                         | 4                           | 0.04                        | <2                          | 4                           | 230                         |
| I359445            |                                   | <10                          | <1                          | 0.21                        | 10                           | 4.28                         | 1580                        | 4                           | 0.02                         | 27                          | 1130                        | <2                          | 0.03                        | <2                          | 3                           | 313                         |
| I359446            |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.05                         | 210                         | 3                           | 0.01                         | 24                          | 90                          | 4                           | 0.04                        | <2                          | 1                           | 8                           |
| I359451            |                                   | <10                          | <1                          | 0.14                        | 10                           | 0.38                         | 574                         | 2                           | 0.04                         | 14                          | 180                         | 13                          | 0.03                        | <2                          | 3                           | 353                         |
| I359452            |                                   | <10                          | 1                           | 0.10                        | 10                           | 1.10                         | 812                         | 2                           | 0.04                         | 13                          | 280                         | 14                          | 0.04                        | <2                          | 5                           | 447                         |
| I359453            |                                   | <10                          | <1                          | 0.14                        | 10                           | 0.60                         | 627                         | 2                           | 0.03                         | 12                          | 330                         | 13                          | 0.03                        | <2                          | 3                           | 343                         |
| I359454            |                                   | <10                          | 1                           | 0.10                        | 20                           | 1.34                         | 810                         | 2                           | 0.05                         | 17                          | 350                         | 14                          | 0.05                        | <2                          | 3                           | 418                         |
| I359455            |                                   | <10                          | <1                          | 0.12                        | 20                           | 1.77                         | 901                         | 2                           | 0.04                         | 14                          | 300                         | 34                          | 0.05                        | <2                          | 3                           | 595                         |
| I359456            |                                   | <10                          | <1                          | 0.06                        | 10                           | 1.24                         | 974                         | 2                           | 0.03                         | 13                          | 280                         | 21                          | 0.04                        | <2                          | 3                           | 549                         |



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11138515**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| I359442            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 69        |
| I359443            |                                   | <20       | <0.01     | <10       | <10       | 12        | <10       | 99        |
| I359444            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 73        |
| I359445            |                                   | <20       | <0.01     | <10       | <10       | 59        | <10       | 57        |
| I359446            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 78        |
| I359451            |                                   | <20       | <0.01     | <10       | <10       | 4         | <10       | 44        |
| I359452            |                                   | <20       | <0.01     | <10       | <10       | 23        | <10       | 40        |
| I359453            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 40        |
| I359454            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 55        |
| I359455            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 50        |
| I359456            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 65        |



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Page: 1  
Finalized Date: 12- SEP- 2011  
Account: F

**CERTIFICATE WH11145415**

Project: String- Wolverine

P.O. No.:

This report is for 79 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29- JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
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Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 3 (A - C)  
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Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11145415**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC121219           |                                   | 0.58                       | 0.029                  | 0.4                    | 0.20                 | 36                     | <10                   | 50                     | <0.5                   | <2                     | 4.22                 | <0.5                   | 22                     | 5                      | 32                     | 3.02                 |
| CC121220           |                                   | 0.40                       | 0.162                  | 0.2                    | 0.18                 | 2820                   | <10                   | 100                    | <0.5                   | <2                     | 0.18                 | <0.5                   | 12                     | 1                      | 18                     | 5.44                 |
| CC121221           |                                   | 0.48                       | 0.042                  | 0.5                    | 0.20                 | 413                    | <10                   | 130                    | <0.5                   | <2                     | 0.16                 | <0.5                   | 20                     | 3                      | 51                     | 5.36                 |
| CC121222           |                                   | 0.30                       | 0.032                  | 0.8                    | 0.44                 | 21                     | <10                   | 40                     | <0.5                   | <2                     | 3.10                 | <0.5                   | 20                     | 7                      | 48                     | 2.73                 |
| CC121223           |                                   | 0.40                       | 0.001                  | 0.3                    | 0.48                 | 13                     | <10                   | 30                     | <0.5                   | <2                     | 6.48                 | <0.5                   | 19                     | 2                      | 28                     | 2.85                 |
| CC121224           |                                   | 0.38                       | 0.006                  | <0.2                   | 0.13                 | 3                      | <10                   | 20                     | <0.5                   | <2                     | 11.6                 | <0.5                   | 12                     | 1                      | 21                     | 2.55                 |
| CC121225           |                                   | 0.14                       | 0.004                  | 1.1                    | 0.52                 | 27                     | <10                   | 160                    | <0.5                   | <2                     | 1.71                 | 0.6                    | 8                      | 6                      | 23                     | 1.79                 |
| CC121227           |                                   | 0.36                       | 0.006                  | 0.8                    | 0.29                 | 13                     | <10                   | 90                     | <0.5                   | <2                     | 1.59                 | 1.7                    | 11                     | 4                      | 72                     | 3.81                 |
| CC121228           |                                   | 0.38                       | 0.010                  | 1.4                    | 0.23                 | 48                     | <10                   | 140                    | <0.5                   | <2                     | 0.10                 | 1.4                    | 19                     | 5                      | 144                    | 4.42                 |
| CC121131           |                                   | 0.36                       | 0.100                  | 1.3                    | 0.31                 | 1850                   | <10                   | 140                    | <0.5                   | <2                     | 3.69                 | 0.5                    | 24                     | 6                      | 51                     | 4.44                 |
| CC121132           |                                   | 0.30                       | 0.038                  | 0.8                    | 0.72                 | 393                    | <10                   | 360                    | <0.5                   | 3                      | 0.94                 | 0.5                    | 18                     | 21                     | 35                     | 4.00                 |
| CC121133           |                                   | 0.26                       | 0.036                  | 2.7                    | 0.43                 | 159                    | <10                   | 230                    | <0.5                   | <2                     | 0.67                 | 1.4                    | 13                     | 10                     | 86                     | 3.33                 |
| CC121134           |                                   | 0.36                       | 0.006                  | 1.7                    | 0.29                 | 66                     | <10                   | 180                    | <0.5                   | <2                     | 0.21                 | 1.1                    | 7                      | 8                      | 72                     | 2.30                 |
| CC121135           |                                   | 0.32                       | 1.095                  | 0.9                    | 0.51                 | >10000                 | <10                   | 170                    | <0.5                   | <2                     | 4.51                 | 2.1                    | 45                     | 2                      | 71                     | 11.40                |
| CC121136           |                                   | 0.42                       | 0.013                  | 0.4                    | 2.36                 | 161                    | <10                   | 250                    | 0.5                    | <2                     | 3.81                 | 0.6                    | 76                     | 10                     | 73                     | 10.65                |
| CC121137           |                                   | 0.42                       | 0.178                  | 1.2                    | 0.59                 | 2300                   | <10                   | 440                    | <0.5                   | 3                      | 2.08                 | 1.1                    | 36                     | 15                     | 45                     | 7.25                 |
| CC121138           |                                   | 0.40                       | 1.385                  | 0.8                    | 0.60                 | 8470                   | <10                   | 640                    | <0.5                   | <2                     | 0.74                 | 0.8                    | 76                     | 23                     | 88                     | 8.30                 |
| CC121139           |                                   | 0.28                       | 0.121                  | 0.7                    | 0.86                 | 978                    | <10                   | 470                    | 0.5                    | <2                     | 0.90                 | 1.0                    | 42                     | 18                     | 69                     | 7.24                 |
| CC121140           |                                   | 0.62                       | 1.240                  | 1.4                    | 0.23                 | 9050                   | <10                   | 150                    | <0.5                   | <2                     | 5.26                 | 4.0                    | 26                     | 2                      | 83                     | 7.49                 |
| CC121141           |                                   | 0.38                       | 0.043                  | 4.3                    | 0.20                 | 150                    | <10                   | 160                    | <0.5                   | <2                     | 0.77                 | 3.4                    | 12                     | 6                      | 256                    | 3.69                 |
| CC121142           |                                   | 0.34                       | 0.043                  | 0.3                    | 0.91                 | 289                    | <10                   | 520                    | <0.5                   | 2                      | 0.51                 | 0.5                    | 10                     | 43                     | 49                     | 2.87                 |
| CC121143           |                                   | 0.42                       | 0.175                  | 4.0                    | 0.40                 | 178                    | <10                   | 310                    | <0.5                   | 3                      | 0.31                 | 1.6                    | 7                      | 17                     | 71                     | 2.40                 |
| CC121144           |                                   | 0.40                       | 0.005                  | 0.4                    | 0.55                 | 20                     | <10                   | 120                    | <0.5                   | 2                      | 0.33                 | <0.5                   | 18                     | 7                      | 39                     | 3.17                 |
| CC121145           |                                   | 0.36                       | 0.004                  | 1.5                    | 0.27                 | 25                     | <10                   | 50                     | <0.5                   | <2                     | 5.27                 | 0.7                    | 13                     | 3                      | 28                     | 2.44                 |
| CC121146           |                                   | 0.36                       | 0.002                  | 0.7                    | 0.25                 | 17                     | <10                   | 50                     | <0.5                   | <2                     | 8.9                  | <0.5                   | 13                     | 7                      | 25                     | 2.56                 |
| CC121147           |                                   | 0.26                       | 0.016                  | 0.4                    | 1.27                 | 318                    | <10                   | 580                    | 0.7                    | <2                     | 1.87                 | <0.5                   | 24                     | 43                     | 46                     | 5.33                 |
| CC121148           |                                   | 0.36                       | 0.007                  | 0.2                    | 1.51                 | 253                    | <10                   | 280                    | 0.6                    | <2                     | 1.22                 | <0.5                   | 19                     | 48                     | 40                     | 5.11                 |
| CC121149           |                                   | 0.34                       | 0.001                  | <0.2                   | 1.19                 | <2                     | <10                   | 20                     | <0.5                   | <2                     | 6.08                 | <0.5                   | 13                     | 14                     | 23                     | 2.94                 |
| CC121150           |                                   | 0.36                       | <0.001                 | <0.2                   | 0.15                 | 4                      | <10                   | 50                     | <0.5                   | <2                     | 7.24                 | 0.5                    | 13                     | 2                      | 25                     | 2.73                 |
| CC121151           |                                   | 0.56                       | 0.002                  | 0.4                    | 0.41                 | 10                     | <10                   | 60                     | <0.5                   | <2                     | 4.71                 | 0.5                    | 23                     | 5                      | 32                     | 3.79                 |
| CC121152           |                                   | 0.38                       | 0.008                  | 2.6                    | 0.27                 | 37                     | <10                   | 150                    | <0.5                   | <2                     | 0.51                 | 5.1                    | 9                      | 10                     | 97                     | 3.18                 |
| CC121153           |                                   | 0.42                       | 0.001                  | <0.2                   | 0.32                 | 5                      | <10                   | 70                     | 1.0                    | <2                     | 4.41                 | <0.5                   | 41                     | 4                      | 33                     | 4.76                 |
| CC121154           |                                   | 0.38                       | 0.002                  | 0.3                    | 1.53                 | 7                      | <10                   | 40                     | <0.5                   | 2                      | 5.01                 | <0.5                   | 22                     | 18                     | 29                     | 3.55                 |
| CC121155           |                                   | 0.54                       | 0.002                  | 0.2                    | 0.82                 | 7                      | <10                   | 20                     | <0.5                   | <2                     | 6.18                 | <0.5                   | 15                     | 11                     | 25                     | 2.88                 |
| CC121156           |                                   | 0.34                       | 0.002                  | 0.5                    | 0.36                 | 16                     | <10                   | 50                     | <0.5                   | <2                     | 6.78                 | <0.5                   | 15                     | 8                      | 41                     | 2.60                 |
| CC121157           |                                   | 0.40                       | 0.004                  | 0.7                    | 0.45                 | 26                     | <10                   | 50                     | <0.5                   | 2                      | 9.0                  | <0.5                   | 16                     | 5                      | 27                     | 3.07                 |
| CC121158           |                                   | 0.46                       | 0.003                  | 1.3                    | 0.59                 | 37                     | <10                   | 50                     | <0.5                   | 2                      | 6.31                 | 0.8                    | 21                     | 2                      | 45                     | 3.60                 |
| CC121159           |                                   | 0.48                       | 0.003                  | 0.2                    | 0.30                 | 19                     | <10                   | 50                     | <0.5                   | 2                      | 5.91                 | <0.5                   | 13                     | 2                      | 28                     | 2.80                 |
| CC121160           |                                   | 0.38                       | 2.12                   | 0.8                    | 0.21                 | >10000                 | <10                   | 150                    | <0.5                   | <2                     | 4.54                 | <0.5                   | 46                     | 1                      | 99                     | 10.60                |
| CC121161           |                                   | 0.40                       | 0.183                  | 0.8                    | 0.24                 | 2420                   | <10                   | 140                    | <0.5                   | <2                     | 10.0                 | <0.5                   | 46                     | 53                     | 50                     | 7.16                 |



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Page: 2 - B  
Total # Pages: 3 (A - C)  
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Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11145415**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC121219           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.42                         | 411                         | 1                           | 0.01                         | 36                          | 590                         | 8                           | 0.05                        | 5                           | 2                           | 90                          |
| CC121220           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.03                         | 510                         | <1                          | 0.01                         | 25                          | 360                         | 4                           | 0.09                        | 2                           | 2                           | 29                          |
| CC121221           |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.06                         | 2120                        | 1                           | 0.01                         | 40                          | 410                         | 5                           | 0.04                        | 4                           | 2                           | 19                          |
| CC121222           |                                   | <10                          | <1                          | 0.06                        | 40                           | 0.65                         | 356                         | 3                           | 0.01                         | 34                          | 610                         | 7                           | 0.02                        | 3                           | 2                           | 56                          |
| CC121223           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.84                         | 582                         | <1                          | 0.01                         | 29                          | 480                         | 5                           | 0.02                        | 3                           | 2                           | 144                         |
| CC121224           |                                   | <10                          | <1                          | 0.04                        | 10                           | 1.19                         | 481                         | <1                          | 0.01                         | 16                          | 320                         | 6                           | 0.01                        | 2                           | 2                           | 290                         |
| CC121225           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.13                         | 375                         | 1                           | 0.02                         | 23                          | 790                         | 6                           | 0.06                        | <2                          | 1                           | 72                          |
| CC121227           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.16                         | 1570                        | 5                           | 0.01                         | 32                          | 550                         | 13                          | 0.13                        | 3                           | 2                           | 31                          |
| CC121228           |                                   | <10                          | <1                          | 0.09                        | 30                           | 0.03                         | 350                         | 14                          | 0.01                         | 46                          | 1010                        | 21                          | 0.02                        | 3                           | 2                           | 33                          |
| CC121131           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.31                         | 618                         | 2                           | 0.01                         | 54                          | 590                         | 7                           | 0.03                        | 12                          | 4                           | 102                         |
| CC121132           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.26                         | 670                         | 5                           | 0.01                         | 56                          | 720                         | 9                           | 0.02                        | 7                           | 4                           | 43                          |
| CC121133           |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.13                         | 323                         | 18                          | 0.01                         | 82                          | 2200                        | 21                          | 0.03                        | 15                          | 3                           | 49                          |
| CC121134           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.06                         | 302                         | 16                          | 0.01                         | 34                          | 770                         | 21                          | 0.04                        | 6                           | 2                           | 32                          |
| CC121135           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.93                         | 1685                        | 5                           | 0.01                         | 112                         | 2710                        | 4                           | 0.10                        | 30                          | 6                           | 307                         |
| CC121136           |                                   | 10                           | 1                           | 0.07                        | 20                           | 0.74                         | 1600                        | 4                           | 0.02                         | 248                         | 3760                        | 6                           | 0.02                        | 7                           | 7                           | 152                         |
| CC121137           |                                   | <10                          | <1                          | 0.12                        | 20                           | 0.23                         | 1180                        | 2                           | 0.02                         | 112                         | 3620                        | 6                           | 0.05                        | 16                          | 4                           | 88                          |
| CC121138           |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.22                         | 1875                        | 2                           | 0.01                         | 167                         | 1530                        | 14                          | 0.10                        | 22                          | 6                           | 87                          |
| CC121139           |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.24                         | 1075                        | 3                           | 0.02                         | 157                         | 2060                        | 14                          | 0.06                        | 22                          | 5                           | 62                          |
| CC121140           |                                   | <10                          | <1                          | 0.09                        | <10                          | 1.62                         | 1410                        | 2                           | 0.01                         | 70                          | 2420                        | 4                           | 0.96                        | 21                          | 5                           | 305                         |
| CC121141           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.16                         | 386                         | 11                          | 0.01                         | 67                          | 1970                        | 21                          | 0.07                        | 15                          | 3                           | 92                          |
| CC121142           |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.37                         | 574                         | 2                           | 0.01                         | 58                          | 880                         | 14                          | 0.02                        | 5                           | 3                           | 38                          |
| CC121143           |                                   | <10                          | <1                          | 0.15                        | 10                           | 0.17                         | 198                         | 26                          | 0.01                         | 35                          | 970                         | 82                          | 0.22                        | 18                          | 2                           | 139                         |
| CC121144           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.21                         | 793                         | <1                          | 0.01                         | 49                          | 380                         | 11                          | 0.01                        | 2                           | 2                           | 22                          |
| CC121145           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.61                         | 433                         | <1                          | 0.01                         | 17                          | 730                         | 11                          | 0.01                        | 3                           | 2                           | 100                         |
| CC121146           |                                   | <10                          | <1                          | 0.05                        | 30                           | 0.56                         | 459                         | <1                          | 0.02                         | 35                          | 1070                        | 4                           | 0.01                        | 3                           | 2                           | 178                         |
| CC121147           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.38                         | 879                         | 1                           | 0.02                         | 78                          | 940                         | 8                           | 0.04                        | 4                           | 4                           | 65                          |
| CC121148           |                                   | 10                           | <1                          | 0.05                        | 20                           | 0.41                         | 703                         | 1                           | 0.02                         | 57                          | 640                         | 10                          | 0.03                        | 3                           | 4                           | 54                          |
| CC121149           |                                   | <10                          | <1                          | 0.03                        | 30                           | 0.88                         | 295                         | <1                          | 0.01                         | 28                          | 340                         | 7                           | 0.01                        | <2                          | 2                           | 133                         |
| CC121150           |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.76                         | 437                         | <1                          | 0.01                         | 15                          | 390                         | 4                           | 0.02                        | 2                           | 2                           | 148                         |
| CC121151           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.76                         | 484                         | 2                           | 0.01                         | 52                          | 930                         | 8                           | 0.03                        | 4                           | 2                           | 75                          |
| CC121152           |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.08                         | 163                         | 67                          | 0.01                         | 104                         | 1470                        | 39                          | 0.04                        | 16                          | 2                           | 46                          |
| CC121153           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.80                         | 871                         | 2                           | 0.02                         | 134                         | 480                         | 5                           | 0.02                        | 2                           | 2                           | 69                          |
| CC121154           |                                   | <10                          | 1                           | 0.05                        | 40                           | 1.06                         | 330                         | <1                          | 0.01                         | 49                          | 440                         | 12                          | 0.02                        | 3                           | 2                           | 120                         |
| CC121155           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.93                         | 406                         | <1                          | 0.01                         | 32                          | 510                         | 6                           | 0.02                        | <2                          | 2                           | 154                         |
| CC121156           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.55                         | 479                         | 1                           | 0.02                         | 39                          | 540                         | 8                           | 0.02                        | 2                           | 2                           | 171                         |
| CC121157           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.76                         | 579                         | <1                          | 0.02                         | 37                          | 550                         | 5                           | 0.02                        | 2                           | 3                           | 184                         |
| CC121158           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.88                         | 672                         | 1                           | 0.01                         | 42                          | 700                         | 6                           | 0.02                        | 5                           | 3                           | 159                         |
| CC121159           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.80                         | 489                         | <1                          | 0.01                         | 21                          | 560                         | 6                           | 0.02                        | 3                           | 2                           | 143                         |
| CC121160           |                                   | <10                          | 1                           | 0.08                        | 10                           | 1.01                         | 1920                        | <1                          | 0.02                         | 89                          | 4550                        | 3                           | 0.13                        | 43                          | 4                           | 429                         |
| CC121161           |                                   | <10                          | <1                          | 0.08                        | 10                           | 2.11                         | 1515                        | 1                           | 0.02                         | 284                         | 960                         | 2                           | 0.11                        | 19                          | 11                          | 405                         |



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 12- SEP- 2011  
 Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11145415**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| CC121219           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       |
| CC121220           |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       |
| CC121221           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       |
| CC121222           |                                   | 20        | <0.01     | <10       | <10       | 4         | <10       |
| CC121223           |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       |
| CC121224           |                                   | <20       | <0.01     | <10       | <10       | <1        | <10       |
| CC121225           |                                   | <20       | 0.01      | <10       | <10       | 6         | <10       |
| CC121227           |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       |
| CC121228           |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       |
| CC121131           |                                   | 20        | <0.01     | <10       | <10       | 6         | 10        |
| CC121132           |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       |
| CC121133           |                                   | <20       | <0.01     | <10       | <10       | 43        | <10       |
| CC121134           |                                   | <20       | <0.01     | <10       | <10       | 19        | 10        |
| CC121135           |                                   | <20       | <0.01     | <10       | <10       | 9         | <10       |
| CC121136           |                                   | <20       | <0.01     | <10       | <10       | 38        | <10       |
| CC121137           |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       |
| CC121138           |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       |
| CC121139           |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       |
| CC121140           |                                   | <20       | <0.01     | <10       | <10       | 15        | 10        |
| CC121141           |                                   | <20       | <0.01     | <10       | <10       | 15        | 10        |
| CC121142           |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       |
| CC121143           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       |
| CC121144           |                                   | <20       | <0.01     | <10       | <10       | 5         | <10       |
| CC121145           |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       |
| CC121146           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       |
| CC121147           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       |
| CC121148           |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       |
| CC121149           |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       |
| CC121150           |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       |
| CC121151           |                                   | 20        | <0.01     | <10       | <10       | 4         | <10       |
| CC121152           |                                   | <20       | <0.01     | <10       | <10       | 103       | <10       |
| CC121153           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       |
| CC121154           |                                   | 20        | <0.01     | <10       | <10       | 9         | <10       |
| CC121155           |                                   | <20       | <0.01     | <10       | <10       | 5         | <10       |
| CC121156           |                                   | <20       | <0.01     | <10       | <10       | 4         | <10       |
| CC121157           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       |
| CC121158           |                                   | <20       | <0.01     | <10       | <10       | 5         | <10       |
| CC121159           |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       |
| CC121160           |                                   | <20       | <0.01     | <10       | <10       | 9         | <10       |
| CC121161           |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       |



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Page: 3 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 12- SEP- 2011  
Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11145415**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC121162           |                                   | 0.40                       | 0.121                  | 0.8                    | 0.50                 | 2040                   | <10                   | 290                    | <0.5                   | <2                     | 2.92                 | <0.5                   | 96                     | 34                     | 160                    | 8.25                 |
| CC121163           |                                   | 0.48                       | 0.135                  | 1.0                    | 0.30                 | 1260                   | <10                   | 160                    | <0.5                   | <2                     | 7.9                  | 1.6                    | 43                     | 27                     | 123                    | 6.45                 |
| CC121164           |                                   | 0.26                       | 0.005                  | <0.2                   | 2.85                 | 66                     | <10                   | 300                    | <0.5                   | 2                      | 1.34                 | <0.5                   | 31                     | 85                     | 79                     | 7.80                 |
| CC121165           |                                   | 0.36                       | 0.010                  | <0.2                   | 2.37                 | 75                     | <10                   | 340                    | 0.5                    | <2                     | 0.98                 | <0.5                   | 28                     | 68                     | 75                     | 6.72                 |
| CC121166           |                                   | 0.40                       | 0.032                  | 1.2                    | 1.03                 | 261                    | <10                   | 390                    | 0.5                    | <2                     | 0.70                 | 0.9                    | 13                     | 34                     | 91                     | 3.92                 |
| CC121167           |                                   | 0.38                       | 0.066                  | 1.9                    | 1.01                 | 238                    | <10                   | 560                    | 0.5                    | <2                     | 0.88                 | 1.1                    | 11                     | 29                     | 156                    | 3.42                 |
| CC121168           |                                   | 0.40                       | 0.039                  | 1.3                    | 1.07                 | 100                    | <10                   | 500                    | 0.5                    | 3                      | 0.65                 | 1.3                    | 12                     | 33                     | 137                    | 3.01                 |
| CC121169           |                                   | 0.36                       | 0.013                  | 0.2                    | 0.40                 | 226                    | <10                   | 260                    | <0.5                   | <2                     | 2.50                 | 0.7                    | 139                    | 16                     | 138                    | 12.35                |
| CC121170           |                                   | 0.34                       | 0.004                  | <0.2                   | 0.34                 | 45                     | <10                   | 310                    | <0.5                   | <2                     | 2.42                 | 0.5                    | 42                     | 21                     | 111                    | 11.35                |
| CC121171           |                                   | 0.34                       | 0.383                  | 0.6                    | 1.02                 | 4260                   | <10                   | 400                    | <0.5                   | <2                     | 0.99                 | 0.7                    | 19                     | 26                     | 70                     | 5.83                 |
| CC121172           |                                   | 0.34                       | 0.011                  | 0.9                    | 0.49                 | 32                     | <10                   | 220                    | <0.5                   | 2                      | 0.34                 | 0.6                    | 5                      | 10                     | 35                     | 1.08                 |
| CC121173           |                                   | 0.28                       | 0.011                  | 2.3                    | 0.63                 | 63                     | <10                   | 380                    | <0.5                   | 2                      | 0.51                 | 0.7                    | 18                     | 14                     | 43                     | 1.65                 |
| CC121174           |                                   | 0.42                       | 0.045                  | 0.7                    | 1.30                 | 174                    | <10                   | 430                    | 0.6                    | 2                      | 0.51                 | 1.3                    | 12                     | 48                     | 81                     | 3.50                 |
| CC121175           |                                   | 0.30                       | 0.052                  | 1.1                    | 1.01                 | 391                    | <10                   | 460                    | <0.5                   | 3                      | 0.46                 | 1.7                    | 13                     | 33                     | 136                    | 3.73                 |
| CC121176           |                                   | 0.38                       | 0.035                  | 0.5                    | 0.74                 | 238                    | <10                   | 400                    | <0.5                   | <2                     | 0.42                 | 0.7                    | 8                      | 24                     | 65                     | 2.59                 |
| CC121177           |                                   | 0.34                       | 0.033                  | 1.4                    | 1.15                 | 274                    | <10                   | 700                    | <0.5                   | <2                     | 0.61                 | 0.8                    | 10                     | 32                     | 72                     | 3.12                 |
| CC121178           |                                   | 0.38                       | 0.005                  | 0.6                    | 0.22                 | 36                     | <10                   | 60                     | <0.5                   | 3                      | 6.46                 | 0.8                    | 13                     | 4                      | 39                     | 2.69                 |
| CC121179           |                                   | 0.42                       | 0.023                  | 1.3                    | 1.36                 | 131                    | <10                   | 500                    | 0.6                    | <2                     | 0.52                 | 1.0                    | 12                     | 36                     | 76                     | 3.36                 |
| CC121180           |                                   | 0.38                       | 0.053                  | 0.7                    | 0.35                 | 529                    | <10                   | 120                    | <0.5                   | <2                     | 4.58                 | 0.6                    | 19                     | 8                      | 42                     | 3.44                 |
| CC121181           |                                   | 0.38                       | 0.041                  | 0.8                    | 0.58                 | 122                    | <10                   | 50                     | <0.5                   | <2                     | 2.74                 | 1.0                    | 20                     | 2                      | 52                     | 2.67                 |
| CC121182           |                                   | 0.32                       | 0.531                  | 2.0                    | 0.44                 | 4710                   | <10                   | 170                    | 0.5                    | <2                     | 0.97                 | 28.0                   | 15                     | 8                      | 229                    | 6.33                 |
| CC121183           |                                   | 0.30                       | 0.478                  | 0.6                    | 0.54                 | 5350                   | <10                   | 300                    | 0.5                    | <2                     | 2.29                 | <0.5                   | 56                     | 13                     | 41                     | 11.35                |
| CC121184           |                                   | 0.40                       | 0.731                  | 0.9                    | 0.34                 | 7050                   | <10                   | 230                    | <0.5                   | <2                     | 3.08                 | <0.5                   | 54                     | 21                     | 86                     | 9.35                 |
| CC121185           |                                   | 0.34                       | 1.490                  | 0.9                    | 0.26                 | >10000                 | <10                   | 350                    | <0.5                   | 2                      | 4.23                 | <0.5                   | 67                     | 23                     | 55                     | 11.95                |
| CC121186           |                                   | 0.70                       | 1.945                  | 1.0                    | 0.13                 | >10000                 | <10                   | 110                    | <0.5                   | <2                     | 5.31                 | <0.5                   | 72                     | 21                     | 35                     | 17.1                 |
| CC121187           |                                   | 0.50                       | 0.006                  | 0.8                    | 0.16                 | 102                    | <10                   | 80                     | <0.5                   | <2                     | 5.90                 | 0.7                    | 31                     | 2                      | 35                     | 2.94                 |
| CC121188           |                                   | 0.40                       | 1.895                  | 1.6                    | 0.49                 | >10000                 | <10                   | 340                    | <0.5                   | <2                     | 2.96                 | 1.8                    | 52                     | 23                     | 51                     | 17.9                 |
| CC121189           |                                   | 0.32                       | 0.475                  | 1.4                    | 0.20                 | 9050                   | <10                   | 50                     | <0.5                   | 2                      | 1.11                 | 49.7                   | 6                      | 4                      | 31                     | 5.36                 |
| CC121190           |                                   | 0.44                       | 0.702                  | 1.2                    | 0.39                 | >10000                 | <10                   | 300                    | <0.5                   | <2                     | 2.99                 | 6.1                    | 38                     | 7                      | 65                     | 10.65                |
| CC121191           |                                   | 0.44                       | 1.525                  | 1.4                    | 0.62                 | >10000                 | <10                   | 300                    | <0.5                   | <2                     | 2.38                 | 1.3                    | 39                     | 22                     | 59                     | 12.45                |
| CC121192           |                                   | 0.32                       | 0.008                  | 0.2                    | 0.36                 | 65                     | <10                   | 160                    | <0.5                   | 3                      | 0.40                 | <0.5                   | 10                     | 5                      | 78                     | 3.30                 |
| CC121193           |                                   | 0.40                       | 0.022                  | 0.6                    | 0.82                 | 239                    | <10                   | 300                    | <0.5                   | <2                     | 1.75                 | 0.9                    | 39                     | 26                     | 97                     | 6.66                 |
| CC121194           |                                   | 0.30                       | 0.057                  | 0.5                    | 0.88                 | 466                    | <10                   | 290                    | <0.5                   | <2                     | 1.26                 | 0.8                    | 29                     | 20                     | 57                     | 5.91                 |
| CC121195           |                                   | 0.40                       | 0.095                  | 0.5                    | 0.97                 | 844                    | <10                   | 220                    | <0.5                   | <2                     | 1.75                 | 2.4                    | 41                     | 37                     | 65                     | 6.90                 |
| CC121196           |                                   | 0.38                       | 0.329                  | 0.8                    | 0.48                 | 4370                   | <10                   | 160                    | 0.6                    | <2                     | 4.80                 | <0.5                   | 62                     | 34                     | 136                    | 7.39                 |
| CC121197           |                                   | 0.42                       | 0.331                  | 1.9                    | 0.66                 | 3550                   | <10                   | 220                    | <0.5                   | <2                     | 4.85                 | <0.5                   | 37                     | 27                     | 134                    | 4.89                 |
| CC121198           |                                   | 0.38                       | 0.003                  | <0.2                   | 0.61                 | 21                     | <10                   | 30                     | <0.5                   | <2                     | 9.2                  | 0.8                    | 14                     | 9                      | 31                     | 3.06                 |
| CC121199           |                                   | 0.36                       | 0.003                  | <0.2                   | 0.91                 | 20                     | <10                   | 50                     | <0.5                   | <2                     | 5.87                 | <0.5                   | 13                     | 13                     | 32                     | 3.51                 |
| CC121200           |                                   | 0.38                       | 0.003                  | <0.2                   | 1.96                 | 12                     | <10                   | 60                     | <0.5                   | <2                     | 3.60                 | <0.5                   | 15                     | 29                     | 32                     | 3.13                 |



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Page: 3 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 12- SEP- 2011  
Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11145415**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC121162           |                                   | <10                          | <1                          | 0.06                        | 10                           | 1.01                         | 1435                        | 1                           | 0.01                         | 388                         | 940                         | 7                           | 0.07                        | 37                          | 10                          | 151                         |
| CC121163           |                                   | <10                          | <1                          | 0.08                        | 10                           | 2.22                         | 1475                        | 2                           | 0.02                         | 218                         | 1980                        | 2                           | 0.12                        | 36                          | 8                           | 347                         |
| CC121164           |                                   | 10                           | 1                           | 0.07                        | 20                           | 1.20                         | 744                         | 1                           | 0.01                         | 117                         | 1450                        | 5                           | 0.03                        | 2                           | 6                           | 68                          |
| CC121165           |                                   | 10                           | 1                           | 0.07                        | 20                           | 0.96                         | 948                         | 2                           | 0.01                         | 97                          | 1640                        | 11                          | 0.03                        | 2                           | 6                           | 60                          |
| CC121166           |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.51                         | 408                         | 10                          | 0.01                         | 79                          | 1530                        | 20                          | 0.03                        | 10                          | 4                           | 65                          |
| CC121167           |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.35                         | 415                         | 12                          | 0.01                         | 63                          | 2980                        | 27                          | 0.07                        | 30                          | 3                           | 173                         |
| CC121168           |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.40                         | 462                         | 7                           | 0.01                         | 65                          | 2140                        | 19                          | 0.03                        | 17                          | 4                           | 102                         |
| CC121169           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.80                         | 655                         | 10                          | 0.02                         | 251                         | 2700                        | 11                          | 1.20                        | 20                          | 7                           | 90                          |
| CC121170           |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.77                         | 769                         | 4                           | 0.01                         | 274                         | 1170                        | 6                           | 0.87                        | 2                           | 10                          | 70                          |
| CC121171           |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.18                         | 371                         | 2                           | 0.02                         | 86                          | 1520                        | 11                          | 0.06                        | 13                          | 7                           | 65                          |
| CC121172           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.10                         | 210                         | 5                           | 0.03                         | 25                          | 900                         | 15                          | 0.05                        | 3                           | 1                           | 40                          |
| CC121173           |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.17                         | 1050                        | 8                           | 0.02                         | 31                          | 990                         | 9                           | 0.06                        | 4                           | 1                           | 40                          |
| CC121174           |                                   | 10                           | 1                           | 0.10                        | 20                           | 0.77                         | 572                         | 6                           | 0.02                         | 76                          | 1390                        | 21                          | 0.02                        | 7                           | 5                           | 57                          |
| CC121175           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.37                         | 517                         | 8                           | 0.01                         | 60                          | 1760                        | 19                          | 0.02                        | 31                          | 3                           | 63                          |
| CC121176           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.26                         | 291                         | 6                           | 0.02                         | 43                          | 1420                        | 13                          | 0.03                        | 9                           | 2                           | 52                          |
| CC121177           |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.35                         | 593                         | 11                          | 0.01                         | 44                          | 1620                        | 15                          | 0.03                        | 7                           | 3                           | 55                          |
| CC121178           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.88                         | 575                         | 2                           | 0.01                         | 26                          | 570                         | 5                           | 0.04                        | 4                           | 2                           | 132                         |
| CC121179           |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.36                         | 399                         | 12                          | 0.02                         | 66                          | 1490                        | 22                          | 0.03                        | 9                           | 3                           | 59                          |
| CC121180           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.62                         | 585                         | 5                           | 0.02                         | 70                          | 860                         | 7                           | 0.05                        | 6                           | 3                           | 122                         |
| CC121181           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.85                         | 398                         | 8                           | 0.01                         | 75                          | 740                         | 14                          | 0.06                        | 9                           | 2                           | 114                         |
| CC121182           |                                   | <10                          | <1                          | 0.12                        | 10                           | 0.31                         | 426                         | 18                          | 0.02                         | 131                         | 1240                        | 225                         | 0.25                        | 55                          | 3                           | 228                         |
| CC121183           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.48                         | 1720                        | 3                           | 0.02                         | 204                         | 5980                        | 17                          | 0.19                        | 13                          | 7                           | 145                         |
| CC121184           |                                   | <10                          | <1                          | 0.05                        | 20                           | 1.04                         | 1705                        | 1                           | 0.01                         | 239                         | 1480                        | 9                           | 0.07                        | 21                          | 11                          | 130                         |
| CC121185           |                                   | <10                          | <1                          | 0.05                        | 20                           | 1.48                         | 1825                        | 1                           | 0.01                         | 255                         | 1490                        | 9                           | 0.05                        | 25                          | 14                          | 208                         |
| CC121186           |                                   | <10                          | <1                          | 0.04                        | 10                           | 2.36                         | 2400                        | 1                           | 0.01                         | 289                         | 390                         | 5                           | 0.20                        | 32                          | 15                          | 410                         |
| CC121187           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.90                         | 912                         | <1                          | 0.01                         | 26                          | 510                         | 6                           | 0.07                        | 5                           | 2                           | 162                         |
| CC121188           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.03                         | 1730                        | 2                           | 0.01                         | 292                         | 1460                        | 49                          | 0.06                        | 40                          | 12                          | 107                         |
| CC121189           |                                   | <10                          | <1                          | 0.06                        | 30                           | 0.35                         | 518                         | 1                           | 0.01                         | 34                          | 1270                        | 164                         | 0.03                        | 25                          | 7                           | 61                          |
| CC121190           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.51                         | 1910                        | 1                           | 0.02                         | 73                          | 2510                        | 121                         | 0.08                        | 23                          | 6                           | 92                          |
| CC121191           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.72                         | 1760                        | 3                           | 0.01                         | 167                         | 3460                        | 27                          | 0.05                        | 27                          | 8                           | 117                         |
| CC121192           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.23                         | 673                         | 1                           | 0.01                         | 40                          | 680                         | 12                          | 0.21                        | 3                           | 3                           | 44                          |
| CC121193           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.37                         | 1650                        | 4                           | 0.01                         | 137                         | 1970                        | 14                          | 0.03                        | 11                          | 5                           | 50                          |
| CC121194           |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.35                         | 969                         | 2                           | 0.01                         | 88                          | 2760                        | 12                          | 0.07                        | 7                           | 4                           | 57                          |
| CC121195           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.78                         | 1425                        | 3                           | 0.01                         | 164                         | 1630                        | 114                         | 0.03                        | 11                          | 7                           | 50                          |
| CC121196           |                                   | <10                          | <1                          | 0.09                        | 10                           | 1.27                         | 1300                        | 2                           | 0.01                         | 344                         | 1290                        | 11                          | 0.03                        | 66                          | 13                          | 90                          |
| CC121197           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.90                         | 840                         | 2                           | 0.01                         | 101                         | 1100                        | 24                          | 0.03                        | 21                          | 7                           | 86                          |
| CC121198           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.53                         | 473                         | <1                          | 0.01                         | 25                          | 570                         | 4                           | 0.02                        | 2                           | 4                           | 89                          |
| CC121199           |                                   | <10                          | 1                           | 0.03                        | 20                           | 0.54                         | 513                         | <1                          | 0.01                         | 29                          | 630                         | 9                           | 0.02                        | 2                           | 3                           | 102                         |
| CC121200           |                                   | 10                           | <1                          | 0.02                        | 30                           | 1.18                         | 219                         | <1                          | 0.01                         | 37                          | 630                         | 10                          | 0.04                        | <2                          | 3                           | 84                          |



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Page: 3 - C  
Total # Pages: 3 (A - C)  
Finalized Date: 12- SEP- 2011  
Account: F

Project: String- Wolverine

**CERTIFICATE OF ANALYSIS WH11145415**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| CC121162           |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       |
| CC121163           |                                   | <20       | <0.01     | <10       | <10       | 16        | 10        |
| CC121164           |                                   | <20       | 0.01      | <10       | <10       | 47        | <10       |
| CC121165           |                                   | <20       | 0.02      | <10       | <10       | 50        | <10       |
| CC121166           |                                   | <20       | 0.01      | <10       | <10       | 47        | <10       |
| CC121167           |                                   | <20       | 0.01      | <10       | <10       | 58        | <10       |
| CC121168           |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       |
| CC121169           |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       |
| CC121170           |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       |
| CC121171           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       |
| CC121172           |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       |
| CC121173           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       |
| CC121174           |                                   | <20       | 0.03      | <10       | <10       | 57        | <10       |
| CC121175           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       |
| CC121176           |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       |
| CC121177           |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       |
| CC121178           |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       |
| CC121179           |                                   | <20       | 0.01      | <10       | <10       | 58        | <10       |
| CC121180           |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       |
| CC121181           |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       |
| CC121182           |                                   | <20       | <0.01     | <10       | 10        | 24        | <10       |
| CC121183           |                                   | <20       | <0.01     | <10       | 10        | 14        | <10       |
| CC121184           |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       |
| CC121185           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       |
| CC121186           |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       |
| CC121187           |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       |
| CC121188           |                                   | <20       | <0.01     | <10       | <10       | 21        | <10       |
| CC121189           |                                   | <20       | <0.01     | <10       | <10       | 4         | <10       |
| CC121190           |                                   | <20       | <0.01     | <10       | <10       | 17        | <10       |
| CC121191           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       |
| CC121192           |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       |
| CC121193           |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       |
| CC121194           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       |
| CC121195           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       |
| CC121196           |                                   | <20       | <0.01     | <10       | <10       | 22        | <10       |
| CC121197           |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       |
| CC121198           |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       |
| CC121199           |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       |
| CC121200           |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       |



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Page: 1  
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Account: F

**CERTIFICATE WH11146304**

Project: Wolverine- String

P.O. No.:

This report is for 66 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- QC  | Crushing QC Test               |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 5- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146304**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| I359447            |                                   | 0.17                       | 0.005                 | <0.2                   | 0.92                 | 272                    | <10                   | 730                    | 0.5                    | 6                      | 1.73                 | 0.9                    | 70                     | 17                     | 10                     | 11.65                |
| I359448            |                                   | 0.23                       | <0.005                | 0.3                    | 0.44                 | 79                     | <10                   | 510                    | <0.5                   | 4                      | 8.4                  | <0.5                   | 31                     | 11                     | 39                     | 10.40                |
| I359449            |                                   | 1.38                       | <0.005                | <0.2                   | 1.01                 | 22                     | <10                   | 110                    | <0.5                   | 4                      | 6.66                 | <0.5                   | 12                     | 10                     | 20                     | 3.51                 |
| I359450            |                                   | 1.23                       | <0.005                | <0.2                   | 1.09                 | 161                    | <10                   | 150                    | <0.5                   | 4                      | 8.3                  | <0.5                   | 13                     | 14                     | 20                     | 4.43                 |
| I359457            |                                   | 1.57                       | 0.015                 | 0.3                    | 0.65                 | 16                     | <10                   | 800                    | <0.5                   | 4                      | 0.78                 | 1.5                    | 5                      | 24                     | 59                     | 1.60                 |
| I359458            |                                   | 1.39                       | 0.011                 | 0.2                    | 0.82                 | 12                     | <10                   | 370                    | <0.5                   | 4                      | 0.47                 | 1.9                    | 8                      | 29                     | 48                     | 2.47                 |
| I359459            |                                   | 1.28                       | 0.008                 | 0.4                    | 0.47                 | 13                     | <10                   | 280                    | <0.5                   | 4                      | 0.84                 | 6.8                    | 5                      | 9                      | 97                     | 2.28                 |
| I359460            |                                   | 1.38                       | 0.006                 | 0.3                    | 0.66                 | 22                     | <10                   | 900                    | <0.5                   | 4                      | 0.28                 | 0.7                    | 6                      | 23                     | 35                     | 1.76                 |
| I359461            |                                   | 0.98                       | <0.005                | <0.2                   | 0.74                 | 11                     | <10                   | 2870                   | <0.5                   | 4                      | 0.58                 | 0.7                    | 7                      | 25                     | 25                     | 1.56                 |
| I359462            |                                   | 1.29                       | <0.005                | <0.2                   | 0.73                 | 10                     | <10                   | 1680                   | <0.5                   | 3                      | 0.40                 | 1.3                    | 11                     | 84                     | 20                     | 1.79                 |
| I359463            |                                   | 1.36                       | <0.005                | <0.2                   | 0.41                 | 17                     | <10                   | 1450                   | <0.5                   | 5                      | 0.17                 | 1.1                    | 5                      | 16                     | 20                     | 1.77                 |
| I359464            |                                   | 1.54                       | 0.007                 | 0.2                    | 0.34                 | 16                     | <10                   | 790                    | <0.5                   | 4                      | 0.02                 | <0.5                   | 3                      | 8                      | 103                    | 1.38                 |
| I359465            |                                   | 1.44                       | 0.013                 | 0.3                    | 0.37                 | 20                     | <10                   | 920                    | <0.5                   | 4                      | 0.04                 | <0.5                   | 4                      | 11                     | 41                     | 1.20                 |
| I359466            |                                   | 1.52                       | <0.005                | <0.2                   | 0.66                 | 10                     | <10                   | 880                    | <0.5                   | 4                      | 0.14                 | <0.5                   | 8                      | 33                     | 32                     | 1.72                 |
| I359467            |                                   | 1.31                       | 0.011                 | 0.2                    | 0.44                 | 11                     | <10                   | 310                    | <0.5                   | 4                      | 0.03                 | <0.5                   | 3                      | 12                     | 58                     | 1.35                 |
| I359468            |                                   | 1.37                       | 0.005                 | <0.2                   | 0.33                 | 10                     | <10                   | 250                    | <0.5                   | 3                      | 0.13                 | <0.5                   | 4                      | 9                      | 22                     | 1.33                 |
| I359469            |                                   | 1.45                       | <0.005                | 0.2                    | 0.31                 | 14                     | <10                   | 400                    | <0.5                   | 3                      | 0.12                 | 0.6                    | 5                      | 13                     | 21                     | 1.84                 |
| I359470            |                                   | 1.52                       | <0.005                | 0.2                    | 0.36                 | 14                     | <10                   | 510                    | <0.5                   | 5                      | 0.13                 | <0.5                   | 4                      | 20                     | 28                     | 1.36                 |
| I359471            |                                   | 1.33                       | 0.037                 | 0.6                    | 0.34                 | 54                     | <10                   | 200                    | <0.5                   | 3                      | 0.03                 | 0.9                    | 2                      | 11                     | 61                     | 1.29                 |
| I359472            |                                   | 1.53                       | 0.023                 | 0.7                    | 0.40                 | 68                     | <10                   | 210                    | <0.5                   | 4                      | 0.03                 | 1.1                    | 2                      | 11                     | 117                    | 1.39                 |
| I359473            |                                   | 1.60                       | 0.014                 | 0.2                    | 0.24                 | 21                     | <10                   | 220                    | <0.5                   | 3                      | 0.01                 | <0.5                   | 1                      | 7                      | 25                     | 0.94                 |
| I359474            |                                   | 1.62                       | 0.011                 | 0.3                    | 0.29                 | 30                     | <10                   | 200                    | <0.5                   | <2                     | 0.01                 | 0.5                    | 3                      | 11                     | 62                     | 1.31                 |
| I359475            |                                   | 1.35                       | 0.008                 | 0.2                    | 0.36                 | 36                     | <10                   | 190                    | <0.5                   | <2                     | 0.05                 | 0.6                    | 3                      | 11                     | 56                     | 1.65                 |
| I359476            |                                   | 1.45                       | 0.014                 | 0.3                    | 0.31                 | 47                     | <10                   | 210                    | <0.5                   | <2                     | 0.02                 | 0.6                    | 3                      | 11                     | 51                     | 1.62                 |
| I359477            |                                   | 1.23                       | 0.015                 | 0.3                    | 0.30                 | 32                     | <10                   | 230                    | <0.5                   | <2                     | 0.01                 | <0.5                   | 2                      | 9                      | 41                     | 1.18                 |
| I359478            |                                   | 1.35                       | 0.016                 | 0.4                    | 0.24                 | 37                     | <10                   | 190                    | <0.5                   | <2                     | 0.02                 | <0.5                   | 2                      | 8                      | 40                     | 1.40                 |
| I359479            |                                   | 0.85                       | 0.014                 | 0.6                    | 0.61                 | 45                     | <10                   | 710                    | <0.5                   | <2                     | 0.64                 | 2.0                    | 5                      | 9                      | 76                     | 1.51                 |
| I359480            |                                   | 1.48                       | 0.013                 | 0.6                    | 0.48                 | 26                     | <10                   | 600                    | <0.5                   | <2                     | 0.26                 | 4.2                    | 6                      | 8                      | 85                     | 1.91                 |
| I359481            |                                   | 1.30                       | 0.046                 | 0.6                    | 0.52                 | 76                     | <10                   | 620                    | <0.5                   | <2                     | 0.17                 | 2.0                    | 6                      | 8                      | 60                     | 2.15                 |
| I359482            |                                   | 1.31                       | 0.104                 | 0.7                    | 0.58                 | 62                     | <10                   | 620                    | <0.5                   | <2                     | 0.65                 | 1.9                    | 8                      | 13                     | 76                     | 1.96                 |
| I359483            |                                   | 1.06                       | 0.159                 | 1.1                    | 0.49                 | 65                     | <10                   | 540                    | <0.5                   | <2                     | 0.21                 | 1.7                    | 10                     | 8                      | 72                     | 2.21                 |
| I359484            |                                   | 1.41                       | 0.086                 | 0.7                    | 0.63                 | 106                    | <10                   | 680                    | <0.5                   | <2                     | 0.48                 | 2.7                    | 7                      | 10                     | 72                     | 2.16                 |
| I359485            |                                   | 1.23                       | 0.090                 | 0.5                    | 0.54                 | 118                    | <10                   | 520                    | <0.5                   | <2                     | 0.70                 | 1.7                    | 7                      | 10                     | 82                     | 2.17                 |
| I359486            |                                   | 1.08                       | 0.081                 | 0.8                    | 0.82                 | 88                     | <10                   | 850                    | 0.5                    | <2                     | 2.60                 | 2.8                    | 8                      | 15                     | 174                    | 2.72                 |
| I359487            |                                   | 1.57                       | 0.081                 | 1.1                    | 0.56                 | 87                     | <10                   | 640                    | <0.5                   | <2                     | 0.48                 | 2.3                    | 8                      | 8                      | 121                    | 2.36                 |
| I359488            |                                   | 1.08                       | <0.005                | 0.4                    | 0.34                 | 26                     | <10                   | 250                    | <0.5                   | <2                     | 0.10                 | <0.5                   | 3                      | 6                      | 34                     | 1.23                 |
| I359489            |                                   | 1.49                       | <0.005                | 0.6                    | 0.58                 | 30                     | <10                   | 370                    | <0.5                   | <2                     | 0.77                 | 1.0                    | 6                      | 10                     | 70                     | 1.88                 |
| I359490            |                                   | 1.09                       | 0.010                 | 0.5                    | 0.58                 | 30                     | <10                   | 380                    | <0.5                   | <2                     | 0.87                 | 0.7                    | 10                     | 27                     | 59                     | 1.98                 |
| I359491            |                                   | 1.02                       | 0.009                 | 0.4                    | 0.46                 | 27                     | <10                   | 320                    | <0.5                   | <2                     | 0.44                 | 0.6                    | 6                      | 8                      | 58                     | 2.20                 |
| I359492            |                                   | 0.71                       | 0.007                 | 0.2                    | 0.42                 | 112                    | <10                   | 320                    | <0.5                   | <2                     | 0.08                 | 1.6                    | 12                     | 9                      | 66                     | 3.62                 |



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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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Page: 2 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 5- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146304**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| I359447            |                                   | <10                          | <1                          | 0.48                        | 30                           | 0.34                         | 2640                        | 1                           | 0.01                         | 164                         | 3770                        | 5                           | 0.02                        | <2                          | 5                           | 48                          |
| I359448            |                                   | <10                          | <1                          | 0.27                        | 20                           | 1.47                         | 2760                        | 2                           | 0.01                         | 47                          | 2070                        | 37                          | 0.02                        | 7                           | 3                           | 119                         |
| I359449            |                                   | <10                          | <1                          | 0.17                        | 20                           | 0.74                         | 704                         | <1                          | 0.01                         | 22                          | 420                         | 13                          | 0.02                        | <2                          | 2                           | 218                         |
| I359450            |                                   | <10                          | <1                          | 0.18                        | 20                           | 0.92                         | 868                         | <1                          | 0.01                         | 29                          | 520                         | 8                           | 0.04                        | <2                          | 3                           | 247                         |
| I359457            |                                   | <10                          | <1                          | 0.21                        | 10                           | 0.24                         | 236                         | 1                           | <0.01                        | 28                          | 2670                        | 8                           | 0.05                        | <2                          | 2                           | 89                          |
| I359458            |                                   | <10                          | <1                          | 0.16                        | 10                           | 0.49                         | 519                         | 1                           | 0.03                         | 28                          | 630                         | 5                           | 0.03                        | 2                           | 4                           | 32                          |
| I359459            |                                   | <10                          | <1                          | 0.15                        | 10                           | 0.44                         | 411                         | 1                           | <0.01                        | 24                          | 380                         | 7                           | 0.02                        | 2                           | 3                           | 52                          |
| I359460            |                                   | <10                          | <1                          | 0.17                        | 10                           | 0.28                         | 475                         | 1                           | 0.01                         | 28                          | 380                         | 5                           | 0.03                        | <2                          | 2                           | 31                          |
| I359461            |                                   | <10                          | <1                          | 0.13                        | 10                           | 0.39                         | 420                         | 1                           | <0.01                        | 17                          | 1670                        | 5                           | 0.08                        | <2                          | 2                           | 96                          |
| I359462            |                                   | <10                          | <1                          | 0.12                        | 10                           | 1.46                         | 384                         | 1                           | 0.02                         | 104                         | 320                         | 5                           | 0.06                        | <2                          | 3                           | 26                          |
| I359463            |                                   | <10                          | <1                          | 0.13                        | 10                           | 0.15                         | 396                         | 1                           | <0.01                        | 16                          | 320                         | 38                          | 0.05                        | 2                           | 2                           | 41                          |
| I359464            |                                   | <10                          | <1                          | 0.17                        | 10                           | 0.04                         | 115                         | 1                           | <0.01                        | 17                          | 130                         | 6                           | 0.03                        | 10                          | 1                           | 12                          |
| I359465            |                                   | <10                          | <1                          | 0.16                        | 10                           | 0.06                         | 289                         | 2                           | <0.01                        | 17                          | 250                         | 7                           | 0.03                        | 2                           | 1                           | 27                          |
| I359466            |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.39                         | 408                         | 1                           | 0.01                         | 28                          | 250                         | 7                           | 0.03                        | 2                           | 2                           | 24                          |
| I359467            |                                   | <10                          | <1                          | 0.16                        | 10                           | 0.10                         | 150                         | 1                           | <0.01                        | 15                          | 170                         | 6                           | 0.02                        | 2                           | 1                           | 16                          |
| I359468            |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.09                         | 348                         | 1                           | <0.01                        | 12                          | 290                         | 5                           | 0.01                        | 2                           | 1                           | 17                          |
| I359469            |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.09                         | 362                         | 2                           | <0.01                        | 10                          | 290                         | 6                           | 0.02                        | 4                           | 2                           | 18                          |
| I359470            |                                   | <10                          | <1                          | 0.09                        | <10                          | 0.15                         | 261                         | 1                           | <0.01                        | 14                          | 200                         | 4                           | 0.02                        | <2                          | 1                           | 12                          |
| I359471            |                                   | <10                          | <1                          | 0.13                        | 10                           | 0.02                         | 75                          | 2                           | <0.01                        | 16                          | 400                         | 5                           | 0.03                        | 8                           | 1                           | 81                          |
| I359472            |                                   | <10                          | <1                          | 0.13                        | 10                           | 0.03                         | 165                         | 2                           | <0.01                        | 27                          | 350                         | 5                           | 0.03                        | 9                           | 1                           | 75                          |
| I359473            |                                   | <10                          | <1                          | 0.13                        | 10                           | 0.02                         | 62                          | 2                           | <0.01                        | 7                           | 180                         | 6                           | 0.03                        | 3                           | 1                           | 34                          |
| I359474            |                                   | <10                          | 1                           | 0.11                        | <10                          | 0.02                         | 188                         | 4                           | 0.01                         | 16                          | 310                         | 6                           | <0.01                       | 3                           | 1                           | 47                          |
| I359475            |                                   | <10                          | <1                          | 0.12                        | 10                           | 0.06                         | 96                          | 4                           | 0.01                         | 17                          | 390                         | 7                           | <0.01                       | 5                           | 1                           | 55                          |
| I359476            |                                   | <10                          | <1                          | 0.13                        | 10                           | 0.02                         | 108                         | 3                           | 0.01                         | 16                          | 470                         | 6                           | <0.01                       | 6                           | 1                           | 93                          |
| I359477            |                                   | <10                          | <1                          | 0.15                        | 10                           | 0.02                         | 68                          | 2                           | 0.01                         | 11                          | 270                         | 6                           | <0.01                       | 5                           | 1                           | 55                          |
| I359478            |                                   | <10                          | <1                          | 0.12                        | 10                           | 0.02                         | 66                          | 3                           | 0.01                         | 12                          | 270                         | 7                           | <0.01                       | 5                           | 1                           | 36                          |
| I359479            |                                   | <10                          | <1                          | 0.31                        | 20                           | 0.06                         | 154                         | 7                           | 0.01                         | 21                          | 3550                        | 13                          | 0.03                        | 4                           | 2                           | 123                         |
| I359480            |                                   | <10                          | <1                          | 0.25                        | 10                           | 0.06                         | 381                         | 3                           | 0.01                         | 30                          | 1720                        | 9                           | 0.04                        | 3                           | 1                           | 90                          |
| I359481            |                                   | <10                          | <1                          | 0.28                        | 10                           | 0.05                         | 102                         | 13                          | 0.01                         | 34                          | 1400                        | 20                          | 0.03                        | 11                          | 1                           | 82                          |
| I359482            |                                   | <10                          | <1                          | 0.27                        | 10                           | 0.06                         | 220                         | 13                          | 0.01                         | 37                          | 3380                        | 21                          | 0.01                        | 19                          | 2                           | 113                         |
| I359483            |                                   | <10                          | <1                          | 0.24                        | 10                           | 0.05                         | 262                         | 14                          | 0.01                         | 47                          | 1530                        | 33                          | 0.01                        | 15                          | 2                           | 55                          |
| I359484            |                                   | <10                          | <1                          | 0.34                        | 10                           | 0.06                         | 163                         | 17                          | 0.01                         | 56                          | 2540                        | 24                          | <0.01                       | 20                          | 2                           | 84                          |
| I359485            |                                   | <10                          | 1                           | 0.24                        | 10                           | 0.07                         | 243                         | 14                          | 0.01                         | 49                          | 3170                        | 17                          | <0.01                       | 21                          | 2                           | 93                          |
| I359486            |                                   | <10                          | <1                          | 0.39                        | 20                           | 0.32                         | 401                         | 10                          | 0.01                         | 61                          | >10000                      | 20                          | 0.04                        | 28                          | 3                           | 387                         |
| I359487            |                                   | <10                          | <1                          | 0.31                        | 10                           | 0.07                         | 163                         | 12                          | 0.01                         | 53                          | 2610                        | 20                          | 0.04                        | 26                          | 2                           | 107                         |
| I359488            |                                   | <10                          | <1                          | 0.22                        | 20                           | 0.02                         | 99                          | 13                          | 0.01                         | 9                           | 610                         | 16                          | 0.06                        | <2                          | 1                           | 28                          |
| I359489            |                                   | <10                          | <1                          | 0.29                        | 20                           | 0.04                         | 540                         | 11                          | 0.01                         | 24                          | 3750                        | 15                          | 0.06                        | 3                           | 2                           | 85                          |
| I359490            |                                   | <10                          | 1                           | 0.28                        | 20                           | 0.06                         | 371                         | 13                          | 0.01                         | 85                          | 4370                        | 15                          | 0.05                        | 4                           | 2                           | 135                         |
| I359491            |                                   | <10                          | <1                          | 0.27                        | 20                           | 0.04                         | 661                         | 3                           | 0.01                         | 14                          | 2240                        | 8                           | <0.01                       | 4                           | 1                           | 41                          |
| I359492            |                                   | <10                          | <1                          | 0.19                        | 20                           | 0.06                         | 742                         | 10                          | 0.01                         | 45                          | 760                         | 8                           | 0.01                        | 7                           | 2                           | 18                          |



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 5- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146304**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| I359447            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 434       |
| I359448            |                                   | <20       | 0.01      | <10       | <10       | 12        | <10       | 187       |
| I359449            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       | 51        |
| I359450            |                                   | <20       | <0.01     | <10       | <10       | 9         | <10       | 56        |
| I359457            |                                   | <20       | 0.04      | <10       | <10       | 33        | <10       | 79        |
| I359458            |                                   | <20       | 0.08      | <10       | <10       | 49        | <10       | 67        |
| I359459            |                                   | <20       | 0.08      | <10       | <10       | 28        | <10       | 100       |
| I359460            |                                   | <20       | 0.05      | <10       | <10       | 36        | <10       | 56        |
| I359461            |                                   | <20       | 0.09      | <10       | <10       | 30        | <10       | 41        |
| I359462            |                                   | <20       | 0.21      | <10       | <10       | 42        | <10       | 40        |
| I359463            |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       | 33        |
| I359464            |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 103       |
| I359465            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 88        |
| I359466            |                                   | <20       | 0.06      | <10       | <10       | 28        | <10       | 70        |
| I359467            |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 83        |
| I359468            |                                   | <20       | 0.01      | <10       | <10       | 10        | <10       | 38        |
| I359469            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 46        |
| I359470            |                                   | <20       | 0.03      | <10       | <10       | 15        | <10       | 47        |
| I359471            |                                   | <20       | <0.01     | <10       | <10       | 48        | <10       | 103       |
| I359472            |                                   | <20       | <0.01     | <10       | <10       | 52        | <10       | 209       |
| I359473            |                                   | <20       | <0.01     | <10       | <10       | 26        | <10       | 49        |
| I359474            |                                   | <20       | <0.01     | <10       | <10       | 30        | <10       | 78        |
| I359475            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 104       |
| I359476            |                                   | <20       | <0.01     | <10       | <10       | 61        | <10       | 119       |
| I359477            |                                   | <20       | <0.01     | <10       | <10       | 29        | <10       | 74        |
| I359478            |                                   | <20       | <0.01     | <10       | <10       | 28        | <10       | 114       |
| I359479            |                                   | <20       | <0.01     | <10       | <10       | 44        | <10       | 119       |
| I359480            |                                   | <20       | <0.01     | <10       | <10       | 23        | <10       | 196       |
| I359481            |                                   | <20       | <0.01     | <10       | <10       | 35        | <10       | 184       |
| I359482            |                                   | <20       | <0.01     | <10       | <10       | 50        | <10       | 159       |
| I359483            |                                   | <20       | <0.01     | <10       | <10       | 29        | <10       | 229       |
| I359484            |                                   | <20       | <0.01     | <10       | <10       | 79        | <10       | 240       |
| I359485            |                                   | <20       | 0.01      | <10       | <10       | 78        | <10       | 234       |
| I359486            |                                   | <20       | 0.01      | <10       | <10       | 71        | <10       | 213       |
| I359487            |                                   | <20       | <0.01     | <10       | <10       | 45        | <10       | 239       |
| I359488            |                                   | <20       | <0.01     | <10       | <10       | 25        | <10       | 63        |
| I359489            |                                   | <20       | <0.01     | <10       | <10       | 48        | <10       | 117       |
| I359490            |                                   | <20       | <0.01     | <10       | <10       | 66        | <10       | 96        |
| I359491            |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       | 140       |
| I359492            |                                   | <20       | <0.01     | <10       | <10       | 24        | <10       | 344       |



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Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 5- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146304**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| I359493            |                                   | 0.58                       | <0.005                | 0.3                    | 0.52                 | 90                     | <10                   | 540                    | <0.5                   | <2                     | 0.80                 | 1.9                    | 37                     | 12                     | 34                     | 8.86                 |
| I359494            |                                   | 0.77                       | <0.005                | 0.3                    | 0.92                 | 36                     | <10                   | 630                    | <0.5                   | <2                     | 0.53                 | 1.4                    | 48                     | 10                     | 41                     | 10.35                |
| I359495            |                                   | 1.66                       | <0.005                | <0.2                   | 1.32                 | 62                     | <10                   | 570                    | <0.5                   | <2                     | 1.59                 | 0.9                    | 50                     | 8                      | 40                     | 10.90                |
| I359496            |                                   | 1.37                       | <0.005                | 0.3                    | 0.92                 | 83                     | <10                   | 620                    | <0.5                   | <2                     | 1.58                 | 1.1                    | 46                     | 17                     | 67                     | 8.78                 |
| I359497            |                                   | 1.11                       | 0.006                 | 0.2                    | 1.18                 | 146                    | <10                   | 650                    | 0.5                    | <2                     | 1.68                 | 1.4                    | 67                     | 9                      | 54                     | 10.85                |
| I359498            |                                   | 1.05                       | <0.005                | <0.2                   | 0.46                 | 2                      | <10                   | 280                    | <0.5                   | <2                     | 3.74                 | 0.6                    | 11                     | 7                      | 16                     | 4.04                 |
| I359499            |                                   | 1.30                       | <0.005                | <0.2                   | 0.44                 | 5                      | <10                   | 180                    | <0.5                   | <2                     | 8.6                  | <0.5                   | 10                     | 5                      | 13                     | 3.95                 |
| I359500            |                                   | 1.38                       | <0.005                | <0.2                   | 0.91                 | 6                      | <10                   | 120                    | <0.5                   | <2                     | 10.8                 | <0.5                   | 8                      | 9                      | 12                     | 2.90                 |
| K270951            |                                   | 1.23                       | <0.005                | <0.2                   | 0.32                 | 71                     | <10                   | 410                    | <0.5                   | <2                     | 7.5                  | <0.5                   | 29                     | 44                     | 37                     | 7.35                 |
| K270952            |                                   | 1.03                       | <0.005                | 0.2                    | 0.33                 | 105                    | <10                   | 410                    | <0.5                   | <2                     | 8.4                  | <0.5                   | 27                     | 45                     | 34                     | 7.31                 |
| K270953            |                                   | 0.43                       | 0.016                 | <0.2                   | 0.30                 | 558                    | <10                   | 280                    | <0.5                   | <2                     | 10.8                 | <0.5                   | 25                     | 47                     | 12                     | 7.98                 |
| K270954            |                                   | 0.41                       | 0.008                 | <0.2                   | 0.05                 | 110                    | <10                   | 40                     | <0.5                   | <2                     | 0.28                 | <0.5                   | 4                      | 14                     | 4                      | 0.67                 |
| K270955            |                                   | 0.54                       | 0.021                 | 0.3                    | 0.44                 | 374                    | <10                   | 390                    | <0.5                   | <2                     | 5.63                 | <0.5                   | 22                     | 5                      | 4                      | 7.49                 |
| K270956            |                                   | 0.27                       | <0.005                | 0.2                    | 0.48                 | 29                     | <10                   | 350                    | <0.5                   | <2                     | 0.20                 | 1.2                    | 11                     | 7                      | 27                     | 3.14                 |
| K270957            |                                   | 0.32                       | <0.005                | <0.2                   | 0.51                 | 24                     | <10                   | 300                    | <0.5                   | <2                     | 0.15                 | <0.5                   | 14                     | 6                      | 62                     | 3.64                 |
| K270958            |                                   | 1.18                       | <0.005                | <0.2                   | 2.14                 | 6                      | <10                   | 150                    | <0.5                   | <2                     | 8.0                  | <0.5                   | 35                     | 169                    | 75                     | 7.07                 |
| K270959            |                                   | 1.48                       | <0.005                | <0.2                   | 0.47                 | 25                     | <10                   | 170                    | <0.5                   | <2                     | 6.63                 | <0.5                   | 14                     | 22                     | 21                     | 4.76                 |
| K270960            |                                   | 1.35                       | <0.005                | <0.2                   | 0.73                 | 8                      | <10                   | 120                    | <0.5                   | <2                     | 8.6                  | <0.5                   | 10                     | 22                     | 22                     | 4.33                 |
| K270961            |                                   | 1.17                       | <0.005                | <0.2                   | 1.03                 | 28                     | <10                   | 140                    | <0.5                   | 2                      | 11.4                 | <0.5                   | 29                     | 128                    | 39                     | 4.71                 |
| K270962            |                                   | 1.34                       | <0.005                | <0.2                   | 1.04                 | 8                      | <10                   | 110                    | <0.5                   | <2                     | 9.1                  | <0.5                   | 9                      | 12                     | 17                     | 3.16                 |
| K270963            |                                   | 1.81                       | <0.005                | <0.2                   | 0.79                 | 11                     | <10                   | 130                    | <0.5                   | <2                     | 13.2                 | <0.5                   | 11                     | 25                     | 17                     | 3.77                 |
| K270964            |                                   | 1.08                       | <0.005                | <0.2                   | 0.91                 | 33                     | <10                   | 160                    | <0.5                   | <2                     | 6.8                  | <0.5                   | 15                     | 17                     | 43                     | 4.47                 |
| K270965            |                                   | 1.32                       | <0.005                | <0.2                   | 1.31                 | 24                     | <10                   | 180                    | <0.5                   | <2                     | 8.5                  | <0.5                   | 26                     | 144                    | 44                     | 4.99                 |
| K270966            |                                   | 0.45                       | 0.009                 | <0.2                   | 0.50                 | 155                    | <10                   | 230                    | <0.5                   | <2                     | 8.4                  | <0.5                   | 20                     | 34                     | 7                      | 6.04                 |
| K270967            |                                   | 0.30                       | 0.005                 | <0.2                   | 0.07                 | 112                    | <10                   | 30                     | <0.5                   | <2                     | 1.69                 | <0.5                   | 2                      | 15                     | 2                      | 0.75                 |
| K270968            |                                   | 0.28                       | 0.009                 | <0.2                   | 0.96                 | 360                    | <10                   | 300                    | <0.5                   | <2                     | 6.86                 | <0.5                   | 70                     | 41                     | 13                     | 8.45                 |



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 Total # Pages: 3 (A - C)  
 Finalized Date: 5- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146304**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| I359493            |                                   | <10                          | <1                          | 0.22                        | 20                           | 0.34                         | 1540                        | 6                           | 0.01                         | 75                          | 1840                        | 3                           | 0.04                        | 3                           | 5                           | 45                          |
| I359494            |                                   | <10                          | <1                          | 0.28                        | 30                           | 0.25                         | 1585                        | 4                           | 0.02                         | 75                          | 2190                        | 4                           | 0.01                        | <2                          | 6                           | 28                          |
| I359495            |                                   | <10                          | <1                          | 0.24                        | 30                           | 0.77                         | 2140                        | 2                           | 0.02                         | 118                         | 2570                        | 3                           | 0.01                        | <2                          | 8                           | 69                          |
| I359496            |                                   | <10                          | <1                          | 0.27                        | 20                           | 0.86                         | 1610                        | 2                           | 0.05                         | 108                         | 2430                        | 4                           | 0.04                        | 2                           | 8                           | 73                          |
| I359497            |                                   | <10                          | <1                          | 0.25                        | 20                           | 0.53                         | 2560                        | 3                           | 0.01                         | 169                         | 3130                        | 8                           | 0.05                        | 10                          | 7                           | 59                          |
| I359498            |                                   | <10                          | <1                          | 0.18                        | 20                           | 0.75                         | 1100                        | <1                          | 0.02                         | 21                          | 640                         | 9                           | 0.01                        | <2                          | 2                           | 113                         |
| I359499            |                                   | <10                          | <1                          | 0.15                        | 10                           | 1.07                         | 876                         | <1                          | 0.02                         | 19                          | 290                         | 8                           | <0.01                       | <2                          | 2                           | 274                         |
| I359500            |                                   | <10                          | <1                          | 0.13                        | 20                           | 0.98                         | 612                         | <1                          | 0.02                         | 22                          | 210                         | 12                          | <0.01                       | <2                          | 2                           | 373                         |
| K270951            |                                   | <10                          | <1                          | 0.18                        | 10                           | 2.61                         | 2320                        | <1                          | 0.02                         | 153                         | 1280                        | 2                           | 0.03                        | 3                           | 10                          | 291                         |
| K270952            |                                   | <10                          | <1                          | 0.19                        | 10                           | 3.02                         | 2080                        | <1                          | 0.02                         | 128                         | 1330                        | 4                           | 0.03                        | 3                           | 10                          | 339                         |
| K270953            |                                   | <10                          | <1                          | 0.19                        | 10                           | 3.81                         | 1485                        | <1                          | 0.01                         | 172                         | 690                         | 3                           | 0.05                        | 5                           | 9                           | 483                         |
| K270954            |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.07                         | 110                         | <1                          | 0.01                         | 16                          | 50                          | <2                          | <0.01                       | <2                          | <1                          | 14                          |
| K270955            |                                   | <10                          | <1                          | 0.26                        | 20                           | 1.71                         | 1060                        | <1                          | 0.02                         | 40                          | 1920                        | 2                           | 0.01                        | <2                          | 4                           | 296                         |
| K270956            |                                   | <10                          | <1                          | 0.25                        | 10                           | 0.05                         | 2800                        | 10                          | 0.01                         | 37                          | 440                         | 13                          | 0.01                        | 2                           | 3                           | 20                          |
| K270957            |                                   | <10                          | <1                          | 0.29                        | 30                           | 0.06                         | 994                         | <1                          | 0.02                         | 27                          | 370                         | 12                          | <0.01                       | 2                           | 2                           | 13                          |
| K270958            |                                   | 10                           | <1                          | 0.14                        | 30                           | 2.63                         | 1470                        | <1                          | 0.02                         | 125                         | 2010                        | 6                           | 0.03                        | <2                          | 8                           | 217                         |
| K270959            |                                   | <10                          | <1                          | 0.15                        | 20                           | 1.71                         | 1180                        | <1                          | 0.02                         | 48                          | 470                         | 7                           | 0.01                        | <2                          | 3                           | 179                         |
| K270960            |                                   | <10                          | <1                          | 0.15                        | 10                           | 2.28                         | 963                         | 1                           | 0.02                         | 37                          | 420                         | 9                           | 0.01                        | <2                          | 3                           | 229                         |
| K270961            |                                   | <10                          | <1                          | 0.16                        | 20                           | 2.85                         | 1175                        | 1                           | 0.02                         | 149                         | 1090                        | 6                           | 0.01                        | <2                          | 4                           | 403                         |
| K270962            |                                   | <10                          | <1                          | 0.16                        | 20                           | 0.72                         | 595                         | <1                          | 0.02                         | 24                          | 330                         | 14                          | <0.01                       | <2                          | 2                           | 279                         |
| K270963            |                                   | <10                          | <1                          | 0.14                        | 10                           | 1.65                         | 831                         | <1                          | 0.02                         | 36                          | 550                         | 7                           | 0.01                        | <2                          | 3                           | 443                         |
| K270964            |                                   | <10                          | <1                          | 0.18                        | 20                           | 0.91                         | 916                         | <1                          | 0.02                         | 44                          | 480                         | 6                           | <0.01                       | <2                          | 3                           | 253                         |
| K270965            |                                   | <10                          | <1                          | 0.19                        | 30                           | 1.42                         | 1085                        | 1                           | 0.02                         | 113                         | 1420                        | 6                           | <0.01                       | <2                          | 4                           | 269                         |
| K270966            |                                   | <10                          | <1                          | 0.15                        | 10                           | 2.29                         | 1205                        | <1                          | 0.02                         | 92                          | 490                         | <2                          | 0.03                        | <2                          | 5                           | 202                         |
| K270967            |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.07                         | 148                         | <1                          | 0.01                         | 7                           | 140                         | <2                          | <0.01                       | <2                          | 1                           | 49                          |
| K270968            |                                   | <10                          | <1                          | 0.24                        | 20                           | 0.29                         | 1910                        | 1                           | 0.02                         | 349                         | 3120                        | <2                          | 0.01                        | 8                           | 9                           | 115                         |



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Page: 3 - C  
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 Finalized Date: 5- SEP- 2011  
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Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146304**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| I359493            |                                   | <20       | <0.01     | <10       | <10       | 24        | <10       | 333       |
| I359494            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 367       |
| I359495            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 474       |
| I359496            |                                   | <20       | 0.04      | <10       | <10       | 36        | <10       | 471       |
| I359497            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 764       |
| I359498            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 69        |
| I359499            |                                   | <20       | <0.01     | <10       | <10       | 5         | <10       | 54        |
| I359500            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 48        |
| K270951            |                                   | <20       | <0.01     | <10       | <10       | 29        | <10       | 128       |
| K270952            |                                   | <20       | <0.01     | <10       | <10       | 26        | <10       | 120       |
| K270953            |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 263       |
| K270954            |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       | 31        |
| K270955            |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 100       |
| K270956            |                                   | <20       | <0.01     | <10       | <10       | 41        | <10       | 67        |
| K270957            |                                   | <20       | <0.01     | <10       | <10       | 4         | <10       | 91        |
| K270958            |                                   | <20       | 0.01      | <10       | <10       | 64        | <10       | 55        |
| K270959            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       | 77        |
| K270960            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       | 51        |
| K270961            |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       | 42        |
| K270962            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 53        |
| K270963            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       | 46        |
| K270964            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 62        |
| K270965            |                                   | <20       | <0.01     | <10       | <10       | 23        | <10       | 76        |
| K270966            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 126       |
| K270967            |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       | 12        |
| K270968            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 1085      |



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Page: 1  
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**CERTIFICATE WH11146370**

Project: Wolverine- String (Prospecting)

P.O. No.:

This report is for 10 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- QC  | Crushing QC Test               |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

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

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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## Project: Wolverine- String (Prospecting)

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**CERTIFICATE OF ANALYSIS    WH11146370**

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## Project: Wolverine- String (Prospecting)

**CERTIFICATE OF ANALYSIS    WH11146370**

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## Project: Wolverine- String (Prospecting)

**CERTIFICATE OF ANALYSIS    WH11146370**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| K975355            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 91        |
| K975356            |                                   | <20       | <0.01     | <10       | <10       | 12        | <10       | 74        |
| K975357            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 38        |
| K975358            |                                   | <20       | <0.01     | <10       | <10       | 88        | <10       | 50        |
| K975359            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 16        |
| K975360            |                                   | <20       | <0.01     | <10       | <10       | 110       | <10       | 251       |
| K975361            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 11        |
| K975362            |                                   | <20       | 0.01      | <10       | <10       | 115       | <10       | 75        |
| K975363            |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       | 68        |
| K975364            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 70        |
|                    |                                   |           |           |           |           |           |           |           |



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**CERTIFICATE WH11146371**

Project: Wolverine- String

P.O. No.:

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- QC  | Crushing QC Test               |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |
| Ag- OG46  | Ore Grade Ag - Aqua Regia      | VARIABLE   |
| ME- OG46  | Ore Grade Elements - AquaRegia | ICP- AES   |
| Cu- OG46  | Ore Grade Cu - Aqua Regia      | VARIABLE   |

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**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146371**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| K270973            |                                   | 1.33                       | <0.005                | 0.2                    | 0.40                 | 60                     | <10                   | 470                    | <0.5                   | 4                      | 9.5                  | 1.3                    | 26                     | 8                      | 69                     | 6.66                 |
| K270974            |                                   | 0.99                       | 0.022                 | 0.2                    | 0.25                 | 57                     | <10                   | 170                    | <0.5                   | <2                     | 0.10                 | <0.5                   | 11                     | 13                     | 28                     | 1.78                 |
| K270975            |                                   | 1.42                       | <0.005                | <0.2                   | 1.10                 | 49                     | 10                    | 480                    | <0.5                   | <2                     | 7.3                  | <0.5                   | 31                     | 55                     | 61                     | 7.00                 |
| K270976            |                                   | 1.66                       | <0.005                | <0.2                   | 1.94                 | 45                     | <10                   | 3100                   | <0.5                   | <2                     | 8.4                  | 0.5                    | 32                     | 229                    | 70                     | 6.43                 |
| K270977            |                                   | 1.57                       | <0.005                | <0.2                   | 1.79                 | 31                     | <10                   | 450                    | <0.5                   | <2                     | 12.2                 | 0.6                    | 43                     | 125                    | 59                     | 6.77                 |
| K270978            |                                   | 0.77                       | <0.005                | <0.2                   | 1.68                 | 16                     | <10                   | 470                    | <0.5                   | <2                     | 11.3                 | <0.5                   | 48                     | 142                    | 69                     | 6.05                 |
| K270979            |                                   | 1.44                       | <0.005                | <0.2                   | 1.79                 | 133                    | 10                    | 580                    | <0.5                   | 2                      | 13.1                 | 0.5                    | 37                     | 122                    | 93                     | 5.75                 |
| K270980            |                                   | 1.32                       | <0.005                | <0.2                   | 0.93                 | 106                    | <10                   | 460                    | <0.5                   | <2                     | 15.4                 | 0.5                    | 35                     | 77                     | 91                     | 5.36                 |
| K270981            |                                   | 1.45                       | <0.005                | <0.2                   | 3.65                 | 35                     | <10                   | 380                    | <0.5                   | <2                     | 2.47                 | <0.5                   | 41                     | 142                    | 44                     | 8.53                 |
| K270982            |                                   | 0.84                       | <0.005                | 0.3                    | 1.56                 | 24                     | <10                   | 450                    | <0.5                   | <2                     | 0.22                 | <0.5                   | 3                      | 200                    | 63                     | 9.75                 |
| K270983            |                                   | 1.31                       | <0.005                | <0.2                   | 1.39                 | 86                     | <10                   | 560                    | <0.5                   | <2                     | 13.8                 | 2.7                    | 35                     | 79                     | 149                    | 6.45                 |
| K270984            |                                   | 1.70                       | <0.005                | <0.2                   | 1.86                 | 32                     | <10                   | 490                    | <0.5                   | <2                     | 13.1                 | 0.6                    | 40                     | 138                    | 187                    | 6.31                 |
| K270985            |                                   | 1.62                       | <0.005                | <0.2                   | 1.81                 | 11                     | <10                   | 470                    | <0.5                   | 2                      | 13.9                 | <0.5                   | 40                     | 133                    | 74                     | 6.25                 |
| K270986            |                                   | 1.75                       | <0.005                | <0.2                   | 1.79                 | 5                      | <10                   | 520                    | <0.5                   | 2                      | 12.9                 | <0.5                   | 36                     | 144                    | 45                     | 5.97                 |
| K270987            |                                   | 1.67                       | <0.005                | <0.2                   | 1.30                 | 5                      | <10                   | 570                    | <0.5                   | <2                     | 12.5                 | <0.5                   | 35                     | 101                    | 45                     | 6.25                 |
| K270988            |                                   | 0.45                       | <0.005                | <0.2                   | 1.54                 | <2                     | <10                   | 600                    | <0.5                   | <2                     | 15.4                 | <0.5                   | 29                     | 109                    | 26                     | 5.27                 |
| K270989            |                                   | 0.38                       | <0.005                | <0.2                   | 2.50                 | 4                      | <10                   | 330                    | <0.5                   | <2                     | 9.7                  | <0.5                   | 21                     | 77                     | 24                     | 6.37                 |
| K270990            |                                   | 0.44                       | <0.005                | <0.2                   | 0.46                 | 46                     | <10                   | 120                    | <0.5                   | <2                     | 1.27                 | <0.5                   | 7                      | 16                     | 47                     | 1.38                 |
| K270991            |                                   | 0.44                       | <0.005                | 1.0                    | 0.39                 | 45                     | <10                   | 150                    | <0.5                   | <2                     | 0.36                 | 1.8                    | 6                      | 17                     | 64                     | 1.64                 |
| K270992            |                                   | 1.43                       | 0.021                 | 0.6                    | 0.41                 | 63                     | <10                   | 200                    | <0.5                   | 3                      | 8.4                  | 0.9                    | 10                     | 9                      | 29                     | 4.68                 |
| K270993            |                                   | 1.36                       | 0.005                 | 0.6                    | 0.27                 | 36                     | <10                   | 160                    | <0.5                   | <2                     | 0.19                 | <0.5                   | 4                      | 10                     | 32                     | 1.07                 |
| K270994            |                                   | 0.46                       | <0.005                | <0.2                   | 3.72                 | 34                     | <10                   | 220                    | <0.5                   | <2                     | 2.35                 | 1.0                    | 25                     | 157                    | 51                     | 3.81                 |
| K270995            |                                   | 1.59                       | 0.010                 | <0.2                   | 0.62                 | 91                     | <10                   | 170                    | 0.5                    | <2                     | 8.9                  | <0.5                   | 12                     | 11                     | 27                     | 4.36                 |
| K270996            |                                   | 1.44                       | 0.009                 | 0.4                    | 0.51                 | 168                    | <10                   | 340                    | <0.5                   | <2                     | 2.93                 | 0.5                    | 14                     | 12                     | 27                     | 4.12                 |
| K270997            |                                   | 1.56                       | 0.008                 | 0.5                    | 0.36                 | 52                     | <10                   | 190                    | <0.5                   | 2                      | 11.3                 | <0.5                   | 8                      | 6                      | 20                     | 3.31                 |
| K270998            |                                   | 1.14                       | 0.006                 | 0.4                    | 0.30                 | 41                     | <10                   | 120                    | <0.5                   | <2                     | 2.23                 | <0.5                   | 4                      | 8                      | 31                     | 1.25                 |
| K270999            |                                   | 1.42                       | 0.008                 | 0.5                    | 1.08                 | 115                    | <10                   | 170                    | <0.5                   | <2                     | 3.67                 | 8.8                    | 22                     | 205                    | 26                     | 4.10                 |
| K271000            |                                   | 1.26                       | 0.020                 | 0.6                    | 0.51                 | 103                    | <10                   | 270                    | <0.5                   | <2                     | 1.07                 | 0.7                    | 10                     | 16                     | 74                     | 2.81                 |
| K270969            |                                   | 1.08                       | 2.57                  | >100                   | 0.02                 | 2650                   | <10                   | 70                     | <0.5                   | <2                     | 0.04                 | 104.0                  | 2                      | 12                     | >10000                 | 0.80                 |
| K270970            |                                   | 0.31                       | 0.006                 | 1.3                    | 2.38                 | 146                    | <10                   | 250                    | <0.5                   | <2                     | 5.02                 | 1.0                    | 39                     | 132                    | 106                    | 12.80                |
| K270971            |                                   | 0.21                       | 0.013                 | 1.8                    | 0.40                 | 47                     | <10                   | 220                    | <0.5                   | <2                     | 0.81                 | 1.4                    | 9                      | 11                     | 196                    | 2.09                 |
| K270972            |                                   | 0.30                       | 0.105                 | 0.7                    | 0.56                 | 89                     | <10                   | 320                    | <0.5                   | <2                     | 1.90                 | 1.6                    | 8                      | 13                     | 179                    | 2.14                 |
| K975351            |                                   | 0.26                       | 0.007                 | 0.8                    | 0.08                 | 9                      | <10                   | 80                     | <0.5                   | <2                     | 0.07                 | <0.5                   | 2                      | 14                     | 41                     | 0.41                 |
| K975352            |                                   | 0.21                       | <0.005                | <0.2                   | 0.02                 | 11                     | <10                   | 10                     | <0.5                   | <2                     | 0.03                 | <0.5                   | 2                      | 13                     | 8                      | 0.44                 |
| K975353            |                                   | 0.36                       | <0.005                | <0.2                   | 0.04                 | 3                      | <10                   | 20                     | <0.5                   | <2                     | 7.4                  | <0.5                   | 2                      | 8                      | 8                      | 0.49                 |
| K975354            |                                   | 0.27                       | <0.005                | <0.2                   | 0.02                 | 7                      | <10                   | 20                     | <0.5                   | <2                     | 0.04                 | <0.5                   | 1                      | 13                     | 9                      | 0.61                 |



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Page: 2 - B  
Total # Pages: 2 (A - C)  
Finalized Date: 6- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146371**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| K270973            |                                   | <10                          | <1                          | 0.19                        | 10                           | 3.17                         | 1150                        | 2                           | 0.02                         | 65                          | 1300                        | <2                          | 0.02                        | 10                          | 5                           | 298                         |
| K270974            |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.06                         | 110                         | 4                           | 0.01                         | 16                          | 680                         | 7                           | 0.04                        | 9                           | 1                           | 46                          |
| K270975            |                                   | <10                          | <1                          | 0.20                        | 20                           | 0.61                         | 1060                        | 2                           | 0.03                         | 147                         | 1900                        | <2                          | 0.04                        | 3                           | 7                           | 148                         |
| K270976            |                                   | <10                          | 1                           | 0.17                        | 20                           | 0.79                         | 612                         | 3                           | 0.05                         | 203                         | 1090                        | 3                           | 0.12                        | 2                           | 8                           | 133                         |
| K270977            |                                   | <10                          | <1                          | 0.17                        | 20                           | 1.03                         | 817                         | 2                           | 0.02                         | 192                         | 1090                        | 4                           | 0.05                        | 2                           | 8                           | 237                         |
| K270978            |                                   | <10                          | <1                          | 0.19                        | 20                           | 1.06                         | 681                         | 1                           | 0.02                         | 238                         | 1560                        | 2                           | 0.03                        | <2                          | 8                           | 236                         |
| K270979            |                                   | <10                          | 1                           | 0.23                        | 30                           | 0.89                         | 1150                        | 1                           | 0.03                         | 183                         | 2840                        | 3                           | 0.04                        | 3                           | 8                           | 395                         |
| K270980            |                                   | <10                          | <1                          | 0.17                        | 20                           | 0.94                         | 1285                        | 1                           | 0.03                         | 157                         | 2090                        | 3                           | 0.03                        | 5                           | 8                           | 442                         |
| K270981            |                                   | 10                           | <1                          | 0.21                        | 20                           | 1.55                         | 1065                        | 1                           | 0.02                         | 151                         | 1420                        | <2                          | 0.02                        | <2                          | 7                           | 84                          |
| K270982            |                                   | 10                           | <1                          | 0.24                        | 10                           | 0.47                         | 51                          | 2                           | 0.01                         | 62                          | 390                         | 14                          | 0.09                        | 2                           | 3                           | 15                          |
| K270983            |                                   | <10                          | <1                          | 0.23                        | 20                           | 0.95                         | 1260                        | 6                           | 0.02                         | 166                         | 1760                        | 6                           | 0.02                        | 11                          | 6                           | 282                         |
| K270984            |                                   | <10                          | <1                          | 0.16                        | 20                           | 1.59                         | 1260                        | 1                           | 0.03                         | 177                         | 2490                        | 2                           | 0.02                        | 2                           | 6                           | 356                         |
| K270985            |                                   | <10                          | <1                          | 0.15                        | 20                           | 1.57                         | 1225                        | 1                           | 0.02                         | 162                         | 1950                        | 4                           | 0.02                        | <2                          | 6                           | 401                         |
| K270986            |                                   | <10                          | 1                           | 0.15                        | 20                           | 1.88                         | 1080                        | 1                           | 0.03                         | 183                         | 1910                        | 4                           | 0.02                        | <2                          | 7                           | 504                         |
| K270987            |                                   | <10                          | <1                          | 0.15                        | 10                           | 2.31                         | 1170                        | 1                           | 0.03                         | 134                         | 1520                        | 3                           | 0.02                        | <2                          | 6                           | 310                         |
| K270988            |                                   | <10                          | <1                          | 0.18                        | 20                           | 1.65                         | 1455                        | <1                          | 0.02                         | 152                         | 1380                        | <2                          | 0.03                        | <2                          | 7                           | 507                         |
| K270989            |                                   | 10                           | 1                           | 0.28                        | 20                           | 1.07                         | 1010                        | <1                          | 0.03                         | 84                          | 2980                        | 3                           | 0.02                        | <2                          | 6                           | 328                         |
| K270990            |                                   | <10                          | <1                          | 0.20                        | 10                           | 0.06                         | 98                          | 28                          | 0.01                         | 83                          | 5920                        | 17                          | 0.01                        | 13                          | 1                           | 41                          |
| K270991            |                                   | <10                          | 1                           | 0.19                        | 10                           | 0.04                         | 97                          | 54                          | 0.01                         | 65                          | 1670                        | 23                          | 0.04                        | 26                          | 1                           | 26                          |
| K270992            |                                   | <10                          | <1                          | 0.18                        | 10                           | 4.09                         | 954                         | 27                          | 0.02                         | 60                          | 3710                        | 19                          | 0.04                        | 15                          | 2                           | 145                         |
| K270993            |                                   | <10                          | <1                          | 0.12                        | <10                          | 0.04                         | 138                         | 16                          | 0.01                         | 17                          | 950                         | 11                          | 0.06                        | 9                           | 1                           | 61                          |
| K270994            |                                   | 10                           | <1                          | 0.06                        | <10                          | 2.32                         | 670                         | 1                           | 0.04                         | 81                          | 460                         | <2                          | 0.06                        | <2                          | 5                           | 16                          |
| K270995            |                                   | <10                          | 1                           | 0.15                        | 10                           | 4.93                         | 1245                        | 3                           | 0.03                         | 41                          | 1190                        | 13                          | 0.03                        | 4                           | 5                           | 150                         |
| K270996            |                                   | <10                          | <1                          | 0.22                        | 10                           | 1.06                         | 814                         | 10                          | 0.02                         | 46                          | 3380                        | 9                           | 0.02                        | 8                           | 3                           | 83                          |
| K270997            |                                   | <10                          | 1                           | 0.16                        | 10                           | 6.28                         | 1110                        | 6                           | 0.02                         | 59                          | 2380                        | 13                          | 0.03                        | 8                           | 2                           | 209                         |
| K270998            |                                   | <10                          | <1                          | 0.14                        | 10                           | 1.10                         | 227                         | 10                          | 0.01                         | 43                          | 1470                        | 9                           | 0.02                        | 8                           | 1                           | 51                          |
| K270999            |                                   | <10                          | <1                          | 0.11                        | 10                           | 2.08                         | 635                         | 4                           | 0.02                         | 184                         | 2480                        | 4                           | 0.02                        | 7                           | 8                           | 228                         |
| K271000            |                                   | <10                          | <1                          | 0.18                        | 10                           | 0.08                         | 323                         | 7                           | 0.01                         | 52                          | 5720                        | 10                          | 0.03                        | 24                          | 2                           | 90                          |
| K270969            |                                   | <10                          | 2                           | <0.01                       | <10                          | 0.01                         | 41                          | 1                           | 0.01                         | 3                           | 100                         | <2                          | 1.68                        | >10000                      | 1                           | 6                           |
| K270970            |                                   | 10                           | 1                           | 0.18                        | 10                           | 1.02                         | 1445                        | 1                           | 0.02                         | 150                         | 2330                        | 4                           | 0.02                        | 51                          | 10                          | 90                          |
| K270971            |                                   | <10                          | <1                          | 0.16                        | 10                           | 0.05                         | 484                         | 9                           | 0.01                         | 37                          | 3820                        | 12                          | 0.03                        | 76                          | 1                           | 94                          |
| K270972            |                                   | <10                          | <1                          | 0.24                        | 20                           | 0.06                         | 153                         | 16                          | 0.01                         | 57                          | 9180                        | 15                          | 0.03                        | 76                          | 2                           | 174                         |
| K975351            |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.01                         | 53                          | 1                           | <0.01                        | 3                           | 310                         | 4                           | 0.01                        | 21                          | <1                          | 14                          |
| K975352            |                                   | <10                          | <1                          | <0.01                       | <10                          | 0.01                         | 54                          | <1                          | <0.01                        | 3                           | 50                          | <2                          | 0.01                        | 4                           | <1                          | 2                           |
| K975353            |                                   | <10                          | <1                          | 0.01                        | <10                          | 0.07                         | 135                         | <1                          | 0.01                         | 3                           | 40                          | <2                          | 0.01                        | 4                           | 3                           | 312                         |
| K975354            |                                   | <10                          | <1                          | 0.01                        | <10                          | <0.01                        | 70                          | 1                           | <0.01                        | 5                           | 70                          | <2                          | 0.01                        | 3                           | <1                          | 3                           |



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 6- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11146371**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | Ag- OG46 | Cu- OG46 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        | Ag       | Cu       |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | ppm      | %        |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         | 1        | 0.001    |
| K270973            |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 106       |          |          |
| K270974            |                                   | <20       | <0.01     | <10       | <10       | 12        | <10       | 51        |          |          |
| K270975            |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 108       |          |          |
| K270976            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 163       |          |          |
| K270977            |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       | 139       |          |          |
| K270978            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 138       |          |          |
| K270979            |                                   | <20       | <0.01     | <10       | <10       | 27        | <10       | 124       |          |          |
| K270980            |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       | 86        |          |          |
| K270981            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 119       |          |          |
| K270982            |                                   | <20       | 0.01      | <10       | <10       | 11        | <10       | 131       |          |          |
| K270983            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 214       |          |          |
| K270984            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 104       |          |          |
| K270985            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 83        |          |          |
| K270986            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 69        |          |          |
| K270987            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 47        |          |          |
| K270988            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 50        |          |          |
| K270989            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 83        |          |          |
| K270990            |                                   | <20       | <0.01     | <10       | <10       | 166       | <10       | 59        |          |          |
| K270991            |                                   | <20       | <0.01     | <10       | <10       | 322       | <10       | 261       |          |          |
| K270992            |                                   | <20       | <0.01     | <10       | <10       | 76        | <10       | 153       |          |          |
| K270993            |                                   | <20       | <0.01     | <10       | <10       | 93        | <10       | 20        |          |          |
| K270994            |                                   | <20       | 0.33      | <10       | <10       | 121       | <10       | 50        |          |          |
| K270995            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 99        |          |          |
| K270996            |                                   | <20       | 0.01      | <10       | <10       | 65        | <10       | 81        |          |          |
| K270997            |                                   | <20       | <0.01     | <10       | <10       | 41        | <10       | 100       |          |          |
| K270998            |                                   | <20       | <0.01     | <10       | <10       | 72        | <10       | 44        |          |          |
| K270999            |                                   | <20       | <0.01     | <10       | <10       | 61        | <10       | 328       |          |          |
| K271000            |                                   | <20       | <0.01     | <10       | <10       | 55        | <10       | 97        |          |          |
| K270969            |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       | 5510      | 392      | 3.51     |
| K270970            |                                   | <20       | <0.01     | <10       | <10       | 54        | <10       | 214       |          |          |
| K270971            |                                   | <20       | <0.01     | <10       | <10       | 37        | <10       | 180       |          |          |
| K270972            |                                   | <20       | <0.01     | <10       | <10       | 144       | <10       | 87        |          |          |
| K975351            |                                   | <20       | <0.01     | <10       | <10       | 23        | <10       | 18        |          |          |
| K975352            |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       | 3         |          |          |
| K975353            |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       | 6         |          |          |
| K975354            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 7         |          |          |



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Page: 1  
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**CERTIFICATE WH11146373**

Project: Wolverine- Finlayson

P.O. No.:

This report is for 28 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- QC  | Crushing QC Test               |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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1016- 510 W HASTINGS ST  
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Page: 2 - A  
Total # Pages: 2 (A - C)  
Finalized Date: 9- SEP- 2011  
Account: F

Project: Wolverine- Finlayson

**CERTIFICATE OF ANALYSIS WH11146373**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| I357288            |                                   | 0.41                       | 0.672                 | 0.4                    | 0.05                 | >10000                 | <10                   | <10                    | <0.5                   | 160                    | 0.06                 | <0.5                   | 16                     | 12                     | 184                    | 11.70                |
| I357289            |                                   | 0.83                       | <0.005                | <0.2                   | 0.59                 | 45                     | <10                   | 30                     | 0.9                    | <2                     | 12.9                 | 1.1                    | 5                      | 7                      | 14                     | 1.83                 |
| I357290            |                                   | 0.89                       | 0.121                 | 1.3                    | 0.37                 | >10000                 | 10                    | 20                     | 1.1                    | 76                     | 7.03                 | 9.0                    | 2                      | 11                     | 6                      | 2.14                 |
| I357291            |                                   | 0.46                       | 0.022                 | 0.6                    | 2.37                 | 1785                   | <10                   | 90                     | 2.7                    | 8                      | 0.60                 | 9.6                    | 16                     | 31                     | 25                     | 4.69                 |
| I357292            |                                   | 0.55                       | <0.005                | 0.4                    | 3.34                 | 1950                   | 10                    | 20                     | 4.6                    | <2                     | 1.57                 | 3.1                    | 24                     | 6                      | 52                     | 6.78                 |
| I357293            |                                   | 0.38                       | 0.149                 | 1.2                    | 1.62                 | >10000                 | 10                    | 50                     | 3.0                    | 46                     | 2.81                 | 8.1                    | 8                      | 15                     | 25                     | 5.84                 |
| I357294            |                                   | 0.75                       | 0.027                 | 0.5                    | 2.87                 | 6620                   | <10                   | 50                     | 3.9                    | 13                     | 0.94                 | 6.1                    | 18                     | 42                     | 32                     | 5.49                 |
| I357295            |                                   | 0.75                       | 0.021                 | 0.8                    | 3.71                 | 2760                   | 10                    | 70                     | 6.0                    | 8                      | 3.09                 | 3.8                    | 18                     | 38                     | 33                     | 4.57                 |
| I357296            |                                   | 0.83                       | 0.324                 | 5.7                    | 0.29                 | >10000                 | <10                   | 30                     | 0.9                    | 156                    | 0.44                 | 23.5                   | 5                      | 16                     | 4                      | 2.96                 |
| I357297            |                                   | 0.39                       | 0.057                 | 47.8                   | 0.12                 | >10000                 | <10                   | 10                     | 1.0                    | 549                    | 0.17                 | 64.0                   | 1                      | 16                     | 6                      | 1.64                 |
| I357298            |                                   | 0.82                       | 0.049                 | 0.6                    | 0.28                 | >10000                 | 20                    | 20                     | 0.5                    | 14                     | 1.29                 | 132.5                  | 13                     | 16                     | 6                      | 3.30                 |
| I357299            |                                   | 0.33                       | <0.005                | 0.3                    | 0.23                 | 75                     | <10                   | 350                    | <0.5                   | 2                      | 3.04                 | 5.2                    | 9                      | 5                      | 46                     | 3.83                 |
| I357300            |                                   | 0.47                       | 0.022                 | <0.2                   | 0.17                 | 200                    | <10                   | 20                     | <0.5                   | <2                     | 0.28                 | <0.5                   | 75                     | 599                    | 28                     | 3.62                 |
| K975201            |                                   | 0.87                       | 0.008                 | 1.9                    | 0.30                 | 518                    | <10                   | 30                     | <0.5                   | <2                     | 0.16                 | <0.5                   | 66                     | 736                    | 9                      | 4.06                 |
| K975202            |                                   | 0.70                       | <0.005                | 0.2                    | 0.59                 | 18                     | <10                   | 30                     | <0.5                   | <2                     | 4.32                 | <0.5                   | 2                      | 13                     | 2                      | 1.30                 |
| K975203            |                                   | 0.56                       | <0.005                | 0.7                    | 0.82                 | 25                     | <10                   | 110                    | <0.5                   | <2                     | 0.02                 | <0.5                   | 5                      | 22                     | 51                     | 2.43                 |
| K975204            |                                   | 0.36                       | <0.005                | 0.3                    | 0.89                 | 15                     | <10                   | 300                    | 0.5                    | <2                     | 0.06                 | <0.5                   | 7                      | 17                     | 61                     | 4.39                 |
| K975205            |                                   | 0.64                       | <0.005                | <0.2                   | 0.37                 | 8                      | <10                   | 100                    | <0.5                   | <2                     | 1.16                 | <0.5                   | 3                      | 14                     | 9                      | 1.11                 |
| K975206            |                                   | 0.82                       | <0.005                | 0.2                    | 0.32                 | 19                     | <10                   | 210                    | <0.5                   | <2                     | 1.96                 | <0.5                   | 3                      | 12                     | 20                     | 1.54                 |
| K975207            |                                   | 0.87                       | <0.005                | 0.8                    | 0.25                 | 7                      | <10                   | 90                     | <0.5                   | <2                     | 0.52                 | <0.5                   | 1                      | 13                     | 118                    | 0.58                 |
| K975208            |                                   | 0.58                       | 0.077                 | 31.3                   | 0.13                 | 26                     | <10                   | 460                    | <0.5                   | <2                     | 0.28                 | <0.5                   | 2                      | 20                     | 149                    | 1.38                 |
| K975209            |                                   | 0.63                       | 0.023                 | 5.5                    | 0.31                 | 5                      | <10                   | 150                    | <0.5                   | 20                     | 0.02                 | <0.5                   | 1                      | 11                     | 74                     | 0.68                 |
| K975210            |                                   | 0.79                       | <0.005                | 0.2                    | 0.65                 | 15                     | <10                   | 80                     | <0.5                   | <2                     | 9.6                  | <0.5                   | 6                      | 5                      | 29                     | 3.46                 |
| K975211            |                                   | 0.22                       | 0.010                 | 0.9                    | 1.10                 | 2                      | <10                   | 20                     | <0.5                   | 9                      | 0.44                 | <0.5                   | 214                    | 8                      | 1275                   | 22.7                 |
| K975212            |                                   | 0.65                       | 0.007                 | <0.2                   | 0.14                 | 4                      | <10                   | 10                     | <0.5                   | <2                     | 0.80                 | <0.5                   | 41                     | 665                    | 20                     | 3.96                 |
| K975213            |                                   | 0.47                       | <0.005                | <0.2                   | 0.02                 | 4                      | <10                   | <10                    | <0.5                   | <2                     | 0.03                 | <0.5                   | 1                      | 22                     | 2                      | 0.34                 |
| K975214            |                                   | 1.09                       | <0.005                | 1.2                    | 0.02                 | 6                      | <10                   | <10                    | <0.5                   | 5                      | 0.01                 | <0.5                   | 1                      | 20                     | 20                     | 0.94                 |
| K975215            |                                   | 0.51                       | 0.008                 | <0.2                   | 0.16                 | 4                      | <10                   | 10                     | <0.5                   | <2                     | 0.06                 | <0.5                   | 49                     | 870                    | 6                      | 4.37                 |



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 VANCOUVER BC V6B 1L8

Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 9- SEP- 2011  
 Account: F

Project: Wolverine- Finlayson

**CERTIFICATE OF ANALYSIS WH11146373**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| I357288            |                                   | <10                          | <1                          | <0.01                       | <10                          | 0.06                         | 77                          | <1                          | <0.01                        | <1                          | <10                         | 4                           | 8.09                        | 2                           | <1                          | 4                           |
| I357289            |                                   | <10                          | <1                          | 0.21                        | 30                           | 0.29                         | 642                         | <1                          | 0.02                         | 8                           | 440                         | 14                          | 0.19                        | <2                          | 3                           | 926                         |
| I357290            |                                   | <10                          | <1                          | 0.14                        | <10                          | 0.05                         | 92                          | 1                           | 0.02                         | 1                           | 30                          | 20                          | 0.37                        | <2                          | <1                          | 174                         |
| I357291            |                                   | 10                           | 1                           | 0.42                        | 50                           | 0.99                         | 642                         | <1                          | 0.03                         | 36                          | 530                         | 25                          | <0.01                       | <2                          | 5                           | 73                          |
| I357292            |                                   | 10                           | <1                          | 0.28                        | 20                           | 1.38                         | 965                         | <1                          | 0.02                         | 21                          | 1490                        | 5                           | <0.01                       | <2                          | 11                          | 89                          |
| I357293            |                                   | <10                          | 1                           | 0.55                        | 20                           | 0.29                         | 344                         | 1                           | 0.05                         | 13                          | 100                         | 305                         | 0.20                        | 3                           | 3                           | 201                         |
| I357294            |                                   | 10                           | <1                          | 0.52                        | 60                           | 1.18                         | 629                         | <1                          | 0.02                         | 50                          | 470                         | 40                          | <0.01                       | 2                           | 5                           | 70                          |
| I357295            |                                   | 10                           | 1                           | 0.90                        | 60                           | 1.02                         | 721                         | <1                          | 0.09                         | 44                          | 420                         | 57                          | <0.01                       | <2                          | 7                           | 142                         |
| I357296            |                                   | <10                          | <1                          | 0.12                        | <10                          | 0.04                         | 77                          | <1                          | 0.01                         | 3                           | 30                          | 57                          | 1.26                        | 3                           | <1                          | 37                          |
| I357297            |                                   | <10                          | <1                          | 0.05                        | <10                          | 0.02                         | 57                          | <1                          | <0.01                        | 1                           | 10                          | 592                         | 0.59                        | 3                           | <1                          | 33                          |
| I357298            |                                   | <10                          | <1                          | 0.14                        | <10                          | 0.02                         | 45                          | <1                          | 0.01                         | 3                           | 20                          | 3                           | 1.78                        | 5                           | <1                          | 40                          |
| I357299            |                                   | <10                          | <1                          | 0.11                        | 10                           | 1.17                         | 2410                        | 8                           | 0.01                         | 31                          | 2250                        | 10                          | 0.03                        | 2                           | 2                           | 233                         |
| I357300            |                                   | <10                          | <1                          | <0.01                       | <10                          | 11.55                        | 412                         | <1                          | <0.01                        | 1455                        | 10                          | <2                          | 0.23                        | <2                          | 5                           | 83                          |
| K975201            |                                   | <10                          | <1                          | <0.01                       | <10                          | 12.35                        | 615                         | <1                          | <0.01                        | 1065                        | 30                          | <2                          | 0.08                        | 52                          | 5                           | 13                          |
| K975202            |                                   | <10                          | <1                          | 0.11                        | 20                           | 2.20                         | 699                         | 2                           | 0.01                         | 15                          | 70                          | 9                           | <0.01                       | <2                          | 1                           | 119                         |
| K975203            |                                   | <10                          | <1                          | 0.33                        | 30                           | 0.25                         | 223                         | 3                           | 0.01                         | 30                          | 400                         | 10                          | 0.04                        | <2                          | 2                           | 13                          |
| K975204            |                                   | <10                          | <1                          | 0.44                        | 30                           | 0.15                         | 230                         | 3                           | 0.01                         | 45                          | 440                         | 9                           | 0.07                        | 2                           | 3                           | 25                          |
| K975205            |                                   | <10                          | <1                          | 0.18                        | 10                           | 0.37                         | 281                         | 1                           | 0.01                         | 11                          | 290                         | 2                           | 0.02                        | <2                          | 1                           | 24                          |
| K975206            |                                   | <10                          | <1                          | 0.16                        | 10                           | 0.74                         | 472                         | 3                           | 0.01                         | 10                          | 150                         | 5                           | 0.04                        | <2                          | 2                           | 41                          |
| K975207            |                                   | <10                          | <1                          | 0.15                        | 10                           | 0.02                         | 158                         | 1                           | 0.02                         | 1                           | 60                          | 18                          | 0.11                        | <2                          | <1                          | 6                           |
| K975208            |                                   | <10                          | <1                          | 0.05                        | <10                          | 0.09                         | 329                         | 6                           | <0.01                        | 7                           | 90                          | 75                          | 0.48                        | 2                           | 1                           | 7                           |
| K975209            |                                   | <10                          | <1                          | 0.21                        | 10                           | 0.01                         | 42                          | 9                           | 0.01                         | 1                           | 20                          | 16                          | 0.09                        | <2                          | <1                          | 3                           |
| K975210            |                                   | <10                          | <1                          | 0.19                        | 10                           | 4.03                         | 998                         | 5                           | 0.01                         | 4                           | 310                         | 16                          | 0.15                        | <2                          | 5                           | 190                         |
| K975211            |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.31                         | 1350                        | <1                          | 0.02                         | 21                          | 400                         | 9                           | >10.0                       | <2                          | 1                           | 14                          |
| K975212            |                                   | <10                          | <1                          | <0.01                       | <10                          | 10.85                        | 1055                        | <1                          | 0.01                         | 353                         | 40                          | 2                           | 0.11                        | <2                          | 6                           | 35                          |
| K975213            |                                   | <10                          | <1                          | <0.01                       | <10                          | 0.08                         | 44                          | <1                          | <0.01                        | 6                           | 10                          | <2                          | <0.01                       | <2                          | <1                          | 1                           |
| K975214            |                                   | <10                          | <1                          | <0.01                       | <10                          | 0.02                         | 65                          | <1                          | <0.01                        | 2                           | 30                          | 225                         | <0.01                       | <2                          | <1                          | <1                          |
| K975215            |                                   | <10                          | <1                          | <0.01                       | <10                          | 11.65                        | 690                         | <1                          | <0.01                        | 695                         | 10                          | 2                           | 0.02                        | <2                          | 4                           | <1                          |



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 9- SEP- 2011  
 Account: F

Project: Wolverine- Finlayson

**CERTIFICATE OF ANALYSIS WH11146373**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| I357288            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 3         |
| I357289            |                                   | 20        | <0.01     | <10       | <10       | 5         | <10       | 51        |
| I357290            |                                   | <20       | <0.01     | <10       | <10       | 3         | 60        | 170       |
| I357291            |                                   | 20        | 0.02      | <10       | <10       | 25        | 40        | 604       |
| I357292            |                                   | <20       | 0.01      | <10       | <10       | 160       | 40        | 374       |
| I357293            |                                   | <20       | 0.01      | <10       | <10       | 12        | 10        | 274       |
| I357294            |                                   | 20        | 0.01      | <10       | <10       | 28        | 10        | 438       |
| I357295            |                                   | 20        | 0.01      | <10       | <10       | 28        | 20        | 335       |
| I357296            |                                   | <20       | <0.01     | <10       | <10       | 2         | 310       | 313       |
| I357297            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 1290      |
| I357298            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 3590      |
| I357299            |                                   | <20       | <0.01     | <10       | <10       | 21        | <10       | 166       |
| I357300            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       | 18        |
| K975201            |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 27        |
| K975202            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 39        |
| K975203            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 153       |
| K975204            |                                   | <20       | <0.01     | <10       | <10       | 59        | <10       | 131       |
| K975205            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 16        |
| K975206            |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       | 58        |
| K975207            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 69        |
| K975208            |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       | 96        |
| K975209            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 6         |
| K975210            |                                   | <20       | <0.01     | <10       | <10       | 22        | <10       | 81        |
| K975211            |                                   | <20       | 0.02      | <10       | <10       | 14        | <10       | 60        |
| K975212            |                                   | <20       | <0.01     | <10       | <10       | 23        | <10       | 13        |
| K975213            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 2         |
| K975214            |                                   | <20       | <0.01     | <10       | <10       | 1         | <10       | 26        |
| K975215            |                                   | <20       | <0.01     | <10       | <10       | 24        | <10       | 10        |



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Page: 1  
Finalized Date: 13- SEP- 2011  
Account: F

**CERTIFICATE WH11149817**

Project: Wolverine - String

P.O. No.:

This report is for 15 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - C)  
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Project: Wolverine - String

**CERTIFICATE OF ANALYSIS WH11149817**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC121229           |                                   | 0.38                       | 0.011                  | 0.8                    | 0.98                 | 155                    | <10                   | 240                    | <0.5                   | <2                     | 0.41                 | <0.5                   | 10                     | 207                    | 144                    | 15.6                 |
| CC121230           |                                   | 0.44                       | 0.011                  | 0.9                    | 1.32                 | 67                     | <10                   | 410                    | 0.5                    | <2                     | 0.84                 | 0.6                    | 47                     | 51                     | 90                     | 5.70                 |
| CC121231           |                                   | 0.38                       | 0.014                  | 0.6                    | 1.38                 | 77                     | <10                   | 340                    | 0.5                    | <2                     | 0.96                 | 0.5                    | 39                     | 57                     | 78                     | 5.20                 |
| CC121232           |                                   | 0.34                       | 0.007                  | 0.5                    | 1.52                 | 36                     | <10                   | 300                    | <0.5                   | <2                     | 1.14                 | <0.5                   | 33                     | 78                     | 72                     | 5.90                 |
| CC121233           |                                   | 0.38                       | 0.007                  | 0.2                    | 1.82                 | 52                     | <10                   | 550                    | 0.7                    | <2                     | 0.88                 | <0.5                   | 27                     | 80                     | 70                     | 5.11                 |
| CC121234           |                                   | 0.40                       | 0.005                  | 0.4                    | 1.36                 | 15                     | <10                   | 430                    | <0.5                   | <2                     | 2.24                 | <0.5                   | 21                     | 63                     | 73                     | 3.75                 |
| CC121236           |                                   | 0.40                       | 0.003                  | 0.3                    | 1.50                 | 26                     | <10                   | 390                    | <0.5                   | <2                     | 2.98                 | <0.5                   | 48                     | 99                     | 120                    | 8.69                 |
| CC121237           |                                   | 0.44                       | 0.003                  | 0.2                    | 1.57                 | 23                     | <10                   | 250                    | <0.5                   | <2                     | 4.22                 | <0.5                   | 52                     | 113                    | 158                    | 8.96                 |
| CC121238           |                                   | 0.38                       | 0.004                  | 0.3                    | 1.51                 | 27                     | <10                   | 450                    | <0.5                   | <2                     | 2.77                 | <0.5                   | 43                     | 86                     | 79                     | 7.02                 |
| CC121239           |                                   | 0.38                       | 0.011                  | 0.8                    | 1.21                 | 57                     | <10                   | 290                    | <0.5                   | <2                     | 1.15                 | 0.7                    | 22                     | 40                     | 64                     | 4.24                 |
| CC121240           |                                   | 0.36                       | 0.001                  | <0.2                   | 1.71                 | 40                     | <10                   | 210                    | <0.5                   | <2                     | 2.29                 | <0.5                   | 97                     | 132                    | 108                    | 12.10                |
| CC121241           |                                   | 0.38                       | 0.001                  | 0.2                    | 1.77                 | 27                     | <10                   | 150                    | <0.5                   | <2                     | 2.26                 | 0.8                    | 46                     | 128                    | 94                     | 11.85                |
| CC121242           |                                   | 0.32                       | 0.008                  | 0.5                    | 1.49                 | 36                     | <10                   | 340                    | <0.5                   | <2                     | 0.93                 | 0.5                    | 55                     | 85                     | 94                     | 7.82                 |
| CC121243           |                                   | 0.44                       | <0.001                 | <0.2                   | 1.68                 | 23                     | <10                   | 220                    | <0.5                   | <2                     | 2.02                 | 0.8                    | 62                     | 123                    | 93                     | 10.75                |
| CC121244           |                                   | 0.36                       | 0.011                  | 0.5                    | 1.01                 | 117                    | <10                   | 290                    | <0.5                   | <2                     | 0.64                 | 0.8                    | 36                     | 37                     | 97                     | 6.90                 |



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## Project: Wolverine - String

**Total # Pages: 2 (A - C)**  
**Finalized Date: 13- SEP- 2011**  
**Account: F**

**CERTIFICATE OF ANALYSIS    WH11149817**

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## Project: Wolverine - String

**Total # Pages: 2 (A - C)**  
**Finalized Date: 13- SEP- 2011**  
**Account: F**

**CERTIFICATE OF ANALYSIS    WH11149817**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| CC121229           |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 106       |
| CC121230           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 130       |
| CC121231           |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 127       |
| CC121232           |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 106       |
| CC121233           |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       | 102       |
| CC121234           |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 84        |
| CC121236           |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 121       |
| CC121237           |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 98        |
| CC121238           |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 96        |
| CC121239           |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 132       |
| CC121240           |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 132       |
| CC121241           |                                   | <20       | <0.01     | <10       | <10       | 9         | <10       | 175       |
| CC121242           |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 129       |
| CC121243           |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 205       |
| CC121244           |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 137       |
|                    |                                   |           |           |           |           |           |           |           |



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Page: 1  
Finalized Date: 26- SEP- 2011  
Account: F

**CERTIFICATE WH11149969**

Project: WLV- Finlayson String  
P.O. No.:  
This report is for 210 Soil samples submitted to our lab in Whitehorse, YT, Canada  
on 9- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| LOG- 24  | Pulp Login - Rcd w/o Barcode    |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC152031           |                                   | 0.06                       | <0.001                 | 0.3                    | 0.44                 | <2                     | <10                   | 200                    | <0.5                   | <2                     | 1.54                 | 1.5                    | 2                      | 9                      | 19                     | 0.57                 |
| CC152032           |                                   | 0.16                       | 0.005                  | 1.7                    | 1.25                 | 34                     | <10                   | 520                    | 0.5                    | <2                     | 0.59                 | 2.2                    | 12                     | 35                     | 44                     | 2.82                 |
| CC152033           |                                   | 0.08                       | <0.001                 | 0.2                    | 2.05                 | 11                     | <10                   | 200                    | <0.5                   | <2                     | 0.21                 | <0.5                   | 13                     | 51                     | 21                     | 3.70                 |
| CC152034           |                                   | 0.06                       | <0.001                 | <0.2                   | 0.18                 | <2                     | <10                   | 40                     | <0.5                   | <2                     | 0.21                 | <0.5                   | 1                      | 3                      | 4                      | 0.21                 |
| CC152035           |                                   | 0.22                       | 0.004                  | 0.8                    | 1.21                 | 18                     | <10                   | 1110                   | <0.5                   | <2                     | 0.45                 | 0.8                    | 13                     | 35                     | 49                     | 2.70                 |
| CC152036           |                                   | 0.26                       | 0.004                  | 0.7                    | 0.83                 | 19                     | <10                   | 620                    | <0.5                   | <2                     | 0.29                 | 1.2                    | 7                      | 32                     | 60                     | 2.10                 |
| CC152037           |                                   | 0.10                       | <0.001                 | <0.2                   | 1.16                 | 9                      | <10                   | 140                    | <0.5                   | <2                     | 0.09                 | <0.5                   | 7                      | 41                     | 8                      | 2.73                 |
| CC152038           |                                   | 0.14                       | 0.001                  | 0.3                    | 1.61                 | 8                      | <10                   | 370                    | 0.5                    | <2                     | 0.70                 | <0.5                   | 13                     | 72                     | 38                     | 3.03                 |
| CC152039           |                                   | 0.22                       | 0.001                  | <0.2                   | 1.79                 | 10                     | <10                   | 370                    | <0.5                   | <2                     | 0.74                 | <0.5                   | 22                     | 77                     | 27                     | 3.65                 |
| CC152040           |                                   | 0.26                       | <0.001                 | 0.2                    | 1.60                 | 8                      | <10                   | 460                    | 0.5                    | <2                     | 0.76                 | 0.7                    | 16                     | 89                     | 40                     | 3.08                 |
| CC152041           |                                   | 0.12                       | 0.001                  | 0.2                    | 1.51                 | 9                      | <10                   | 430                    | 0.5                    | <2                     | 1.30                 | 0.5                    | 17                     | 81                     | 36                     | 2.74                 |
| CC152042           |                                   | 0.16                       | 0.002                  | 0.6                    | 1.48                 | 12                     | <10                   | 370                    | <0.5                   | <2                     | 0.46                 | 1.8                    | 12                     | 49                     | 44                     | 2.77                 |
| CC152043           |                                   | 0.08                       | 0.002                  | 0.2                    | 1.33                 | 16                     | <10                   | 150                    | <0.5                   | <2                     | 0.08                 | <0.5                   | 6                      | 42                     | 13                     | 3.28                 |
| CC152044           |                                   | 0.20                       | 0.029                  | 1.9                    | 0.69                 | 63                     | <10                   | 390                    | <0.5                   | <2                     | 1.04                 | 1.3                    | 10                     | 20                     | 128                    | 2.63                 |
| CC152045           |                                   | 0.16                       | <0.001                 | <0.2                   | 1.34                 | 6                      | <10                   | 60                     | <0.5                   | <2                     | 3.70                 | <0.5                   | 14                     | 18                     | 31                     | 3.11                 |
| CC152046           |                                   | 0.18                       | 0.001                  | 0.5                    | 0.66                 | 17                     | <10                   | 160                    | <0.5                   | <2                     | 1.83                 | <0.5                   | 11                     | 12                     | 40                     | 2.62                 |
| CC152047           |                                   | 0.30                       | 0.001                  | 0.3                    | 0.88                 | 15                     | <10                   | 110                    | <0.5                   | <2                     | 1.69                 | 0.9                    | 14                     | 16                     | 40                     | 3.15                 |
| CC152048           |                                   | 0.16                       | <0.001                 | <0.2                   | 1.16                 | 14                     | <10                   | 70                     | <0.5                   | <2                     | 6.61                 | <0.5                   | 14                     | 17                     | 32                     | 3.41                 |
| CC152049           |                                   | 0.24                       | <0.001                 | <0.2                   | 0.96                 | 7                      | <10                   | 80                     | <0.5                   | <2                     | 7.4                  | <0.5                   | 16                     | 14                     | 40                     | 3.12                 |
| CC152050           |                                   | 0.28                       | 0.005                  | 0.5                    | 1.22                 | 22                     | <10                   | 260                    | <0.5                   | <2                     | 0.95                 | 1.1                    | 15                     | 28                     | 57                     | 3.23                 |
| CC152101           |                                   | 0.28                       | 0.003                  | 0.3                    | 0.32                 | 7                      | <10                   | 140                    | <0.5                   | <2                     | 0.77                 | 6.8                    | 9                      | 5                      | 38                     | 1.61                 |
| CC152102           |                                   | 0.36                       | 0.004                  | 0.6                    | 0.66                 | 20                     | <10                   | 320                    | <0.5                   | <2                     | 0.76                 | 1.4                    | 9                      | 59                     | 38                     | 1.98                 |
| CC152103           |                                   | 0.24                       | 0.001                  | 1.5                    | 1.04                 | 17                     | <10                   | 160                    | <0.5                   | 2                      | 0.18                 | 1.2                    | 9                      | 44                     | 26                     | 2.51                 |
| CC152104           |                                   | 0.32                       | <0.001                 | 0.3                    | 0.88                 | 8                      | <10                   | 470                    | <0.5                   | <2                     | 0.20                 | 0.8                    | 6                      | 20                     | 24                     | 2.35                 |
| CC152105           |                                   | 0.28                       | 0.010                  | 1.1                    | 0.31                 | 29                     | <10                   | 130                    | <0.5                   | <2                     | 0.15                 | 3.6                    | 17                     | 12                     | 84                     | 4.38                 |
| CC152106           |                                   | 0.30                       | 0.003                  | <0.2                   | 0.41                 | 24                     | <10                   | 100                    | <0.5                   | <2                     | 0.14                 | 0.7                    | 5                      | 17                     | 119                    | 2.09                 |
| CC152107           |                                   | 0.44                       | 0.008                  | 0.8                    | 0.84                 | 28                     | <10                   | 360                    | <0.5                   | <2                     | 0.39                 | 2.3                    | 12                     | 28                     | 70                     | 2.61                 |
| CC152108           |                                   | 0.52                       | 0.006                  | 1.3                    | 1.30                 | 46                     | <10                   | 180                    | <0.5                   | 2                      | 0.28                 | 1.4                    | 9                      | 51                     | 81                     | 3.04                 |
| CC152109           |                                   | 0.44                       | <0.001                 | 0.5                    | 0.51                 | 21                     | <10                   | 100                    | <0.5                   | <2                     | 0.06                 | <0.5                   | 3                      | 27                     | 27                     | 1.57                 |
| CC152110           |                                   | 0.42                       | 0.018                  | 3.1                    | 0.48                 | 55                     | <10                   | 140                    | <0.5                   | <2                     | 0.08                 | 3.7                    | 11                     | 11                     | 73                     | 3.14                 |
| CC152111           |                                   | 0.36                       | <0.001                 | 0.4                    | 0.75                 | 7                      | <10                   | 50                     | <0.5                   | <2                     | 0.06                 | <0.5                   | 2                      | 24                     | 7                      | 1.41                 |
| CC152112           |                                   | 0.38                       | <0.001                 | 0.8                    | 1.60                 | 9                      | <10                   | 170                    | 0.5                    | <2                     | 0.12                 | <0.5                   | 8                      | 48                     | 11                     | 2.93                 |
| CC152113           |                                   | 0.32                       | 0.021                  | 1.2                    | 1.11                 | 42                     | <10                   | 400                    | <0.5                   | <2                     | 0.18                 | 0.5                    | 8                      | 55                     | 37                     | 2.17                 |
| CC152114           |                                   | 0.46                       | 0.001                  | 0.6                    | 1.64                 | 11                     | <10                   | 430                    | <0.5                   | <2                     | 0.18                 | <0.5                   | 11                     | 57                     | 20                     | 2.90                 |
| CC152115           |                                   | 0.34                       | 0.023                  | 0.9                    | 0.28                 | 26                     | <10                   | 440                    | <0.5                   | <2                     | 0.03                 | <0.5                   | 1                      | 21                     | 12                     | 1.43                 |
| CC152116           |                                   | 0.42                       | <0.001                 | 0.3                    | 1.75                 | 10                     | <10                   | 300                    | <0.5                   | <2                     | 0.16                 | <0.5                   | 10                     | 59                     | 12                     | 2.99                 |
| CC152117           |                                   | 0.38                       | 0.001                  | 0.5                    | 1.83                 | 12                     | <10                   | 350                    | <0.5                   | <2                     | 0.14                 | <0.5                   | 10                     | 58                     | 16                     | 3.01                 |
| CC152118           |                                   | 0.36                       | 0.002                  | <0.2                   | 1.87                 | 14                     | <10                   | 240                    | 0.5                    | <2                     | 0.14                 | 0.6                    | 16                     | 53                     | 29                     | 3.14                 |
| CC152119           |                                   | 0.38                       | <0.001                 | 0.5                    | 1.88                 | 14                     | <10                   | 400                    | 0.6                    | <2                     | 0.18                 | <0.5                   | 14                     | 48                     | 41                     | 3.02                 |
| CC152120           |                                   | 0.40                       | 0.003                  | 0.4                    | 1.46                 | 9                      | <10                   | 480                    | <0.5                   | <2                     | 0.51                 | 2.7                    | 12                     | 46                     | 43                     | 2.47                 |



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Page: 2 - B  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC152031           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.21                         | 195                         | 1                           | 0.04                         | 12                          | 650                         | 3                           | 0.18                        | <2                          | 1                           | 75                          |
| CC152032           |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.48                         | 541                         | 9                           | 0.02                         | 44                          | 990                         | 18                          | 0.03                        | 6                           | 3                           | 68                          |
| CC152033           |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.80                         | 471                         | 1                           | 0.01                         | 24                          | 460                         | 8                           | 0.01                        | <2                          | 4                           | 11                          |
| CC152034           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.04                         | 19                          | <1                          | 0.04                         | 4                           | 250                         | <2                          | 0.02                        | <2                          | <1                          | 16                          |
| CC152035           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.62                         | 279                         | 4                           | 0.02                         | 66                          | 1080                        | 12                          | 0.03                        | <2                          | 3                           | 39                          |
| CC152036           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.37                         | 294                         | 5                           | 0.02                         | 39                          | 1300                        | 12                          | 0.02                        | 2                           | 2                           | 55                          |
| CC152037           |                                   | 10                           | <1                          | 0.05                        | 20                           | 0.34                         | 307                         | 2                           | 0.01                         | 17                          | 360                         | 11                          | <0.01                       | <2                          | 2                           | 6                           |
| CC152038           |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.05                         | 552                         | 1                           | 0.02                         | 71                          | 940                         | 10                          | 0.03                        | <2                          | 5                           | 37                          |
| CC152039           |                                   | <10                          | 1                           | 0.08                        | 10                           | 1.07                         | 742                         | 1                           | 0.02                         | 54                          | 940                         | 12                          | 0.03                        | <2                          | 5                           | 35                          |
| CC152040           |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.11                         | 341                         | 1                           | 0.02                         | 88                          | 900                         | 13                          | 0.03                        | <2                          | 5                           | 36                          |
| CC152041           |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.04                         | 819                         | 1                           | 0.02                         | 86                          | 850                         | 12                          | 0.06                        | <2                          | 4                           | 55                          |
| CC152042           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.82                         | 297                         | 2                           | 0.02                         | 45                          | 1050                        | 12                          | 0.02                        | <2                          | 4                           | 34                          |
| CC152043           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.49                         | 190                         | 3                           | 0.01                         | 25                          | 580                         | 16                          | 0.01                        | <2                          | 2                           | 13                          |
| CC152044           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.16                         | 255                         | 11                          | 0.01                         | 72                          | 2660                        | 19                          | 0.02                        | 10                          | 3                           | 74                          |
| CC152045           |                                   | <10                          | <1                          | 0.03                        | 30                           | 0.74                         | 283                         | <1                          | 0.01                         | 29                          | 650                         | 12                          | 0.01                        | <2                          | 2                           | 94                          |
| CC152046           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.18                         | 190                         | 1                           | 0.02                         | 27                          | 820                         | 14                          | 0.04                        | 2                           | 2                           | 54                          |
| CC152047           |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.52                         | 358                         | 1                           | 0.01                         | 35                          | 800                         | 11                          | 0.02                        | <2                          | 3                           | 35                          |
| CC152048           |                                   | <10                          | <1                          | 0.03                        | 30                           | 0.77                         | 435                         | 1                           | 0.01                         | 31                          | 530                         | 9                           | 0.02                        | <2                          | 3                           | 112                         |
| CC152049           |                                   | <10                          | <1                          | 0.04                        | 40                           | 0.85                         | 526                         | 1                           | 0.01                         | 29                          | 600                         | 11                          | 0.01                        | <2                          | 3                           | 137                         |
| CC152050           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.57                         | 469                         | 4                           | 0.01                         | 48                          | 940                         | 15                          | 0.03                        | <2                          | 3                           | 42                          |
| CC152101           |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.12                         | 506                         | 6                           | 0.02                         | 16                          | 550                         | 11                          | 0.03                        | <2                          | 1                           | 30                          |
| CC152102           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.34                         | 338                         | 5                           | 0.01                         | 78                          | 600                         | 12                          | 0.03                        | <2                          | 2                           | 51                          |
| CC152103           |                                   | 10                           | <1                          | 0.09                        | 10                           | 0.36                         | 487                         | 5                           | 0.01                         | 38                          | 2400                        | 16                          | 0.02                        | <2                          | 2                           | 19                          |
| CC152104           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.14                         | 228                         | 3                           | 0.01                         | 30                          | 410                         | 9                           | 0.01                        | <2                          | 1                           | 20                          |
| CC152105           |                                   | <10                          | <1                          | 0.06                        | 30                           | 0.05                         | 999                         | 13                          | 0.01                         | 98                          | 1590                        | 25                          | 0.01                        | 8                           | 1                           | 21                          |
| CC152106           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.11                         | 125                         | 8                           | 0.01                         | 30                          | 660                         | 11                          | 0.02                        | 4                           | 1                           | 35                          |
| CC152107           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.30                         | 469                         | 5                           | 0.01                         | 51                          | 810                         | 15                          | 0.01                        | 4                           | 3                           | 48                          |
| CC152108           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.62                         | 371                         | 6                           | 0.01                         | 47                          | 1910                        | 19                          | 0.03                        | 4                           | 2                           | 61                          |
| CC152109           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.08                         | 86                          | 4                           | 0.01                         | 17                          | 880                         | 16                          | 0.04                        | <2                          | 1                           | 42                          |
| CC152110           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.03                         | 341                         | 12                          | 0.01                         | 53                          | 1510                        | 18                          | 0.02                        | 17                          | 1                           | 45                          |
| CC152111           |                                   | 10                           | <1                          | 0.03                        | 10                           | 0.20                         | 79                          | 2                           | 0.01                         | 8                           | 330                         | 9                           | 0.01                        | <2                          | 1                           | 5                           |
| CC152112           |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.61                         | 267                         | 2                           | 0.01                         | 27                          | 470                         | 10                          | 0.01                        | <2                          | 3                           | 8                           |
| CC152113           |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.48                         | 477                         | 6                           | 0.01                         | 40                          | 2700                        | 21                          | 0.05                        | 9                           | 1                           | 101                         |
| CC152114           |                                   | 10                           | <1                          | 0.07                        | 20                           | 0.66                         | 452                         | 2                           | 0.01                         | 45                          | 660                         | 13                          | <0.01                       | 3                           | 3                           | 19                          |
| CC152115           |                                   | <10                          | 1                           | 0.10                        | 10                           | 0.08                         | 104                         | 5                           | 0.01                         | 7                           | 1980                        | 11                          | 0.24                        | 17                          | 2                           | 214                         |
| CC152116           |                                   | 10                           | 1                           | 0.06                        | 10                           | 0.67                         | 483                         | 2                           | 0.01                         | 36                          | 520                         | 10                          | <0.01                       | 2                           | 3                           | 15                          |
| CC152117           |                                   | 10                           | <1                          | 0.07                        | 20                           | 0.66                         | 425                         | 2                           | 0.01                         | 39                          | 400                         | 13                          | 0.01                        | <2                          | 3                           | 14                          |
| CC152118           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.67                         | 695                         | 2                           | 0.01                         | 42                          | 600                         | 13                          | 0.01                        | 3                           | 3                           | 12                          |
| CC152119           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.70                         | 796                         | 1                           | 0.01                         | 41                          | 570                         | 12                          | 0.01                        | 3                           | 4                           | 16                          |
| CC152120           |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.73                         | 468                         | 2                           | 0.01                         | 43                          | 1070                        | 14                          | 0.04                        | 2                           | 4                           | 51                          |



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Page: 2 - C  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC152031           |                                   | <20       | 0.02      | <10       | <10       | 9         | <10       | 31        |
| CC152032           |                                   | <20       | 0.03      | <10       | <10       | 63        | <10       | 336       |
| CC152033           |                                   | <20       | 0.16      | <10       | <10       | 62        | <10       | 83        |
| CC152034           |                                   | <20       | 0.02      | <10       | <10       | 5         | <10       | 6         |
| CC152035           |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       | 161       |
| CC152036           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 150       |
| CC152037           |                                   | <20       | 0.10      | <10       | <10       | 73        | <10       | 44        |
| CC152038           |                                   | <20       | 0.07      | <10       | <10       | 52        | <10       | 101       |
| CC152039           |                                   | <20       | 0.08      | <10       | <10       | 59        | <10       | 112       |
| CC152040           |                                   | <20       | 0.07      | <10       | <10       | 56        | <10       | 112       |
| CC152041           |                                   | <20       | 0.05      | <10       | <10       | 48        | <10       | 94        |
| CC152042           |                                   | <20       | 0.07      | <10       | <10       | 50        | <10       | 121       |
| CC152043           |                                   | <20       | 0.06      | <10       | <10       | 56        | <10       | 112       |
| CC152044           |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 176       |
| CC152045           |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 81        |
| CC152046           |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 79        |
| CC152047           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 121       |
| CC152048           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 84        |
| CC152049           |                                   | 20        | <0.01     | <10       | <10       | 10        | <10       | 71        |
| CC152050           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 158       |
| CC152101           |                                   | <20       | 0.01      | <10       | <10       | 9         | <10       | 476       |
| CC152102           |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 187       |
| CC152103           |                                   | <20       | 0.07      | <10       | <10       | 49        | <10       | 182       |
| CC152104           |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 117       |
| CC152105           |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       | 315       |
| CC152106           |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 188       |
| CC152107           |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 262       |
| CC152108           |                                   | <20       | 0.06      | <10       | <10       | 68        | <10       | 185       |
| CC152109           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 90        |
| CC152110           |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       | 230       |
| CC152111           |                                   | <20       | 0.07      | <10       | <10       | 37        | <10       | 31        |
| CC152112           |                                   | <20       | 0.12      | <10       | <10       | 64        | <10       | 74        |
| CC152113           |                                   | <20       | 0.02      | <10       | <10       | 55        | <10       | 73        |
| CC152114           |                                   | <20       | 0.06      | <10       | <10       | 58        | <10       | 72        |
| CC152115           |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 13        |
| CC152116           |                                   | <20       | 0.06      | <10       | <10       | 66        | <10       | 72        |
| CC152117           |                                   | <20       | 0.06      | <10       | <10       | 61        | <10       | 75        |
| CC152118           |                                   | <20       | 0.08      | <10       | <10       | 55        | <10       | 74        |
| CC152119           |                                   | <20       | 0.08      | <10       | <10       | 52        | <10       | 73        |
| CC152120           |                                   | <20       | 0.07      | <10       | <10       | 47        | <10       | 110       |



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Page: 3 - A  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC152121           |                                   | 0.42                       | 0.001                  | 0.3                    | 1.45                 | 12                     | <10                   | 460                    | <0.5                   | <2                     | 0.84                 | 2.2                    | 13                     | 49                     | 37                     | 2.85                 |
| CC152122           |                                   | 0.40                       | <0.001                 | 0.2                    | 1.63                 | 9                      | <10                   | 470                    | <0.5                   | <2                     | 0.80                 | 0.6                    | 14                     | 54                     | 30                     | 2.84                 |
| CC152123           |                                   | 0.22                       | <0.001                 | 0.5                    | 1.01                 | 37                     | <10                   | 460                    | <0.5                   | <2                     | 0.86                 | 0.7                    | 9                      | 37                     | 21                     | 3.84                 |
| CC152124           |                                   | 0.34                       | 0.001                  | 0.6                    | 1.70                 | 18                     | <10                   | 560                    | <0.5                   | <2                     | 0.32                 | <0.5                   | 13                     | 70                     | 35                     | 3.35                 |
| CC152125           |                                   | 0.28                       | 0.009                  | 1.4                    | 1.53                 | 50                     | <10                   | 280                    | 0.5                    | <2                     | 0.14                 | 0.9                    | 9                      | 44                     | 59                     | 3.71                 |
| CC152126           |                                   | 0.32                       | 0.001                  | 0.3                    | 0.57                 | 16                     | <10                   | 340                    | <0.5                   | <2                     | 0.67                 | 1.5                    | 7                      | 13                     | 26                     | 2.20                 |
| CC152127           |                                   | 0.24                       | 0.028                  | 2.0                    | 0.19                 | 41                     | <10                   | 340                    | <0.5                   | <2                     | 0.05                 | 0.8                    | <1                     | 15                     | 9                      | 1.35                 |
| CC152128           |                                   | 0.36                       | 0.013                  | 0.8                    | 0.70                 | 39                     | <10                   | 340                    | <0.5                   | <2                     | 0.44                 | 1.1                    | 10                     | 22                     | 67                     | 2.42                 |
| CC152129           |                                   | 0.32                       | 0.010                  | 0.9                    | 0.69                 | 32                     | <10                   | 320                    | <0.5                   | <2                     | 0.59                 | 1.2                    | 7                      | 17                     | 70                     | 3.56                 |
| CC152130           |                                   | 0.26                       | 0.005                  | 0.6                    | 0.91                 | 17                     | <10                   | 290                    | <0.5                   | <2                     | 0.46                 | 0.8                    | 8                      | 30                     | 45                     | 1.82                 |
| CC152131           |                                   | 0.26                       | 0.004                  | 0.6                    | 1.06                 | 24                     | <10                   | 260                    | <0.5                   | <2                     | 0.42                 | 1.8                    | 14                     | 35                     | 28                     | 2.14                 |
| CC152132           |                                   | 0.48                       | 0.020                  | 0.7                    | 1.25                 | 21                     | <10                   | 400                    | <0.5                   | <2                     | 0.48                 | 2.3                    | 12                     | 45                     | 82                     | 2.78                 |
| CC152133           |                                   | 0.34                       | 0.015                  | 1.6                    | 0.85                 | 31                     | <10                   | 520                    | <0.5                   | <2                     | 0.53                 | 6.4                    | 16                     | 27                     | 80                     | 1.87                 |
| CC152134           |                                   | 0.28                       | 0.007                  | 0.7                    | 1.16                 | 23                     | <10                   | 480                    | <0.5                   | <2                     | 0.51                 | 2.3                    | 11                     | 46                     | 57                     | 1.88                 |
| CC152135           |                                   | 0.34                       | <0.001                 | <0.2                   | 1.14                 | 26                     | <10                   | 160                    | <0.5                   | 2                      | 0.20                 | <0.5                   | 11                     | 61                     | 23                     | 3.22                 |
| CC152136           |                                   | 0.32                       | 0.003                  | 0.3                    | 1.32                 | 17                     | <10                   | 300                    | <0.5                   | <2                     | 0.43                 | <0.5                   | 14                     | 43                     | 43                     | 2.97                 |
| CC152137           |                                   | 0.30                       | 0.006                  | 2.1                    | 1.27                 | 39                     | <10                   | 440                    | 0.5                    | <2                     | 0.84                 | 59.7                   | 14                     | 42                     | 116                    | 2.57                 |
| CC152138           |                                   | 0.34                       | 0.004                  | 1.1                    | 1.14                 | 29                     | <10                   | 240                    | <0.5                   | <2                     | 0.12                 | 1.0                    | 5                      | 29                     | 41                     | 2.43                 |
| CC152139           |                                   | 0.36                       | <0.001                 | 0.3                    | 1.64                 | 17                     | <10                   | 260                    | <0.5                   | <2                     | 0.15                 | <0.5                   | 11                     | 40                     | 19                     | 3.09                 |
| CC152140           |                                   | 0.34                       | <0.001                 | <0.2                   | 1.64                 | 15                     | <10                   | 190                    | <0.5                   | <2                     | 0.11                 | <0.5                   | 8                      | 42                     | 14                     | 3.50                 |
| CC152141           |                                   | 0.16                       | <0.001                 | 0.3                    | 1.10                 | 9                      | <10                   | 1860                   | <0.5                   | <2                     | 1.19                 | 1.0                    | 8                      | 38                     | 20                     | 2.25                 |
| CC152142           |                                   | 0.40                       | 0.001                  | 0.2                    | 1.52                 | 13                     | <10                   | 370                    | <0.5                   | <2                     | 0.70                 | <0.5                   | 11                     | 70                     | 35                     | 3.14                 |
| CC152143           |                                   | 0.20                       | 0.010                  | 1.6                    | 0.97                 | 21                     | <10                   | 460                    | <0.5                   | <2                     | 0.67                 | 0.8                    | 9                      | 37                     | 80                     | 2.09                 |
| CC152144           |                                   | 0.34                       | 0.003                  | 1.1                    | 1.09                 | 31                     | <10                   | 310                    | <0.5                   | <2                     | 0.56                 | 1.3                    | 17                     | 53                     | 51                     | 2.70                 |
| CC152145           |                                   | 0.42                       | <0.001                 | <0.2                   | 1.31                 | 10                     | <10                   | 290                    | <0.5                   | <2                     | 0.56                 | <0.5                   | 15                     | 71                     | 26                     | 2.73                 |
| CC152146           |                                   | 0.46                       | <0.001                 | 0.4                    | 1.43                 | 11                     | <10                   | 310                    | <0.5                   | <2                     | 0.25                 | 0.6                    | 9                      | 57                     | 12                     | 2.64                 |
| CC152147           |                                   | 0.50                       | 0.006                  | 0.7                    | 1.73                 | 14                     | <10                   | 310                    | 0.6                    | <2                     | 0.27                 | 0.7                    | 13                     | 55                     | 26                     | 2.86                 |
| CC152148           |                                   | 0.24                       | 0.019                  | 1.0                    | 1.07                 | 77                     | <10                   | 360                    | 0.6                    | <2                     | 0.25                 | 1.4                    | 10                     | 33                     | 73                     | 2.71                 |
| CC152149           |                                   | 0.18                       | 0.014                  | 2.1                    | 0.88                 | 21                     | <10                   | 240                    | <0.5                   | <2                     | 0.80                 | 2.3                    | 6                      | 23                     | 175                    | 1.53                 |
| CC152150           |                                   | 0.26                       | 0.042                  | 1.0                    | 0.44                 | 20                     | <10                   | 70                     | <0.5                   | <2                     | 0.08                 | 1.2                    | 9                      | 8                      | 244                    | 2.14                 |
| CC152151           |                                   | 0.30                       | 0.008                  | <0.2                   | 1.69                 | 21                     | <10                   | 270                    | 0.5                    | 2                      | 0.18                 | 0.9                    | 23                     | 138                    | 65                     | 3.43                 |
| CC152152           |                                   | 0.24                       | 0.002                  | 0.2                    | 0.24                 | 5                      | <10                   | 100                    | <0.5                   | <2                     | 0.19                 | 1.5                    | 7                      | 9                      | 30                     | 0.95                 |
| CC152153           |                                   | 0.38                       | 0.005                  | 0.4                    | 0.80                 | 10                     | <10                   | 190                    | <0.5                   | 2                      | 0.55                 | 1.6                    | 8                      | 40                     | 36                     | 1.72                 |
| CC152154           |                                   | 0.34                       | 0.011                  | 0.6                    | 0.81                 | 15                     | <10                   | 300                    | <0.5                   | <2                     | 0.62                 | 2.3                    | 9                      | 32                     | 62                     | 1.87                 |
| CC152155           |                                   | 0.38                       | 0.005                  | 0.3                    | 0.69                 | 14                     | <10                   | 200                    | <0.5                   | <2                     | 0.42                 | 1.6                    | 11                     | 18                     | 47                     | 2.89                 |
| CC152156           |                                   | 0.26                       | 0.012                  | 0.8                    | 0.76                 | 22                     | <10                   | 290                    | <0.5                   | <2                     | 0.47                 | 1.4                    | 7                      | 25                     | 86                     | 1.73                 |
| CC152157           |                                   | 0.30                       | 0.006                  | 0.7                    | 0.49                 | 18                     | <10                   | 260                    | <0.5                   | <2                     | 0.71                 | 2.1                    | 10                     | 20                     | 63                     | 1.93                 |
| CC152158           |                                   | 0.46                       | 0.015                  | 1.0                    | 0.47                 | 27                     | <10                   | 220                    | <0.5                   | <2                     | 0.57                 | 4.8                    | 6                      | 14                     | 107                    | 1.69                 |
| CC152159           |                                   | 0.46                       | 0.024                  | 0.8                    | 0.40                 | 43                     | <10                   | 220                    | <0.5                   | <2                     | 0.12                 | 6.9                    | 5                      | 13                     | 111                    | 2.36                 |
| CC152160           |                                   | 0.36                       | 0.010                  | 0.7                    | 1.17                 | 24                     | <10                   | 300                    | <0.5                   | <2                     | 0.28                 | 1.0                    | 14                     | 40                     | 75                     | 2.95                 |



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Page: 3 - B  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC152121           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.74                         | 628                         | 1                           | 0.01                         | 47                          | 1010                        | 11                          | 0.03                        | 4                           | 4                           | 66                          |
| CC152122           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.93                         | 567                         | 2                           | 0.01                         | 43                          | 1020                        | 9                           | 0.05                        | 3                           | 4                           | 46                          |
| CC152123           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.48                         | 417                         | 7                           | 0.02                         | 31                          | 1040                        | 12                          | 0.07                        | 3                           | 3                           | 62                          |
| CC152124           |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.78                         | 536                         | 2                           | 0.01                         | 51                          | 540                         | 16                          | 0.01                        | 3                           | 4                           | 26                          |
| CC152125           |                                   | 10                           | <1                          | 0.09                        | 20                           | 0.44                         | 365                         | 7                           | 0.01                         | 46                          | 1750                        | 26                          | 0.04                        | 14                          | 2                           | 71                          |
| CC152126           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.20                         | 394                         | 3                           | 0.01                         | 21                          | 940                         | 9                           | 0.05                        | 6                           | 2                           | 51                          |
| CC152127           |                                   | <10                          | <1                          | 0.13                        | 20                           | 0.01                         | 14                          | 7                           | 0.01                         | 4                           | 2480                        | 55                          | 0.21                        | 12                          | 1                           | 115                         |
| CC152128           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.23                         | 400                         | 6                           | 0.01                         | 31                          | 1350                        | 15                          | 0.01                        | 6                           | 2                           | 60                          |
| CC152129           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.18                         | 296                         | 8                           | 0.01                         | 22                          | 1460                        | 13                          | 0.05                        | 5                           | 2                           | 75                          |
| CC152130           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.31                         | 551                         | 3                           | 0.01                         | 23                          | 1320                        | 12                          | 0.05                        | 4                           | 2                           | 46                          |
| CC152131           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.40                         | 1475                        | 6                           | 0.02                         | 36                          | 1420                        | 13                          | 0.04                        | 4                           | 2                           | 53                          |
| CC152132           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.71                         | 250                         | 3                           | 0.01                         | 100                         | 1390                        | 15                          | 0.01                        | 8                           | 5                           | 61                          |
| CC152133           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.24                         | 599                         | 5                           | 0.01                         | 107                         | 1460                        | 18                          | 0.04                        | 9                           | 3                           | 103                         |
| CC152134           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.55                         | 342                         | 4                           | 0.02                         | 46                          | 1080                        | 13                          | 0.06                        | 6                           | 4                           | 59                          |
| CC152135           |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.55                         | 485                         | 3                           | 0.01                         | 33                          | 1140                        | 16                          | 0.02                        | 3                           | 2                           | 36                          |
| CC152136           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.82                         | 719                         | 1                           | 0.01                         | 47                          | 1200                        | 11                          | 0.01                        | 4                           | 4                           | 38                          |
| CC152137           |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.43                         | 6900                        | 138                         | 0.02                         | 298                         | 1810                        | 14                          | 0.11                        | 16                          | 3                           | 82                          |
| CC152138           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.18                         | 215                         | 10                          | 0.01                         | 25                          | 1300                        | 16                          | 0.03                        | 5                           | 2                           | 43                          |
| CC152139           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.57                         | 594                         | 2                           | 0.01                         | 25                          | 350                         | 13                          | 0.01                        | 2                           | 3                           | 13                          |
| CC152140           |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.53                         | 351                         | 1                           | 0.01                         | 22                          | 420                         | 10                          | 0.01                        | 2                           | 3                           | 12                          |
| CC152141           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.52                         | 525                         | 1                           | 0.04                         | 27                          | 1230                        | 12                          | 0.12                        | 2                           | 3                           | 85                          |
| CC152142           |                                   | <10                          | 1                           | 0.06                        | 10                           | 1.01                         | 431                         | 3                           | 0.01                         | 39                          | 1050                        | 7                           | 0.03                        | 4                           | 4                           | 44                          |
| CC152143           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.41                         | 298                         | 3                           | 0.03                         | 29                          | 1300                        | 12                          | 0.07                        | 5                           | 2                           | 66                          |
| CC152144           |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.54                         | 773                         | 8                           | 0.02                         | 28                          | 1730                        | 18                          | 0.05                        | 6                           | 3                           | 69                          |
| CC152145           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.97                         | 618                         | 4                           | 0.02                         | 62                          | 1110                        | 11                          | 0.02                        | 2                           | 4                           | 33                          |
| CC152146           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.69                         | 333                         | 1                           | 0.01                         | 37                          | 550                         | 9                           | 0.01                        | 2                           | 3                           | 21                          |
| CC152147           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.81                         | 434                         | 2                           | 0.01                         | 55                          | 1080                        | 11                          | 0.01                        | 3                           | 3                           | 22                          |
| CC152148           |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.28                         | 305                         | 9                           | 0.02                         | 60                          | 1530                        | 19                          | 0.03                        | 11                          | 2                           | 55                          |
| CC152149           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.25                         | 146                         | 2                           | 0.01                         | 54                          | 1850                        | 25                          | 0.08                        | 5                           | 2                           | 81                          |
| CC152150           |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.07                         | 291                         | 2                           | <0.01                        | 45                          | 580                         | 6                           | 0.02                        | 3                           | 2                           | 10                          |
| CC152151           |                                   | <10                          | <1                          | 0.06                        | 20                           | 1.35                         | 792                         | 3                           | 0.01                         | 195                         | 680                         | 11                          | 0.01                        | 4                           | 3                           | 21                          |
| CC152152           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.06                         | 376                         | <1                          | 0.01                         | 20                          | 430                         | 3                           | 0.01                        | <2                          | 1                           | 18                          |
| CC152153           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.45                         | 160                         | 1                           | 0.01                         | 58                          | 770                         | 9                           | 0.02                        | 2                           | 3                           | 47                          |
| CC152154           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.37                         | 246                         | 1                           | 0.01                         | 42                          | 920                         | 9                           | 0.06                        | 3                           | 3                           | 54                          |
| CC152155           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.28                         | 171                         | 3                           | 0.01                         | 43                          | 800                         | 9                           | 0.01                        | 3                           | 2                           | 31                          |
| CC152156           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.26                         | 135                         | 3                           | 0.01                         | 31                          | 1080                        | 13                          | 0.02                        | 5                           | 2                           | 58                          |
| CC152157           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.17                         | 788                         | 9                           | 0.01                         | 50                          | 1220                        | 9                           | 0.05                        | 4                           | 2                           | 77                          |
| CC152158           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.14                         | 212                         | 5                           | 0.01                         | 40                          | 1440                        | 10                          | 0.03                        | 7                           | 2                           | 117                         |
| CC152159           |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.10                         | 225                         | 5                           | 0.01                         | 40                          | 750                         | 11                          | 0.17                        | 15                          | 2                           | 126                         |
| CC152160           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.50                         | 505                         | 2                           | 0.01                         | 43                          | 1440                        | 9                           | 0.02                        | 2                           | 3                           | 54                          |



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Page: 3 - C  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| CC152121           |                                   | <20       | 0.05      | <10       | <10       | 47        | <10       | 91        |
| CC152122           |                                   | <20       | 0.08      | <10       | <10       | 55        | <10       | 80        |
| CC152123           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 66        |
| CC152124           |                                   | <20       | 0.07      | <10       | <10       | 64        | <10       | 95        |
| CC152125           |                                   | <20       | 0.06      | <10       | <10       | 70        | <10       | 154       |
| CC152126           |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 71        |
| CC152127           |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 31        |
| CC152128           |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 156       |
| CC152129           |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 124       |
| CC152130           |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 84        |
| CC152131           |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 152       |
| CC152132           |                                   | <20       | 0.06      | <10       | 10        | 50        | <10       | 412       |
| CC152133           |                                   | <20       | 0.01      | <10       | 10        | 40        | <10       | 254       |
| CC152134           |                                   | <20       | 0.04      | <10       | <10       | 50        | <10       | 133       |
| CC152135           |                                   | <20       | 0.08      | <10       | <10       | 67        | <10       | 104       |
| CC152136           |                                   | <20       | 0.10      | <10       | <10       | 49        | <10       | 96        |
| CC152137           |                                   | <20       | 0.02      | <10       | 10        | 68        | <10       | 860       |
| CC152138           |                                   | <20       | 0.04      | <10       | <10       | 58        | <10       | 130       |
| CC152139           |                                   | <20       | 0.12      | <10       | <10       | 62        | <10       | 65        |
| CC152140           |                                   | <20       | 0.16      | <10       | <10       | 73        | <10       | 51        |
| CC152141           |                                   | <20       | 0.04      | <10       | <10       | 35        | <10       | 98        |
| CC152142           |                                   | <20       | 0.10      | <10       | <10       | 62        | <10       | 84        |
| CC152143           |                                   | <20       | 0.02      | <10       | 10        | 49        | <10       | 77        |
| CC152144           |                                   | <20       | 0.05      | <10       | 10        | 73        | <10       | 120       |
| CC152145           |                                   | <20       | 0.08      | <10       | <10       | 48        | <10       | 92        |
| CC152146           |                                   | <20       | 0.08      | <10       | <10       | 56        | <10       | 82        |
| CC152147           |                                   | <20       | 0.07      | <10       | <10       | 53        | <10       | 154       |
| CC152148           |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 211       |
| CC152149           |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 117       |
| CC152150           |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 151       |
| CC152151           |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 200       |
| CC152152           |                                   | <20       | 0.01      | <10       | <10       | 7         | <10       | 123       |
| CC152153           |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 374       |
| CC152154           |                                   | <20       | 0.03      | <10       | <10       | 26        | <10       | 143       |
| CC152155           |                                   | <20       | 0.02      | <10       | <10       | 19        | <10       | 200       |
| CC152156           |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 154       |
| CC152157           |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 196       |
| CC152158           |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 419       |
| CC152159           |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 158       |
| CC152160           |                                   | <20       | 0.04      | <10       | <10       | 41        | <10       | 147       |



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Page: 4 - A  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC152161           |                                   | 0.18                       | <0.001                 | 0.2                    | 1.00                 | 11                     | <10                   | 120                    | <0.5                   | <2                     | 0.14                 | <0.5                   | 7                      | 41                     | 10                     | 2.14                 |
| CC152162           |                                   | 0.28                       | 0.003                  | 0.4                    | 1.65                 | 9                      | <10                   | 580                    | <0.5                   | 2                      | 0.64                 | <0.5                   | 15                     | 61                     | 21                     | 3.13                 |
| CC152163           |                                   | 0.32                       | 0.005                  | 0.2                    | 1.49                 | 9                      | <10                   | 420                    | <0.5                   | <2                     | 0.47                 | <0.5                   | 15                     | 60                     | 33                     | 2.94                 |
| CC152164           |                                   | 0.38                       | 0.004                  | 0.2                    | 2.16                 | 17                     | <10                   | 630                    | 0.5                    | <2                     | 0.23                 | <0.5                   | 19                     | 75                     | 47                     | 3.93                 |
| CC152165           |                                   | 0.42                       | 0.003                  | 0.2                    | 1.90                 | 9                      | <10                   | 250                    | 0.5                    | <2                     | 0.20                 | <0.5                   | 17                     | 62                     | 29                     | 3.16                 |
| CC152166           |                                   | 0.20                       | <0.001                 | <0.2                   | 0.98                 | 2                      | <10                   | 350                    | <0.5                   | <2                     | 0.06                 | 0.6                    | 5                      | 13                     | 9                      | 1.31                 |
| CC152167           |                                   | 0.16                       | 0.001                  | <0.2                   | 1.22                 | 7                      | <10                   | 890                    | 0.7                    | 2                      | 0.08                 | 8.8                    | 8                      | 16                     | 87                     | 3.52                 |
| CC152168           |                                   | 0.26                       | 0.001                  | 0.6                    | 1.60                 | 13                     | <10                   | 150                    | <0.5                   | <2                     | 0.11                 | 0.7                    | 10                     | 62                     | 16                     | 3.04                 |
| CC152169           |                                   | 0.48                       | 0.009                  | 0.4                    | 1.50                 | 39                     | <10                   | 240                    | 0.6                    | <2                     | 0.13                 | 0.5                    | 13                     | 43                     | 63                     | 2.98                 |
| CC152170           |                                   | 0.30                       | 0.014                  | 1.0                    | 0.96                 | 34                     | <10                   | 280                    | <0.5                   | <2                     | 0.08                 | 1.0                    | 6                      | 22                     | 56                     | 2.74                 |
| CC152171           |                                   | 0.30                       | 0.002                  | 0.2                    | 1.03                 | 24                     | <10                   | 170                    | <0.5                   | <2                     | 0.31                 | 0.5                    | 8                      | 32                     | 19                     | 2.42                 |
| CC152172           |                                   | 0.24                       | <0.001                 | <0.2                   | 1.36                 | 10                     | <10                   | 90                     | <0.5                   | <2                     | 0.06                 | <0.5                   | 6                      | 35                     | 10                     | 2.99                 |
| CC152173           |                                   | 0.28                       | 0.004                  | <0.2                   | 1.32                 | 10                     | <10                   | 320                    | <0.5                   | <2                     | 0.29                 | <0.5                   | 13                     | 48                     | 35                     | 2.64                 |
| CC152174           |                                   | 0.24                       | 0.007                  | 0.6                    | 1.94                 | 28                     | <10                   | 790                    | 0.8                    | <2                     | 0.91                 | 0.6                    | 21                     | 87                     | 77                     | 4.58                 |
| CC152175           |                                   | 0.28                       | 0.002                  | <0.2                   | 1.26                 | 13                     | <10                   | 240                    | <0.5                   | 2                      | 0.44                 | <0.5                   | 15                     | 85                     | 23                     | 2.75                 |
| CC152176           |                                   | 0.26                       | 0.011                  | 1.0                    | 1.68                 | 19                     | <10                   | 380                    | <0.5                   | 2                      | 0.74                 | 0.8                    | 15                     | 63                     | 37                     | 3.35                 |
| CC152177           |                                   | 0.26                       | 0.002                  | <0.2                   | 1.19                 | 11                     | <10                   | 220                    | <0.5                   | <2                     | 0.62                 | <0.5                   | 10                     | 47                     | 19                     | 2.67                 |
| CC152178           |                                   | 0.24                       | 0.036                  | 1.6                    | 0.67                 | 151                    | <10                   | 180                    | 0.5                    | <2                     | 0.33                 | 2.5                    | 17                     | 38                     | 92                     | 3.39                 |
| CC152179           |                                   | 0.30                       | 0.007                  | 0.2                    | 1.11                 | 23                     | <10                   | 340                    | <0.5                   | <2                     | 0.70                 | 1.3                    | 11                     | 38                     | 48                     | 2.31                 |
| CC152180           |                                   | 0.20                       | 0.004                  | 0.2                    | 1.36                 | 23                     | <10                   | 410                    | <0.5                   | <2                     | 0.77                 | 1.5                    | 13                     | 72                     | 43                     | 1.83                 |
| CC152181           |                                   | 0.28                       | 0.002                  | 0.2                    | 1.09                 | 117                    | <10                   | 270                    | <0.5                   | <2                     | 0.57                 | 1.0                    | 30                     | 43                     | 33                     | 4.20                 |
| CC152182           |                                   | 0.30                       | 0.005                  | 0.3                    | 1.53                 | 20                     | <10                   | 360                    | <0.5                   | <2                     | 0.55                 | 1.1                    | 11                     | 45                     | 40                     | 2.91                 |
| CC152183           |                                   | 0.30                       | 0.001                  | 0.5                    | 1.29                 | 25                     | <10                   | 370                    | <0.5                   | <2                     | 0.83                 | 2.3                    | 18                     | 37                     | 25                     | 3.02                 |
| CC152184           |                                   | 0.16                       | 0.002                  | 0.4                    | 1.21                 | 20                     | <10                   | 340                    | <0.5                   | <2                     | 0.74                 | 1.7                    | 13                     | 31                     | 28                     | 2.45                 |
| CC152185           |                                   | 0.46                       | 0.003                  | 0.4                    | 1.49                 | 12                     | <10                   | 260                    | <0.5                   | <2                     | 0.23                 | 1.3                    | 10                     | 39                     | 22                     | 2.98                 |
| CC152186           |                                   | 0.16                       | 0.006                  | 1.5                    | 1.14                 | 32                     | <10                   | 260                    | <0.5                   | <2                     | 0.07                 | 0.5                    | 6                      | 22                     | 25                     | 2.76                 |
| CC152187           |                                   | 0.16                       | <0.001                 | 0.8                    | 1.80                 | 10                     | <10                   | 200                    | <0.5                   | <2                     | 0.11                 | <0.5                   | 9                      | 48                     | 14                     | 3.03                 |
| CC152188           |                                   | 0.18                       | 0.004                  | 2.2                    | 1.41                 | 52                     | <10                   | 170                    | <0.5                   | <2                     | 0.17                 | 1.8                    | 9                      | 51                     | 57                     | 3.69                 |
| CC152189           |                                   | 0.32                       | <0.001                 | <0.2                   | 1.29                 | 12                     | <10                   | 360                    | <0.5                   | <2                     | 0.60                 | <0.5                   | 9                      | 44                     | 25                     | 2.64                 |
| CC152190           |                                   | 0.44                       | 0.001                  | 0.3                    | 1.25                 | 16                     | <10                   | 510                    | <0.5                   | <2                     | 0.52                 | <0.5                   | 9                      | 50                     | 27                     | 2.62                 |
| CC152191           |                                   | 0.30                       | 0.003                  | 0.3                    | 0.92                 | 17                     | <10                   | 1530                   | <0.5                   | <2                     | 0.17                 | 0.6                    | 6                      | 38                     | 27                     | 1.98                 |
| CC152192           |                                   | 0.24                       | 0.022                  | 0.9                    | 0.91                 | 22                     | <10                   | 1830                   | <0.5                   | <2                     | 0.52                 | 1.8                    | 10                     | 37                     | 64                     | 2.39                 |
| CC152193           |                                   | 0.30                       | 0.004                  | 0.5                    | 1.44                 | 15                     | <10                   | 550                    | <0.5                   | <2                     | 0.56                 | 1.0                    | 15                     | 60                     | 37                     | 3.07                 |
| CC152194           |                                   | 0.18                       | 0.003                  | 0.5                    | 1.39                 | 25                     | <10                   | 670                    | <0.5                   | <2                     | 0.81                 | 2.2                    | 15                     | 64                     | 52                     | 3.10                 |
| CC152195           |                                   | 0.30                       | 0.006                  | 0.5                    | 1.00                 | 26                     | <10                   | 300                    | <0.5                   | <2                     | 0.28                 | 0.6                    | 13                     | 86                     | 36                     | 2.84                 |
| CC152196           |                                   | 0.48                       | 0.004                  | 0.6                    | 1.05                 | 17                     | <10                   | 350                    | <0.5                   | <2                     | 0.45                 | 1.3                    | 5                      | 36                     | 46                     | 1.81                 |
| CC152197           |                                   | 0.44                       | 0.004                  | 0.2                    | 1.38                 | 14                     | <10                   | 430                    | <0.5                   | <2                     | 0.54                 | 1.0                    | 14                     | 59                     | 47                     | 2.92                 |
| CC152198           |                                   | 0.38                       | 0.007                  | 0.3                    | 1.21                 | 10                     | <10                   | 220                    | <0.5                   | <2                     | 0.49                 | <0.5                   | 10                     | 69                     | 50                     | 2.57                 |
| CC152199           |                                   | 0.38                       | 0.015                  | 0.6                    | 1.11                 | 17                     | <10                   | 390                    | <0.5                   | <2                     | 0.42                 | 0.6                    | 13                     | 43                     | 73                     | 2.96                 |
| CC152200           |                                   | 0.18                       | <0.001                 | 0.4                    | 0.40                 | 4                      | <10                   | 130                    | <0.5                   | <2                     | 0.85                 | 7.4                    | 3                      | 34                     | 24                     | 0.80                 |



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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
LIMITED  
1016- 510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Page: 4 - B  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC152161           |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.45                         | 176                         | 1                           | 0.01                         | 25                          | 420                         | 3                           | 0.01                        | <2                          | 2                           | 12                          |
| CC152162           |                                   | 10                           | <1                          | 0.06                        | 10                           | 1.05                         | 830                         | 1                           | 0.01                         | 44                          | 1240                        | 8                           | 0.03                        | <2                          | 5                           | 38                          |
| CC152163           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.98                         | 647                         | 1                           | 0.01                         | 66                          | 980                         | 5                           | 0.01                        | <2                          | 5                           | 30                          |
| CC152164           |                                   | 10                           | <1                          | 0.11                        | 10                           | 0.69                         | 1605                        | 2                           | 0.01                         | 57                          | 810                         | 13                          | 0.02                        | <2                          | 4                           | 20                          |
| CC152165           |                                   | 10                           | <1                          | 0.06                        | 20                           | 0.88                         | 582                         | <1                          | 0.01                         | 60                          | 480                         | 8                           | <0.01                       | <2                          | 3                           | 13                          |
| CC152166           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.16                         | 136                         | <1                          | 0.01                         | 10                          | 210                         | 3                           | 0.01                        | <2                          | 1                           | 11                          |
| CC152167           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.10                         | 699                         | 1                           | <0.01                        | 24                          | 290                         | 7                           | 0.01                        | <2                          | 3                           | 15                          |
| CC152168           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.62                         | 275                         | 1                           | 0.01                         | 54                          | 510                         | 7                           | 0.01                        | <2                          | 3                           | 10                          |
| CC152169           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.48                         | 365                         | 3                           | 0.01                         | 49                          | 780                         | 13                          | 0.02                        | 4                           | 4                           | 40                          |
| CC152170           |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.15                         | 194                         | 8                           | 0.01                         | 27                          | 1360                        | 16                          | 0.08                        | 7                           | 2                           | 82                          |
| CC152171           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.47                         | 343                         | 2                           | 0.01                         | 21                          | 750                         | 8                           | 0.02                        | <2                          | 2                           | 48                          |
| CC152172           |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.39                         | 241                         | 1                           | 0.01                         | 18                          | 370                         | 7                           | 0.01                        | <2                          | 3                           | 7                           |
| CC152173           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.74                         | 596                         | <1                          | 0.01                         | 47                          | 730                         | 7                           | 0.01                        | <2                          | 4                           | 20                          |
| CC152174           |                                   | 10                           | <1                          | 0.10                        | 20                           | 0.90                         | 1305                        | 2                           | 0.01                         | 120                         | 910                         | 11                          | 0.05                        | 2                           | 6                           | 59                          |
| CC152175           |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.01                         | 549                         | 1                           | 0.01                         | 79                          | 970                         | 8                           | 0.01                        | <2                          | 3                           | 29                          |
| CC152176           |                                   | 10                           | <1                          | 0.10                        | 10                           | 0.87                         | 1025                        | 2                           | 0.03                         | 50                          | 1200                        | 9                           | 0.06                        | 3                           | 5                           | 61                          |
| CC152177           |                                   | 10                           | <1                          | 0.07                        | 10                           | 0.73                         | 298                         | 2                           | 0.01                         | 27                          | 860                         | 7                           | 0.02                        | 2                           | 3                           | 43                          |
| CC152178           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.13                         | 1120                        | 23                          | 0.01                         | 77                          | 2580                        | 42                          | 0.04                        | 56                          | 2                           | 77                          |
| CC152179           |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.44                         | 270                         | 2                           | 0.01                         | 50                          | 1090                        | 10                          | 0.04                        | 2                           | 3                           | 56                          |
| CC152180           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.74                         | 645                         | 9                           | 0.01                         | 74                          | 900                         | 9                           | 0.16                        | 3                           | 4                           | 44                          |
| CC152181           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.64                         | 1385                        | 26                          | 0.02                         | 102                         | 1070                        | 6                           | 0.04                        | 3                           | 3                           | 33                          |
| CC152182           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.76                         | 293                         | 2                           | 0.01                         | 36                          | 880                         | 9                           | 0.03                        | 5                           | 4                           | 42                          |
| CC152183           |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.61                         | 862                         | 7                           | 0.02                         | 27                          | 1190                        | 7                           | 0.08                        | 5                           | 3                           | 56                          |
| CC152184           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.57                         | 635                         | 2                           | 0.02                         | 33                          | 990                         | 8                           | 0.06                        | 3                           | 3                           | 49                          |
| CC152185           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.54                         | 449                         | 2                           | 0.01                         | 26                          | 500                         | 11                          | <0.01                       | <2                          | 3                           | 19                          |
| CC152186           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.20                         | 204                         | 8                           | 0.01                         | 26                          | 1070                        | 16                          | 0.01                        | 8                           | 1                           | 33                          |
| CC152187           |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.55                         | 376                         | 2                           | 0.01                         | 26                          | 580                         | 11                          | <0.01                       | 3                           | 3                           | 10                          |
| CC152188           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.40                         | 288                         | 15                          | 0.01                         | 61                          | 2340                        | 20                          | <0.01                       | 17                          | 3                           | 42                          |
| CC152189           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.84                         | 330                         | 4                           | 0.01                         | 33                          | 1090                        | 9                           | <0.01                       | 3                           | 3                           | 36                          |
| CC152190           |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.74                         | 442                         | 4                           | 0.01                         | 37                          | 1100                        | 12                          | 0.01                        | <2                          | 3                           | 35                          |
| CC152191           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.29                         | 308                         | 2                           | 0.03                         | 30                          | 870                         | 14                          | 0.02                        | 4                           | 1                           | 31                          |
| CC152192           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.47                         | 389                         | 3                           | 0.03                         | 43                          | 1580                        | 14                          | 0.03                        | 7                           | 3                           | 81                          |
| CC152193           |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.90                         | 516                         | 2                           | 0.01                         | 58                          | 1190                        | 11                          | <0.01                       | 2                           | 4                           | 46                          |
| CC152194           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.81                         | 1065                        | 5                           | 0.01                         | 47                          | 1320                        | 12                          | 0.05                        | 6                           | 4                           | 60                          |
| CC152195           |                                   | <10                          | <1                          | 0.04                        | 10                           | 1.08                         | 528                         | 4                           | 0.01                         | 81                          | 1140                        | 19                          | <0.01                       | 5                           | 3                           | 43                          |
| CC152196           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.43                         | 150                         | 4                           | 0.01                         | 30                          | 1090                        | 13                          | 0.03                        | 5                           | 3                           | 44                          |
| CC152197           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.79                         | 637                         | 3                           | 0.01                         | 65                          | 1080                        | 12                          | <0.01                       | 2                           | 5                           | 41                          |
| CC152198           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.89                         | 367                         | 1                           | 0.01                         | 73                          | 1060                        | 9                           | <0.01                       | <2                          | 4                           | 33                          |
| CC152199           |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.66                         | 495                         | 3                           | 0.01                         | 64                          | 1450                        | 13                          | <0.01                       | 3                           | 4                           | 42                          |
| CC152200           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.27                         | 65                          | 1                           | 0.01                         | 28                          | 240                         | 5                           | <0.01                       | <2                          | 2                           | 49                          |



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Page: 4 - C  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

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**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| CC152161           |                                   | <20       | 0.09      | <10       | <10       | 55        | <10       |
| CC152162           |                                   | <20       | 0.07      | <10       | <10       | 57        | <10       |
| CC152163           |                                   | <20       | 0.08      | <10       | <10       | 49        | <10       |
| CC152164           |                                   | <20       | 0.05      | <10       | <10       | 74        | <10       |
| CC152165           |                                   | <20       | 0.08      | <10       | <10       | 55        | <10       |
| CC152166           |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       |
| CC152167           |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       |
| CC152168           |                                   | <20       | 0.05      | <10       | <10       | 52        | <10       |
| CC152169           |                                   | <20       | 0.06      | <10       | <10       | 49        | <10       |
| CC152170           |                                   | <20       | 0.02      | <10       | <10       | 51        | <10       |
| CC152171           |                                   | <20       | 0.08      | <10       | <10       | 50        | <10       |
| CC152172           |                                   | <20       | 0.12      | <10       | <10       | 66        | <10       |
| CC152173           |                                   | <20       | 0.09      | <10       | <10       | 44        | <10       |
| CC152174           |                                   | <20       | 0.03      | <10       | <10       | 57        | <10       |
| CC152175           |                                   | <20       | 0.06      | <10       | <10       | 45        | <10       |
| CC152176           |                                   | <20       | 0.08      | <10       | <10       | 61        | <10       |
| CC152177           |                                   | <20       | 0.11      | <10       | <10       | 51        | <10       |
| CC152178           |                                   | <20       | 0.01      | <10       | <10       | 66        | <10       |
| CC152179           |                                   | <20       | 0.03      | <10       | <10       | 39        | <10       |
| CC152180           |                                   | <20       | 0.04      | <10       | 10        | 45        | <10       |
| CC152181           |                                   | <20       | 0.05      | <10       | <10       | 38        | <10       |
| CC152182           |                                   | <20       | 0.07      | <10       | <10       | 52        | <10       |
| CC152183           |                                   | <20       | 0.04      | <10       | <10       | 49        | <10       |
| CC152184           |                                   | <20       | 0.05      | <10       | <10       | 41        | <10       |
| CC152185           |                                   | <20       | 0.15      | <10       | <10       | 60        | <10       |
| CC152186           |                                   | <20       | 0.03      | <10       | <10       | 54        | <10       |
| CC152187           |                                   | <20       | 0.12      | <10       | <10       | 71        | <10       |
| CC152188           |                                   | <20       | 0.05      | <10       | <10       | 77        | <10       |
| CC152189           |                                   | <20       | 0.08      | <10       | <10       | 44        | <10       |
| CC152190           |                                   | <20       | 0.06      | <10       | <10       | 45        | <10       |
| CC152191           |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       |
| CC152192           |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       |
| CC152193           |                                   | <20       | 0.07      | <10       | <10       | 52        | <10       |
| CC152194           |                                   | <20       | 0.04      | <10       | <10       | 55        | <10       |
| CC152195           |                                   | <20       | 0.04      | <10       | <10       | 38        | <10       |
| CC152196           |                                   | <20       | 0.04      | <10       | <10       | 44        | <10       |
| CC152197           |                                   | <20       | 0.05      | <10       | <10       | 49        | <10       |
| CC152198           |                                   | <20       | 0.06      | <10       | <10       | 42        | <10       |
| CC152199           |                                   | <20       | 0.04      | <10       | <10       | 41        | <10       |
| CC152200           |                                   | <20       | 0.05      | <10       | <10       | 18        | <10       |



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Page: 5 - A  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
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**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC152301           |                                   | 0.18                       | 0.012                  | 0.3                    | 1.69                 | 15                     | <10                   | 310                    | 2.0                    | <2                     | 0.88                 | <0.5                   | 35                     | 149                    | 109                    | 5.99                 |
| CC152302           |                                   | 0.14                       | 0.007                  | 0.2                    | 2.30                 | 8                      | <10                   | 220                    | 1.0                    | <2                     | 1.60                 | <0.5                   | 35                     | 133                    | 122                    | 4.67                 |
| CC152303           |                                   | 0.12                       | 0.003                  | <0.2                   | 1.63                 | 6                      | <10                   | 190                    | 1.0                    | <2                     | 1.31                 | <0.5                   | 19                     | 114                    | 77                     | 3.17                 |
| CC152304           |                                   | 0.10                       | <0.001                 | 0.2                    | 0.88                 | 14                     | <10                   | 190                    | 0.6                    | <2                     | 0.22                 | <0.5                   | 12                     | 49                     | 56                     | 2.71                 |
| CC152305           |                                   | 0.10                       | 0.005                  | 0.2                    | 0.97                 | 35                     | <10                   | 270                    | 1.9                    | <2                     | 0.09                 | <0.5                   | 8                      | 21                     | 36                     | 3.76                 |
| CC152306           |                                   | 0.10                       | <0.001                 | 0.3                    | 1.06                 | 7                      | <10                   | 140                    | 0.7                    | <2                     | 0.20                 | 0.8                    | 8                      | 44                     | 25                     | 2.20                 |
| CC152307           |                                   | 0.10                       | 0.005                  | <0.2                   | 2.01                 | 13                     | <10                   | 240                    | 1.5                    | <2                     | 0.47                 | <0.5                   | 28                     | 106                    | 78                     | 5.25                 |
| CC152308           |                                   | 0.12                       | <0.001                 | <0.2                   | 0.42                 | 2                      | <10                   | 30                     | <0.5                   | <2                     | 0.03                 | <0.5                   | 3                      | 11                     | 6                      | 1.08                 |
| CC152309           |                                   | 0.08                       | 0.006                  | 1.5                    | 0.63                 | 7                      | <10                   | 310                    | 0.8                    | <2                     | 0.02                 | <0.5                   | 3                      | 25                     | 35                     | 6.06                 |
| CC152310           |                                   | 0.16                       | 0.013                  | 0.4                    | 1.20                 | 5                      | <10                   | 1310                   | 0.6                    | <2                     | 0.03                 | <0.5                   | 3                      | 20                     | 24                     | 3.90                 |
| CC152311           |                                   | 0.08                       | <0.001                 | 0.2                    | 0.09                 | <2                     | <10                   | 100                    | <0.5                   | <2                     | 0.03                 | <0.5                   | 2                      | 3                      | 3                      | 0.21                 |
| CC152312           |                                   | 0.08                       | <0.001                 | <0.2                   | 0.39                 | 3                      | <10                   | 90                     | <0.5                   | <2                     | 0.02                 | <0.5                   | 3                      | 14                     | 30                     | 1.34                 |
| CC152313           |                                   | 0.10                       | <0.001                 | 0.9                    | 0.28                 | 3                      | <10                   | 30                     | <0.5                   | <2                     | 0.02                 | <0.5                   | 2                      | 2                      | 3                      | 0.23                 |
| CC152314           |                                   | 0.10                       | <0.001                 | 0.3                    | 0.72                 | 8                      | <10                   | 1880                   | <0.5                   | <2                     | 0.04                 | <0.5                   | 3                      | 20                     | 32                     | 3.24                 |
| CC152315           |                                   | 0.10                       | <0.001                 | 0.3                    | 0.51                 | 2                      | <10                   | 130                    | <0.5                   | <2                     | 0.03                 | <0.5                   | 3                      | 10                     | 13                     | 1.23                 |
| CC152316           |                                   | 0.10                       | 0.011                  | <0.2                   | 1.32                 | <2                     | <10                   | 780                    | 1.3                    | <2                     | 0.28                 | 0.6                    | 4                      | 19                     | 17                     | 2.04                 |
| CC152317           |                                   | 0.10                       | <0.001                 | 0.2                    | 1.45                 | 4                      | <10                   | 250                    | 0.8                    | <2                     | 0.06                 | <0.5                   | 3                      | 18                     | 15                     | 2.67                 |
| CC152318           |                                   | 0.06                       | <0.001                 | 0.2                    | 1.29                 | 5                      | <10                   | 210                    | 0.6                    | <2                     | 0.09                 | <0.5                   | 4                      | 23                     | 13                     | 3.05                 |
| CC152319           |                                   | 0.06                       | <0.001                 | 0.4                    | 0.76                 | 2                      | <10                   | 260                    | <0.5                   | <2                     | 0.08                 | <0.5                   | 4                      | 9                      | 8                      | 1.24                 |
| CC152320           |                                   | 0.02                       | NSS                    | 0.4                    | 0.76                 | <2                     | <10                   | 1460                   | 0.7                    | <2                     | 0.27                 | 1.3                    | 38                     | 22                     | 18                     | 2.32                 |
| ZZ04501            |                                   | 0.14                       | 0.006                  | 0.7                    | 1.04                 | 24                     | <10                   | 360                    | 0.5                    | <2                     | 0.74                 | 2.3                    | 15                     | 41                     | 62                     | 3.01                 |
| ZZ04502            |                                   | 0.26                       | 0.005                  | 0.5                    | 1.00                 | 18                     | <10                   | 270                    | <0.5                   | <2                     | 0.63                 | 1.7                    | 12                     | 52                     | 44                     | 2.42                 |
| ZZ04503            |                                   | 0.22                       | 0.032                  | 0.8                    | 0.83                 | 56                     | <10                   | 300                    | <0.5                   | <2                     | 0.73                 | 0.9                    | 13                     | 31                     | 90                     | 3.10                 |
| ZZ04504            |                                   | 0.10                       | 0.010                  | 0.7                    | 0.89                 | 49                     | <10                   | 250                    | <0.5                   | <2                     | 1.07                 | 0.6                    | 9                      | 32                     | 56                     | 2.34                 |
| ZZ04505            |                                   | 0.14                       | 0.011                  | 0.6                    | 1.03                 | 46                     | <10                   | 410                    | <0.5                   | <2                     | 1.17                 | 0.8                    | 15                     | 24                     | 50                     | 4.07                 |
| ZZ04506            |                                   | 0.14                       | 0.009                  | 0.5                    | 0.82                 | 26                     | <10                   | 250                    | <0.5                   | <2                     | 0.48                 | 0.7                    | 8                      | 29                     | 57                     | 2.34                 |
| ZZ04507            |                                   | 0.14                       | 0.010                  | 0.6                    | 0.91                 | 34                     | <10                   | 250                    | <0.5                   | <2                     | 0.87                 | 1.3                    | 13                     | 34                     | 56                     | 3.05                 |
| ZZ04508            |                                   | 0.12                       | 0.009                  | 0.5                    | 0.99                 | 22                     | <10                   | 290                    | <0.5                   | <2                     | 1.24                 | 0.8                    | 8                      | 34                     | 29                     | 2.21                 |
| ZZ04509            |                                   | 0.08                       | 0.004                  | 0.3                    | 0.59                 | 22                     | <10                   | 130                    | <0.5                   | <2                     | 1.03                 | 0.6                    | 4                      | 13                     | 20                     | 1.31                 |
| ZZ04510            |                                   | 0.06                       | 0.015                  | 0.7                    | 0.83                 | 42                     | <10                   | 320                    | <0.5                   | <2                     | 1.34                 | 1.4                    | 9                      | 29                     | 57                     | 2.92                 |
| ZZ04511            |                                   | 0.08                       | 0.008                  | 0.5                    | 1.40                 | 56                     | <10                   | 330                    | <0.5                   | <2                     | 1.28                 | 0.5                    | 18                     | 78                     | 46                     | 3.82                 |
| ZZ04512            |                                   | 0.14                       | 0.005                  | 0.3                    | 0.09                 | 10                     | <10                   | 30                     | <0.5                   | <2                     | 4.40                 | <0.5                   | 10                     | 4                      | 30                     | 2.15                 |
| ZZ04513            |                                   | 0.12                       | 0.011                  | 0.4                    | 0.61                 | 51                     | <10                   | 220                    | <0.5                   | <2                     | 1.22                 | 0.6                    | 9                      | 20                     | 36                     | 2.19                 |
| ZZ04514            |                                   | 0.06                       | 0.003                  | <0.2                   | 0.26                 | 35                     | <10                   | 130                    | <0.5                   | <2                     | 0.96                 | 0.5                    | 4                      | 5                      | 24                     | 1.17                 |
| ZZ04515            |                                   | 0.12                       | 0.019                  | 0.6                    | 0.82                 | 87                     | <10                   | 280                    | <0.5                   | <2                     | 0.82                 | 0.5                    | 6                      | 30                     | 42                     | 2.25                 |
| ZZ04516            |                                   | 0.14                       | 0.012                  | 0.6                    | 0.43                 | 41                     | <10                   | 160                    | <0.5                   | <2                     | 1.44                 | 0.6                    | 8                      | 11                     | 37                     | 2.04                 |
| ZZ04517            |                                   | 0.10                       | 0.009                  | 0.6                    | 0.70                 | 52                     | <10                   | 260                    | <0.5                   | <2                     | 0.76                 | 0.5                    | 5                      | 22                     | 22                     | 1.50                 |
| ZZ04518            |                                   | 0.18                       | 0.020                  | 1.1                    | 1.01                 | 74                     | <10                   | 550                    | 0.5                    | <2                     | 0.64                 | 1.2                    | 11                     | 35                     | 112                    | 2.74                 |
| ZZ04519            |                                   | 0.04                       | 0.020                  | 1.0                    | 0.90                 | 56                     | <10                   | 470                    | 0.5                    | <2                     | 0.95                 | 1.6                    | 11                     | 30                     | 71                     | 2.53                 |
| ZZ04520            |                                   | 0.14                       | 0.022                  | 1.3                    | 1.01                 | 60                     | <10                   | 390                    | 0.5                    | <2                     | 0.74                 | 1.5                    | 9                      | 42                     | 76                     | 2.51                 |



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Page: 5 - B  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC152301           |                                   | <10                          | <1                          | 0.07                        | <10                          | 0.67                         | 1680                        | <1                          | 0.03                         | 85                          | 720                         | 2                           | 0.04                        | 5                           | 26                          | 16                          |
| CC152302           |                                   | <10                          | <1                          | 0.06                        | <10                          | 0.84                         | 996                         | <1                          | 0.06                         | 80                          | 390                         | <2                          | 0.02                        | 4                           | 24                          | 25                          |
| CC152303           |                                   | <10                          | <1                          | 0.09                        | 10                           | 1.08                         | 530                         | <1                          | 0.03                         | 72                          | 830                         | 3                           | 0.05                        | 2                           | 10                          | 20                          |
| CC152304           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.31                         | 1120                        | 1                           | 0.01                         | 39                          | 870                         | 7                           | 0.05                        | 2                           | 1                           | 13                          |
| CC152305           |                                   | <10                          | <1                          | 0.17                        | 30                           | 0.32                         | 889                         | 5                           | 0.01                         | 23                          | 640                         | 32                          | 0.04                        | 3                           | 3                           | 24                          |
| CC152306           |                                   | <10                          | 1                           | 0.11                        | 10                           | 0.46                         | 497                         | 2                           | 0.01                         | 26                          | 890                         | 9                           | 0.08                        | <2                          | 2                           | 16                          |
| CC152307           |                                   | <10                          | 1                           | 0.07                        | 20                           | 1.03                         | 841                         | <1                          | 0.02                         | 58                          | 890                         | 5                           | 0.01                        | 4                           | 15                          | 13                          |
| CC152308           |                                   | <10                          | <1                          | 0.07                        | <10                          | 0.10                         | 505                         | 2                           | 0.02                         | 6                           | 230                         | <2                          | 0.01                        | <2                          | <1                          | 6                           |
| CC152309           |                                   | <10                          | <1                          | 0.35                        | 10                           | 0.11                         | 236                         | 30                          | 0.02                         | 23                          | 1860                        | 137                         | 0.75                        | 2                           | 2                           | 50                          |
| CC152310           |                                   | 10                           | <1                          | 0.16                        | 10                           | 0.27                         | 259                         | 4                           | 0.03                         | 13                          | 800                         | 33                          | 0.16                        | 2                           | 1                           | 26                          |
| CC152311           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.02                         | 1570                        | <1                          | 0.02                         | 5                           | 230                         | 3                           | 0.01                        | <2                          | <1                          | 5                           |
| CC152312           |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.06                         | 224                         | 3                           | 0.01                         | 19                          | 310                         | 6                           | <0.01                       | <2                          | <1                          | 5                           |
| CC152313           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.01                         | 14                          | <1                          | 0.03                         | 2                           | 260                         | 3                           | 0.01                        | <2                          | <1                          | 6                           |
| CC152314           |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.12                         | 339                         | 4                           | 0.03                         | 22                          | 460                         | 25                          | 0.01                        | 2                           | 1                           | 11                          |
| CC152315           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.08                         | 928                         | 3                           | 0.02                         | 10                          | 320                         | 10                          | <0.01                       | <2                          | <1                          | 6                           |
| CC152316           |                                   | 10                           | 1                           | 0.07                        | 30                           | 0.32                         | 703                         | 6                           | 0.02                         | 14                          | 860                         | 15                          | 0.04                        | 2                           | 1                           | 21                          |
| CC152317           |                                   | 10                           | <1                          | 0.16                        | 10                           | 0.41                         | 338                         | 2                           | 0.01                         | 14                          | 320                         | 9                           | <0.01                       | <2                          | 2                           | 9                           |
| CC152318           |                                   | 10                           | <1                          | 0.15                        | 10                           | 0.35                         | 453                         | 3                           | 0.01                         | 13                          | 340                         | 12                          | 0.01                        | <2                          | 2                           | 11                          |
| CC152319           |                                   | 10                           | <1                          | 0.10                        | 10                           | 0.16                         | 471                         | 1                           | 0.02                         | 6                           | 430                         | 8                           | 0.03                        | <2                          | 1                           | 11                          |
| CC152320           |                                   | 10                           | 1                           | 0.13                        | 10                           | 0.17                         | 19600                       | 1                           | 0.04                         | 17                          | 930                         | 20                          | 0.04                        | <2                          | 1                           | 22                          |
| ZZ04501            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.52                         | 526                         | 4                           | <0.01                        | 73                          | 1030                        | 18                          | 0.03                        | 4                           | 4                           | 57                          |
| ZZ04502            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.61                         | 430                         | 3                           | <0.01                        | 79                          | 860                         | 14                          | 0.03                        | 4                           | 3                           | 41                          |
| ZZ04503            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.41                         | 370                         | 5                           | <0.01                        | 58                          | 1490                        | 17                          | 0.03                        | 10                          | 3                           | 57                          |
| ZZ04504            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.43                         | 554                         | 3                           | 0.01                         | 51                          | 1190                        | 10                          | 0.04                        | 5                           | 3                           | 66                          |
| ZZ04505            |                                   | <10                          | <1                          | 0.11                        | 10                           | 0.41                         | 539                         | 3                           | 0.01                         | 45                          | 1890                        | 11                          | 0.05                        | 5                           | 3                           | 74                          |
| ZZ04506            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.37                         | 140                         | 3                           | <0.01                        | 33                          | 1200                        | 14                          | 0.03                        | 4                           | 3                           | 43                          |
| ZZ04507            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.55                         | 774                         | 4                           | 0.01                         | 56                          | 1290                        | 14                          | 0.06                        | 5                           | 3                           | 60                          |
| ZZ04508            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.54                         | 301                         | 2                           | 0.01                         | 41                          | 1220                        | 11                          | 0.06                        | 4                           | 3                           | 63                          |
| ZZ04509            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.19                         | 155                         | 1                           | 0.03                         | 19                          | 880                         | 6                           | 0.09                        | 2                           | 1                           | 49                          |
| ZZ04510            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.34                         | 415                         | 5                           | 0.01                         | 51                          | 1060                        | 15                          | 0.08                        | 6                           | 2                           | 79                          |
| ZZ04511            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.63                         | 801                         | 2                           | 0.02                         | 94                          | 1310                        | 10                          | 0.07                        | 4                           | 5                           | 65                          |
| ZZ04512            |                                   | <10                          | <1                          | 0.03                        | 10                           | 2.43                         | 610                         | 2                           | 0.01                         | 32                          | 460                         | 14                          | 0.02                        | 9                           | 3                           | 112                         |
| ZZ04513            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.34                         | 424                         | 3                           | 0.04                         | 29                          | 1160                        | 10                          | 0.10                        | 4                           | 2                           | 66                          |
| ZZ04514            |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.10                         | 653                         | 2                           | 0.02                         | 15                          | 620                         | 3                           | 0.06                        | 5                           | 1                           | 46                          |
| ZZ04515            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.33                         | 164                         | 4                           | 0.01                         | 33                          | 1230                        | 17                          | 0.05                        | 9                           | 3                           | 61                          |
| ZZ04516            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.54                         | 333                         | 2                           | 0.01                         | 29                          | 860                         | 15                          | 0.04                        | 6                           | 3                           | 55                          |
| ZZ04517            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.30                         | 160                         | 3                           | 0.01                         | 21                          | 1510                        | 11                          | 0.04                        | 5                           | 1                           | 66                          |
| ZZ04518            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.38                         | 385                         | 7                           | <0.01                        | 59                          | 1880                        | 17                          | 0.02                        | 11                          | 3                           | 87                          |
| ZZ04519            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.36                         | 332                         | 4                           | 0.01                         | 67                          | 1450                        | 14                          | 0.07                        | 8                           | 3                           | 83                          |
| ZZ04520            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.49                         | 689                         | 5                           | <0.01                        | 61                          | 1630                        | 23                          | 0.03                        | 10                          | 3                           | 85                          |



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Page: 5 - C  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| CC152301           |                                   | <20       | 0.01      | <10       | <10       | 128       | <10       |
| CC152302           |                                   | <20       | 0.01      | <10       | <10       | 99        | <10       |
| CC152303           |                                   | <20       | 0.06      | <10       | <10       | 76        | <10       |
| CC152304           |                                   | <20       | 0.02      | <10       | <10       | 56        | <10       |
| CC152305           |                                   | <20       | 0.03      | <10       | <10       | 40        | <10       |
| CC152306           |                                   | <20       | 0.03      | <10       | <10       | 45        | <10       |
| CC152307           |                                   | <20       | 0.04      | <10       | <10       | 99        | <10       |
| CC152308           |                                   | <20       | 0.04      | <10       | <10       | 24        | <10       |
| CC152309           |                                   | <20       | 0.01      | <10       | <10       | 82        | <10       |
| CC152310           |                                   | <20       | 0.05      | <10       | <10       | 59        | <10       |
| CC152311           |                                   | <20       | 0.01      | <10       | <10       | 6         | <10       |
| CC152312           |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       |
| CC152313           |                                   | <20       | 0.01      | <10       | <10       | 4         | <10       |
| CC152314           |                                   | <20       | 0.05      | <10       | <10       | 67        | <10       |
| CC152315           |                                   | <20       | 0.03      | <10       | <10       | 21        | <10       |
| CC152316           |                                   | <20       | 0.04      | <10       | <10       | 30        | <10       |
| CC152317           |                                   | <20       | 0.10      | <10       | <10       | 39        | <10       |
| CC152318           |                                   | <20       | 0.11      | <10       | <10       | 49        | <10       |
| CC152319           |                                   | <20       | 0.06      | <10       | <10       | 21        | <10       |
| CC152320           |                                   | <20       | 0.04      | <10       | <10       | 40        | <10       |
| ZZ04501            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| ZZ04502            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| ZZ04503            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       |
| ZZ04504            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       |
| ZZ04505            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       |
| ZZ04506            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       |
| ZZ04507            |                                   | <20       | 0.03      | <10       | <10       | 34        | <10       |
| ZZ04508            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       |
| ZZ04509            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       |
| ZZ04510            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       |
| ZZ04511            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       |
| ZZ04512            |                                   | <20       | <0.01     | <10       | <10       | 3         | <10       |
| ZZ04513            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       |
| ZZ04514            |                                   | <20       | 0.01      | <10       | <10       | 7         | <10       |
| ZZ04515            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       |
| ZZ04516            |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       |
| ZZ04517            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       |
| ZZ04518            |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       |
| ZZ04519            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       |
| ZZ04520            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       |



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Page: 6 - A  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ04521            |                                   | 0.08                       | 0.011                  | 0.6                    | 0.70                 | 37                     | <10                   | 250                    | <0.5                   | <2                     | 0.47                 | 0.8                    | 7                      | 27                     | 44                     | 2.18                 |
| ZZ04522            |                                   | 0.06                       | 0.002                  | <0.2                   | 0.96                 | 42                     | <10                   | 120                    | <0.5                   | <2                     | 0.17                 | 0.6                    | 5                      | 35                     | 31                     | 2.38                 |
| ZZ04523            |                                   | 0.10                       | 0.013                  | 0.8                    | 0.94                 | 44                     | <10                   | 330                    | <0.5                   | <2                     | 1.15                 | 1.7                    | 18                     | 42                     | 48                     | 3.44                 |
| ZZ04524            |                                   | 0.10                       | 0.006                  | 0.5                    | 1.04                 | 21                     | <10                   | 310                    | <0.5                   | <2                     | 0.55                 | 1.0                    | 9                      | 45                     | 38                     | 2.47                 |
| ZZ04525            |                                   | 0.20                       | 0.021                  | 0.9                    | 0.95                 | 32                     | <10                   | 350                    | <0.5                   | <2                     | 0.69                 | 1.1                    | 12                     | 53                     | 51                     | 2.67                 |
| ZZ04526            |                                   | 0.12                       | 0.006                  | 0.3                    | 1.48                 | 12                     | <10                   | 210                    | <0.5                   | <2                     | 0.48                 | <0.5                   | 13                     | 42                     | 53                     | 3.34                 |
| ZZ04527            |                                   | 0.12                       | 0.001                  | <0.2                   | 1.14                 | 8                      | <10                   | 250                    | <0.5                   | <2                     | 0.48                 | <0.5                   | 9                      | 56                     | 18                     | 2.28                 |
| ZZ04528            |                                   | 0.16                       | 0.007                  | 0.4                    | 1.35                 | 12                     | <10                   | 460                    | 0.8                    | <2                     | 1.68                 | 1.0                    | 10                     | 59                     | 71                     | 2.45                 |
| ZZ04529            |                                   | 0.06                       | 0.010                  | 0.6                    | 1.32                 | 28                     | <10                   | 710                    | 0.8                    | <2                     | 1.64                 | 0.7                    | 17                     | 136                    | 102                    | 2.82                 |
| ZZ04530            |                                   | 0.14                       | 0.011                  | 0.3                    | 1.11                 | 22                     | <10                   | 350                    | <0.5                   | <2                     | 0.73                 | 0.5                    | 12                     | 74                     | 107                    | 2.64                 |
| ZZ04531            |                                   | 0.06                       | 0.007                  | 0.2                    | 0.90                 | 9                      | <10                   | 490                    | 0.6                    | <2                     | 0.16                 | 1.9                    | 5                      | 29                     | 33                     | 1.84                 |
| ZZ04532            |                                   | 0.12                       | 0.002                  | 0.6                    | 0.92                 | 6                      | <10                   | 290                    | <0.5                   | <2                     | 1.37                 | 1.0                    | 6                      | 41                     | 15                     | 1.47                 |
| ZZ04533            |                                   | 0.04                       | 0.006                  | <0.2                   | 0.47                 | <2                     | <10                   | 90                     | <0.5                   | 2                      | 0.57                 | 0.7                    | 2                      | 8                      | 5                      | 0.53                 |
| ZZ04534            |                                   | 0.16                       | 0.011                  | 0.7                    | 1.22                 | 17                     | <10                   | 400                    | 0.6                    | <2                     | 1.43                 | 1.1                    | 14                     | 66                     | 65                     | 2.49                 |
| ZZ04535            |                                   | 0.08                       | 0.012                  | 0.6                    | 0.94                 | 38                     | <10                   | 230                    | <0.5                   | <2                     | 1.03                 | 0.6                    | 11                     | 47                     | 34                     | 2.39                 |
| ZZ04536            |                                   | 0.06                       | 0.019                  | 0.8                    | 0.91                 | 18                     | <10                   | 390                    | <0.5                   | <2                     | 0.82                 | 2.5                    | 9                      | 47                     | 51                     | 1.68                 |
| ZZ04537            |                                   | 0.06                       | 0.015                  | 0.6                    | 0.96                 | 57                     | <10                   | 460                    | <0.5                   | 3                      | 0.63                 | 0.7                    | 6                      | 32                     | 36                     | 2.01                 |
| ZZ04538            |                                   | 0.18                       | 0.021                  | 1.0                    | 1.13                 | 93                     | <10                   | 490                    | 0.5                    | 3                      | 0.82                 | 1.7                    | 14                     | 39                     | 64                     | 3.22                 |
| ZZ04539            |                                   | 0.16                       | 0.019                  | 0.6                    | 1.01                 | 100                    | <10                   | 390                    | <0.5                   | 3                      | 0.55                 | <0.5                   | 11                     | 32                     | 46                     | 2.91                 |
| ZZ04540            |                                   | 0.10                       | 0.024                  | 0.8                    | 1.07                 | 100                    | <10                   | 410                    | <0.5                   | 3                      | 0.63                 | 1.5                    | 13                     | 34                     | 64                     | 3.09                 |
| ZZ04541            |                                   | 0.08                       | 0.014                  | 0.5                    | 0.76                 | 64                     | <10                   | 370                    | 0.5                    | 3                      | 1.05                 | 1.4                    | 10                     | 32                     | 48                     | 2.05                 |
| ZZ04542            |                                   | 0.20                       | 0.019                  | 0.7                    | 1.10                 | 112                    | <10                   | 460                    | 0.5                    | 3                      | 0.77                 | 1.2                    | 17                     | 38                     | 70                     | 3.82                 |
| ZZ04543            |                                   | 0.28                       | 0.010                  | 0.4                    | 1.09                 | 60                     | <10                   | 250                    | <0.5                   | 4                      | 0.43                 | 0.5                    | 17                     | 42                     | 55                     | 3.42                 |
| ZZ04544            |                                   | 0.12                       | 0.011                  | 0.4                    | 0.95                 | 65                     | <10                   | 330                    | <0.5                   | 3                      | 1.14                 | 0.9                    | 11                     | 30                     | 52                     | 2.49                 |
| ZZ04545            |                                   | 0.20                       | 0.014                  | 0.4                    | 1.34                 | 92                     | <10                   | 410                    | 0.5                    | 4                      | 0.77                 | 0.9                    | 20                     | 48                     | 58                     | 4.12                 |
| ZZ04546            |                                   | 0.10                       | 0.005                  | 0.4                    | 1.04                 | 52                     | <10                   | 310                    | <0.5                   | 3                      | 1.13                 | 1.4                    | 14                     | 41                     | 60                     | 3.53                 |
| ZZ04547            |                                   | 0.08                       | 0.011                  | 0.6                    | 1.02                 | 31                     | <10                   | 420                    | <0.5                   | 3                      | 1.61                 | 0.8                    | 12                     | 33                     | 83                     | 2.72                 |
| ZZ04548            |                                   | 0.16                       | 0.006                  | 0.4                    | 0.78                 | 33                     | <10                   | 170                    | <0.5                   | 2                      | 0.56                 | 0.5                    | 10                     | 30                     | 33                     | 2.53                 |
| ZZ04549            |                                   | 0.06                       | 0.017                  | 0.5                    | 1.04                 | 51                     | <10                   | 310                    | 0.5                    | 3                      | 0.89                 | 0.9                    | 16                     | 35                     | 64                     | 3.93                 |
| ZZ04550            |                                   | 0.16                       | 0.019                  | 0.8                    | 0.41                 | 28                     | <10                   | 160                    | <0.5                   | 3                      | 0.44                 | 0.8                    | 6                      | 13                     | 132                    | 2.29                 |
| ZZ04551            |                                   | 0.38                       | 0.024                  | 0.4                    | 0.43                 | 31                     | <10                   | 320                    | <0.5                   | 3                      | 0.45                 | 0.8                    | 9                      | 13                     | 48                     | 2.03                 |
| ZZ04552            |                                   | 0.42                       | 0.016                  | 0.5                    | 1.06                 | 62                     | <10                   | 250                    | <0.5                   | 3                      | 0.60                 | 0.7                    | 14                     | 38                     | 67                     | 2.44                 |
| ZZ04553            |                                   | 0.28                       | 0.015                  | 0.3                    | 1.14                 | 123                    | <10                   | 270                    | <0.5                   | 3                      | 1.20                 | 0.8                    | 16                     | 43                     | 59                     | 3.66                 |
| ZZ04554            |                                   | 0.30                       | 0.007                  | 0.4                    | 1.10                 | 65                     | <10                   | 230                    | <0.5                   | 3                      | 0.82                 | <0.5                   | 13                     | 41                     | 24                     | 3.30                 |
| ZZ04555            |                                   | 0.32                       | 0.013                  | 0.9                    | 1.14                 | 36                     | <10                   | 460                    | 0.5                    | 3                      | 0.56                 | 1.3                    | 13                     | 38                     | 93                     | 2.92                 |
| ZZ04556            |                                   | 0.28                       | 0.011                  | 0.4                    | 0.98                 | 27                     | <10                   | 260                    | <0.5                   | 3                      | 0.54                 | <0.5                   | 11                     | 43                     | 48                     | 2.64                 |
| ZZ04557            |                                   | 0.52                       | 0.009                  | 0.3                    | 0.79                 | 19                     | <10                   | 280                    | <0.5                   | 3                      | 0.70                 | 0.9                    | 10                     | 29                     | 60                     | 2.14                 |
| ZZ04558            |                                   | 0.20                       | 0.016                  | 0.4                    | 0.84                 | 18                     | <10                   | 390                    | <0.5                   | 4                      | 0.82                 | 0.6                    | 17                     | 31                     | 52                     | 2.12                 |
| ZZ04559            |                                   | 0.48                       | 0.016                  | 0.8                    | 0.96                 | 32                     | <10                   | 330                    | 0.5                    | 2                      | 0.93                 | 1.1                    | 17                     | 31                     | 99                     | 3.71                 |
| ZZ04560            |                                   | 0.34                       | 0.011                  | 0.2                    | 0.91                 | 41                     | <10                   | 300                    | <0.5                   | 3                      | 0.74                 | 0.9                    | 16                     | 34                     | 67                     | 4.56                 |



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Page: 6 - B  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04521            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.32                         | 257                         | 4                           | <0.01                        | 33                          | 1380                        | 23                          | 0.03                        | 6                           | 3                           | 55                          |
| ZZ04522            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.36                         | 231                         | 3                           | <0.01                        | 34                          | 870                         | 16                          | 0.02                        | 6                           | 1                           | 25                          |
| ZZ04523            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.44                         | 1520                        | 5                           | 0.01                         | 55                          | 1460                        | 25                          | 0.07                        | 8                           | 3                           | 82                          |
| ZZ04524            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.56                         | 589                         | 3                           | 0.01                         | 49                          | 1100                        | 17                          | 0.03                        | 4                           | 3                           | 40                          |
| ZZ04525            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.57                         | 481                         | 4                           | <0.01                        | 86                          | 1670                        | 17                          | 0.02                        | 6                           | 3                           | 60                          |
| ZZ04526            |                                   | <10                          | <1                          | 0.05                        | 20                           | 1.00                         | 366                         | 2                           | <0.01                        | 51                          | 760                         | 19                          | 0.02                        | 3                           | 4                           | 28                          |
| ZZ04527            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.60                         | 265                         | 1                           | 0.01                         | 51                          | 300                         | 11                          | 0.02                        | <2                          | 2                           | 27                          |
| ZZ04528            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.74                         | 463                         | 1                           | 0.01                         | 63                          | 940                         | 15                          | 0.06                        | 3                           | 4                           | 74                          |
| ZZ04529            |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.83                         | 726                         | 2                           | 0.01                         | 195                         | 870                         | 16                          | 0.05                        | 4                           | 5                           | 51                          |
| ZZ04530            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.99                         | 371                         | 2                           | 0.01                         | 101                         | 1210                        | 12                          | 0.03                        | 6                           | 3                           | 44                          |
| ZZ04531            |                                   | <10                          | <1                          | 0.06                        | 30                           | 0.18                         | 136                         | 2                           | <0.01                        | 24                          | 450                         | 13                          | 0.03                        | 3                           | 2                           | 22                          |
| ZZ04532            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.42                         | 500                         | 1                           | 0.01                         | 26                          | 620                         | 7                           | 0.05                        | 2                           | 2                           | 51                          |
| ZZ04533            |                                   | <10                          | <1                          | 0.04                        | <10                          | 0.06                         | 68                          | <1                          | 0.04                         | 7                           | 280                         | 2                           | 0.02                        | <2                          | <1                          | 15                          |
| ZZ04534            |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.88                         | 434                         | 2                           | 0.01                         | 93                          | 920                         | 20                          | 0.06                        | 5                           | 4                           | 48                          |
| ZZ04535            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.62                         | 336                         | 3                           | <0.01                        | 61                          | 1240                        | 14                          | 0.04                        | 5                           | 3                           | 55                          |
| ZZ04536            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.42                         | 686                         | 3                           | 0.01                         | 40                          | 1410                        | 13                          | 0.14                        | 5                           | 2                           | 68                          |
| ZZ04537            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.36                         | 198                         | 3                           | <0.01                        | 28                          | 1450                        | 20                          | 0.03                        | 7                           | 3                           | 65                          |
| ZZ04538            |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.55                         | 1625                        | 9                           | <0.01                        | 61                          | 1630                        | 19                          | 0.02                        | 8                           | 4                           | 78                          |
| ZZ04539            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.36                         | 411                         | 7                           | <0.01                        | 41                          | 1470                        | 18                          | 0.01                        | 9                           | 3                           | 57                          |
| ZZ04540            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.41                         | 793                         | 10                          | <0.01                        | 53                          | 1470                        | 21                          | 0.02                        | 12                          | 3                           | 64                          |
| ZZ04541            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.35                         | 446                         | 2                           | <0.01                        | 141                         | 950                         | 22                          | 0.06                        | 9                           | 2                           | 69                          |
| ZZ04542            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.48                         | 1030                        | 4                           | <0.01                        | 316                         | 1240                        | 19                          | 0.02                        | 15                          | 4                           | 56                          |
| ZZ04543            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.51                         | 654                         | 4                           | <0.01                        | 137                         | 1120                        | 15                          | <0.01                       | 9                           | 4                           | 37                          |
| ZZ04544            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.43                         | 305                         | 2                           | 0.01                         | 52                          | 1130                        | 17                          | 0.05                        | 6                           | 3                           | 72                          |
| ZZ04545            |                                   | <10                          | 1                           | 0.10                        | 20                           | 0.84                         | 650                         | 5                           | <0.01                        | 85                          | 1240                        | 20                          | <0.01                       | 6                           | 5                           | 47                          |
| ZZ04546            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.53                         | 408                         | 5                           | 0.01                         | 63                          | 1120                        | 12                          | 0.03                        | 6                           | 4                           | 58                          |
| ZZ04547            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.54                         | 492                         | 3                           | <0.01                        | 54                          | 1250                        | 13                          | 0.05                        | 3                           | 3                           | 72                          |
| ZZ04548            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.46                         | 266                         | 2                           | <0.01                        | 37                          | 950                         | 11                          | 0.01                        | 4                           | 3                           | 32                          |
| ZZ04549            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.59                         | 710                         | 4                           | 0.01                         | 64                          | 1250                        | 13                          | 0.03                        | 6                           | 5                           | 55                          |
| ZZ04550            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.13                         | 234                         | 3                           | <0.01                        | 27                          | 1320                        | 11                          | 0.01                        | 6                           | 3                           | 37                          |
| ZZ04551            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.14                         | 154                         | 4                           | <0.01                        | 41                          | 690                         | 13                          | 0.04                        | 13                          | 3                           | 32                          |
| ZZ04552            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.48                         | 169                         | 4                           | <0.01                        | 63                          | 1310                        | 15                          | <0.01                       | 8                           | 4                           | 44                          |
| ZZ04553            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.67                         | 497                         | 2                           | 0.01                         | 75                          | 1260                        | 16                          | 0.04                        | 5                           | 5                           | 56                          |
| ZZ04554            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.55                         | 292                         | 3                           | 0.01                         | 39                          | 1240                        | 14                          | 0.01                        | 5                           | 3                           | 49                          |
| ZZ04555            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.51                         | 351                         | 4                           | <0.01                        | 66                          | 1360                        | 21                          | <0.01                       | 5                           | 4                           | 48                          |
| ZZ04556            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.52                         | 250                         | 3                           | <0.01                        | 44                          | 1400                        | 14                          | <0.01                       | 5                           | 3                           | 49                          |
| ZZ04557            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.36                         | 267                         | 2                           | 0.01                         | 45                          | 1290                        | 11                          | 0.01                        | 4                           | 2                           | 55                          |
| ZZ04558            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.36                         | 1530                        | 2                           | <0.01                        | 55                          | 1300                        | 14                          | 0.02                        | 3                           | 2                           | 63                          |
| ZZ04559            |                                   | <10                          | 1                           | 0.10                        | 20                           | 0.49                         | 545                         | 4                           | 0.01                         | 81                          | 1580                        | 15                          | 0.01                        | 7                           | 4                           | 72                          |
| ZZ04560            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.46                         | 426                         | 4                           | <0.01                        | 62                          | 1370                        | 13                          | 0.01                        | 11                          | 4                           | 49                          |



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Page: 6 - C  
Total # Pages: 7 (A - C)  
Plus Appendix Pages  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04521            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 122       |
| ZZ04522            |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 99        |
| ZZ04523            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 164       |
| ZZ04524            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 149       |
| ZZ04525            |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 214       |
| ZZ04526            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 86        |
| ZZ04527            |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 84        |
| ZZ04528            |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 93        |
| ZZ04529            |                                   | <20       | 0.01      | <10       | <10       | 49        | <10       | 119       |
| ZZ04530            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 117       |
| ZZ04531            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 102       |
| ZZ04532            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 99        |
| ZZ04533            |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 14        |
| ZZ04534            |                                   | <20       | 0.02      | <10       | <10       | 45        | <10       | 123       |
| ZZ04535            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 168       |
| ZZ04536            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 108       |
| ZZ04537            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 108       |
| ZZ04538            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 197       |
| ZZ04539            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 128       |
| ZZ04540            |                                   | <20       | 0.01      | <10       | 10        | 48        | <10       | 153       |
| ZZ04541            |                                   | <20       | 0.01      | <10       | 10        | 25        | <10       | 124       |
| ZZ04542            |                                   | <20       | 0.01      | <10       | 10        | 36        | <10       | 143       |
| ZZ04543            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 109       |
| ZZ04544            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 105       |
| ZZ04545            |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 153       |
| ZZ04546            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 127       |
| ZZ04547            |                                   | <20       | 0.02      | <10       | 10        | 33        | <10       | 104       |
| ZZ04548            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 98        |
| ZZ04549            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 143       |
| ZZ04550            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 91        |
| ZZ04551            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 140       |
| ZZ04552            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 144       |
| ZZ04553            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 114       |
| ZZ04554            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 104       |
| ZZ04555            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 152       |
| ZZ04556            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 106       |
| ZZ04557            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 101       |
| ZZ04558            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 107       |
| ZZ04559            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 186       |
| ZZ04560            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 137       |



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**Page: 7 - A  
 Total # Pages: 7 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 26- SEP- 2011  
 Account: F**

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21   | Au- ICP21 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |      |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
|                    |                                   | Recvd Wt. | Au        | Ag        | Al        | As        | B         | Ba        | Be        | Bi        | Ca        | Cd        | Co        | Cr        | Cu        | Fe   |
|                    |                                   | kg        | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       | %         | ppm       | ppm       | ppm       | ppm       | %    |
|                    |                                   | 0.02      | 0.001     | 0.2       | 0.01      | 2         | 10        | 10        | 0.5       | 2         | 0.01      | 0.5       | 1         | 1         | 1         | 0.01 |
| ZZ04561            |                                   | 0.46      | 0.040     | 0.8       | 0.77      | 62        | <10       | 270       | <0.5      | 2         | 0.74      | 1.2       | 12        | 27        | 179       | 2.88 |
| ZZ04562            |                                   | 0.34      | 0.023     | 0.7       | 0.65      | 60        | <10       | 270       | <0.5      | 3         | 0.62      | 0.7       | 10        | 21        | 92        | 3.02 |
| ZZ04563            |                                   | 0.44      | 0.008     | 0.7       | 1.09      | 27        | <10       | 360       | 0.5       | 3         | 1.22      | 1.3       | 13        | 42        | 64        | 2.53 |
| ZZ04564            |                                   | 0.46      | 0.204     | 1.0       | 0.81      | 1060      | <10       | 270       | <0.5      | 3         | 1.44      | 1.0       | 15        | 27        | 46        | 3.19 |
| ZZ04565            |                                   | 0.20      | 0.027     | 0.2       | 0.76      | 146       | <10       | 150       | <0.5      | 4         | 0.72      | 0.5       | 15        | 25        | 37        | 3.48 |
| ZZ04566            |                                   | 0.46      | 0.007     | 0.3       | 1.66      | 26        | <10       | 330       | 0.6       | 3         | 0.50      | 0.6       | 16        | 37        | 47        | 3.54 |
| ZZ04567            |                                   | 0.28      | 0.002     | <0.2      | 1.75      | 7         | <10       | 120       | <0.5      | 4         | 2.64      | 0.6       | 15        | 25        | 35        | 3.40 |
| ZZ04568            |                                   | 0.28      | 0.007     | 0.2       | 2.44      | 21        | <10       | 300       | 0.7       | 3         | 0.13      | 0.6       | 17        | 47        | 63        | 4.32 |
| ZZ04569            |                                   | 0.26      | 0.005     | <0.2      | 0.57      | 31        | <10       | 160       | <0.5      | 3         | 2.49      | 0.9       | 13        | 10        | 43        | 2.89 |
| ZZ04570            |                                   | 0.46      | 0.011     | <0.2      | 0.44      | 60        | <10       | 90        | <0.5      | 3         | 5.09      | <0.5      | 18        | 10        | 46        | 3.55 |
|                    |                                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |      |



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**Page: 7 - B  
 Total # Pages: 7 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 26- SEP- 2011  
 Account: F**

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        |
|                    |                                   | ppm<br>10 | ppm<br>1  | %<br>0.01 | ppm<br>10 | %<br>0.01 | ppm<br>5  | ppm<br>1  | %<br>0.01 | ppm<br>1  | ppm<br>10 | ppm<br>2  | %<br>0.01 | ppm<br>2  | ppm<br>1  |
| ZZ04561            |                                   | <10       | <1        | 0.08      | 20        | 0.32      | 598       | 3         | <0.01     | 70        | 2140      | 12        | <0.01     | 27        | 4         |
| ZZ04562            |                                   | <10       | 1         | 0.05      | 10        | 0.25      | 311       | 2         | <0.01     | 43        | 1070      | 12        | 0.01      | 8         | 3         |
| ZZ04563            |                                   | <10       | 1         | 0.08      | 10        | 0.56      | 664       | 3         | <0.01     | 77        | 820       | 14        | 0.02      | 6         | 3         |
| ZZ04564            |                                   | <10       | 1         | 0.05      | 10        | 0.35      | 594       | 3         | <0.01     | 52        | 970       | 15        | 0.02      | 7         | 3         |
| ZZ04565            |                                   | <10       | 1         | 0.05      | 20        | 0.36      | 379       | 2         | 0.01      | 49        | 740       | 11        | <0.01     | 4         | 5         |
| ZZ04566            |                                   | <10       | 1         | 0.08      | 20        | 0.68      | 660       | 3         | 0.01      | 50        | 780       | 15        | <0.01     | 4         | 5         |
| ZZ04567            |                                   | <10       | 1         | 0.03      | 30        | 0.99      | 344       | 1         | 0.01      | 33        | 590       | 11        | 0.01      | <2        | 3         |
| ZZ04568            |                                   | 10        | 1         | 0.06      | 30        | 0.97      | 337       | 3         | <0.01     | 68        | 490       | 15        | <0.01     | 6         | 3         |
| ZZ04569            |                                   | <10       | 1         | 0.04      | 10        | 0.19      | 443       | 2         | 0.01      | 35        | 720       | 7         | 0.02      | 4         | 3         |
| ZZ04570            |                                   | <10       | 1         | 0.05      | 10        | 0.25      | 317       | 1         | 0.01      | 44        | 780       | 7         | <0.01     | 6         | 3         |
|                    |                                   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |



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Page: 7 - C  
 Total # Pages: 7 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 26- SEP- 2011  
 Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04561            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 142       |
| ZZ04562            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 126       |
| ZZ04563            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 168       |
| ZZ04564            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 161       |
| ZZ04565            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 115       |
| ZZ04566            |                                   | <20       | 0.02      | <10       | <10       | 50        | <10       | 139       |
| ZZ04567            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 81        |
| ZZ04568            |                                   | <20       | <0.01     | <10       | <10       | 38        | <10       | 152       |
| ZZ04569            |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 99        |
| ZZ04570            |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 118       |
|                    |                                   |           |           |           |           |           |           |           |



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 26- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11149969**

| Method      | CERTIFICATE COMMENTS           |
|-------------|--------------------------------|
| ALL METHODS | NSS is non- sufficient sample. |



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Page: 1  
Finalized Date: 9- SEP- 2011  
Account: F

**CERTIFICATE WH11150009**

Project: Wolverine- String

P.O. No.:

This report is for 2 Rock samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- QC  | Crushing QC Test               |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - C)  
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 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150009**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>0.02 | Au- AA24<br>Au<br>ppm<br>0.005 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|------------------------------------|--------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| K975374            |                                   | 0.33                               | <0.005                         | 0.2                           | 0.10                         | <2                          | <10                         | 40                           | <0.5                          | <2                          | 0.88                         | <0.5                          | 2                           | 20                          | 16                          | 0.49                         |
| K975375            |                                   | 0.43                               | <0.005                         | <0.2                          | 0.21                         | <2                          | <10                         | 200                          | <0.5                          | <2                          | 4.11                         | <0.5                          | 11                          | 23                          | 13                          | 1.95                         |



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Project: Wolverine- String

**Total # Pages: 2 (A - C)**  
**Finalized Date: 9- SEP- 2011**  
**Account: F**

**CERTIFICATE OF ANALYSIS    WH11150009**

|                    |                                   | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sample Description | Method<br>Analyte<br>Units<br>LOR | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        |
|                    |                                   | ppm       | ppm       | %         | ppm       | %         | ppm       | ppm       | %         | ppm       | ppm       | ppm       | %         | ppm       | ppm       |
|                    |                                   | 10        | 1         | 0.01      | 10        | 0.01      | 5         | 1         | 0.01      | 1         | 10        | 2         | 0.01      | 2         | 1         |
| K975374            |                                   | <10       | <1        | 0.01      | <10       | 0.14      | 78        | <1        | 0.01      | 20        | 70        | 3         | 0.01      | <2        | 1         |
| K975375            |                                   | <10       | <1        | 0.05      | <10       | 0.13      | 363       | <1        | 0.01      | 42        | 570       | <2        | 0.01      | <2        | 2         |



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 9- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150009**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| K975374            |                                   | <20       | <0.01     | <10       | <10       | 2         | <10       | 9         |
| K975375            |                                   | <20       | <0.01     | <10       | <10       | 6         | <10       | 16        |



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Page: 1  
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**CERTIFICATE WH11150070**

Project: Wolverine- String

P.O. No.:

This report is for 48 Rock samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI- 21  | Received Sample Weight         |
| LOG- 22  | Sample login - Rcd w/o BarCode |
| CRU- QC  | Crushing QC Test               |
| PUL- QC  | Pulverizing QC Test            |
| CRU- 31  | Fine crushing - 70% < 2mm      |
| SPL- 21  | Split sample - riffle splitter |
| PUL- 31  | Pulverize split to 85% < 75 um |

**ANALYTICAL PROCEDURES**

| ALS CODE  | DESCRIPTION                    | INSTRUMENT |
|-----------|--------------------------------|------------|
| Au- AA24  | Au 50g FA AA finish            | AAS        |
| ME- ICP41 | 35 Element Aqua Regia ICP- AES | ICP- AES   |

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150070**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- AA24<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|-----------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.005                 | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| K975401            |                                   | 1.40                       | <0.005                | <0.2                   | 2.12                 | 4                      | <10                   | 500                    | <0.5                   | <2                     | 10.1                 | <0.5                   | 30                     | 134                    | 19                     | 5.90                 |
| K975402            |                                   | 1.35                       | <0.005                | 0.2                    | 2.23                 | 2                      | <10                   | 560                    | <0.5                   | <2                     | 11.7                 | <0.5                   | 36                     | 161                    | 31                     | 5.97                 |
| K975403            |                                   | 1.40                       | <0.005                | <0.2                   | 1.81                 | 2                      | <10                   | 560                    | <0.5                   | <2                     | 12.9                 | <0.5                   | 31                     | 120                    | 70                     | 5.49                 |
| K975404            |                                   | 1.49                       | <0.005                | 0.2                    | 2.06                 | 10                     | <10                   | 490                    | <0.5                   | <2                     | 13.1                 | <0.5                   | 42                     | 147                    | 40                     | 6.35                 |
| K975405            |                                   | 1.34                       | 0.007                 | <0.2                   | 2.17                 | 6                      | <10                   | 460                    | <0.5                   | <2                     | 10.3                 | <0.5                   | 32                     | 159                    | 23                     | 5.52                 |
| K975406            |                                   | 1.47                       | <0.005                | <0.2                   | 1.33                 | 11                     | <10                   | 430                    | <0.5                   | <2                     | 10.5                 | <0.5                   | 24                     | 89                     | 87                     | 4.49                 |
| K975407            |                                   | 1.11                       | <0.005                | <0.2                   | 2.72                 | 24                     | <10                   | 350                    | <0.5                   | <2                     | 1.10                 | 1.0                    | 30                     | 81                     | 44                     | 7.06                 |
| K975408            |                                   | 1.88                       | <0.005                | 0.2                    | 1.70                 | 10                     | <10                   | 450                    | <0.5                   | <2                     | 4.18                 | <0.5                   | 15                     | 82                     | 56                     | 6.61                 |
| K975409            |                                   | 1.55                       | <0.005                | <0.2                   | 2.12                 | 11                     | <10                   | 450                    | <0.5                   | <2                     | 1.16                 | <0.5                   | 21                     | 111                    | 91                     | 7.07                 |
| K975410            |                                   | 1.42                       | <0.005                | <0.2                   | 3.49                 | 10                     | <10                   | 340                    | <0.5                   | <2                     | 1.30                 | <0.5                   | 22                     | 142                    | 53                     | 8.14                 |
| K975411            |                                   | 1.46                       | <0.005                | 0.2                    | 2.50                 | 16                     | <10                   | 390                    | <0.5                   | <2                     | 3.23                 | <0.5                   | 23                     | 107                    | 60                     | 7.57                 |
| K975412            |                                   | 1.35                       | <0.005                | 0.3                    | 2.07                 | 14                     | <10                   | 270                    | <0.5                   | <2                     | 8.3                  | <0.5                   | 29                     | 88                     | 31                     | 8.00                 |
| K975413            |                                   | 1.46                       | <0.005                | <0.2                   | 1.37                 | <2                     | <10                   | 610                    | <0.5                   | <2                     | 16.9                 | <0.5                   | 19                     | 100                    | 19                     | 4.12                 |
| K975414            |                                   | 1.40                       | <0.005                | <0.2                   | 0.90                 | 17                     | <10                   | 650                    | <0.5                   | <2                     | 11.5                 | <0.5                   | 32                     | 69                     | 39                     | 5.84                 |
| K975415            |                                   | 1.82                       | <0.005                | <0.2                   | 1.17                 | 17                     | <10                   | 640                    | <0.5                   | <2                     | 10.0                 | <0.5                   | 35                     | 89                     | 81                     | 5.45                 |
| K975416            |                                   | 1.62                       | <0.005                | <0.2                   | 2.18                 | 4                      | <10                   | 500                    | <0.5                   | <2                     | 9.0                  | <0.5                   | 42                     | 192                    | 28                     | 6.10                 |
| K975417            |                                   | 1.37                       | <0.005                | <0.2                   | 2.00                 | 7                      | <10                   | 480                    | <0.5                   | <2                     | 15.1                 | <0.5                   | 29                     | 142                    | 30                     | 5.61                 |
| K975418            |                                   | 1.73                       | <0.005                | <0.2                   | 2.49                 | 6                      | <10                   | 440                    | <0.5                   | <2                     | 8.6                  | <0.5                   | 37                     | 220                    | 36                     | 5.23                 |
| K975419            |                                   | 1.40                       | <0.005                | <0.2                   | 2.77                 | 3                      | <10                   | 390                    | <0.5                   | <2                     | 11.0                 | <0.5                   | 38                     | 265                    | 41                     | 6.03                 |
| K975420            |                                   | 1.80                       | <0.005                | <0.2                   | 2.48                 | 2                      | <10                   | 510                    | <0.5                   | <2                     | 10.8                 | <0.5                   | 41                     | 215                    | 51                     | 5.91                 |
| K975421            |                                   | 1.64                       | <0.005                | <0.2                   | 1.08                 | 12                     | <10                   | 670                    | <0.5                   | <2                     | 11.6                 | <0.5                   | 42                     | 86                     | 47                     | 6.22                 |
| K975422            |                                   | 1.92                       | <0.005                | <0.2                   | 0.88                 | 30                     | <10                   | 620                    | <0.5                   | <2                     | 12.3                 | <0.5                   | 37                     | 70                     | 35                     | 6.04                 |
| K975423            |                                   | 1.80                       | <0.005                | 0.2                    | 1.70                 | 113                    | <10                   | 620                    | <0.5                   | <2                     | 9.7                  | <0.5                   | 48                     | 129                    | 50                     | 6.98                 |
| K975424            |                                   | 1.78                       | <0.005                | <0.2                   | 1.51                 | 42                     | <10                   | 530                    | <0.5                   | <2                     | 12.6                 | 0.9                    | 34                     | 109                    | 35                     | 5.99                 |
| K975425            |                                   | 2.04                       | <0.005                | <0.2                   | 1.29                 | 5                      | <10                   | 630                    | <0.5                   | <2                     | 12.9                 | <0.5                   | 31                     | 114                    | 38                     | 5.63                 |
| K975426            |                                   | 1.25                       | <0.005                | <0.2                   | 0.46                 | 3                      | <10                   | 160                    | <0.5                   | <2                     | 6.9                  | <0.5                   | 9                      | 37                     | 7                      | 1.77                 |
| K975427            |                                   | 1.81                       | <0.005                | <0.2                   | 1.79                 | 8                      | <10                   | 520                    | <0.5                   | <2                     | 15.1                 | <0.5                   | 33                     | 140                    | 24                     | 5.35                 |
| K975428            |                                   | 1.65                       | <0.005                | <0.2                   | 1.39                 | 5                      | <10                   | 530                    | <0.5                   | <2                     | 15.2                 | <0.5                   | 23                     | 126                    | 20                     | 5.08                 |
| K975429            |                                   | 1.36                       | <0.005                | <0.2                   | 1.71                 | 2                      | <10                   | 500                    | <0.5                   | <2                     | 14.7                 | <0.5                   | 23                     | 145                    | 14                     | 5.42                 |
| K975430            |                                   | 0.89                       | <0.005                | <0.2                   | 0.19                 | <2                     | <10                   | 80                     | <0.5                   | <2                     | 6.60                 | <0.5                   | 4                      | 22                     | 3                      | 0.84                 |
| K975431            |                                   | 1.48                       | <0.005                | <0.2                   | 2.46                 | 3                      | <10                   | 500                    | <0.5                   | <2                     | 13.8                 | <0.5                   | 41                     | 212                    | 34                     | 5.84                 |
| K975432            |                                   | 1.51                       | <0.005                | <0.2                   | 1.53                 | 10                     | <10                   | 520                    | <0.5                   | <2                     | 14.5                 | <0.5                   | 32                     | 136                    | 104                    | 5.31                 |
| K975433            |                                   | 1.70                       | <0.005                | <0.2                   | 2.63                 | 6                      | <10                   | 650                    | <0.5                   | <2                     | 8.9                  | <0.5                   | 40                     | 188                    | 56                     | 6.13                 |
| K975434            |                                   | 1.58                       | <0.005                | 0.2                    | 1.37                 | 4                      | <10                   | 520                    | <0.5                   | <2                     | 15.0                 | <0.5                   | 25                     | 107                    | 66                     | 5.15                 |
| K975435            |                                   | 1.85                       | <0.005                | <0.2                   | 1.28                 | 2                      | <10                   | 640                    | <0.5                   | <2                     | 14.6                 | <0.5                   | 35                     | 110                    | 30                     | 6.19                 |
| K975436            |                                   | 1.90                       | <0.005                | 0.2                    | 1.35                 | 26                     | <10                   | 590                    | <0.5                   | <2                     | 13.2                 | <0.5                   | 32                     | 123                    | 21                     | 5.45                 |
| K975437            |                                   | 1.64                       | <0.005                | <0.2                   | 1.01                 | 28                     | <10                   | 540                    | <0.5                   | <2                     | 12.8                 | <0.5                   | 29                     | 91                     | 52                     | 5.44                 |
| K975438            |                                   | 1.65                       | <0.005                | 0.2                    | 0.62                 | 16                     | <10                   | 590                    | <0.5                   | <2                     | 9.5                  | <0.5                   | 29                     | 48                     | 56                     | 4.98                 |
| K975439            |                                   | 1.60                       | <0.005                | 0.2                    | 1.46                 | 16                     | <10                   | 530                    | <0.5                   | <2                     | 12.8                 | <0.5                   | 35                     | 108                    | 30                     | 7.41                 |
| K975365            |                                   | 0.36                       | <0.005                | 0.2                    | 1.01                 | 2                      | <10                   | 350                    | <0.5                   | <2                     | 13.1                 | <0.5                   | 26                     | 93                     | 15                     | 3.94                 |



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Page: 2 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 6- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150070**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| K975401            |                                   | 10                           | <1                          | 0.39                        | 20                           | 2.46                         | 1150                        | <1                          | 0.03                         | 148                         | 1670                        | 2                           | 0.02                        | <2                          | 6                           | 361                         |
| K975402            |                                   | 10                           | <1                          | 0.20                        | 20                           | 1.59                         | 1105                        | <1                          | 0.02                         | 190                         | 1460                        | 2                           | 0.02                        | 2                           | 7                           | 326                         |
| K975403            |                                   | 10                           | <1                          | 0.16                        | 20                           | 1.42                         | 1245                        | <1                          | 0.02                         | 157                         | 1630                        | <2                          | 0.02                        | <2                          | 7                           | 547                         |
| K975404            |                                   | 10                           | <1                          | 0.14                        | 20                           | 1.89                         | 1210                        | <1                          | 0.03                         | 199                         | 2310                        | 3                           | 0.02                        | 2                           | 6                           | 482                         |
| K975405            |                                   | 10                           | <1                          | 0.13                        | 10                           | 1.25                         | 887                         | <1                          | 0.02                         | 164                         | 1290                        | 3                           | 0.02                        | <2                          | 7                           | 287                         |
| K975406            |                                   | <10                          | <1                          | 0.13                        | 10                           | 1.04                         | 965                         | <1                          | 0.03                         | 109                         | 1200                        | 3                           | 0.02                        | <2                          | 5                           | 352                         |
| K975407            |                                   | 10                           | <1                          | 0.19                        | 30                           | 1.05                         | 892                         | 1                           | 0.02                         | 112                         | 4280                        | 5                           | 0.02                        | 2                           | 5                           | 57                          |
| K975408            |                                   | <10                          | <1                          | 0.28                        | 10                           | 1.06                         | 1315                        | <1                          | 0.02                         | 82                          | 810                         | 10                          | 0.07                        | <2                          | 4                           | 88                          |
| K975409            |                                   | 10                           | <1                          | 0.31                        | 30                           | 0.88                         | 580                         | <1                          | 0.02                         | 88                          | 1460                        | 15                          | 0.07                        | <2                          | 4                           | 49                          |
| K975410            |                                   | 10                           | <1                          | 0.22                        | 20                           | 1.31                         | 609                         | <1                          | 0.03                         | 95                          | 2680                        | 7                           | 0.06                        | <2                          | 6                           | 52                          |
| K975411            |                                   | 10                           | <1                          | 0.24                        | 20                           | 1.14                         | 1460                        | 1                           | 0.02                         | 92                          | 2570                        | 9                           | 0.03                        | 2                           | 6                           | 76                          |
| K975412            |                                   | 10                           | <1                          | 0.17                        | 10                           | 1.09                         | 1950                        | <1                          | 0.03                         | 84                          | 2270                        | 3                           | 0.06                        | <2                          | 7                           | 189                         |
| K975413            |                                   | <10                          | <1                          | 0.16                        | 20                           | 1.55                         | 956                         | <1                          | 0.02                         | 93                          | 1150                        | 3                           | 0.02                        | <2                          | 5                           | 519                         |
| K975414            |                                   | <10                          | <1                          | 0.21                        | 10                           | 2.06                         | 1205                        | <1                          | 0.02                         | 144                         | 1760                        | 2                           | 0.06                        | 2                           | 6                           | 325                         |
| K975415            |                                   | <10                          | <1                          | 0.21                        | 10                           | 2.23                         | 1255                        | <1                          | 0.02                         | 148                         | 1380                        | 4                           | 0.02                        | 3                           | 6                           | 217                         |
| K975416            |                                   | 10                           | <1                          | 0.15                        | 20                           | 2.82                         | 814                         | <1                          | 0.03                         | 196                         | 1950                        | 2                           | 0.02                        | <2                          | 8                           | 208                         |
| K975417            |                                   | 10                           | <1                          | 0.13                        | 10                           | 2.68                         | 1530                        | <1                          | 0.02                         | 131                         | 1170                        | 3                           | 0.06                        | <2                          | 8                           | 476                         |
| K975418            |                                   | 10                           | <1                          | 0.14                        | 10                           | 2.52                         | 814                         | <1                          | 0.03                         | 183                         | 1920                        | <2                          | 0.19                        | <2                          | 10                          | 173                         |
| K975419            |                                   | 10                           | <1                          | 0.11                        | 10                           | 2.18                         | 804                         | <1                          | 0.03                         | 208                         | 1730                        | 3                           | 0.04                        | <2                          | 10                          | 260                         |
| K975420            |                                   | 10                           | <1                          | 0.15                        | 20                           | 1.74                         | 590                         | <1                          | 0.02                         | 215                         | 1500                        | <2                          | 0.02                        | <2                          | 8                           | 246                         |
| K975421            |                                   | <10                          | <1                          | 0.20                        | 10                           | 2.82                         | 1270                        | <1                          | 0.02                         | 159                         | 2020                        | <2                          | 0.01                        | <2                          | 6                           | 392                         |
| K975422            |                                   | <10                          | <1                          | 0.19                        | 20                           | 2.54                         | 1250                        | <1                          | 0.02                         | 145                         | 2150                        | 2                           | 0.01                        | <2                          | 6                           | 343                         |
| K975423            |                                   | <10                          | <1                          | 0.20                        | 20                           | 1.70                         | 1350                        | 1                           | 0.02                         | 202                         | 1830                        | 3                           | 0.02                        | 6                           | 7                           | 212                         |
| K975424            |                                   | <10                          | <1                          | 0.16                        | 10                           | 1.11                         | 1055                        | 1                           | 0.02                         | 167                         | 1800                        | 3                           | 0.02                        | 2                           | 7                           | 276                         |
| K975425            |                                   | <10                          | <1                          | 0.19                        | 10                           | 2.14                         | 1025                        | <1                          | 0.03                         | 126                         | 2390                        | 2                           | 0.01                        | 3                           | 5                           | 369                         |
| K975426            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.30                         | 392                         | <1                          | 0.01                         | 57                          | 300                         | <2                          | 0.01                        | <2                          | 5                           | 155                         |
| K975427            |                                   | 10                           | <1                          | 0.18                        | 20                           | 1.28                         | 921                         | <1                          | 0.02                         | 166                         | 2120                        | 3                           | 0.02                        | <2                          | 7                           | 363                         |
| K975428            |                                   | <10                          | <1                          | 0.17                        | 20                           | 1.63                         | 889                         | <1                          | 0.02                         | 130                         | 1700                        | 2                           | 0.01                        | <2                          | 7                           | 480                         |
| K975429            |                                   | <10                          | <1                          | 0.15                        | 10                           | 1.47                         | 789                         | <1                          | 0.02                         | 147                         | 1780                        | 2                           | 0.01                        | 2                           | 7                           | 451                         |
| K975430            |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.14                         | 238                         | <1                          | 0.01                         | 20                          | 130                         | <2                          | 0.01                        | <2                          | 5                           | 384                         |
| K975431            |                                   | 10                           | <1                          | 0.15                        | 10                           | 1.39                         | 1115                        | <1                          | 0.02                         | 217                         | 1020                        | <2                          | 0.01                        | <2                          | 8                           | 314                         |
| K975432            |                                   | <10                          | 1                           | 0.16                        | 10                           | 1.59                         | 1015                        | <1                          | 0.02                         | 159                         | 2020                        | 2                           | 0.02                        | <2                          | 7                           | 402                         |
| K975433            |                                   | 10                           | 1                           | 0.19                        | 20                           | 1.20                         | 980                         | <1                          | 0.02                         | 215                         | 1360                        | 3                           | 0.02                        | <2                          | 8                           | 177                         |
| K975434            |                                   | <10                          | <1                          | 0.15                        | 10                           | 1.32                         | 837                         | <1                          | 0.02                         | 124                         | 2530                        | 2                           | 0.10                        | <2                          | 6                           | 430                         |
| K975435            |                                   | <10                          | <1                          | 0.17                        | 10                           | 2.49                         | 938                         | <1                          | 0.03                         | 150                         | 2230                        | <2                          | 0.02                        | <2                          | 6                           | 519                         |
| K975436            |                                   | <10                          | <1                          | 0.16                        | 10                           | 1.77                         | 1000                        | <1                          | 0.03                         | 155                         | 1940                        | <2                          | 0.02                        | <2                          | 6                           | 525                         |
| K975437            |                                   | <10                          | <1                          | 0.17                        | 20                           | 1.00                         | 1015                        | <1                          | 0.04                         | 164                         | 2470                        | 2                           | 0.03                        | <2                          | 8                           | 440                         |
| K975438            |                                   | <10                          | <1                          | 0.22                        | 10                           | 1.83                         | 1085                        | 1                           | 0.02                         | 124                         | 1370                        | 2                           | 0.04                        | <2                          | 5                           | 222                         |
| K975439            |                                   | <10                          | 1                           | 0.18                        | 10                           | 2.43                         | 1015                        | <1                          | 0.02                         | 169                         | 2270                        | 2                           | 0.03                        | <2                          | 6                           | 318                         |
| K975365            |                                   | <10                          | <1                          | 0.10                        | 10                           | 2.12                         | 726                         | <1                          | 0.02                         | 120                         | 1550                        | <2                          | 0.02                        | <2                          | 4                           | 458                         |



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 6- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150070**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| K975401            |                                   | <20       | 0.04      | <10       | <10       | 34        | <10       | 54        |
| K975402            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 68        |
| K975403            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 60        |
| K975404            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 82        |
| K975405            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 72        |
| K975406            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 55        |
| K975407            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 120       |
| K975408            |                                   | <20       | 0.01      | <10       | <10       | 14        | <10       | 85        |
| K975409            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 94        |
| K975410            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 118       |
| K975411            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 124       |
| K975412            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 85        |
| K975413            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 33        |
| K975414            |                                   | <20       | <0.01     | <10       | <10       | 17        | <10       | 42        |
| K975415            |                                   | <20       | <0.01     | <10       | <10       | 17        | <10       | 44        |
| K975416            |                                   | <20       | 0.01      | <10       | <10       | 55        | <10       | 71        |
| K975417            |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 59        |
| K975418            |                                   | <20       | 0.01      | <10       | <10       | 83        | <10       | 71        |
| K975419            |                                   | <20       | 0.01      | <10       | <10       | 79        | <10       | 87        |
| K975420            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 83        |
| K975421            |                                   | <20       | <0.01     | <10       | <10       | 25        | <10       | 47        |
| K975422            |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       | 50        |
| K975423            |                                   | <20       | <0.01     | <10       | <10       | 29        | <10       | 141       |
| K975424            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 121       |
| K975425            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 52        |
| K975426            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 15        |
| K975427            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 50        |
| K975428            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 37        |
| K975429            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 42        |
| K975430            |                                   | <20       | <0.01     | <10       | <10       | 4         | <10       | 6         |
| K975431            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 75        |
| K975432            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 57        |
| K975433            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 72        |
| K975434            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 42        |
| K975435            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 49        |
| K975436            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 54        |
| K975437            |                                   | <20       | <0.01     | <10       | <10       | 25        | <10       | 56        |
| K975438            |                                   | <20       | <0.01     | <10       | <10       | 26        | <10       | 25        |
| K975439            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 55        |
| K975365            |                                   | <20       | <0.01     | <10       | <10       | 24        | <10       | 41        |



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Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 6- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150070**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>0.02 | Au- AA24<br>Au<br>ppm<br>0.005 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|------------------------------------|--------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| K975366            |                                   | 0.48                               | <0.005                         | <0.2                          | 0.53                         | 9                           | <10                         | 490                          | <0.5                          | <2                          | 16.3                         | <0.5                          | 18                          | 30                          | 17                          | 4.58                         |
| K975367            |                                   | 0.27                               | <0.005                         | <0.2                          | 2.88                         | 6                           | <10                         | 500                          | <0.5                          | <2                          | 11.2                         | <0.5                          | 23                          | 140                         | 72                          | 7.06                         |
| K975368            |                                   | 0.47                               | <0.005                         | <0.2                          | 2.90                         | <2                          | <10                         | 250                          | <0.5                          | <2                          | 9.8                          | <0.5                          | 33                          | 250                         | 33                          | 6.15                         |
| K975369            |                                   | 0.25                               | <0.005                         | <0.2                          | 3.86                         | <2                          | <10                         | 80                           | <0.5                          | <2                          | 13.0                         | <0.5                          | 28                          | 322                         | 23                          | 6.84                         |
| K975370            |                                   | 0.42                               | <0.005                         | <0.2                          | 3.00                         | 2                           | <10                         | 170                          | 0.6                           | <2                          | 16.3                         | <0.5                          | 27                          | 273                         | 23                          | 4.63                         |
| K975371            |                                   | 0.50                               | <0.005                         | <0.2                          | 3.72                         | 2                           | <10                         | 200                          | <0.5                          | <2                          | 9.7                          | <0.5                          | 36                          | 345                         | 32                          | 7.04                         |
| K975372            |                                   | 0.50                               | <0.005                         | <0.2                          | 1.76                         | <2                          | <10                         | 320                          | <0.5                          | <2                          | 14.9                         | <0.5                          | 46                          | 151                         | 77                          | 4.68                         |
| K975373            |                                   | 0.42                               | <0.005                         | <0.2                          | 1.14                         | 2                           | <10                         | 350                          | <0.5                          | <2                          | 9.8                          | <0.5                          | 17                          | 183                         | 41                          | 3.39                         |



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**Page: 3 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 6- SEP- 2011  
 Account: F**

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150070**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| K975366            |                                   | <10                          | <1                          | 0.13                        | 10                           | 1.12                         | 1255                        | <1                          | 0.02                         | 71                          | 1800                        | 3                           | 0.02                        | <2                          | 6                           | 436                         |
| K975367            |                                   | 10                           | <1                          | 0.18                        | 10                           | 1.07                         | 315                         | <1                          | 0.02                         | 127                         | 1560                        | 2                           | 0.14                        | <2                          | 8                           | 307                         |
| K975368            |                                   | 10                           | <1                          | 0.07                        | 10                           | 3.39                         | 1080                        | <1                          | 0.02                         | 168                         | 1930                        | 3                           | 0.01                        | <2                          | 8                           | 307                         |
| K975369            |                                   | 20                           | <1                          | 0.01                        | 10                           | 2.80                         | 871                         | <1                          | <0.01                        | 176                         | 860                         | 10                          | <0.01                       | <2                          | 13                          | 614                         |
| K975370            |                                   | 20                           | 1                           | 0.02                        | 20                           | 3.55                         | 1380                        | <1                          | <0.01                        | 130                         | 1610                        | 4                           | <0.01                       | <2                          | 12                          | 760                         |
| K975371            |                                   | 20                           | 1                           | 0.08                        | 20                           | 4.17                         | 727                         | <1                          | <0.01                        | 224                         | 2970                        | <2                          | 0.11                        | <2                          | 12                          | 320                         |
| K975372            |                                   | 10                           | <1                          | 0.09                        | 10                           | 4.13                         | 962                         | <1                          | <0.01                        | 189                         | 1410                        | 4                           | <0.01                       | <2                          | 5                           | 545                         |
| K975373            |                                   | 10                           | <1                          | 0.15                        | 20                           | 0.93                         | 579                         | <1                          | <0.01                        | 100                         | 1150                        | <2                          | <0.01                       | <2                          | 5                           | 351                         |



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Page: 3 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 6- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11150070**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| K975366            |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       | 42        |
| K975367            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 60        |
| K975368            |                                   | <20       | 0.01      | <10       | <10       | 82        | <10       | 80        |
| K975369            |                                   | <20       | 0.02      | <10       | <10       | 99        | <10       | 80        |
| K975370            |                                   | <20       | 0.01      | <10       | <10       | 102       | <10       | 74        |
| K975371            |                                   | <20       | 0.02      | <10       | <10       | 142       | <10       | 66        |
| K975372            |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       | 58        |
| K975373            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 31        |



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Page: 1  
Finalized Date: 24- SEP- 2011  
Account: F

**CERTIFICATE WH11151920**

Project: WLV- Finlayson String  
P.O. No.:  
This report is for 210 Soil samples submitted to our lab in Whitehorse, YT, Canada on 9- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ04571            |                                   | 0.40                       | 0.005                  | 0.2                    | 0.86                 | 17                     | <10                   | 140                    | <0.5                   | <2                     | 2.81                 | 0.8                    | 13                     | 15                     | 69                     | 3.26                 |
| ZZ04572            |                                   | 0.32                       | 0.008                  | 0.2                    | 0.98                 | 8                      | <10                   | 60                     | <0.5                   | <2                     | 0.69                 | <0.5                   | 12                     | 14                     | 30                     | 3.35                 |
| ZZ04573            |                                   | 0.64                       | 0.004                  | 0.4                    | 1.09                 | 11                     | <10                   | 100                    | <0.5                   | <2                     | 5.38                 | <0.5                   | 12                     | 16                     | 32                     | 3.03                 |
| ZZ04574            |                                   | 0.48                       | 0.007                  | 0.7                    | 0.31                 | 61                     | <10                   | 50                     | <0.5                   | <2                     | 5.18                 | <0.5                   | 26                     | 4                      | 144                    | 3.56                 |
| ZZ04575            |                                   | 0.38                       | 0.062                  | 1.1                    | 0.63                 | 131                    | <10                   | 300                    | <0.5                   | <2                     | 0.33                 | 1.0                    | 20                     | 15                     | 98                     | 5.31                 |
| ZZ04576            |                                   | 0.44                       | 0.009                  | 1.1                    | 0.94                 | 33                     | <10                   | 330                    | 0.5                    | <2                     | 0.92                 | 1.7                    | 11                     | 24                     | 54                     | 2.55                 |
| ZZ04577            |                                   | 0.40                       | 0.010                  | 2.6                    | 1.09                 | 31                     | <10                   | 360                    | 0.5                    | <2                     | 0.15                 | 0.7                    | 11                     | 36                     | 71                     | 2.65                 |
| ZZ04578            |                                   | 0.40                       | 0.009                  | 0.3                    | 1.27                 | 21                     | <10                   | 240                    | 0.5                    | <2                     | 0.14                 | 0.6                    | 10                     | 37                     | 46                     | 2.40                 |
| ZZ04579            |                                   | 0.64                       | 0.014                  | 0.6                    | 0.91                 | 28                     | <10                   | 340                    | <0.5                   | <2                     | 0.25                 | 0.5                    | 8                      | 34                     | 71                     | 2.56                 |
| ZZ04580            |                                   | 0.50                       | 0.003                  | 0.5                    | 1.05                 | 10                     | <10                   | 320                    | <0.5                   | <2                     | 0.68                 | 0.8                    | 9                      | 39                     | 33                     | 1.94                 |
| ZZ04581            |                                   | 0.28                       | 0.006                  | 0.4                    | 1.11                 | 10                     | <10                   | 290                    | <0.5                   | <2                     | 0.68                 | 0.8                    | 11                     | 29                     | 29                     | 2.15                 |
| ZZ04582            |                                   | 0.40                       | 0.005                  | 0.2                    | 1.31                 | 12                     | <10                   | 400                    | <0.5                   | <2                     | 0.34                 | <0.5                   | 13                     | 69                     | 41                     | 2.70                 |
| ZZ04583            |                                   | 0.38                       | 0.003                  | 0.3                    | 1.35                 | 9                      | <10                   | 390                    | 0.5                    | <2                     | 0.81                 | <0.5                   | 12                     | 67                     | 21                     | 2.46                 |
| ZZ04584            |                                   | 0.30                       | 0.003                  | <0.2                   | 1.18                 | 8                      | <10                   | 210                    | <0.5                   | <2                     | 0.12                 | <0.5                   | 9                      | 56                     | 11                     | 2.35                 |
| ZZ04585            |                                   | 0.62                       | 0.004                  | 0.3                    | 1.40                 | 13                     | <10                   | 440                    | 0.5                    | <2                     | 0.51                 | <0.5                   | 12                     | 69                     | 39                     | 2.86                 |
| ZZ04586            |                                   | 0.62                       | 0.005                  | 0.4                    | 1.45                 | 10                     | <10                   | 390                    | 0.5                    | <2                     | 0.83                 | <0.5                   | 14                     | 71                     | 36                     | 2.69                 |
| ZZ04587            |                                   | 0.44                       | 0.006                  | 0.3                    | 1.49                 | 10                     | <10                   | 490                    | 0.5                    | <2                     | 0.75                 | 0.8                    | 15                     | 74                     | 49                     | 3.03                 |
| ZZ04588            |                                   | 0.40                       | 0.004                  | 0.5                    | 1.59                 | 10                     | <10                   | 680                    | 0.6                    | <2                     | 0.71                 | 0.6                    | 18                     | 72                     | 46                     | 3.34                 |
| ZZ04589            |                                   | 0.44                       | 0.003                  | 0.2                    | 1.73                 | 9                      | <10                   | 240                    | 0.5                    | <2                     | 0.22                 | <0.5                   | 17                     | 72                     | 26                     | 3.26                 |
| ZZ04590            |                                   | 0.40                       | 0.005                  | 0.5                    | 1.24                 | 11                     | <10                   | 960                    | <0.5                   | <2                     | 0.42                 | 0.8                    | 13                     | 57                     | 41                     | 2.67                 |
| ZZ04591            |                                   | 0.56                       | 0.006                  | 0.4                    | 1.55                 | 12                     | <10                   | 510                    | 0.5                    | <2                     | 0.49                 | 2.2                    | 20                     | 73                     | 46                     | 3.17                 |
| ZZ04592            |                                   | 0.52                       | 0.009                  | 0.6                    | 0.97                 | 26                     | <10                   | 2030                   | <0.5                   | <2                     | 0.37                 | 0.7                    | 9                      | 38                     | 55                     | 2.49                 |
| ZZ04593            |                                   | 0.40                       | 0.004                  | 0.3                    | 1.29                 | 10                     | <10                   | 520                    | <0.5                   | <2                     | 0.41                 | 0.7                    | 12                     | 57                     | 40                     | 2.69                 |
| ZZ04594            |                                   | 0.46                       | 0.013                  | 1.0                    | 0.98                 | 47                     | <10                   | 690                    | <0.5                   | 2                      | 0.42                 | 2.0                    | 10                     | 31                     | 56                     | 2.95                 |
| ZZ04595            |                                   | 0.46                       | 0.009                  | 0.6                    | 1.03                 | 17                     | <10                   | 420                    | <0.5                   | <2                     | 0.49                 | 2.7                    | 9                      | 44                     | 60                     | 2.00                 |
| ZZ04596            |                                   | 0.50                       | 0.010                  | 0.6                    | 1.02                 | 23                     | <10                   | 460                    | <0.5                   | <2                     | 0.39                 | 2.3                    | 11                     | 40                     | 50                     | 2.21                 |
| ZZ04597            |                                   | 0.60                       | 0.014                  | 1.7                    | 0.73                 | 43                     | <10                   | 350                    | <0.5                   | <2                     | 0.48                 | 3.5                    | 13                     | 26                     | 103                    | 2.94                 |
| ZZ04598            |                                   | 0.32                       | 0.008                  | 0.3                    | 0.83                 | 31                     | <10                   | 190                    | <0.5                   | <2                     | 0.44                 | 0.7                    | 11                     | 56                     | 22                     | 2.74                 |
| ZZ04599            |                                   | 0.46                       | 0.018                  | 1.4                    | 0.81                 | 60                     | <10                   | 740                    | <0.5                   | <2                     | 0.35                 | 4.4                    | 10                     | 27                     | 135                    | 3.05                 |
| ZZ04600            |                                   | 0.36                       | 0.012                  | 0.7                    | 0.87                 | 26                     | <10                   | 400                    | <0.5                   | <2                     | 0.41                 | 1.1                    | 9                      | 32                     | 65                     | 2.20                 |
| ZZ04601            |                                   | 0.24                       | 0.005                  | 0.5                    | 1.28                 | 9                      | <10                   | 320                    | <0.5                   | <2                     | 0.64                 | <0.5                   | 13                     | 56                     | 25                     | 2.63                 |
| ZZ04602            |                                   | 0.26                       | 0.003                  | 0.2                    | 0.84                 | 11                     | <10                   | 160                    | <0.5                   | <2                     | 0.49                 | <0.5                   | 7                      | 26                     | 11                     | 1.63                 |
| ZZ04603            |                                   | 0.28                       | 0.002                  | <0.2                   | 0.87                 | 11                     | <10                   | 230                    | <0.5                   | <2                     | 0.13                 | 0.6                    | 5                      | 26                     | 10                     | 1.72                 |
| ZZ04604            |                                   | 0.28                       | 0.009                  | <0.2                   | 0.78                 | 12                     | <10                   | 470                    | <0.5                   | <2                     | 0.28                 | <0.5                   | 7                      | 43                     | 32                     | 2.39                 |
| ZZ04605            |                                   | 0.30                       | 0.011                  | 0.6                    | 0.96                 | 21                     | <10                   | 490                    | <0.5                   | <2                     | 1.66                 | 1.1                    | 15                     | 70                     | 63                     | 2.64                 |
| ZZ04606            |                                   | 0.44                       | 0.011                  | 0.4                    | 1.50                 | 31                     | <10                   | 540                    | 0.7                    | <2                     | 0.60                 | <0.5                   | 18                     | 111                    | 42                     | 3.42                 |
| ZZ04607            |                                   | 0.40                       | 0.013                  | 0.4                    | 0.98                 | 25                     | <10                   | 350                    | <0.5                   | <2                     | 0.33                 | 0.6                    | 11                     | 55                     | 30                     | 2.40                 |
| ZZ04608            |                                   | 0.22                       | 0.005                  | 0.5                    | 0.89                 | 15                     | <10                   | 450                    | <0.5                   | <2                     | 1.56                 | 0.8                    | 9                      | 44                     | 32                     | 1.69                 |
| ZZ04609            |                                   | 0.32                       | 0.015                  | 0.6                    | 0.87                 | 46                     | <10                   | 370                    | <0.5                   | <2                     | 0.60                 | 0.7                    | 6                      | 34                     | 40                     | 1.98                 |
| ZZ04610            |                                   | 0.34                       | 0.030                  | 1.1                    | 0.82                 | 69                     | <10                   | 430                    | <0.5                   | <2                     | 0.59                 | 2.9                    | 13                     | 37                     | 94                     | 2.66                 |



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Page: 2 - B  
Total # Pages: 7 (A - C)  
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Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04571            |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.46                         | 618                         | 4                           | 0.02                         | 33                          | 810                         | 8                           | 0.03                        | 3                           | 3                           | 68                          |
| ZZ04572            |                                   | <10                          | <1                          | 0.02                        | 30                           | 0.46                         | 292                         | 1                           | 0.01                         | 27                          | 740                         | 9                           | 0.02                        | 2                           | 3                           | 27                          |
| ZZ04573            |                                   | <10                          | 1                           | 0.02                        | 30                           | 0.62                         | 284                         | 1                           | <0.01                        | 32                          | 680                         | 14                          | <0.01                       | 2                           | 3                           | 152                         |
| ZZ04574            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.52                         | 562                         | 6                           | <0.01                        | 55                          | 2290                        | 8                           | 0.03                        | 7                           | 4                           | 84                          |
| ZZ04575            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.15                         | 799                         | 7                           | <0.01                        | 84                          | 1280                        | 35                          | 0.04                        | 13                          | 4                           | 39                          |
| ZZ04576            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.39                         | 435                         | 3                           | <0.01                        | 43                          | 790                         | 16                          | 0.01                        | 6                           | 3                           | 60                          |
| ZZ04577            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.29                         | 433                         | 5                           | <0.01                        | 46                          | 760                         | 17                          | <0.01                       | 8                           | 2                           | 41                          |
| ZZ04578            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.40                         | 298                         | 4                           | <0.01                        | 41                          | 720                         | 12                          | <0.01                       | 5                           | 2                           | 33                          |
| ZZ04579            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.31                         | 298                         | 4                           | <0.01                        | 44                          | 880                         | 12                          | <0.01                       | 6                           | 3                           | 47                          |
| ZZ04580            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.58                         | 428                         | 1                           | <0.01                        | 40                          | 790                         | 9                           | 0.01                        | <2                          | 2                           | 47                          |
| ZZ04581            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.59                         | 463                         | 1                           | <0.01                        | 32                          | 820                         | 10                          | 0.02                        | 2                           | 3                           | 45                          |
| ZZ04582            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.90                         | 534                         | 1                           | <0.01                        | 75                          | 740                         | 14                          | <0.01                       | 2                           | 4                           | 23                          |
| ZZ04583            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.83                         | 584                         | 1                           | <0.01                        | 73                          | 750                         | 12                          | 0.01                        | 2                           | 3                           | 41                          |
| ZZ04584            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.58                         | 336                         | 2                           | <0.01                        | 38                          | 380                         | 12                          | <0.01                       | 2                           | 2                           | 9                           |
| ZZ04585            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.94                         | 503                         | 1                           | <0.01                        | 69                          | 650                         | 12                          | <0.01                       | <2                          | 4                           | 53                          |
| ZZ04586            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.91                         | 362                         | 1                           | <0.01                        | 67                          | 830                         | 13                          | 0.03                        | <2                          | 5                           | 54                          |
| ZZ04587            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.99                         | 774                         | 2                           | <0.01                        | 87                          | 870                         | 15                          | 0.03                        | 3                           | 5                           | 38                          |
| ZZ04588            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.97                         | 1750                        | 1                           | <0.01                        | 89                          | 880                         | 12                          | 0.01                        | 3                           | 5                           | 40                          |
| ZZ04589            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.87                         | 531                         | 1                           | <0.01                        | 59                          | 540                         | 11                          | <0.01                       | <2                          | 3                           | 13                          |
| ZZ04590            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.74                         | 803                         | 2                           | <0.01                        | 56                          | 1070                        | 12                          | <0.01                       | 2                           | 4                           | 35                          |
| ZZ04591            |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.04                         | 856                         | 2                           | <0.01                        | 79                          | 1020                        | 14                          | <0.01                       | 3                           | 5                           | 29                          |
| ZZ04592            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.44                         | 344                         | 3                           | <0.01                        | 54                          | 1330                        | 13                          | 0.01                        | 4                           | 3                           | 59                          |
| ZZ04593            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.91                         | 513                         | 1                           | <0.01                        | 53                          | 960                         | 10                          | <0.01                       | 2                           | 4                           | 29                          |
| ZZ04594            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.39                         | 422                         | 7                           | <0.01                        | 40                          | 1290                        | 16                          | <0.01                       | 6                           | 3                           | 56                          |
| ZZ04595            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.57                         | 285                         | 2                           | <0.01                        | 56                          | 1060                        | 15                          | 0.01                        | 5                           | 3                           | 47                          |
| ZZ04596            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.52                         | 403                         | 4                           | <0.01                        | 50                          | 880                         | 14                          | <0.01                       | 3                           | 3                           | 45                          |
| ZZ04597            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.32                         | 514                         | 9                           | <0.01                        | 94                          | 2140                        | 20                          | <0.01                       | 9                           | 3                           | 138                         |
| ZZ04598            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.65                         | 634                         | 7                           | <0.01                        | 55                          | 1510                        | 10                          | <0.01                       | 3                           | 2                           | 53                          |
| ZZ04599            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.31                         | 371                         | 7                           | <0.01                        | 87                          | 1930                        | 20                          | <0.01                       | 10                          | 3                           | 94                          |
| ZZ04600            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.41                         | 230                         | 4                           | <0.01                        | 50                          | 1240                        | 13                          | <0.01                       | 4                           | 3                           | 51                          |
| ZZ04601            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.71                         | 527                         | 1                           | <0.01                        | 58                          | 470                         | 13                          | <0.01                       | <2                          | 3                           | 35                          |
| ZZ04602            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.41                         | 252                         | 1                           | <0.01                        | 19                          | 620                         | 9                           | <0.01                       | <2                          | 2                           | 37                          |
| ZZ04603            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.27                         | 194                         | 1                           | <0.01                        | 23                          | 230                         | 11                          | <0.01                       | 2                           | 1                           | 12                          |
| ZZ04604            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.40                         | 453                         | 1                           | <0.01                        | 43                          | 390                         | 10                          | <0.01                       | 3                           | 2                           | 14                          |
| ZZ04605            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.95                         | 657                         | 2                           | <0.01                        | 127                         | 840                         | 15                          | 0.03                        | 5                           | 3                           | 53                          |
| ZZ04606            |                                   | <10                          | 1                           | 0.08                        | 20                           | 1.48                         | 673                         | 2                           | <0.01                        | 136                         | 830                         | 14                          | 0.02                        | 6                           | 5                           | 66                          |
| ZZ04607            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.54                         | 319                         | 2                           | <0.01                        | 57                          | 420                         | 14                          | <0.01                       | 6                           | 2                           | 33                          |
| ZZ04608            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.55                         | 815                         | 2                           | <0.01                        | 61                          | 780                         | 12                          | 0.04                        | 5                           | 2                           | 104                         |
| ZZ04609            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.36                         | 176                         | 3                           | 0.01                         | 33                          | 1490                        | 16                          | 0.04                        | 5                           | 2                           | 59                          |
| ZZ04610            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.46                         | 437                         | 5                           | 0.01                         | 74                          | 2140                        | 16                          | 0.02                        | 9                           | 3                           | 87                          |



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Page: 2 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 24- SEP- 2011  
 Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04571            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 106       |
| ZZ04572            |                                   | <20       | <0.01     | <10       | <10       | 9         | <10       | 77        |
| ZZ04573            |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 85        |
| ZZ04574            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 73        |
| ZZ04575            |                                   | <20       | <0.01     | <10       | <10       | 24        | <10       | 163       |
| ZZ04576            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 153       |
| ZZ04577            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 136       |
| ZZ04578            |                                   | <20       | 0.03      | <10       | <10       | 39        | <10       | 103       |
| ZZ04579            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 112       |
| ZZ04580            |                                   | <20       | 0.03      | <10       | <10       | 33        | <10       | 76        |
| ZZ04581            |                                   | <20       | 0.04      | <10       | <10       | 33        | <10       | 69        |
| ZZ04582            |                                   | <20       | 0.05      | <10       | <10       | 43        | <10       | 87        |
| ZZ04583            |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 67        |
| ZZ04584            |                                   | <20       | 0.04      | <10       | <10       | 48        | <10       | 54        |
| ZZ04585            |                                   | <20       | 0.05      | <10       | <10       | 46        | <10       | 78        |
| ZZ04586            |                                   | <20       | 0.05      | <10       | <10       | 49        | <10       | 90        |
| ZZ04587            |                                   | <20       | 0.05      | <10       | 10        | 52        | <10       | 117       |
| ZZ04588            |                                   | <20       | 0.03      | <10       | <10       | 50        | <10       | 101       |
| ZZ04589            |                                   | <20       | 0.08      | <10       | <10       | 53        | <10       | 76        |
| ZZ04590            |                                   | <20       | 0.04      | <10       | <10       | 45        | <10       | 114       |
| ZZ04591            |                                   | <20       | 0.06      | <10       | <10       | 52        | <10       | 150       |
| ZZ04592            |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 175       |
| ZZ04593            |                                   | <20       | 0.07      | <10       | <10       | 43        | <10       | 102       |
| ZZ04594            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 158       |
| ZZ04595            |                                   | <20       | 0.03      | <10       | <10       | 37        | <10       | 184       |
| ZZ04596            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 199       |
| ZZ04597            |                                   | <20       | 0.01      | <10       | <10       | 52        | <10       | 493       |
| ZZ04598            |                                   | <20       | 0.03      | <10       | <10       | 38        | <10       | 300       |
| ZZ04599            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 595       |
| ZZ04600            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 237       |
| ZZ04601            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 74        |
| ZZ04602            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 77        |
| ZZ04603            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 103       |
| ZZ04604            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 89        |
| ZZ04605            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 116       |
| ZZ04606            |                                   | <20       | 0.01      | <10       | <10       | 65        | <10       | 111       |
| ZZ04607            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 113       |
| ZZ04608            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 85        |
| ZZ04609            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 128       |
| ZZ04610            |                                   | <20       | 0.01      | <10       | <10       | 47        | <10       | 276       |



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Page: 3 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ04611            |                                   | 0.26                       | 0.018                  | 0.5                    | 0.76                 | 76                     | <10                   | 320                    | <0.5                   | <2                     | 0.82                 | 0.9                    | 7                      | 25                     | 41                     | 1.71                 |
| ZZ04612            |                                   | 0.24                       | 0.017                  | 0.6                    | 0.80                 | 58                     | <10                   | 370                    | <0.5                   | <2                     | 1.02                 | 1.4                    | 8                      | 24                     | 45                     | 2.04                 |
| ZZ04613            |                                   | 0.22                       | 0.026                  | 0.8                    | 0.85                 | 73                     | <10                   | 420                    | 0.5                    | <2                     | 1.28                 | 1.8                    | 9                      | 27                     | 77                     | 2.55                 |
| ZZ04614            |                                   | 0.24                       | 0.011                  | 0.4                    | 0.63                 | 101                    | <10                   | 200                    | <0.5                   | <2                     | 1.05                 | 0.5                    | 10                     | 35                     | 25                     | 2.38                 |
| ZZ04615            |                                   | 0.26                       | 0.021                  | 0.6                    | 0.90                 | 101                    | <10                   | 290                    | <0.5                   | <2                     | 0.43                 | 1.1                    | 11                     | 35                     | 64                     | 3.01                 |
| ZZ04616            |                                   | 0.18                       | 0.009                  | 0.3                    | 0.82                 | 35                     | <10                   | 230                    | <0.5                   | <2                     | 0.89                 | 0.5                    | 10                     | 27                     | 28                     | 2.43                 |
| ZZ04617            |                                   | 0.34                       | 0.028                  | 0.7                    | 0.64                 | 133                    | <10                   | 330                    | <0.5                   | <2                     | 0.71                 | 0.9                    | 10                     | 20                     | 76                     | 2.55                 |
| ZZ04618            |                                   | 0.20                       | 0.011                  | 0.3                    | 0.76                 | 37                     | <10                   | 330                    | <0.5                   | <2                     | 0.77                 | 1.0                    | 8                      | 25                     | 36                     | 1.71                 |
| ZZ04619            |                                   | 0.44                       | 0.019                  | 0.6                    | 1.10                 | 90                     | <10                   | 450                    | 0.5                    | <2                     | 0.80                 | 1.4                    | 16                     | 36                     | 69                     | 3.49                 |
| ZZ04620            |                                   | 0.38                       | 0.009                  | 0.4                    | 1.14                 | 79                     | <10                   | 240                    | <0.5                   | <2                     | 0.79                 | 0.6                    | 18                     | 51                     | 55                     | 3.95                 |
| ZZ04621            |                                   | 0.26                       | 0.007                  | 0.3                    | 0.67                 | 22                     | <10                   | 170                    | <0.5                   | <2                     | 1.16                 | 0.5                    | 9                      | 25                     | 40                     | 2.00                 |
| ZZ04622            |                                   | 0.40                       | 0.010                  | 0.2                    | 1.05                 | 45                     | <10                   | 260                    | <0.5                   | <2                     | 0.62                 | 0.6                    | 13                     | 38                     | 45                     | 3.32                 |
| ZZ04623            |                                   | 0.34                       | 0.015                  | 0.6                    | 0.99                 | 44                     | <10                   | 280                    | <0.5                   | <2                     | 0.77                 | 0.9                    | 16                     | 37                     | 60                     | 3.26                 |
| ZZ04624            |                                   | 0.28                       | 0.010                  | 0.4                    | 0.82                 | 7                      | <10                   | 290                    | <0.5                   | <2                     | 1.01                 | 1.4                    | 6                      | 29                     | 40                     | 1.23                 |
| ZZ04625            |                                   | 0.28                       | 0.021                  | 0.9                    | 0.37                 | 16                     | <10                   | 200                    | <0.5                   | <2                     | 1.01                 | <0.5                   | 6                      | 9                      | 169                    | 1.88                 |
| ZZ04626            |                                   | 0.36                       | 0.014                  | 0.6                    | 0.52                 | 19                     | <10                   | 210                    | <0.5                   | <2                     | 1.00                 | <0.5                   | 5                      | 24                     | 66                     | 1.99                 |
| ZZ04627            |                                   | 0.38                       | 0.023                  | 0.7                    | 0.75                 | 39                     | <10                   | 380                    | <0.5                   | <2                     | 0.55                 | <0.5                   | 7                      | 27                     | 82                     | 2.43                 |
| ZZ04628            |                                   | 0.40                       | 0.016                  | 0.6                    | 0.96                 | 25                     | <10                   | 310                    | <0.5                   | <2                     | 0.50                 | <0.5                   | 7                      | 36                     | 56                     | 2.37                 |
| ZZ04629            |                                   | 0.30                       | 0.036                  | 0.8                    | 0.59                 | 29                     | <10                   | 200                    | <0.5                   | <2                     | 0.51                 | <0.5                   | 6                      | 19                     | 59                     | 1.71                 |
| ZZ04630            |                                   | 0.40                       | 0.020                  | 0.6                    | 1.11                 | 27                     | <10                   | 390                    | 0.5                    | <2                     | 0.50                 | <0.5                   | 8                      | 40                     | 76                     | 2.75                 |
| ZZ04631            |                                   | 0.36                       | 0.028                  | 1.2                    | 0.85                 | 52                     | <10                   | 320                    | <0.5                   | <2                     | 0.59                 | 0.9                    | 11                     | 35                     | 123                    | 2.82                 |
| ZZ04632            |                                   | 0.44                       | 0.011                  | 0.8                    | 1.08                 | 40                     | <10                   | 360                    | <0.5                   | <2                     | 0.75                 | 2.0                    | 13                     | 48                     | 63                     | 2.57                 |
| ZZ04633            |                                   | 0.40                       | 0.012                  | 0.5                    | 1.25                 | 35                     | <10                   | 550                    | <0.5                   | <2                     | 0.93                 | 0.8                    | 13                     | 28                     | 53                     | 2.85                 |
| ZZ04634            |                                   | 0.28                       | 0.028                  | 0.3                    | 1.51                 | 163                    | <10                   | 850                    | 0.5                    | <2                     | 0.83                 | 0.6                    | 16                     | 27                     | 62                     | 3.93                 |
| ZZ04635            |                                   | 0.32                       | 0.006                  | 0.2                    | 1.35                 | 26                     | <10                   | 310                    | <0.5                   | <2                     | 0.28                 | <0.5                   | 15                     | 29                     | 35                     | 2.92                 |
| ZZ04636            |                                   | 0.24                       | 0.003                  | <0.2                   | 1.14                 | 32                     | <10                   | 200                    | <0.5                   | <2                     | 0.04                 | <0.5                   | 8                      | 22                     | 24                     | 3.38                 |
| ZZ04637            |                                   | 0.32                       | 0.003                  | <0.2                   | 1.13                 | 28                     | <10                   | 110                    | <0.5                   | <2                     | 0.03                 | <0.5                   | 8                      | 26                     | 22                     | 3.12                 |
| ZZ04638            |                                   | 0.32                       | 0.006                  | <0.2                   | 1.68                 | 30                     | <10                   | 550                    | 0.5                    | <2                     | 0.15                 | <0.5                   | 12                     | 26                     | 46                     | 3.43                 |
| ZZ04639            |                                   | 0.26                       | 0.008                  | 0.4                    | 1.15                 | 26                     | <10                   | 180                    | <0.5                   | <2                     | 2.40                 | 1.1                    | 14                     | 19                     | 66                     | 3.44                 |
| ZZ04640            |                                   | 0.30                       | 0.009                  | 0.6                    | 0.99                 | 44                     | <10                   | 210                    | <0.5                   | <2                     | 0.58                 | 1.1                    | 14                     | 20                     | 51                     | 3.54                 |
| ZZ04641            |                                   | 0.36                       | 0.019                  | 0.8                    | 0.62                 | 73                     | <10                   | 180                    | <0.5                   | <2                     | 0.73                 | 1.0                    | 6                      | 16                     | 54                     | 2.37                 |
| ZZ04642            |                                   | 0.36                       | 0.006                  | 0.5                    | 1.05                 | 63                     | <10                   | 270                    | <0.5                   | <2                     | 0.19                 | <0.5                   | 9                      | 23                     | 41                     | 4.00                 |
| ZZ04643            |                                   | 0.22                       | 0.002                  | 0.2                    | 0.42                 | 29                     | <10                   | 100                    | <0.5                   | <2                     | 0.03                 | <0.5                   | 3                      | 7                      | 27                     | 1.55                 |
| ZZ04644            |                                   | 0.36                       | 0.003                  | 1.0                    | 0.80                 | 33                     | <10                   | 150                    | <0.5                   | <2                     | 0.07                 | <0.5                   | 2                      | 17                     | 11                     | 1.41                 |
| ZZ04645            |                                   | 0.34                       | 0.010                  | 1.4                    | 1.59                 | 37                     | <10                   | 370                    | 0.7                    | 2                      | 0.06                 | 1.3                    | 12                     | 46                     | 96                     | 3.09                 |
| ZZ04646            |                                   | 0.20                       | 0.002                  | 0.5                    | 0.62                 | 2                      | <10                   | 110                    | <0.5                   | 2                      | 0.10                 | 1.6                    | 1                      | 23                     | 18                     | 0.53                 |
| ZZ04647            |                                   | 0.40                       | 0.007                  | 0.4                    | 0.49                 | 16                     | <10                   | 100                    | <0.5                   | 2                      | 3.14                 | 1.1                    | 15                     | 7                      | 117                    | 3.30                 |
| ZZ04648            |                                   | 0.38                       | 0.009                  | 0.2                    | 1.05                 | 16                     | <10                   | 350                    | <0.5                   | 3                      | 0.41                 | <0.5                   | 8                      | 28                     | 48                     | 2.30                 |
| ZZ04649            |                                   | 0.28                       | 0.008                  | 0.8                    | 1.56                 | 13                     | <10                   | 530                    | 0.5                    | <2                     | 0.68                 | 1.3                    | 14                     | 45                     | 64                     | 2.55                 |
| ZZ04650            |                                   | 0.28                       | 0.020                  | 0.6                    | 0.93                 | 71                     | <10                   | 360                    | <0.5                   | 2                      | 0.73                 | 0.9                    | 9                      | 33                     | 28                     | 2.27                 |



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Page: 3 - B  
 Total # Pages: 7 (A - C)  
 Finalized Date: 24- SEP- 2011  
 Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04611            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.30                         | 591                         | 4                           | 0.01                         | 31                          | 1450                        | 15                          | 0.05                        | 5                           | 2                           | 62                          |
| ZZ04612            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.32                         | 693                         | 4                           | 0.01                         | 45                          | 1310                        | 13                          | 0.07                        | 4                           | 2                           | 70                          |
| ZZ04613            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.42                         | 377                         | 3                           | 0.01                         | 68                          | 1410                        | 18                          | 0.06                        | 10                          | 3                           | 84                          |
| ZZ04614            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.37                         | 385                         | 5                           | 0.01                         | 59                          | 1390                        | 15                          | 0.03                        | 10                          | 2                           | 67                          |
| ZZ04615            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.45                         | 414                         | 7                           | 0.01                         | 77                          | 1540                        | 16                          | <0.01                       | 9                           | 4                           | 52                          |
| ZZ04616            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.35                         | 446                         | 4                           | 0.01                         | 33                          | 1160                        | 12                          | 0.03                        | 4                           | 2                           | 59                          |
| ZZ04617            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.38                         | 299                         | 5                           | 0.01                         | 87                          | 1020                        | 24                          | 0.01                        | 11                          | 3                           | 51                          |
| ZZ04618            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.31                         | 226                         | 2                           | 0.01                         | 37                          | 1000                        | 13                          | 0.04                        | 4                           | 2                           | 48                          |
| ZZ04619            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.58                         | 635                         | 4                           | 0.01                         | 76                          | 1230                        | 21                          | 0.01                        | 6                           | 4                           | 47                          |
| ZZ04620            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.59                         | 775                         | 3                           | 0.01                         | 83                          | 1260                        | 18                          | 0.01                        | 5                           | 5                           | 44                          |
| ZZ04621            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.43                         | 384                         | 1                           | 0.01                         | 43                          | 1030                        | 8                           | 0.05                        | 2                           | 2                           | 47                          |
| ZZ04622            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.52                         | 417                         | 3                           | 0.01                         | 53                          | 1170                        | 15                          | 0.01                        | 4                           | 4                           | 37                          |
| ZZ04623            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.49                         | 329                         | 4                           | 0.01                         | 74                          | 1370                        | 17                          | 0.01                        | 5                           | 4                           | 45                          |
| ZZ04624            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.42                         | 175                         | <1                          | 0.01                         | 38                          | 1350                        | 11                          | 0.08                        | <2                          | 2                           | 53                          |
| ZZ04625            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.13                         | 246                         | 3                           | 0.01                         | 32                          | 900                         | 8                           | 0.05                        | 4                           | 2                           | 60                          |
| ZZ04626            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.32                         | 155                         | 3                           | 0.01                         | 30                          | 1610                        | 7                           | 0.03                        | 7                           | 1                           | 85                          |
| ZZ04627            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.28                         | 224                         | 3                           | 0.01                         | 33                          | 1370                        | 14                          | 0.01                        | 9                           | 3                           | 53                          |
| ZZ04628            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.44                         | 195                         | 2                           | 0.01                         | 31                          | 1260                        | 15                          | <0.01                       | 4                           | 3                           | 48                          |
| ZZ04629            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.22                         | 290                         | 2                           | 0.01                         | 26                          | 790                         | 13                          | 0.02                        | 11                          | 2                           | 50                          |
| ZZ04630            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.50                         | 186                         | 2                           | 0.01                         | 44                          | 960                         | 16                          | <0.01                       | 7                           | 4                           | 46                          |
| ZZ04631            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.39                         | 1770                        | 4                           | 0.01                         | 86                          | 1560                        | 19                          | <0.01                       | 9                           | 4                           | 55                          |
| ZZ04632            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.60                         | 515                         | 3                           | 0.01                         | 72                          | 970                         | 16                          | 0.02                        | 4                           | 4                           | 60                          |
| ZZ04633            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.76                         | 379                         | 2                           | 0.02                         | 42                          | 1140                        | 12                          | 0.03                        | 3                           | 5                           | 82                          |
| ZZ04634            |                                   | 10                           | 1                           | 0.09                        | 20                           | 0.94                         | 484                         | 1                           | 0.02                         | 33                          | 1340                        | 18                          | 0.01                        | 5                           | 10                          | 73                          |
| ZZ04635            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.51                         | 321                         | 3                           | 0.01                         | 42                          | 470                         | 11                          | <0.01                       | 2                           | 3                           | 35                          |
| ZZ04636            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.30                         | 222                         | 4                           | 0.01                         | 28                          | 360                         | 14                          | <0.01                       | 4                           | 2                           | 10                          |
| ZZ04637            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.32                         | 213                         | 5                           | <0.01                        | 27                          | 260                         | 14                          | <0.01                       | 3                           | 1                           | 8                           |
| ZZ04638            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.40                         | 348                         | 4                           | 0.01                         | 40                          | 370                         | 16                          | <0.01                       | 4                           | 3                           | 24                          |
| ZZ04639            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.67                         | 437                         | 2                           | 0.01                         | 44                          | 930                         | 12                          | 0.01                        | 3                           | 3                           | 76                          |
| ZZ04640            |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.45                         | 402                         | 2                           | 0.01                         | 43                          | 1090                        | 20                          | 0.01                        | 5                           | 3                           | 36                          |
| ZZ04641            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.19                         | 182                         | 2                           | 0.01                         | 23                          | 1320                        | 22                          | 0.04                        | 6                           | 3                           | 58                          |
| ZZ04642            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.17                         | 296                         | 5                           | 0.01                         | 26                          | 980                         | 27                          | 0.01                        | 5                           | 2                           | 28                          |
| ZZ04643            |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.02                         | 94                          | 6                           | <0.01                        | 14                          | 580                         | 12                          | <0.01                       | 4                           | <1                          | 17                          |
| ZZ04644            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.13                         | 102                         | 2                           | <0.01                        | 10                          | 860                         | 14                          | <0.01                       | <2                          | 1                           | 18                          |
| ZZ04645            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.28                         | 264                         | 7                           | <0.01                        | 71                          | 620                         | 16                          | <0.01                       | 7                           | 2                           | 45                          |
| ZZ04646            |                                   | 10                           | 1                           | 0.04                        | 10                           | 0.10                         | 45                          | <1                          | <0.01                        | 11                          | 270                         | 7                           | <0.01                       | 2                           | <1                          | 15                          |
| ZZ04647            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.28                         | 378                         | 3                           | <0.01                        | 51                          | 1250                        | 15                          | 0.07                        | 5                           | 2                           | 64                          |
| ZZ04648            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.46                         | 273                         | 2                           | <0.01                        | 33                          | 750                         | 9                           | <0.01                       | 4                           | 2                           | 41                          |
| ZZ04649            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.61                         | 1010                        | 1                           | 0.01                         | 53                          | 860                         | 10                          | 0.01                        | 4                           | 4                           | 47                          |
| ZZ04650            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.40                         | 836                         | 5                           | 0.01                         | 33                          | 1370                        | 12                          | 0.03                        | 6                           | 2                           | 62                          |



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Page: 3 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 24- SEP- 2011  
 Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04611            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 109       |
| ZZ04612            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 142       |
| ZZ04613            |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 172       |
| ZZ04614            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 147       |
| ZZ04615            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 191       |
| ZZ04616            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 87        |
| ZZ04617            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 526       |
| ZZ04618            |                                   | <20       | 0.01      | <10       | 10        | 25        | <10       | 132       |
| ZZ04619            |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 172       |
| ZZ04620            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 116       |
| ZZ04621            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 101       |
| ZZ04622            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 120       |
| ZZ04623            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 155       |
| ZZ04624            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 135       |
| ZZ04625            |                                   | <20       | 0.01      | <10       | <10       | 11        | <10       | 87        |
| ZZ04626            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 74        |
| ZZ04627            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 83        |
| ZZ04628            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 100       |
| ZZ04629            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 64        |
| ZZ04630            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 131       |
| ZZ04631            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 126       |
| ZZ04632            |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 202       |
| ZZ04633            |                                   | <20       | 0.02      | <10       | <10       | 57        | <10       | 140       |
| ZZ04634            |                                   | <20       | 0.04      | <10       | <10       | 83        | <10       | 131       |
| ZZ04635            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 121       |
| ZZ04636            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 107       |
| ZZ04637            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 120       |
| ZZ04638            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 127       |
| ZZ04639            |                                   | <20       | <0.01     | <10       | <10       | 20        | <10       | 200       |
| ZZ04640            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 154       |
| ZZ04641            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 111       |
| ZZ04642            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 98        |
| ZZ04643            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 79        |
| ZZ04644            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 67        |
| ZZ04645            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 197       |
| ZZ04646            |                                   | <20       | 0.02      | <10       | <10       | 18        | <10       | 26        |
| ZZ04647            |                                   | <20       | 0.01      | <10       | <10       | 14        | <10       | 142       |
| ZZ04648            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 91        |
| ZZ04649            |                                   | <20       | 0.03      | <10       | <10       | 47        | <10       | 108       |
| ZZ04650            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 154       |



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Page: 4 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ04651            |                                   | 0.40                       | 0.005                  | 0.4                    | 1.04                 | 27                     | <10                   | 310                    | <0.5                   | 2                      | 0.83                 | 1.1                    | 15                     | 48                     | 39                     | 2.93                 |
| ZZ04652            |                                   | 0.42                       | 0.004                  | 0.2                    | 1.42                 | 8                      | <10                   | 350                    | <0.5                   | 2                      | 0.75                 | <0.5                   | 13                     | 61                     | 31                     | 2.76                 |
| ZZ04653            |                                   | 0.44                       | 0.005                  | 0.3                    | 1.62                 | 10                     | <10                   | 380                    | 0.5                    | 2                      | 0.64                 | <0.5                   | 16                     | 61                     | 40                     | 3.31                 |
| ZZ04654            |                                   | 0.34                       | 0.005                  | 0.4                    | 1.44                 | 15                     | <10                   | 270                    | <0.5                   | 2                      | 0.85                 | 0.5                    | 13                     | 54                     | 62                     | 3.00                 |
| ZZ04655            |                                   | 0.34                       | 0.004                  | 0.6                    | 1.80                 | 9                      | <10                   | 540                    | 0.6                    | 2                      | 0.80                 | 1.3                    | 17                     | 86                     | 53                     | 3.33                 |
| ZZ04656            |                                   | 0.32                       | 0.005                  | 0.4                    | 1.69                 | 10                     | <10                   | 410                    | 0.5                    | 2                      | 0.63                 | 0.7                    | 15                     | 67                     | 41                     | 3.35                 |
| ZZ04657            |                                   | 0.28                       | 0.007                  | 0.3                    | 1.57                 | 9                      | <10                   | 370                    | 0.5                    | 2                      | 0.56                 | <0.5                   | 15                     | 71                     | 49                     | 3.30                 |
| ZZ04658            |                                   | 0.32                       | 0.003                  | 0.3                    | 1.33                 | 7                      | <10                   | 500                    | <0.5                   | <2                     | 0.66                 | 0.7                    | 11                     | 65                     | 28                     | 2.38                 |
| ZZ04659            |                                   | 0.14                       | 0.008                  | 1.8                    | 1.10                 | 26                     | <10                   | 630                    | <0.5                   | <2                     | 0.78                 | 1.5                    | 5                      | 29                     | 50                     | 2.14                 |
| ZZ04660            |                                   | 0.26                       | 0.036                  | 7.2                    | 1.89                 | 133                    | <10                   | 1360                   | 0.8                    | <2                     | 0.37                 | 2.9                    | 17                     | 66                     | 125                    | 4.95                 |
| ZZ04661            |                                   | 0.26                       | 0.003                  | 0.2                    | 1.15                 | 8                      | <10                   | 280                    | <0.5                   | <2                     | 0.45                 | 0.5                    | 11                     | 52                     | 24                     | 2.35                 |
| ZZ04662            |                                   | 0.20                       | 0.004                  | 0.6                    | 0.68                 | 14                     | <10                   | 340                    | <0.5                   | 2                      | 0.34                 | 1.2                    | 8                      | 39                     | 16                     | 1.65                 |
| ZZ04663            |                                   | 0.24                       | 0.004                  | 0.7                    | 0.71                 | 19                     | <10                   | 220                    | <0.5                   | 2                      | 0.39                 | 0.8                    | 8                      | 32                     | 15                     | 1.73                 |
| ZZ04664            |                                   | 0.24                       | 0.009                  | 2.2                    | 0.37                 | 35                     | <10                   | 200                    | <0.5                   | <2                     | 0.41                 | 3.0                    | 4                      | 13                     | 71                     | 2.17                 |
| ZZ04665            |                                   | 0.26                       | 0.004                  | 0.8                    | 0.55                 | 12                     | <10                   | 320                    | <0.5                   | 2                      | 0.78                 | 1.4                    | 2                      | 15                     | 19                     | 0.93                 |
| ZZ04666            |                                   | 0.14                       | 0.011                  | 1.9                    | 1.08                 | 32                     | <10                   | 1270                   | <0.5                   | <2                     | 0.84                 | 3.0                    | 9                      | 33                     | 35                     | 1.81                 |
| ZZ04667            |                                   | 0.24                       | 0.006                  | 0.3                    | 0.55                 | 21                     | <10                   | 390                    | <0.5                   | 2                      | 0.16                 | <0.5                   | 5                      | 27                     | 15                     | 1.57                 |
| ZZ04668            |                                   | 0.24                       | 0.006                  | 1.1                    | 0.87                 | 20                     | <10                   | 490                    | <0.5                   | <2                     | 0.82                 | 0.5                    | 5                      | 35                     | 24                     | 1.79                 |
| ZZ04669            |                                   | 0.34                       | 0.003                  | 0.6                    | 1.12                 | 14                     | <10                   | 360                    | <0.5                   | <2                     | 0.69                 | 1.7                    | 8                      | 48                     | 44                     | 1.98                 |
| ZZ04670            |                                   | 0.24                       | 0.008                  | 0.6                    | 0.69                 | 22                     | <10                   | 230                    | <0.5                   | 2                      | 0.53                 | 0.5                    | 4                      | 19                     | 35                     | 1.66                 |
| ZZ04671            |                                   | 0.20                       | 0.008                  | 0.7                    | 0.92                 | 21                     | <10                   | 510                    | <0.5                   | 2                      | 0.94                 | 4.5                    | 5                      | 31                     | 76                     | 1.70                 |
| ZZ04672            |                                   | 0.40                       | 0.011                  | 0.6                    | 1.18                 | 28                     | <10                   | 530                    | <0.5                   | 2                      | 0.43                 | 1.3                    | 13                     | 42                     | 66                     | 2.80                 |
| ZZ04673            |                                   | 0.38                       | 0.005                  | 0.3                    | 1.61                 | 13                     | <10                   | 400                    | 0.5                    | 2                      | 0.53                 | <0.5                   | 14                     | 78                     | 55                     | 3.26                 |
| ZZ04674            |                                   | 0.32                       | 0.005                  | 0.4                    | 1.32                 | 17                     | <10                   | 430                    | <0.5                   | 2                      | 0.49                 | 0.6                    | 14                     | 57                     | 45                     | 2.96                 |
| ZZ04675            |                                   | 0.32                       | 0.005                  | 0.2                    | 1.60                 | 19                     | <10                   | 460                    | <0.5                   | <2                     | 0.66                 | 1.1                    | 19                     | 70                     | 43                     | 3.83                 |
| ZZ04676            |                                   | 0.28                       | 0.004                  | 0.4                    | 1.59                 | 11                     | <10                   | 410                    | <0.5                   | 2                      | 0.91                 | <0.5                   | 13                     | 69                     | 30                     | 3.10                 |
| ZZ04677            |                                   | 0.42                       | 0.006                  | 0.5                    | 1.63                 | 13                     | <10                   | 730                    | 0.6                    | <2                     | 0.67                 | 4.4                    | 21                     | 76                     | 69                     | 3.56                 |
| ZZ04678            |                                   | 0.30                       | 0.004                  | 0.3                    | 1.50                 | 9                      | <10                   | 350                    | <0.5                   | 2                      | 0.60                 | <0.5                   | 14                     | 73                     | 34                     | 3.03                 |
| ZZ04679            |                                   | 0.30                       | 0.004                  | 0.2                    | 1.44                 | 10                     | <10                   | 370                    | <0.5                   | <2                     | 0.93                 | 1.0                    | 12                     | 69                     | 36                     | 2.92                 |
| ZZ04680            |                                   | 0.36                       | 0.013                  | 0.8                    | 1.74                 | 22                     | <10                   | 590                    | 0.6                    | 2                      | 1.16                 | 1.5                    | 16                     | 83                     | 72                     | 3.29                 |
| ZZ04681            |                                   | 0.24                       | 0.005                  | 0.6                    | 1.45                 | 11                     | <10                   | 390                    | 0.5                    | <2                     | 0.97                 | 0.9                    | 16                     | 70                     | 57                     | 2.87                 |
| ZZ04682            |                                   | 0.34                       | 0.011                  | 0.5                    | 1.16                 | 19                     | <10                   | 290                    | <0.5                   | <2                     | 0.74                 | 1.0                    | 13                     | 42                     | 72                     | 2.76                 |
| ZZ04683            |                                   | 0.34                       | 0.008                  | 0.4                    | 1.21                 | 13                     | <10                   | 280                    | <0.5                   | <2                     | 0.72                 | <0.5                   | 12                     | 53                     | 56                     | 2.62                 |
| ZZ04684            |                                   | 0.24                       | 0.005                  | <0.2                   | 1.34                 | 8                      | <10                   | 280                    | <0.5                   | <2                     | 0.41                 | <0.5                   | 10                     | 60                     | 23                     | 2.61                 |
| ZZ04685            |                                   | 0.28                       | 0.003                  | <0.2                   | 1.12                 | 2                      | <10                   | 290                    | <0.5                   | <2                     | 1.20                 | 1.2                    | 6                      | 58                     | 15                     | 1.61                 |
| ZZ04686            |                                   | 0.34                       | 0.004                  | <0.2                   | 1.36                 | 8                      | <10                   | 410                    | <0.5                   | <2                     | 0.68                 | <0.5                   | 14                     | 86                     | 27                     | 2.75                 |
| ZZ04687            |                                   | 0.40                       | 0.003                  | 0.2                    | 1.37                 | 11                     | <10                   | 270                    | <0.5                   | <2                     | 0.26                 | <0.5                   | 12                     | 58                     | 20                     | 2.92                 |
| ZZ04688            |                                   | 0.18                       | 0.003                  | <0.2                   | 0.51                 | 4                      | <10                   | 90                     | <0.5                   | <2                     | 0.05                 | <0.5                   | 2                      | 13                     | 5                      | 0.71                 |
| ZZ04689            |                                   | 0.20                       | 0.011                  | 0.3                    | 0.71                 | 23                     | <10                   | 320                    | <0.5                   | <2                     | 0.33                 | 0.5                    | 7                      | 20                     | 69                     | 2.20                 |
| ZZ04690            |                                   | 0.36                       | 0.009                  | 0.5                    | 1.03                 | 17                     | <10                   | 310                    | <0.5                   | <2                     | 0.51                 | 1.1                    | 9                      | 24                     | 62                     | 2.40                 |



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Page: 4 - B  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

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**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04651            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.66                         | 530                         | 1                           | 0.01                         | 70                          | 790                         | 16                          | 0.02                        | 4                           | 4                           | 42                          |
| ZZ04652            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.89                         | 395                         | 1                           | 0.01                         | 59                          | 900                         | 9                           | 0.01                        | 3                           | 5                           | 37                          |
| ZZ04653            |                                   | 10                           | 1                           | 0.08                        | 20                           | 0.95                         | 618                         | 1                           | 0.01                         | 62                          | 940                         | 10                          | 0.01                        | 3                           | 5                           | 32                          |
| ZZ04654            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.87                         | 392                         | 1                           | 0.01                         | 58                          | 880                         | 11                          | 0.01                        | 3                           | 4                           | 45                          |
| ZZ04655            |                                   | 10                           | 1                           | 0.10                        | 20                           | 0.97                         | 1745                        | 2                           | 0.01                         | 109                         | 950                         | 10                          | 0.03                        | 2                           | 6                           | 48                          |
| ZZ04656            |                                   | 10                           | <1                          | 0.08                        | 20                           | 0.95                         | 582                         | 1                           | 0.01                         | 52                          | 820                         | 11                          | 0.01                        | 2                           | 5                           | 40                          |
| ZZ04657            |                                   | 10                           | 1                           | 0.10                        | 20                           | 1.04                         | 532                         | <1                          | 0.01                         | 78                          | 910                         | 11                          | <0.01                       | 3                           | 5                           | 32                          |
| ZZ04658            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.86                         | 681                         | 3                           | 0.01                         | 60                          | 1030                        | 9                           | 0.02                        | 4                           | 4                           | 33                          |
| ZZ04659            |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.25                         | 298                         | 10                          | 0.02                         | 80                          | 1470                        | 21                          | 0.08                        | 31                          | 2                           | 68                          |
| ZZ04660            |                                   | 10                           | 2                           | 0.16                        | 10                           | 0.29                         | 1205                        | 24                          | 0.02                         | 131                         | 3400                        | 47                          | 0.07                        | 40                          | 3                           | 121                         |
| ZZ04661            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.80                         | 422                         | 1                           | <0.01                        | 52                          | 1000                        | 5                           | <0.01                       | 3                           | 3                           | 29                          |
| ZZ04662            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.44                         | 401                         | 3                           | 0.01                         | 35                          | 980                         | 11                          | 0.01                        | 3                           | 2                           | 43                          |
| ZZ04663            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.38                         | 556                         | 5                           | 0.01                         | 23                          | 910                         | 8                           | 0.01                        | 3                           | 2                           | 37                          |
| ZZ04664            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.10                         | 106                         | 13                          | <0.01                        | 62                          | 890                         | 12                          | 0.01                        | 7                           | 1                           | 45                          |
| ZZ04665            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.20                         | 291                         | 1                           | 0.01                         | 17                          | 1000                        | 9                           | 0.06                        | 3                           | 1                           | 87                          |
| ZZ04666            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.30                         | 2140                        | 5                           | 0.02                         | 29                          | 1560                        | 12                          | 0.10                        | 6                           | 3                           | 103                         |
| ZZ04667            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.24                         | 151                         | 3                           | 0.01                         | 21                          | 1150                        | 9                           | 0.02                        | 5                           | <1                          | 61                          |
| ZZ04668            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.40                         | 265                         | 1                           | 0.01                         | 41                          | 1420                        | 12                          | 0.03                        | 4                           | 2                           | 84                          |
| ZZ04669            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.60                         | 436                         | 2                           | 0.01                         | 113                         | 1060                        | 11                          | 0.03                        | 4                           | 3                           | 57                          |
| ZZ04670            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.23                         | 113                         | 2                           | <0.01                        | 30                          | 1080                        | 12                          | 0.02                        | 5                           | 2                           | 63                          |
| ZZ04671            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.34                         | 1410                        | 2                           | 0.01                         | 62                          | 1190                        | 15                          | 0.10                        | 6                           | 3                           | 91                          |
| ZZ04672            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.63                         | 680                         | 3                           | <0.01                        | 71                          | 1190                        | 12                          | <0.01                       | 5                           | 4                           | 43                          |
| ZZ04673            |                                   | <10                          | <1                          | 0.14                        | 20                           | 1.26                         | 470                         | 1                           | 0.01                         | 90                          | 940                         | 11                          | <0.01                       | 2                           | 6                           | 28                          |
| ZZ04674            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.85                         | 1470                        | 3                           | 0.01                         | 68                          | 1110                        | 11                          | <0.01                       | 2                           | 4                           | 37                          |
| ZZ04675            |                                   | 10                           | 1                           | 0.08                        | 20                           | 1.09                         | 946                         | 2                           | 0.01                         | 72                          | 1010                        | 11                          | 0.03                        | 4                           | 5                           | 36                          |
| ZZ04676            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.97                         | 822                         | 1                           | 0.01                         | 47                          | 980                         | 11                          | 0.03                        | 2                           | 5                           | 48                          |
| ZZ04677            |                                   | 10                           | 1                           | 0.11                        | 20                           | 1.07                         | 1015                        | 3                           | 0.01                         | 115                         | 930                         | 14                          | 0.02                        | 4                           | 6                           | 38                          |
| ZZ04678            |                                   | <10                          | <1                          | 0.10                        | 20                           | 1.07                         | 768                         | 1                           | 0.01                         | 84                          | 900                         | 10                          | <0.01                       | 3                           | 5                           | 32                          |
| ZZ04679            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.93                         | 385                         | <1                          | 0.01                         | 58                          | 820                         | 9                           | 0.03                        | 4                           | 4                           | 49                          |
| ZZ04680            |                                   | <10                          | 1                           | 0.10                        | 20                           | 0.98                         | 519                         | 1                           | 0.01                         | 104                         | 630                         | 16                          | 0.03                        | 6                           | 6                           | 58                          |
| ZZ04681            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.86                         | 544                         | 1                           | 0.01                         | 74                          | 770                         | 12                          | 0.06                        | 3                           | 4                           | 49                          |
| ZZ04682            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.58                         | 561                         | 4                           | 0.01                         | 44                          | 1210                        | 14                          | 0.01                        | 3                           | 3                           | 60                          |
| ZZ04683            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.75                         | 373                         | 2                           | 0.01                         | 66                          | 1070                        | 11                          | 0.01                        | <2                          | 3                           | 40                          |
| ZZ04684            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.86                         | 327                         | 1                           | 0.01                         | 54                          | 610                         | 9                           | <0.01                       | <2                          | 3                           | 21                          |
| ZZ04685            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.67                         | 211                         | <1                          | 0.01                         | 32                          | 820                         | 10                          | 0.05                        | <2                          | 3                           | 54                          |
| ZZ04686            |                                   | <10                          | 1                           | 0.06                        | 10                           | 1.17                         | 451                         | 1                           | 0.01                         | 87                          | 750                         | 11                          | 0.01                        | 2                           | 4                           | 34                          |
| ZZ04687            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.70                         | 669                         | 2                           | 0.01                         | 45                          | 700                         | 10                          | <0.01                       | 2                           | 3                           | 18                          |
| ZZ04688            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.11                         | 75                          | <1                          | 0.01                         | 6                           | 210                         | 4                           | <0.01                       | <2                          | <1                          | 6                           |
| ZZ04689            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.27                         | 392                         | 3                           | 0.01                         | 35                          | 1260                        | 12                          | <0.01                       | 5                           | 2                           | 42                          |
| ZZ04690            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.43                         | 195                         | 2                           | 0.01                         | 36                          | 920                         | 13                          | 0.01                        | 3                           | 3                           | 44                          |



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Page: 4 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 24- SEP- 2011  
 Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04651            |                                   | <20       | 0.03      | <10       | <10       | 32        | <10       | 171       |
| ZZ04652            |                                   | <20       | 0.08      | <10       | <10       | 49        | <10       | 87        |
| ZZ04653            |                                   | <20       | 0.09      | <10       | <10       | 55        | <10       | 94        |
| ZZ04654            |                                   | <20       | 0.06      | <10       | <10       | 44        | <10       | 100       |
| ZZ04655            |                                   | <20       | 0.05      | <10       | <10       | 54        | <10       | 114       |
| ZZ04656            |                                   | <20       | 0.10      | <10       | <10       | 57        | <10       | 106       |
| ZZ04657            |                                   | <20       | 0.09      | <10       | <10       | 55        | <10       | 96        |
| ZZ04658            |                                   | <20       | 0.05      | <10       | <10       | 44        | <10       | 103       |
| ZZ04659            |                                   | <20       | 0.02      | <10       | 10        | 39        | <10       | 121       |
| ZZ04660            |                                   | <20       | 0.01      | <10       | 10        | 107       | <10       | 346       |
| ZZ04661            |                                   | <20       | 0.08      | <10       | <10       | 40        | <10       | 90        |
| ZZ04662            |                                   | <20       | 0.03      | <10       | <10       | 33        | <10       | 113       |
| ZZ04663            |                                   | <20       | 0.03      | <10       | <10       | 30        | <10       | 127       |
| ZZ04664            |                                   | <20       | <0.01     | <10       | <10       | 17        | <10       | 333       |
| ZZ04665            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 97        |
| ZZ04666            |                                   | <20       | 0.01      | <10       | 30        | 39        | <10       | 139       |
| ZZ04667            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 68        |
| ZZ04668            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 121       |
| ZZ04669            |                                   | <20       | 0.03      | <10       | 10        | 42        | <10       | 400       |
| ZZ04670            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 185       |
| ZZ04671            |                                   | <20       | 0.02      | <10       | 10        | 36        | <10       | 270       |
| ZZ04672            |                                   | <20       | 0.04      | <10       | <10       | 41        | <10       | 215       |
| ZZ04673            |                                   | <20       | 0.07      | <10       | <10       | 58        | <10       | 122       |
| ZZ04674            |                                   | <20       | 0.07      | <10       | <10       | 49        | <10       | 122       |
| ZZ04675            |                                   | <20       | 0.09      | <10       | <10       | 61        | <10       | 117       |
| ZZ04676            |                                   | <20       | 0.05      | <10       | <10       | 54        | <10       | 106       |
| ZZ04677            |                                   | <20       | 0.07      | <10       | <10       | 61        | <10       | 181       |
| ZZ04678            |                                   | <20       | 0.09      | <10       | <10       | 54        | <10       | 101       |
| ZZ04679            |                                   | <20       | 0.08      | <10       | <10       | 50        | <10       | 88        |
| ZZ04680            |                                   | <20       | 0.06      | <10       | <10       | 56        | <10       | 109       |
| ZZ04681            |                                   | <20       | 0.06      | <10       | <10       | 51        | <10       | 95        |
| ZZ04682            |                                   | <20       | 0.03      | <10       | <10       | 46        | <10       | 138       |
| ZZ04683            |                                   | <20       | 0.04      | <10       | <10       | 39        | <10       | 100       |
| ZZ04684            |                                   | <20       | 0.07      | <10       | <10       | 44        | <10       | 74        |
| ZZ04685            |                                   | <20       | 0.06      | <10       | <10       | 37        | <10       | 73        |
| ZZ04686            |                                   | <20       | 0.05      | <10       | <10       | 45        | <10       | 71        |
| ZZ04687            |                                   | <20       | 0.05      | <10       | <10       | 47        | <10       | 79        |
| ZZ04688            |                                   | <20       | 0.02      | <10       | <10       | 21        | <10       | 14        |
| ZZ04689            |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       | 118       |
| ZZ04690            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 117       |



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Page: 5 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ04691            |                                   | 0.42                       | 0.007                  | 0.4                    | 1.27                 | 17                     | <10                   | 380                    | 0.5                    | <2                     | 0.55                 | 0.9                    | 12                     | 46                     | 56                     | 2.73                 |
| ZZ04692            |                                   | 0.32                       | 0.010                  | 0.4                    | 1.12                 | 22                     | <10                   | 350                    | <0.5                   | <2                     | 0.49                 | 0.8                    | 12                     | 32                     | 59                     | 2.77                 |
| ZZ04693            |                                   | 0.22                       | 0.005                  | 0.5                    | 1.18                 | 13                     | <10                   | 380                    | <0.5                   | <2                     | 0.79                 | 1.1                    | 12                     | 39                     | 35                     | 2.18                 |
| ZZ04694            |                                   | 0.24                       | 0.007                  | 1.2                    | 0.93                 | 25                     | <10                   | 210                    | <0.5                   | <2                     | 0.11                 | 0.8                    | 9                      | 30                     | 53                     | 2.98                 |
| ZZ04695            |                                   | 0.22                       | 0.043                  | 1.0                    | 0.74                 | 159                    | <10                   | 520                    | <0.5                   | <2                     | 0.97                 | 11.9                   | 26                     | 16                     | 63                     | 2.76                 |
| ZZ04696            |                                   | 0.30                       | 0.008                  | 0.6                    | 0.83                 | 66                     | <10                   | 160                    | <0.5                   | <2                     | 1.56                 | 0.8                    | 16                     | 12                     | 69                     | 3.52                 |
| ZZ04697            |                                   | 0.28                       | 0.015                  | 0.9                    | 0.75                 | 69                     | <10                   | 240                    | <0.5                   | <2                     | 0.97                 | 0.8                    | 8                      | 21                     | 50                     | 2.42                 |
| ZZ04698            |                                   | 0.36                       | 0.011                  | 0.9                    | 0.73                 | 80                     | <10                   | 240                    | <0.5                   | <2                     | 0.87                 | 1.7                    | 15                     | 21                     | 61                     | 2.73                 |
| ZZ04699            |                                   | 0.22                       | 0.013                  | 0.8                    | 1.00                 | 40                     | <10                   | 300                    | <0.5                   | <2                     | 0.80                 | 0.9                    | 7                      | 24                     | 81                     | 2.77                 |
| ZZ04700            |                                   | 0.26                       | 0.004                  | 0.3                    | 0.79                 | 21                     | <10                   | 80                     | <0.5                   | <2                     | 1.04                 | 0.5                    | 10                     | 14                     | 23                     | 2.56                 |
| ZZ04701            |                                   | 0.08                       | 0.016                  | 1.1                    | 0.59                 | 48                     | <10                   | 220                    | <0.5                   | <2                     | 1.17                 | 1.5                    | 11                     | 20                     | 81                     | 2.58                 |
| ZZ04702            |                                   | 0.18                       | 0.025                  | 0.8                    | 0.72                 | 22                     | <10                   | 240                    | <0.5                   | <2                     | 0.67                 | 0.7                    | 9                      | 32                     | 88                     | 2.53                 |
| ZZ04703            |                                   | 0.18                       | 0.016                  | 0.8                    | 1.03                 | 26                     | <10                   | 330                    | 0.5                    | <2                     | 0.64                 | 0.7                    | 11                     | 41                     | 99                     | 2.82                 |
| ZZ04704            |                                   | 0.24                       | 0.011                  | 0.5                    | 0.93                 | 27                     | <10                   | 230                    | <0.5                   | <2                     | 0.45                 | <0.5                   | 9                      | 36                     | 35                     | 2.35                 |
| ZZ04705            |                                   | 0.14                       | 0.004                  | 0.2                    | 0.50                 | 29                     | <10                   | 160                    | <0.5                   | <2                     | 0.86                 | <0.5                   | 8                      | 13                     | 22                     | 2.63                 |
| ZZ04706            |                                   | 0.10                       | 0.029                  | 0.5                    | 1.32                 | 36                     | <10                   | 260                    | 0.7                    | <2                     | 1.16                 | 0.6                    | 15                     | 47                     | 77                     | 3.20                 |
| ZZ04707            |                                   | 0.22                       | 0.014                  | 0.5                    | 1.17                 | 75                     | <10                   | 240                    | <0.5                   | <2                     | 0.64                 | 0.9                    | 12                     | 33                     | 43                     | 2.99                 |
| ZZ04708            |                                   | 0.12                       | 0.072                  | 0.5                    | 1.33                 | 773                    | <10                   | 310                    | <0.5                   | <2                     | 0.62                 | 0.7                    | 13                     | 29                     | 54                     | 3.92                 |
| ZZ04709            |                                   | 0.12                       | 0.011                  | 0.4                    | 1.46                 | 100                    | <10                   | 340                    | 0.5                    | <2                     | 0.87                 | <0.5                   | 15                     | 29                     | 66                     | 3.95                 |
| ZZ04710            |                                   | 0.06                       | 0.167                  | 0.2                    | 0.99                 | 4230                   | <10                   | 70                     | <0.5                   | <2                     | 0.25                 | 2.7                    | 23                     | 4                      | 22                     | 10.10                |
| ZZ04711            |                                   | 0.06                       | <0.001                 | <0.2                   | 0.51                 | 56                     | <10                   | 60                     | <0.5                   | <2                     | 0.64                 | <0.5                   | 2                      | 4                      | 11                     | 0.66                 |
| ZZ04712            |                                   | 0.22                       | 0.007                  | 0.7                    | 0.74                 | 22                     | <10                   | 250                    | 0.5                    | <2                     | 1.09                 | 1.0                    | 13                     | 16                     | 68                     | 3.36                 |
| ZZ04713            |                                   | 0.10                       | <0.001                 | 0.2                    | 2.09                 | 7                      | <10                   | 80                     | <0.5                   | <2                     | 0.32                 | <0.5                   | 15                     | 29                     | 35                     | 3.99                 |
| ZZ04714            |                                   | 0.16                       | 0.002                  | 0.3                    | 1.63                 | 17                     | <10                   | 170                    | 0.5                    | <2                     | 2.10                 | 0.6                    | 15                     | 28                     | 48                     | 3.71                 |
| ZZ04715            |                                   | 0.14                       | 0.002                  | 0.3                    | 1.28                 | 17                     | <10                   | 180                    | <0.5                   | <2                     | 1.09                 | <0.5                   | 17                     | 22                     | 50                     | 3.57                 |
| ZZ04716            |                                   | 0.22                       | <0.001                 | <0.2                   | 0.81                 | 19                     | <10                   | 50                     | <0.5                   | <2                     | 8.4                  | <0.5                   | 14                     | 11                     | 32                     | 3.18                 |
| ZZ04717            |                                   | 0.12                       | 0.008                  | 0.6                    | 0.67                 | 8                      | <10                   | 160                    | <0.5                   | <2                     | 1.09                 | 1.2                    | 3                      | 21                     | 55                     | 0.94                 |
| ZZ04718            |                                   | 0.06                       | <0.001                 | <0.2                   | 2.58                 | 58                     | <10                   | 140                    | <0.5                   | <2                     | 0.47                 | <0.5                   | 24                     | 80                     | 79                     | 5.89                 |
| ZZ04719            |                                   | 0.12                       | <0.001                 | 0.5                    | 0.81                 | 28                     | <10                   | 110                    | <0.5                   | <2                     | 0.23                 | 0.5                    | 6                      | 19                     | 73                     | 2.84                 |
| ZZ04720            |                                   | 0.12                       | <0.001                 | 0.2                    | 0.76                 | 16                     | <10                   | 210                    | <0.5                   | <2                     | 0.08                 | 0.8                    | 3                      | 17                     | 16                     | 1.45                 |
| ZZ04721            |                                   | 0.08                       | <0.001                 | 0.2                    | 0.95                 | 23                     | <10                   | 170                    | <0.5                   | <2                     | 0.12                 | 0.6                    | 6                      | 25                     | 34                     | 2.55                 |
| ZZ04722            |                                   | 0.18                       | <0.001                 | 0.3                    | 1.47                 | 10                     | <10                   | 190                    | <0.5                   | <2                     | 0.30                 | 0.5                    | 8                      | 61                     | 11                     | 2.76                 |
| ZZ04723            |                                   | 0.22                       | 0.004                  | 0.3                    | 1.33                 | 14                     | <10                   | 330                    | <0.5                   | <2                     | 0.62                 | 0.8                    | 14                     | 32                     | 56                     | 2.91                 |
| ZZ04724            |                                   | 0.10                       | 0.001                  | <0.2                   | 1.07                 | 17                     | <10                   | 280                    | <0.5                   | <2                     | 0.13                 | <0.5                   | 7                      | 20                     | 31                     | 2.15                 |
| ZZ04725            |                                   | 0.24                       | 0.009                  | 0.3                    | 1.02                 | 14                     | <10                   | 380                    | <0.5                   | <2                     | 0.43                 | 1.1                    | 11                     | 26                     | 58                     | 2.27                 |
| ZZ04726            |                                   | 0.06                       | <0.001                 | 0.4                    | 0.51                 | 15                     | <10                   | 170                    | <0.5                   | <2                     | 0.16                 | <0.5                   | 5                      | 13                     | 108                    | 1.77                 |
| ZZ04727            |                                   | 0.10                       | <0.001                 | <0.2                   | 1.37                 | 8                      | <10                   | 350                    | <0.5                   | <2                     | 0.26                 | <0.5                   | 11                     | 89                     | 13                     | 2.47                 |
| ZZ04728            |                                   | 0.14                       | <0.001                 | 0.2                    | 1.47                 | 7                      | <10                   | 440                    | 0.5                    | <2                     | 0.76                 | 0.5                    | 13                     | 58                     | 35                     | 2.66                 |
| ZZ04729            |                                   | 0.24                       | <0.001                 | 0.3                    | 0.95                 | 19                     | <10                   | 370                    | <0.5                   | <2                     | 0.81                 | 0.9                    | 10                     | 27                     | 39                     | 2.56                 |
| ZZ04730            |                                   | 0.20                       | 0.002                  | 0.2                    | 1.42                 | 8                      | <10                   | 460                    | <0.5                   | <2                     | 0.73                 | 0.7                    | 15                     | 80                     | 35                     | 2.58                 |



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Page: 5 - B  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04691            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.66                         | 483                         | 1                           | 0.01                         | 53                          | 870                         | 15                          | 0.01                        | 2                           | 4                           | 44                          |
| ZZ04692            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.53                         | 351                         | 2                           | 0.01                         | 41                          | 910                         | 14                          | 0.01                        | 3                           | 3                           | 47                          |
| ZZ04693            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.49                         | 1320                        | 2                           | 0.02                         | 45                          | 1090                        | 11                          | 0.04                        | <2                          | 2                           | 52                          |
| ZZ04694            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.20                         | 219                         | 4                           | 0.01                         | 33                          | 740                         | 17                          | 0.01                        | 2                           | 1                           | 26                          |
| ZZ04695            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.29                         | 7730                        | 17                          | 0.02                         | 44                          | 1800                        | 15                          | 0.06                        | 4                           | 3                           | 68                          |
| ZZ04696            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.33                         | 408                         | 3                           | 0.01                         | 53                          | 1190                        | 14                          | 0.01                        | 4                           | 4                           | 56                          |
| ZZ04697            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.33                         | 258                         | 3                           | 0.01                         | 31                          | 1660                        | 22                          | 0.04                        | 2                           | 2                           | 84                          |
| ZZ04698            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.27                         | 793                         | 6                           | 0.01                         | 31                          | 2130                        | 17                          | 0.03                        | 5                           | 2                           | 79                          |
| ZZ04699            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.44                         | 153                         | 2                           | 0.01                         | 42                          | 1480                        | 22                          | 0.03                        | 5                           | 3                           | 72                          |
| ZZ04700            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.40                         | 281                         | <1                          | 0.01                         | 24                          | 980                         | 14                          | 0.05                        | <2                          | 2                           | 38                          |
| ZZ04701            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.35                         | 585                         | 4                           | 0.01                         | 37                          | 1450                        | 23                          | 0.02                        | 8                           | 3                           | 70                          |
| ZZ04702            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.39                         | 305                         | 3                           | 0.01                         | 43                          | 1720                        | 12                          | 0.01                        | 4                           | 3                           | 60                          |
| ZZ04703            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.51                         | 501                         | 3                           | 0.01                         | 58                          | 1410                        | 15                          | 0.02                        | 4                           | 4                           | 61                          |
| ZZ04704            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.48                         | 266                         | 2                           | 0.01                         | 39                          | 1190                        | 13                          | 0.01                        | 4                           | 3                           | 40                          |
| ZZ04705            |                                   | <10                          | 1                           | 0.03                        | 10                           | 0.15                         | 383                         | 1                           | 0.01                         | 22                          | 850                         | 9                           | 0.04                        | 3                           | 2                           | 51                          |
| ZZ04706            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.65                         | 735                         | 2                           | 0.01                         | 72                          | 970                         | 19                          | 0.03                        | 2                           | 5                           | 63                          |
| ZZ04707            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.56                         | 487                         | 2                           | 0.01                         | 57                          | 910                         | 17                          | 0.02                        | 3                           | 3                           | 39                          |
| ZZ04708            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.59                         | 478                         | 2                           | 0.01                         | 37                          | 1190                        | 47                          | 0.02                        | 6                           | 8                           | 54                          |
| ZZ04709            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.65                         | 698                         | 1                           | 0.02                         | 39                          | 1190                        | 18                          | 0.03                        | <2                          | 10                          | 74                          |
| ZZ04710            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.38                         | 1420                        | 1                           | 0.01                         | 2                           | 2700                        | 10                          | 0.03                        | 9                           | 12                          | 27                          |
| ZZ04711            |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.12                         | 103                         | <1                          | 0.04                         | 7                           | 350                         | <2                          | 0.03                        | <2                          | 1                           | 53                          |
| ZZ04712            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.27                         | 469                         | 4                           | 0.01                         | 39                          | 970                         | 15                          | 0.03                        | 3                           | 2                           | 41                          |
| ZZ04713            |                                   | <10                          | <1                          | 0.03                        | 30                           | 1.26                         | 399                         | <1                          | <0.01                        | 39                          | 490                         | 11                          | <0.01                       | 2                           | 4                           | 13                          |
| ZZ04714            |                                   | <10                          | 1                           | 0.04                        | 20                           | 0.86                         | 504                         | 1                           | 0.01                         | 42                          | 640                         | 15                          | 0.01                        | <2                          | 3                           | 46                          |
| ZZ04715            |                                   | <10                          | 1                           | 0.04                        | 20                           | 0.63                         | 476                         | 1                           | 0.01                         | 42                          | 790                         | 14                          | 0.02                        | 3                           | 4                           | 34                          |
| ZZ04716            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.47                         | 329                         | <1                          | 0.01                         | 33                          | 690                         | 7                           | 0.01                        | 3                           | 3                           | 127                         |
| ZZ04717            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.27                         | 80                          | <1                          | 0.01                         | 24                          | 1250                        | 23                          | 0.09                        | 5                           | 3                           | 61                          |
| ZZ04718            |                                   | 10                           | <1                          | 0.04                        | 10                           | 1.35                         | 863                         | 2                           | 0.01                         | 50                          | 2390                        | 9                           | 0.02                        | 3                           | 10                          | 52                          |
| ZZ04719            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.17                         | 187                         | 5                           | 0.01                         | 36                          | 2870                        | 17                          | 0.02                        | 4                           | 1                           | 27                          |
| ZZ04720            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.10                         | 124                         | 4                           | 0.01                         | 12                          | 940                         | 13                          | 0.02                        | 4                           | 1                           | 34                          |
| ZZ04721            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.20                         | 253                         | 8                           | 0.01                         | 28                          | 920                         | 13                          | 0.02                        | 5                           | 1                           | 26                          |
| ZZ04722            |                                   | 10                           | 1                           | 0.06                        | 10                           | 0.78                         | 235                         | 2                           | 0.01                         | 44                          | 850                         | 13                          | 0.01                        | <2                          | 3                           | 22                          |
| ZZ04723            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.74                         | 570                         | 2                           | 0.01                         | 56                          | 920                         | 14                          | 0.02                        | 3                           | 3                           | 48                          |
| ZZ04724            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.28                         | 250                         | 3                           | 0.01                         | 25                          | 350                         | 10                          | 0.02                        | 2                           | 1                           | 26                          |
| ZZ04725            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.43                         | 468                         | 2                           | 0.01                         | 41                          | 940                         | 10                          | 0.01                        | 3                           | 3                           | 49                          |
| ZZ04726            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.08                         | 335                         | 6                           | 0.01                         | 29                          | 1400                        | 11                          | 0.02                        | 4                           | <1                          | 32                          |
| ZZ04727            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.98                         | 310                         | 1                           | 0.01                         | 72                          | 670                         | 10                          | 0.01                        | <2                          | 2                           | 15                          |
| ZZ04728            |                                   | 10                           | 1                           | 0.07                        | 20                           | 0.91                         | 435                         | 1                           | 0.02                         | 64                          | 770                         | 13                          | 0.03                        | 2                           | 4                           | 42                          |
| ZZ04729            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.44                         | 435                         | 1                           | 0.01                         | 41                          | 530                         | 10                          | 0.04                        | 2                           | 3                           | 44                          |
| ZZ04730            |                                   | 10                           | <1                          | 0.08                        | 20                           | 0.95                         | 562                         | 1                           | 0.01                         | 88                          | 820                         | 9                           | 0.03                        | <2                          | 5                           | 39                          |



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Page: 5 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 24- SEP- 2011  
 Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04691            |                                   | <20       | 0.03      | <10       | <10       | 42        | <10       | 107       |
| ZZ04692            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 121       |
| ZZ04693            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 89        |
| ZZ04694            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 108       |
| ZZ04695            |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       | 343       |
| ZZ04696            |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       | 135       |
| ZZ04697            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 123       |
| ZZ04698            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 135       |
| ZZ04699            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 115       |
| ZZ04700            |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 143       |
| ZZ04701            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 169       |
| ZZ04702            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 121       |
| ZZ04703            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 132       |
| ZZ04704            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 105       |
| ZZ04705            |                                   | <20       | 0.01      | <10       | <10       | 12        | <10       | 98        |
| ZZ04706            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 138       |
| ZZ04707            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 158       |
| ZZ04708            |                                   | <20       | 0.02      | <10       | <10       | 55        | <10       | 174       |
| ZZ04709            |                                   | <20       | 0.02      | <10       | <10       | 64        | <10       | 120       |
| ZZ04710            |                                   | <20       | 0.01      | <10       | <10       | 69        | <10       | 296       |
| ZZ04711            |                                   | <20       | 0.02      | <10       | <10       | 8         | <10       | 20        |
| ZZ04712            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 134       |
| ZZ04713            |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 93        |
| ZZ04714            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 132       |
| ZZ04715            |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       | 116       |
| ZZ04716            |                                   | 20        | <0.01     | <10       | <10       | 8         | <10       | 81        |
| ZZ04717            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 120       |
| ZZ04718            |                                   | <20       | 0.01      | <10       | <10       | 113       | <10       | 131       |
| ZZ04719            |                                   | <20       | 0.03      | <10       | <10       | 48        | <10       | 103       |
| ZZ04720            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 56        |
| ZZ04721            |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 90        |
| ZZ04722            |                                   | <20       | 0.05      | <10       | <10       | 48        | <10       | 75        |
| ZZ04723            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 130       |
| ZZ04724            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 69        |
| ZZ04725            |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 117       |
| ZZ04726            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 119       |
| ZZ04727            |                                   | <20       | 0.04      | <10       | <10       | 46        | <10       | 60        |
| ZZ04728            |                                   | <20       | 0.07      | <10       | <10       | 47        | <10       | 89        |
| ZZ04729            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 66        |
| ZZ04730            |                                   | <20       | 0.05      | <10       | <10       | 46        | <10       | 90        |



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Page: 6 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ04731            |                                   | 0.20                       | <0.001                 | <0.2                   | 1.31                 | 9                      | <10                   | 380                    | <0.5                   | <2                     | 0.65                 | <0.5                   | 12                     | 62                     | 31                     | 2.34                 |
| ZZ04732            |                                   | 0.18                       | <0.001                 | 0.2                    | 1.40                 | 11                     | <10                   | 460                    | 0.5                    | <2                     | 0.53                 | <0.5                   | 13                     | 65                     | 43                     | 2.82                 |
| ZZ04733            |                                   | 0.16                       | <0.001                 | 0.2                    | 1.21                 | 6                      | <10                   | 350                    | <0.5                   | <2                     | 0.34                 | <0.5                   | 9                      | 53                     | 22                     | 2.07                 |
| ZZ04734            |                                   | 0.12                       | 0.002                  | <0.2                   | 0.97                 | 14                     | <10                   | 220                    | <0.5                   | <2                     | 0.36                 | <0.5                   | 9                      | 38                     | 31                     | 2.18                 |
| ZZ04735            |                                   | 0.16                       | <0.001                 | 0.2                    | 1.20                 | 8                      | <10                   | 150                    | <0.5                   | <2                     | 0.10                 | <0.5                   | 6                      | 33                     | 9                      | 2.12                 |
| ZZ04736            |                                   | 0.12                       | 0.002                  | 0.4                    | 1.06                 | 18                     | <10                   | 390                    | <0.5                   | <2                     | 0.31                 | <0.5                   | 11                     | 55                     | 59                     | 2.62                 |
| ZZ04737            |                                   | 0.20                       | 0.010                  | 0.3                    | 1.54                 | 12                     | <10                   | 400                    | 0.5                    | <2                     | 0.46                 | 0.7                    | 14                     | 76                     | 29                     | 2.87                 |
| ZZ04738            |                                   | 0.08                       | 0.008                  | 0.6                    | 0.98                 | 26                     | <10                   | 460                    | <0.5                   | <2                     | 1.07                 | 2.0                    | 9                      | 38                     | 61                     | 2.17                 |
| ZZ04739            |                                   | 0.08                       | 0.005                  | 0.4                    | 1.33                 | 14                     | <10                   | 630                    | <0.5                   | 2                      | 0.43                 | <0.5                   | 13                     | 65                     | 35                     | 2.64                 |
| ZZ04740            |                                   | 0.12                       | 0.011                  | 0.3                    | 0.84                 | 13                     | <10                   | 580                    | <0.5                   | <2                     | 1.14                 | 3.7                    | 6                      | 38                     | 60                     | 2.16                 |
| ZZ04741            |                                   | 0.06                       | 0.001                  | 1.0                    | 0.65                 | 13                     | <10                   | 470                    | <0.5                   | <2                     | 0.69                 | 3.0                    | 17                     | 27                     | 32                     | 1.52                 |
| ZZ04742            |                                   | 0.12                       | 0.009                  | 1.0                    | 0.57                 | 20                     | <10                   | 500                    | <0.5                   | <2                     | 0.68                 | 8.7                    | 8                      | 18                     | 76                     | 1.56                 |
| ZZ04743            |                                   | 0.06                       | 0.022                  | 1.3                    | 0.89                 | 48                     | <10                   | 640                    | 0.6                    | <2                     | 0.36                 | 1.6                    | 9                      | 28                     | 164                    | 2.98                 |
| ZZ04744            |                                   | 0.08                       | 0.015                  | 1.3                    | 0.91                 | 36                     | <10                   | 630                    | <0.5                   | <2                     | 1.40                 | 0.7                    | 9                      | 23                     | 55                     | 2.24                 |
| ZZ04745            |                                   | 0.30                       | 0.010                  | 1.0                    | 1.21                 | 29                     | <10                   | 390                    | <0.5                   | <2                     | 0.62                 | 1.8                    | 15                     | 36                     | 80                     | 3.06                 |
| ZZ04746            |                                   | 0.18                       | 0.005                  | 0.3                    | 1.50                 | 13                     | <10                   | 500                    | 0.5                    | <2                     | 0.93                 | 0.9                    | 14                     | 73                     | 44                     | 2.81                 |
| ZZ04747            |                                   | 0.28                       | 0.017                  | 0.5                    | 0.94                 | 25                     | <10                   | 330                    | <0.5                   | <2                     | 0.55                 | 0.7                    | 13                     | 36                     | 99                     | 2.70                 |
| ZZ04748            |                                   | 0.06                       | <0.001                 | 0.3                    | 1.24                 | 24                     | <10                   | 640                    | <0.5                   | <2                     | 0.73                 | 0.8                    | 31                     | 61                     | 25                     | 3.78                 |
| ZZ04749            |                                   | 0.14                       | 0.004                  | 0.3                    | 1.23                 | 11                     | <10                   | 670                    | <0.5                   | <2                     | 0.64                 | 1.3                    | 8                      | 62                     | 54                     | 1.92                 |
| ZZ04750            |                                   | 0.12                       | 0.007                  | 0.5                    | 1.36                 | 21                     | <10                   | 660                    | <0.5                   | <2                     | 1.15                 | 1.4                    | 15                     | 53                     | 50                     | 2.97                 |
| ZZ04751            |                                   | 0.28                       | 0.008                  | 0.5                    | 0.96                 | 27                     | <10                   | 270                    | <0.5                   | <2                     | 0.36                 | 1.2                    | 13                     | 41                     | 69                     | 3.42                 |
| ZZ04752            |                                   | 0.22                       | 0.009                  | 0.4                    | 1.00                 | 27                     | <10                   | 250                    | <0.5                   | <2                     | 0.58                 | 0.5                    | 8                      | 34                     | 50                     | 2.36                 |
| ZZ04753            |                                   | 0.32                       | 0.007                  | 0.3                    | 0.69                 | 5                      | <10                   | 200                    | <0.5                   | <2                     | 0.78                 | 0.5                    | 4                      | 21                     | 35                     | 0.98                 |
| ZZ04754            |                                   | 0.24                       | 0.017                  | 0.5                    | 0.43                 | 20                     | <10                   | 220                    | <0.5                   | <2                     | 1.02                 | 1.4                    | 11                     | 9                      | 53                     | 2.12                 |
| ZZ04755            |                                   | 0.24                       | 0.003                  | 0.3                    | 0.40                 | 16                     | <10                   | 240                    | <0.5                   | <2                     | 0.61                 | 1.3                    | 11                     | 4                      | 25                     | 2.44                 |
| ZZ04756            |                                   | 0.38                       | 0.017                  | 1.3                    | 0.52                 | 31                     | <10                   | 300                    | <0.5                   | <2                     | 0.27                 | 1.9                    | 8                      | 14                     | 100                    | 2.09                 |
| ZZ04757            |                                   | 0.26                       | 0.013                  | <0.2                   | 0.54                 | 12                     | <10                   | 100                    | <0.5                   | <2                     | 0.36                 | 1.3                    | 3                      | 18                     | 16                     | 1.11                 |
| ZZ04758            |                                   | 0.24                       | 0.003                  | <0.2                   | 1.14                 | 24                     | <10                   | 150                    | <0.5                   | <2                     | 0.37                 | 1.5                    | 11                     | 39                     | 24                     | 2.39                 |
| ZZ04759            |                                   | 0.24                       | 0.003                  | 0.2                    | 1.35                 | 12                     | <10                   | 130                    | <0.5                   | <2                     | 0.12                 | <0.5                   | 7                      | 44                     | 10                     | 3.24                 |
| ZZ04760            |                                   | 0.26                       | 0.058                  | 2.9                    | 0.19                 | 16                     | <10                   | 260                    | <0.5                   | <2                     | 0.20                 | <0.5                   | 1                      | 9                      | 14                     | 1.45                 |
| ZZ04761            |                                   | 0.24                       | 0.001                  | <0.2                   | 1.52                 | 12                     | <10                   | 160                    | <0.5                   | <2                     | 0.10                 | <0.5                   | 7                      | 44                     | 21                     | 3.17                 |
| ZZ04762            |                                   | 0.30                       | 0.003                  | 0.4                    | 0.40                 | 10                     | <10                   | 160                    | <0.5                   | <2                     | 0.22                 | 1.1                    | 3                      | 17                     | 18                     | 1.01                 |
| ZZ04763            |                                   | 0.18                       | <0.001                 | <0.2                   | 0.26                 | 3                      | <10                   | 70                     | <0.5                   | <2                     | 0.02                 | 2.0                    | 1                      | 3                      | 5                      | 1.61                 |
| ZZ04764            |                                   | 0.32                       | 0.002                  | 0.3                    | 0.66                 | 4                      | <10                   | 650                    | <0.5                   | <2                     | 0.04                 | <0.5                   | 2                      | 14                     | 7                      | 0.79                 |
| ZZ04765            |                                   | 0.24                       | <0.001                 | 0.2                    | 1.77                 | 12                     | <10                   | 190                    | <0.5                   | <2                     | 0.08                 | 0.6                    | 7                      | 64                     | 15                     | 3.58                 |
| ZZ04766            |                                   | 0.30                       | 0.004                  | 0.9                    | 1.75                 | 18                     | <10                   | 280                    | <0.5                   | <2                     | 0.12                 | 0.7                    | 12                     | 52                     | 20                     | 2.61                 |
| ZZ04767            |                                   | 0.44                       | 0.008                  | 0.8                    | 1.51                 | 30                     | <10                   | 210                    | <0.5                   | <2                     | 0.10                 | 0.6                    | 9                      | 36                     | 44                     | 2.97                 |
| ZZ04768            |                                   | 0.40                       | 0.088                  | 1.2                    | 0.80                 | 251                    | <10                   | 500                    | 0.8                    | <2                     | 0.03                 | 1.7                    | 5                      | 76                     | 368                    | 4.19                 |
| ZZ04769            |                                   | 0.26                       | 0.018                  | 0.5                    | 0.52                 | 24                     | <10                   | 170                    | <0.5                   | <2                     | 0.17                 | 0.9                    | 2                      | 14                     | 47                     | 1.21                 |
| ZZ04770            |                                   | 0.22                       | 0.003                  | 0.5                    | 1.06                 | 13                     | <10                   | 280                    | <0.5                   | <2                     | 0.78                 | 0.7                    | 10                     | 50                     | 33                     | 1.93                 |



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Page: 6 - B  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04731            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.80                         | 641                         | <1                          | 0.02                         | 71                          | 750                         | 8                           | 0.03                        | <2                          | 4                           | 32                          |
| ZZ04732            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.91                         | 583                         | 1                           | 0.01                         | 87                          | 830                         | 11                          | 0.01                        | <2                          | 5                           | 30                          |
| ZZ04733            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.61                         | 424                         | <1                          | 0.02                         | 51                          | 590                         | 6                           | 0.02                        | <2                          | 3                           | 21                          |
| ZZ04734            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.55                         | 317                         | 2                           | 0.01                         | 35                          | 940                         | 9                           | 0.01                        | 3                           | 2                           | 38                          |
| ZZ04735            |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.38                         | 241                         | 1                           | <0.01                        | 17                          | 260                         | 10                          | <0.01                       | 3                           | 2                           | 7                           |
| ZZ04736            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.69                         | 374                         | 3                           | 0.01                         | 78                          | 870                         | 12                          | 0.01                        | 5                           | 4                           | 35                          |
| ZZ04737            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.94                         | 518                         | 1                           | <0.01                        | 63                          | 640                         | 13                          | 0.01                        | 4                           | 4                           | 25                          |
| ZZ04738            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.55                         | 1920                        | 4                           | 0.01                         | 61                          | 960                         | 12                          | 0.07                        | 7                           | 2                           | 79                          |
| ZZ04739            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.76                         | 694                         | 8                           | 0.01                         | 61                          | 970                         | 14                          | 0.03                        | 10                          | 4                           | 26                          |
| ZZ04740            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.36                         | 374                         | 1                           | 0.01                         | 55                          | 990                         | 9                           | 0.27                        | 5                           | 2                           | 75                          |
| ZZ04741            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.25                         | 3530                        | 8                           | 0.02                         | 44                          | 1060                        | 5                           | 0.07                        | 4                           | 1                           | 46                          |
| ZZ04742            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.18                         | 622                         | 8                           | 0.01                         | 95                          | 1080                        | 11                          | 0.09                        | 6                           | 1                           | 73                          |
| ZZ04743            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.31                         | 471                         | 5                           | 0.01                         | 100                         | 2000                        | 24                          | 0.06                        | 20                          | 3                           | 114                         |
| ZZ04744            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.31                         | 682                         | 5                           | 0.01                         | 50                          | 1710                        | 16                          | 0.09                        | 8                           | 2                           | 117                         |
| ZZ04745            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.73                         | 472                         | 6                           | <0.01                        | 110                         | 1500                        | 18                          | 0.01                        | 8                           | 3                           | 78                          |
| ZZ04746            |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.90                         | 709                         | 1                           | 0.01                         | 84                          | 970                         | 14                          | 0.05                        | 2                           | 5                           | 50                          |
| ZZ04747            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.50                         | 238                         | 4                           | <0.01                        | 61                          | 1770                        | 14                          | 0.01                        | 8                           | 3                           | 48                          |
| ZZ04748            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.82                         | 2250                        | 7                           | 0.01                         | 48                          | 1010                        | 10                          | 0.07                        | 3                           | 3                           | 39                          |
| ZZ04749            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.73                         | 373                         | <1                          | 0.01                         | 55                          | 990                         | 14                          | 0.04                        | 5                           | 4                           | 47                          |
| ZZ04750            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.72                         | 667                         | <1                          | 0.01                         | 44                          | 870                         | 14                          | 0.08                        | 4                           | 4                           | 67                          |
| ZZ04751            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.43                         | 620                         | 6                           | <0.01                        | 70                          | 1150                        | 14                          | 0.01                        | 6                           | 3                           | 43                          |
| ZZ04752            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.45                         | 288                         | 3                           | <0.01                        | 35                          | 1380                        | 14                          | 0.02                        | 5                           | 3                           | 45                          |
| ZZ04753            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.32                         | 217                         | 1                           | 0.01                         | 19                          | 1010                        | 10                          | 0.05                        | 3                           | 2                           | 64                          |
| ZZ04754            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.12                         | 739                         | 3                           | 0.01                         | 36                          | 910                         | 11                          | 0.05                        | 3                           | 2                           | 66                          |
| ZZ04755            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.10                         | 988                         | 6                           | 0.01                         | 16                          | 860                         | 7                           | 0.03                        | 3                           | 1                           | 46                          |
| ZZ04756            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.11                         | 272                         | 6                           | <0.01                        | 41                          | 1150                        | 14                          | 0.01                        | 10                          | 3                           | 96                          |
| ZZ04757            |                                   | <10                          | <1                          | 0.10                        | 10                           | 0.27                         | 145                         | 2                           | 0.02                         | 15                          | 420                         | 3                           | 0.03                        | 6                           | 1                           | 34                          |
| ZZ04758            |                                   | 10                           | <1                          | 0.08                        | 10                           | 0.71                         | 528                         | 4                           | 0.01                         | 29                          | 1120                        | 10                          | 0.01                        | 8                           | 3                           | 30                          |
| ZZ04759            |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.54                         | 394                         | 2                           | <0.01                        | 23                          | 660                         | 9                           | <0.01                       | <2                          | 2                           | 10                          |
| ZZ04760            |                                   | <10                          | <1                          | 0.17                        | 10                           | 0.07                         | 68                          | 2                           | <0.01                        | 9                           | 470                         | 24                          | 0.36                        | 8                           | 1                           | 57                          |
| ZZ04761            |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.52                         | 295                         | 1                           | <0.01                        | 31                          | 380                         | 10                          | <0.01                       | <2                          | 3                           | 9                           |
| ZZ04762            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.16                         | 106                         | 1                           | 0.01                         | 11                          | 540                         | 6                           | 0.03                        | <2                          | <1                          | 44                          |
| ZZ04763            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.02                         | 165                         | 1                           | <0.01                        | 2                           | 470                         | 3                           | <0.01                       | <2                          | 1                           | 6                           |
| ZZ04764            |                                   | 10                           | <1                          | 0.03                        | 10                           | 0.08                         | 63                          | <1                          | 0.01                         | 4                           | 210                         | 6                           | 0.02                        | <2                          | 1                           | 10                          |
| ZZ04765            |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.62                         | 325                         | 1                           | <0.01                        | 30                          | 650                         | 10                          | <0.01                       | <2                          | 3                           | 9                           |
| ZZ04766            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.54                         | 294                         | 3                           | <0.01                        | 48                          | 370                         | 9                           | <0.01                       | <2                          | 3                           | 14                          |
| ZZ04767            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.39                         | 321                         | 5                           | 0.01                         | 31                          | 820                         | 13                          | 0.03                        | 5                           | 3                           | 31                          |
| ZZ04768            |                                   | 10                           | <1                          | 0.17                        | 10                           | 0.04                         | 191                         | 9                           | 0.01                         | 43                          | 1920                        | 33                          | 0.32                        | 76                          | 3                           | 525                         |
| ZZ04769            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.08                         | 71                          | 4                           | <0.01                        | 13                          | 1300                        | 14                          | 0.03                        | 3                           | 1                           | 80                          |
| ZZ04770            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.56                         | 470                         | 2                           | 0.02                         | 44                          | 720                         | 8                           | 0.03                        | 3                           | 2                           | 70                          |



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Page: 6 - C  
Total # Pages: 7 (A - C)  
Finalized Date: 24- SEP- 2011  
Account: F

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**CERTIFICATE OF ANALYSIS WH11151920**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04731            |                                   | <20       | 0.04      | <10       | <10       | 41        | <10       | 76        |
| ZZ04732            |                                   | <20       | 0.07      | <10       | <10       | 47        | <10       | 81        |
| ZZ04733            |                                   | <20       | 0.05      | <10       | <10       | 36        | <10       | 58        |
| ZZ04734            |                                   | <20       | 0.05      | <10       | <10       | 36        | <10       | 99        |
| ZZ04735            |                                   | <20       | 0.09      | <10       | <10       | 54        | <10       | 43        |
| ZZ04736            |                                   | <20       | 0.04      | <10       | <10       | 41        | <10       | 121       |
| ZZ04737            |                                   | <20       | 0.06      | <10       | <10       | 52        | <10       | 93        |
| ZZ04738            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 136       |
| ZZ04739            |                                   | <20       | 0.03      | <10       | <10       | 50        | <10       | 102       |
| ZZ04740            |                                   | <20       | 0.02      | <10       | 20        | 31        | <10       | 79        |
| ZZ04741            |                                   | <20       | 0.02      | <10       | <10       | 21        | <10       | 99        |
| ZZ04742            |                                   | <20       | 0.01      | <10       | 20        | 24        | <10       | 389       |
| ZZ04743            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 430       |
| ZZ04744            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 156       |
| ZZ04745            |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 377       |
| ZZ04746            |                                   | <20       | 0.04      | <10       | <10       | 49        | <10       | 128       |
| ZZ04747            |                                   | <20       | 0.03      | <10       | <10       | 33        | <10       | 150       |
| ZZ04748            |                                   | <20       | 0.05      | <10       | <10       | 49        | <10       | 110       |
| ZZ04749            |                                   | <20       | 0.05      | <10       | <10       | 43        | <10       | 128       |
| ZZ04750            |                                   | <20       | 0.06      | <10       | <10       | 46        | <10       | 107       |
| ZZ04751            |                                   | <20       | 0.03      | <10       | <10       | 37        | <10       | 246       |
| ZZ04752            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 127       |
| ZZ04753            |                                   | <20       | 0.02      | <10       | <10       | 20        | <10       | 63        |
| ZZ04754            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 161       |
| ZZ04755            |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 107       |
| ZZ04756            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 215       |
| ZZ04757            |                                   | <20       | 0.06      | <10       | <10       | 19        | <10       | 68        |
| ZZ04758            |                                   | <20       | 0.10      | <10       | <10       | 47        | <10       | 178       |
| ZZ04759            |                                   | <20       | 0.10      | <10       | <10       | 68        | <10       | 69        |
| ZZ04760            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 40        |
| ZZ04761            |                                   | <20       | 0.11      | <10       | <10       | 69        | <10       | 51        |
| ZZ04762            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 35        |
| ZZ04763            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 75        |
| ZZ04764            |                                   | <20       | 0.04      | <10       | <10       | 27        | <10       | 23        |
| ZZ04765            |                                   | <20       | 0.09      | <10       | <10       | 61        | <10       | 60        |
| ZZ04766            |                                   | <20       | 0.06      | <10       | <10       | 52        | <10       | 67        |
| ZZ04767            |                                   | <20       | 0.05      | <10       | <10       | 55        | <10       | 112       |
| ZZ04768            |                                   | <20       | 0.01      | <10       | <10       | 165       | <10       | 190       |
| ZZ04769            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 68        |
| ZZ04770            |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 125       |



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**Finalized Date: 24- SEP- 2011**  
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| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| ZZ04771            |                                   | <20       | 0.06      | <10       | <10       | 50        | <10       | 129       |
| ZZ04772            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 68        |
| ZZ04773            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 627       |
| ZZ04774            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 183       |
| ZZ04775            |                                   | <20       | 0.03      | <10       | <10       | 34        | <10       | 128       |
| ZZ04776            |                                   | <20       | 0.04      | <10       | <10       | 45        | <10       | 67        |
| ZZ04777            |                                   | <20       | 0.03      | <10       | <10       | 64        | <10       | 113       |
| ZZ04778            |                                   | <20       | 0.04      | <10       | <10       | 34        | <10       | 108       |
| ZZ04779            |                                   | <20       | 0.04      | <10       | <10       | 34        | <10       | 242       |
| ZZ04780            |                                   | <20       | 0.04      | <10       | <10       | 39        | <10       | 394       |
|                    |                                   |           |           |           |           |           |           |           |



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Page: 1  
Finalized Date: 28- SEP- 2011  
Account: F

**CERTIFICATE WH11151921**

Project: WLV- Finlayson String  
P.O. No.:  
This report is for 210 Soil samples submitted to our lab in Whitehorse, YT, Canada on 9- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
ATTN: JOAN MARIACHER  
1016- 510 W HASTINGS ST  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| ZZ04781            |                                   | 0.22                              | 0.002                           | 0.4                           | 0.69                         | 15                          | <10                         | 270                          | <0.5                          | <2                          | 1.44                         | 11.9                          | 8                           | 20                          | 44                          | 1.83                         |
| ZZ04782            |                                   | 0.16                              | 0.001                           | 1.3                           | 0.16                         | 2                           | <10                         | 50                           | <0.5                          | <2                          | 0.28                         | 4.2                           | 2                           | 3                           | 12                          | 0.23                         |
| ZZ04783            |                                   | 0.24                              | 0.001                           | 6.2                           | 1.09                         | 31                          | <10                         | 100                          | <0.5                          | 2                           | 0.14                         | 1.0                           | 7                           | 32                          | 18                          | 2.47                         |
| ZZ04784            |                                   | 0.28                              | 0.001                           | 0.3                           | 0.53                         | 9                           | <10                         | 370                          | <0.5                          | <2                          | 0.73                         | 1.2                           | 9                           | 17                          | 18                          | 1.91                         |
| ZZ04785            |                                   | 0.40                              | 0.001                           | 0.2                           | 1.32                         | 9                           | <10                         | 640                          | <0.5                          | <2                          | 1.03                         | 0.7                           | 15                          | 47                          | 23                          | 2.86                         |
| ZZ04786            |                                   | 0.24                              | 0.007                           | 0.2                           | 1.85                         | 5                           | <10                         | 390                          | <0.5                          | <2                          | 0.91                         | <0.5                          | 14                          | 66                          | 25                          | 3.36                         |
| ZZ04787            |                                   | 0.30                              | 0.002                           | 0.2                           | 1.69                         | 8                           | <10                         | 440                          | 0.5                           | <2                          | 0.60                         | <0.5                          | 16                          | 72                          | 33                          | 3.18                         |
| ZZ04788            |                                   | 0.36                              | 0.003                           | 0.6                           | 1.06                         | 14                          | <10                         | 280                          | <0.5                          | 2                           | 0.83                         | <0.5                          | 10                          | 57                          | 20                          | 2.35                         |
| ZZ04789            |                                   | 0.12                              | 0.002                           | 0.5                           | 1.00                         | 20                          | <10                         | 450                          | <0.5                          | <2                          | 0.63                         | 1.4                           | 14                          | 47                          | 25                          | 2.73                         |
| ZZ04790            |                                   | 0.24                              | 0.002                           | 1.1                           | 0.85                         | 10                          | <10                         | 1080                         | <0.5                          | <2                          | 0.83                         | 2.0                           | 4                           | 47                          | 38                          | 1.41                         |
| ZZ04791            |                                   | 0.20                              | 0.007                           | 0.5                           | 1.03                         | 10                          | <10                         | 870                          | <0.5                          | <2                          | 0.57                         | 1.5                           | 6                           | 37                          | 31                          | 1.76                         |
| ZZ04792            |                                   | 0.34                              | 0.003                           | 0.2                           | 1.66                         | 9                           | <10                         | 530                          | 0.5                           | <2                          | 0.72                         | 0.7                           | 16                          | 73                          | 58                          | 3.28                         |
| ZZ04793            |                                   | 0.26                              | 0.002                           | <0.2                          | 1.34                         | 7                           | <10                         | 330                          | <0.5                          | <2                          | 0.39                         | <0.5                          | 15                          | 79                          | 27                          | 2.63                         |
| ZZ04794            |                                   | 0.26                              | 0.003                           | 0.3                           | 1.43                         | 11                          | <10                         | 410                          | <0.5                          | <2                          | 0.64                         | 0.6                           | 17                          | 62                          | 33                          | 2.84                         |
| ZZ04795            |                                   | 0.18                              | 0.004                           | 0.2                           | 1.44                         | 13                          | <10                         | 460                          | <0.5                          | <2                          | 0.59                         | <0.5                          | 14                          | 64                          | 45                          | 2.85                         |
| ZZ04796            |                                   | 0.44                              | 0.003                           | 0.4                           | 1.67                         | 12                          | <10                         | 700                          | 0.6                           | <2                          | 0.81                         | 0.8                           | 17                          | 72                          | 59                          | 3.38                         |
| ZZ04797            |                                   | 0.14                              | <0.001                          | 0.3                           | 1.38                         | 10                          | <10                         | 820                          | 0.5                           | 2                           | 1.51                         | 2.1                           | 19                          | 58                          | 52                          | 2.78                         |
| ZZ04798            |                                   | 0.38                              | 0.002                           | 0.2                           | 1.54                         | 8                           | <10                         | 380                          | 0.5                           | <2                          | 0.74                         | <0.5                          | 18                          | 74                          | 23                          | 2.97                         |
| ZZ04799            |                                   | 0.14                              | 0.003                           | <0.2                          | 1.36                         | 7                           | <10                         | 320                          | <0.5                          | <2                          | 1.12                         | 0.5                           | 14                          | 63                          | 19                          | 2.41                         |
| ZZ04800            |                                   | 0.12                              | <0.001                          | 0.3                           | 1.12                         | 9                           | <10                         | 380                          | <0.5                          | <2                          | 1.34                         | 1.5                           | 10                          | 50                          | 27                          | 2.35                         |
| ZZ04801            |                                   | 0.26                              | 0.011                           | 0.3                           | 0.51                         | 52                          | <10                         | 180                          | <0.5                          | <2                          | 0.61                         | 0.5                           | 16                          | 13                          | 73                          | 2.91                         |
| ZZ04802            |                                   | 0.32                              | 0.003                           | 0.2                           | 0.42                         | 14                          | <10                         | 120                          | <0.5                          | <2                          | 2.12                         | 0.6                           | 17                          | 9                           | 40                          | 3.35                         |
| ZZ04803            |                                   | 0.50                              | 0.004                           | 0.2                           | 0.80                         | 10                          | <10                         | 120                          | <0.5                          | 2                           | 3.34                         | 0.6                           | 14                          | 14                          | 40                          | 3.02                         |
| ZZ04804            |                                   | 0.22                              | 0.001                           | <0.2                          | 1.17                         | 8                           | <10                         | 120                          | <0.5                          | <2                          | 1.52                         | <0.5                          | 10                          | 17                          | 27                          | 2.31                         |
| ZZ04805            |                                   | 0.44                              | 0.004                           | 0.2                           | 1.13                         | 28                          | <10                         | 110                          | <0.5                          | 2                           | 1.43                         | <0.5                          | 20                          | 19                          | 52                          | 3.94                         |
| ZZ04806            |                                   | 0.36                              | 0.010                           | 0.9                           | 0.84                         | 29                          | <10                         | 300                          | <0.5                          | <2                          | 0.83                         | 1.0                           | 13                          | 24                          | 67                          | 2.93                         |
| ZZ04807            |                                   | 0.40                              | 0.006                           | 0.5                           | 0.83                         | 21                          | <10                         | 270                          | <0.5                          | <2                          | 1.20                         | 1.1                           | 10                          | 26                          | 55                          | 2.55                         |
| ZZ04808            |                                   | 0.38                              | 0.008                           | 0.5                           | 0.90                         | 21                          | <10                         | 270                          | <0.5                          | <2                          | 0.67                         | 0.9                           | 13                          | 30                          | 68                          | 2.91                         |
| ZZ04809            |                                   | 0.40                              | 0.006                           | 0.4                           | 0.71                         | 19                          | <10                         | 210                          | <0.5                          | <2                          | 1.21                         | 1.0                           | 15                          | 27                          | 52                          | 3.24                         |
| ZZ04810            |                                   | 0.36                              | 0.003                           | 0.2                           | 0.42                         | 26                          | <10                         | 110                          | <0.5                          | <2                          | 2.71                         | 0.5                           | 15                          | 12                          | 38                          | 3.15                         |
| ZZ04811            |                                   | 0.38                              | 0.003                           | 0.2                           | 0.56                         | 11                          | <10                         | 140                          | <0.5                          | <2                          | 3.90                         | <0.5                          | 15                          | 17                          | 41                          | 3.01                         |
| ZZ04812            |                                   | 0.50                              | 0.008                           | 0.7                           | 0.99                         | 24                          | <10                         | 260                          | <0.5                          | <2                          | 0.78                         | 2.0                           | 13                          | 47                          | 73                          | 2.77                         |
| ZZ04813            |                                   | 0.30                              | 0.004                           | 0.3                           | 0.71                         | 21                          | <10                         | 130                          | <0.5                          | <2                          | 1.74                         | 0.8                           | 14                          | 33                          | 48                          | 3.09                         |
| ZZ04814            |                                   | 0.36                              | 0.005                           | 0.4                           | 0.96                         | 22                          | <10                         | 180                          | <0.5                          | <2                          | 0.98                         | 0.8                           | 13                          | 33                          | 42                          | 3.27                         |
| ZZ04815            |                                   | 0.20                              | 0.003                           | 0.4                           | 1.02                         | 17                          | <10                         | 230                          | <0.5                          | <2                          | 0.58                         | 1.0                           | 15                          | 30                          | 34                          | 3.05                         |
| ZZ04816            |                                   | 0.22                              | 0.004                           | 0.4                           | 0.80                         | 18                          | <10                         | 250                          | <0.5                          | <2                          | 1.00                         | 1.4                           | 13                          | 32                          | 45                          | 1.99                         |
| ZZ04817            |                                   | 0.32                              | 0.006                           | 0.6                           | 0.98                         | 22                          | <10                         | 220                          | <0.5                          | <2                          | 1.08                         | 0.8                           | 11                          | 34                          | 58                          | 3.08                         |
| ZZ04818            |                                   | 0.56                              | 0.012                           | 0.6                           | 1.14                         | 32                          | <10                         | 300                          | 0.5                           | <2                          | 0.95                         | 1.1                           | 14                          | 38                          | 74                          | 3.18                         |
| ZZ04819            |                                   | 0.54                              | 0.011                           | 0.5                           | 1.27                         | 52                          | <10                         | 250                          | 0.5                           | <2                          | 0.53                         | 1.4                           | 15                          | 51                          | 68                          | 3.27                         |
| ZZ04820            |                                   | 0.38                              | 0.006                           | 1.0                           | 0.33                         | 32                          | <10                         | 180                          | <0.5                          | <2                          | 2.34                         | 2.0                           | 18                          | 9                           | 69                          | 3.94                         |



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Page: 2 - B  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04781            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.40                         | 340                         | 11                          | 0.01                         | 53                          | 920                         | 11                          | 0.14                        | 13                          | 2                           | 90                          |
| ZZ04782            |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.02                         | 24                          | 9                           | 0.02                         | 20                          | 450                         | <2                          | 0.09                        | 9                           | <1                          | 17                          |
| ZZ04783            |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.36                         | 243                         | 5                           | 0.01                         | 13                          | 1390                        | 13                          | 0.05                        | 4                           | 1                           | 41                          |
| ZZ04784            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.26                         | 363                         | 5                           | 0.01                         | 24                          | 570                         | 11                          | 0.07                        | 4                           | 1                           | 51                          |
| ZZ04785            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.82                         | 758                         | 1                           | 0.02                         | 33                          | 960                         | 7                           | 0.06                        | 2                           | 3                           | 71                          |
| ZZ04786            |                                   | 10                           | <1                          | 0.05                        | 10                           | 1.02                         | 574                         | <1                          | 0.02                         | 24                          | 990                         | 8                           | 0.08                        | <2                          | 4                           | 42                          |
| ZZ04787            |                                   | 10                           | <1                          | 0.07                        | 20                           | 1.04                         | 508                         | 1                           | 0.02                         | 47                          | 910                         | 11                          | 0.05                        | <2                          | 5                           | 30                          |
| ZZ04788            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.65                         | 384                         | 2                           | 0.02                         | 31                          | 1450                        | 10                          | 0.08                        | <2                          | 3                           | 61                          |
| ZZ04789            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.71                         | 690                         | 6                           | 0.03                         | 42                          | 1250                        | 9                           | 0.09                        | 2                           | 3                           | 41                          |
| ZZ04790            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.33                         | 220                         | 1                           | 0.03                         | 30                          | 1310                        | 12                          | 0.16                        | 2                           | 2                           | 69                          |
| ZZ04791            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.44                         | 241                         | 2                           | 0.02                         | 24                          | 1150                        | 14                          | 0.10                        | 3                           | 2                           | 56                          |
| ZZ04792            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.99                         | 631                         | 2                           | 0.02                         | 80                          | 960                         | 12                          | 0.05                        | <2                          | 5                           | 39                          |
| ZZ04793            |                                   | <10                          | <1                          | 0.06                        | 20                           | 1.03                         | 461                         | 1                           | 0.02                         | 64                          | 910                         | 9                           | 0.03                        | <2                          | 3                           | 24                          |
| ZZ04794            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.84                         | 876                         | 1                           | 0.02                         | 54                          | 1070                        | 11                          | 0.06                        | <2                          | 4                           | 38                          |
| ZZ04795            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.87                         | 496                         | 2                           | 0.02                         | 58                          | 990                         | 9                           | 0.04                        | <2                          | 4                           | 33                          |
| ZZ04796            |                                   | <10                          | 1                           | 0.09                        | 20                           | 1.01                         | 630                         | 1                           | 0.02                         | 79                          | 1010                        | 13                          | 0.06                        | 3                           | 6                           | 40                          |
| ZZ04797            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.76                         | 2350                        | 4                           | 0.04                         | 83                          | 1040                        | 10                          | 0.19                        | 2                           | 3                           | 91                          |
| ZZ04798            |                                   | <10                          | <1                          | 0.07                        | 20                           | 1.05                         | 572                         | 1                           | 0.02                         | 60                          | 910                         | 11                          | 0.05                        | <2                          | 4                           | 42                          |
| ZZ04799            |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.01                         | 772                         | 1                           | 0.02                         | 57                          | 940                         | 8                           | 0.07                        | 2                           | 4                           | 62                          |
| ZZ04800            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.79                         | 543                         | 1                           | 0.02                         | 44                          | 1020                        | 12                          | 0.09                        | <2                          | 3                           | 86                          |
| ZZ04801            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.11                         | 212                         | 4                           | 0.01                         | 44                          | 770                         | 19                          | 0.05                        | 5                           | 2                           | 33                          |
| ZZ04802            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.14                         | 524                         | 1                           | 0.01                         | 29                          | 780                         | 11                          | 0.04                        | 3                           | 3                           | 51                          |
| ZZ04803            |                                   | <10                          | <1                          | 0.03                        | 30                           | 0.38                         | 493                         | 1                           | 0.01                         | 32                          | 820                         | 8                           | 0.04                        | 2                           | 3                           | 71                          |
| ZZ04804            |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.60                         | 368                         | 1                           | 0.03                         | 25                          | 540                         | 5                           | 0.07                        | 2                           | 2                           | 49                          |
| ZZ04805            |                                   | <10                          | <1                          | 0.04                        | 50                           | 0.56                         | 533                         | 2                           | 0.01                         | 46                          | 1280                        | 20                          | 0.04                        | 4                           | 4                           | 46                          |
| ZZ04806            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.35                         | 267                         | 4                           | 0.01                         | 50                          | 1200                        | 17                          | 0.05                        | 5                           | 3                           | 45                          |
| ZZ04807            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.39                         | 314                         | 3                           | 0.02                         | 42                          | 1150                        | 12                          | 0.07                        | 3                           | 2                           | 50                          |
| ZZ04808            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.36                         | 394                         | 5                           | 0.01                         | 58                          | 1100                        | 13                          | 0.04                        | 5                           | 3                           | 40                          |
| ZZ04809            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.34                         | 522                         | 3                           | 0.01                         | 61                          | 730                         | 13                          | 0.03                        | 4                           | 4                           | 29                          |
| ZZ04810            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.29                         | 501                         | 1                           | 0.01                         | 39                          | 870                         | 7                           | 0.03                        | 4                           | 3                           | 31                          |
| ZZ04811            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.33                         | 477                         | 2                           | 0.01                         | 46                          | 630                         | 8                           | 0.02                        | 2                           | 3                           | 48                          |
| ZZ04812            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.61                         | 491                         | 4                           | 0.02                         | 93                          | 1070                        | 15                          | 0.04                        | 5                           | 4                           | 44                          |
| ZZ04813            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.42                         | 378                         | 3                           | 0.02                         | 63                          | 810                         | 13                          | 0.02                        | 3                           | 3                           | 41                          |
| ZZ04814            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.58                         | 734                         | 2                           | 0.01                         | 48                          | 1200                        | 14                          | 0.05                        | 2                           | 3                           | 46                          |
| ZZ04815            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.49                         | 496                         | 1                           | 0.01                         | 48                          | 860                         | 11                          | 0.08                        | 2                           | 3                           | 33                          |
| ZZ04816            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.49                         | 364                         | 1                           | 0.01                         | 51                          | 1170                        | 12                          | 0.14                        | 3                           | 3                           | 53                          |
| ZZ04817            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.54                         | 518                         | 2                           | 0.01                         | 52                          | 1480                        | 15                          | 0.05                        | 4                           | 3                           | 56                          |
| ZZ04818            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.58                         | 578                         | 3                           | 0.01                         | 68                          | 1270                        | 17                          | 0.05                        | 4                           | 4                           | 59                          |
| ZZ04819            |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.63                         | 543                         | 6                           | 0.01                         | 85                          | 1160                        | 22                          | 0.04                        | 4                           | 5                           | 45                          |
| ZZ04820            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.94                         | 610                         | 8                           | 0.01                         | 111                         | 1850                        | 16                          | 0.08                        | 9                           | 3                           | 111                         |



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Page: 2 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04781            |                                   | <20       | 0.03      | <10       | 20        | 25        | <10       | 349       |
| ZZ04782            |                                   | <20       | 0.01      | <10       | <10       | 6         | <10       | 90        |
| ZZ04783            |                                   | <20       | 0.09      | <10       | <10       | 56        | <10       | 70        |
| ZZ04784            |                                   | <20       | 0.04      | <10       | <10       | 20        | <10       | 148       |
| ZZ04785            |                                   | <20       | 0.08      | <10       | <10       | 40        | <10       | 99        |
| ZZ04786            |                                   | <20       | 0.13      | <10       | <10       | 52        | <10       | 87        |
| ZZ04787            |                                   | <20       | 0.09      | <10       | <10       | 54        | <10       | 92        |
| ZZ04788            |                                   | <20       | 0.04      | <10       | <10       | 45        | <10       | 100       |
| ZZ04789            |                                   | <20       | 0.03      | <10       | 10        | 45        | <10       | 145       |
| ZZ04790            |                                   | <20       | 0.02      | <10       | 10        | 26        | <10       | 78        |
| ZZ04791            |                                   | <20       | 0.03      | <10       | <10       | 38        | <10       | 75        |
| ZZ04792            |                                   | <20       | 0.06      | <10       | <10       | 53        | <10       | 125       |
| ZZ04793            |                                   | <20       | 0.06      | <10       | <10       | 46        | <10       | 79        |
| ZZ04794            |                                   | <20       | 0.05      | <10       | <10       | 47        | <10       | 99        |
| ZZ04795            |                                   | <20       | 0.07      | <10       | <10       | 50        | <10       | 102       |
| ZZ04796            |                                   | <20       | 0.07      | <10       | <10       | 58        | <10       | 118       |
| ZZ04797            |                                   | <20       | 0.02      | <10       | 10        | 41        | <10       | 122       |
| ZZ04798            |                                   | <20       | 0.06      | <10       | <10       | 52        | <10       | 115       |
| ZZ04799            |                                   | <20       | 0.05      | <10       | <10       | 44        | <10       | 83        |
| ZZ04800            |                                   | <20       | 0.04      | <10       | <10       | 38        | <10       | 124       |
| ZZ04801            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 91        |
| ZZ04802            |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 89        |
| ZZ04803            |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 100       |
| ZZ04804            |                                   | <20       | 0.01      | <10       | <10       | 12        | <10       | 72        |
| ZZ04805            |                                   | <20       | <0.01     | <10       | <10       | 14        | <10       | 111       |
| ZZ04806            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 164       |
| ZZ04807            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 164       |
| ZZ04808            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 204       |
| ZZ04809            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 164       |
| ZZ04810            |                                   | <20       | <0.01     | <10       | <10       | 12        | <10       | 97        |
| ZZ04811            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 105       |
| ZZ04812            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 235       |
| ZZ04813            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 150       |
| ZZ04814            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 140       |
| ZZ04815            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 140       |
| ZZ04816            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 155       |
| ZZ04817            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 138       |
| ZZ04818            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 161       |
| ZZ04819            |                                   | <20       | 0.02      | <10       | <10       | 45        | <10       | 189       |
| ZZ04820            |                                   | <20       | <0.01     | <10       | <10       | 22        | <10       | 767       |



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Page: 3 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| ZZ04821            |                                   | 0.38                              | 0.012                           | 0.6                           | 1.24                         | 61                          | <10                         | 410                          | 0.6                           | <2                          | 1.07                         | 0.8                           | 21                          | 37                          | 62                          | 4.49                         |
| ZZ04822            |                                   | 0.40                              | 0.010                           | 1.0                           | 1.66                         | 61                          | <10                         | 460                          | 0.7                           | <2                          | 1.23                         | <0.5                          | 15                          | 48                          | 41                          | 4.62                         |
| ZZ04823            |                                   | 0.24                              | 0.019                           | 0.4                           | 0.97                         | 72                          | <10                         | 240                          | <0.5                          | <2                          | 1.15                         | 1.4                           | 19                          | 40                          | 55                          | 3.52                         |
| ZZ04824            |                                   | 0.40                              | 0.220                           | 0.3                           | 0.46                         | 1680                        | <10                         | 200                          | <0.5                          | <2                          | 0.46                         | 0.5                           | 19                          | 15                          | 53                          | 4.29                         |
| ZZ04825            |                                   | 0.26                              | 0.018                           | 0.5                           | 0.40                         | 42                          | <10                         | 350                          | <0.5                          | <2                          | 1.84                         | 0.8                           | 5                           | 11                          | 54                          | 1.68                         |
| ZZ04826            |                                   | 0.32                              | 0.007                           | 0.2                           | 0.31                         | 66                          | <10                         | 240                          | <0.5                          | <2                          | 0.33                         | 1.9                           | 3                           | 7                           | 26                          | 1.42                         |
| ZZ04827            |                                   | 0.36                              | 0.015                           | 0.8                           | 0.46                         | 32                          | <10                         | 390                          | <0.5                          | <2                          | 0.60                         | 2.5                           | 4                           | 11                          | 55                          | 1.86                         |
| ZZ04828            |                                   | 0.34                              | 0.039                           | 0.5                           | 1.07                         | 87                          | <10                         | 480                          | <0.5                          | <2                          | 0.49                         | 0.9                           | 12                          | 37                          | 77                          | 3.57                         |
| ZZ04829            |                                   | 0.28                              | 0.017                           | 1.6                           | 0.74                         | 37                          | <10                         | 430                          | <0.5                          | <2                          | 0.79                         | 1.1                           | 5                           | 27                          | 41                          | 1.70                         |
| ZZ04830            |                                   | 0.18                              | 0.017                           | 0.9                           | 0.83                         | 34                          | <10                         | 440                          | <0.5                          | <2                          | 0.91                         | 1.2                           | 4                           | 34                          | 37                          | 1.87                         |
| ZZ04831            |                                   | 0.36                              | 0.011                           | 0.5                           | 1.03                         | 37                          | <10                         | 390                          | <0.5                          | <2                          | 0.87                         | 0.9                           | 13                          | 71                          | 69                          | 2.82                         |
| ZZ04832            |                                   | 0.28                              | 0.005                           | 0.4                           | 0.68                         | 11                          | <10                         | 210                          | <0.5                          | <2                          | 0.75                         | <0.5                          | 10                          | 30                          | 53                          | 3.04                         |
| ZZ04833            |                                   | 0.52                              | 0.006                           | 0.5                           | 1.30                         | 20                          | <10                         | 410                          | 0.5                           | <2                          | 1.65                         | 0.7                           | 19                          | 112                         | 59                          | 2.97                         |
| ZZ04834            |                                   | 0.34                              | 0.002                           | <0.2                          | 0.89                         | 8                           | <10                         | 290                          | <0.5                          | <2                          | 10.1                         | 0.6                           | 8                           | 38                          | 21                          | 1.51                         |
| ZZ04835            |                                   | 0.54                              | 0.005                           | 0.3                           | 1.29                         | 13                          | <10                         | 230                          | 0.5                           | <2                          | 0.95                         | <0.5                          | 13                          | 43                          | 52                          | 3.24                         |
| ZZ04836            |                                   | 0.46                              | 0.010                           | <0.2                          | 1.67                         | 34                          | <10                         | 740                          | 0.8                           | <2                          | 0.36                         | <0.5                          | 17                          | 84                          | 69                          | 3.49                         |
| ZZ04837            |                                   | 0.32                              | 0.006                           | 0.7                           | 1.02                         | 17                          | <10                         | 470                          | <0.5                          | <2                          | 0.86                         | 0.5                           | 10                          | 38                          | 26                          | 2.35                         |
| ZZ04838            |                                   | 0.30                              | 0.010                           | 0.3                           | 0.90                         | 20                          | <10                         | 300                          | <0.5                          | <2                          | 1.03                         | 1.1                           | 12                          | 43                          | 57                          | 2.69                         |
| ZZ04839            |                                   | 0.32                              | 0.011                           | 0.5                           | 0.54                         | 16                          | <10                         | 330                          | <0.5                          | <2                          | 1.08                         | 1.1                           | 10                          | 17                          | 69                          | 2.48                         |
| ZZ04840            |                                   | 0.38                              | 0.010                           | 0.5                           | 1.26                         | 31                          | <10                         | 480                          | 0.5                           | <2                          | 0.97                         | 1.5                           | 14                          | 59                          | 84                          | 3.07                         |
| ZZ04841            |                                   | 0.50                              | 0.008                           | 0.4                           | 1.07                         | 25                          | <10                         | 450                          | <0.5                          | <2                          | 1.40                         | 1.6                           | 13                          | 48                          | 53                          | 2.74                         |
| ZZ04842            |                                   | 0.40                              | 0.010                           | 0.6                           | 1.17                         | 37                          | <10                         | 450                          | 0.5                           | <2                          | 0.54                         | 1.4                           | 14                          | 65                          | 53                          | 2.93                         |
| ZZ04843            |                                   | 0.38                              | 0.026                           | 1.0                           | 0.90                         | 58                          | <10                         | 400                          | <0.5                          | <2                          | 0.50                         | 1.2                           | 7                           | 40                          | 82                          | 2.33                         |
| ZZ04844            |                                   | 0.36                              | 0.027                           | 0.8                           | 0.93                         | 65                          | <10                         | 310                          | <0.5                          | <2                          | 0.47                         | 1.2                           | 13                          | 41                          | 74                          | 3.02                         |
| ZZ04845            |                                   | 0.40                              | 0.020                           | 0.7                           | 1.06                         | 68                          | <10                         | 480                          | <0.5                          | <2                          | 0.65                         | 0.9                           | 16                          | 45                          | 55                          | 2.83                         |
| ZZ04846            |                                   | 0.42                              | 0.016                           | 0.7                           | 0.89                         | 50                          | <10                         | 390                          | <0.5                          | <2                          | 0.83                         | 0.8                           | 4                           | 27                          | 42                          | 1.64                         |
| ZZ04847            |                                   | 0.40                              | 0.010                           | 0.6                           | 1.27                         | 165                         | <10                         | 790                          | 0.7                           | <2                          | 1.26                         | 3.2                           | 84                          | 706                         | 67                          | 6.59                         |
| ZZ04848            |                                   | 0.34                              | 0.024                           | 0.8                           | 0.90                         | 121                         | <10                         | 370                          | <0.5                          | <2                          | 1.03                         | 0.9                           | 12                          | 38                          | 66                          | 2.71                         |
| ZZ04849            |                                   | 0.34                              | 0.012                           | 0.3                           | 0.74                         | 61                          | <10                         | 380                          | <0.5                          | <2                          | 0.38                         | 1.4                           | 8                           | 21                          | 63                          | 2.38                         |
| ZZ04850            |                                   | 0.58                              | 0.019                           | 0.6                           | 1.15                         | 114                         | <10                         | 340                          | 0.5                           | <2                          | 0.65                         | 1.3                           | 14                          | 41                          | 70                          | 3.11                         |
| ZZ04851            |                                   | 0.22                              | 0.012                           | 1.0                           | 0.82                         | 32                          | <10                         | 260                          | <0.5                          | <2                          | 0.63                         | 1.8                           | 8                           | 33                          | 59                          | 2.14                         |
| ZZ04852            |                                   | 0.40                              | 0.007                           | 0.5                           | 1.29                         | 16                          | <10                         | 290                          | 0.6                           | <2                          | 0.80                         | 0.5                           | 11                          | 43                          | 53                          | 2.73                         |
| ZZ04853            |                                   | 0.32                              | 0.001                           | 0.3                           | 1.05                         | 7                           | <10                         | 110                          | <0.5                          | <2                          | 0.13                         | <0.5                          | 4                           | 31                          | 8                           | 1.91                         |
| ZZ04854            |                                   | 0.24                              | 0.005                           | 0.5                           | 0.70                         | 43                          | <10                         | 150                          | <0.5                          | 2                           | 0.07                         | 0.9                           | 5                           | 17                          | 30                          | 2.42                         |
| ZZ04855            |                                   | 0.22                              | 0.012                           | 1.0                           | 0.76                         | 28                          | <10                         | 280                          | <0.5                          | <2                          | 0.76                         | 0.9                           | 12                          | 20                          | 74                          | 2.65                         |
| ZZ04856            |                                   | 0.38                              | 0.014                           | 1.9                           | 0.93                         | 67                          | <10                         | 270                          | 0.6                           | <2                          | 0.82                         | 1.1                           | 17                          | 24                          | 118                         | 4.17                         |
| ZZ04857            |                                   | 0.32                              | 0.008                           | 0.5                           | 1.23                         | 30                          | <10                         | 270                          | 0.6                           | <2                          | 1.30                         | 0.7                           | 15                          | 25                          | 66                          | 3.12                         |
| ZZ04858            |                                   | 0.30                              | 0.004                           | 0.3                           | 0.51                         | 17                          | <10                         | 110                          | <0.5                          | <2                          | 0.97                         | 0.7                           | 13                          | 12                          | 47                          | 3.45                         |
| ZZ04859            |                                   | 0.28                              | 0.004                           | 0.3                           | 0.57                         | 35                          | <10                         | 170                          | <0.5                          | <2                          | 0.63                         | <0.5                          | 17                          | 44                          | 45                          | 3.73                         |
| ZZ04860            |                                   | 0.40                              | 0.011                           | 0.6                           | 0.95                         | 41                          | <10                         | 260                          | <0.5                          | 2                           | 1.45                         | 2.0                           | 14                          | 23                          | 85                          | 3.44                         |



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Page: 3 - B  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

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**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04821            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.56                         | 702                         | 3                           | 0.01                         | 88                          | 1190                        | 15                          | 0.04                        | 4                           | 5                           | 52                          |
| ZZ04822            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.88                         | 982                         | 6                           | 0.01                         | 64                          | 1700                        | 37                          | 0.03                        | 8                           | 4                           | 57                          |
| ZZ04823            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.63                         | 1570                        | 5                           | 0.01                         | 69                          | 1160                        | 19                          | 0.05                        | 4                           | 4                           | 60                          |
| ZZ04824            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.17                         | 966                         | 2                           | 0.01                         | 64                          | 780                         | 14                          | 0.06                        | 8                           | 3                           | 35                          |
| ZZ04825            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.25                         | 288                         | 1                           | 0.01                         | 26                          | 770                         | 11                          | 0.10                        | 6                           | 3                           | 90                          |
| ZZ04826            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.05                         | 204                         | 7                           | 0.01                         | 14                          | 810                         | 12                          | 0.04                        | 3                           | 1                           | 30                          |
| ZZ04827            |                                   | <10                          | <1                          | 0.05                        | 30                           | 0.12                         | 155                         | 3                           | 0.01                         | 24                          | 1140                        | 33                          | 0.04                        | 5                           | 2                           | 75                          |
| ZZ04828            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.36                         | 578                         | 8                           | 0.01                         | 65                          | 1860                        | 18                          | 0.03                        | 15                          | 2                           | 71                          |
| ZZ04829            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.29                         | 235                         | 1                           | 0.01                         | 27                          | 1230                        | 20                          | 0.07                        | 6                           | 3                           | 96                          |
| ZZ04830            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.38                         | 179                         | 1                           | 0.01                         | 27                          | 1240                        | 20                          | 0.09                        | 6                           | 3                           | 91                          |
| ZZ04831            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.92                         | 596                         | 3                           | 0.01                         | 130                         | 960                         | 19                          | 0.04                        | 5                           | 3                           | 50                          |
| ZZ04832            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.40                         | 258                         | 3                           | 0.03                         | 57                          | 480                         | 15                          | 0.04                        | 3                           | 2                           | 26                          |
| ZZ04833            |                                   | <10                          | 1                           | 0.13                        | 10                           | 1.69                         | 807                         | 2                           | 0.01                         | 207                         | 970                         | 16                          | 0.04                        | 2                           | 4                           | 52                          |
| ZZ04834            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.54                         | 493                         | 1                           | 0.02                         | 56                          | 1280                        | 7                           | 0.07                        | <2                          | 2                           | 123                         |
| ZZ04835            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.61                         | 623                         | 2                           | 0.01                         | 51                          | 860                         | 29                          | 0.06                        | 2                           | 3                           | 57                          |
| ZZ04836            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.80                         | 741                         | 3                           | 0.01                         | 136                         | 660                         | 17                          | 0.02                        | 4                           | 6                           | 25                          |
| ZZ04837            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.51                         | 334                         | 1                           | 0.01                         | 51                          | 920                         | 14                          | 0.03                        | 2                           | 3                           | 51                          |
| ZZ04838            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.49                         | 436                         | 4                           | 0.01                         | 73                          | 930                         | 14                          | 0.06                        | 4                           | 3                           | 54                          |
| ZZ04839            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.18                         | 589                         | 6                           | 0.01                         | 44                          | 620                         | 14                          | 0.05                        | 6                           | 2                           | 52                          |
| ZZ04840            |                                   | <10                          | 1                           | 0.12                        | 20                           | 0.76                         | 432                         | 4                           | 0.02                         | 109                         | 1160                        | 21                          | 0.05                        | 4                           | 4                           | 63                          |
| ZZ04841            |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.61                         | 472                         | 3                           | 0.01                         | 75                          | 1090                        | 17                          | 0.09                        | 3                           | 3                           | 55                          |
| ZZ04842            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.64                         | 1140                        | 5                           | 0.01                         | 73                          | 1240                        | 18                          | 0.04                        | 7                           | 3                           | 52                          |
| ZZ04843            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.45                         | 201                         | 4                           | 0.01                         | 49                          | 1650                        | 26                          | 0.02                        | 15                          | 3                           | 69                          |
| ZZ04844            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.48                         | 582                         | 6                           | 0.01                         | 73                          | 1630                        | 21                          | 0.02                        | 12                          | 4                           | 62                          |
| ZZ04845            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.52                         | 652                         | 5                           | 0.01                         | 57                          | 1690                        | 19                          | 0.03                        | 7                           | 3                           | 74                          |
| ZZ04846            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.34                         | 185                         | 2                           | 0.01                         | 29                          | 1500                        | 16                          | 0.05                        | 4                           | 2                           | 85                          |
| ZZ04847            |                                   | <10                          | 1                           | 0.03                        | 10                           | 1.62                         | 1830                        | 12                          | 0.02                         | 666                         | 1440                        | 11                          | 0.10                        | 10                          | 7                           | 85                          |
| ZZ04848            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.41                         | 343                         | 7                           | 0.01                         | 60                          | 1730                        | 17                          | 0.04                        | 7                           | 3                           | 81                          |
| ZZ04849            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.22                         | 194                         | 7                           | 0.02                         | 39                          | 1160                        | 15                          | 0.03                        | 6                           | 2                           | 44                          |
| ZZ04850            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.58                         | 257                         | 4                           | 0.01                         | 60                          | 1260                        | 20                          | 0.03                        | 6                           | 4                           | 48                          |
| ZZ04851            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.47                         | 235                         | 7                           | 0.01                         | 45                          | 980                         | 14                          | 0.02                        | 5                           | 3                           | 49                          |
| ZZ04852            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.76                         | 506                         | 2                           | 0.01                         | 57                          | 1050                        | 14                          | 0.02                        | 2                           | 4                           | 54                          |
| ZZ04853            |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.39                         | 136                         | 2                           | 0.01                         | 17                          | 570                         | 12                          | 0.01                        | <2                          | 2                           | 9                           |
| ZZ04854            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.06                         | 132                         | 6                           | 0.01                         | 17                          | 1440                        | 16                          | 0.04                        | 6                           | 1                           | 29                          |
| ZZ04855            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.26                         | 378                         | 6                           | 0.01                         | 42                          | 1510                        | 15                          | 0.03                        | 3                           | 2                           | 63                          |
| ZZ04856            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.26                         | 473                         | 4                           | 0.01                         | 68                          | 1360                        | 41                          | 0.03                        | 9                           | 4                           | 57                          |
| ZZ04857            |                                   | <10                          | 1                           | 0.06                        | 30                           | 0.47                         | 355                         | 3                           | 0.01                         | 45                          | 890                         | 45                          | 0.02                        | 6                           | 4                           | 77                          |
| ZZ04858            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.29                         | 425                         | 2                           | 0.01                         | 30                          | 970                         | 9                           | 0.03                        | 3                           | 2                           | 38                          |
| ZZ04859            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.34                         | 523                         | 2                           | 0.01                         | 69                          | 740                         | 12                          | 0.02                        | 3                           | 3                           | 25                          |
| ZZ04860            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.52                         | 413                         | 4                           | 0.01                         | 57                          | 1220                        | 17                          | 0.03                        | 5                           | 3                           | 66                          |



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Page: 3 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04821            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 150       |
| ZZ04822            |                                   | <20       | 0.01      | <10       | <10       | 66        | <10       | 172       |
| ZZ04823            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 131       |
| ZZ04824            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 157       |
| ZZ04825            |                                   | <20       | <0.01     | <10       | 10        | 13        | <10       | 74        |
| ZZ04826            |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 149       |
| ZZ04827            |                                   | <20       | <0.01     | <10       | <10       | 21        | <10       | 153       |
| ZZ04828            |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       | 276       |
| ZZ04829            |                                   | <20       | 0.01      | <10       | <10       | 55        | <10       | 127       |
| ZZ04830            |                                   | <20       | 0.01      | <10       | <10       | 47        | <10       | 118       |
| ZZ04831            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 200       |
| ZZ04832            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 118       |
| ZZ04833            |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 283       |
| ZZ04834            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 71        |
| ZZ04835            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 117       |
| ZZ04836            |                                   | <20       | 0.01      | <10       | <10       | 58        | <10       | 143       |
| ZZ04837            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 87        |
| ZZ04838            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 130       |
| ZZ04839            |                                   | <20       | <0.01     | <10       | <10       | 23        | <10       | 119       |
| ZZ04840            |                                   | <20       | 0.02      | <10       | <10       | 52        | <10       | 193       |
| ZZ04841            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 159       |
| ZZ04842            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 158       |
| ZZ04843            |                                   | <20       | 0.01      | <10       | <10       | 49        | <10       | 164       |
| ZZ04844            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 216       |
| ZZ04845            |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       | 214       |
| ZZ04846            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 129       |
| ZZ04847            |                                   | <20       | 0.01      | <10       | <10       | 68        | <10       | 467       |
| ZZ04848            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 193       |
| ZZ04849            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 226       |
| ZZ04850            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 174       |
| ZZ04851            |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 210       |
| ZZ04852            |                                   | <20       | 0.05      | <10       | <10       | 45        | <10       | 117       |
| ZZ04853            |                                   | <20       | 0.07      | <10       | <10       | 44        | <10       | 58        |
| ZZ04854            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 86        |
| ZZ04855            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 145       |
| ZZ04856            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 243       |
| ZZ04857            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 145       |
| ZZ04858            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 78        |
| ZZ04859            |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       | 115       |
| ZZ04860            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 197       |



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Page: 4 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| ZZ04861            |                                   | 0.34                              | <0.001                          | <0.2                          | 1.04                         | 6                           | <10                         | 30                           | <0.5                          | <2                          | 11.4                         | <0.5                          | 13                          | 15                          | 26                          | 3.17                         |
| ZZ04862            |                                   | 0.36                              | 0.006                           | 0.2                           | 0.98                         | 21                          | <10                         | 370                          | <0.5                          | <2                          | 0.44                         | <0.5                          | 10                          | 28                          | 52                          | 2.66                         |
| ZZ04863            |                                   | 0.28                              | 0.005                           | 0.3                           | 0.67                         | 30                          | <10                         | 190                          | <0.5                          | <2                          | 0.90                         | 1.3                           | 13                          | 18                          | 48                          | 3.32                         |
| ZZ04864            |                                   | 0.36                              | 0.004                           | 0.2                           | 0.57                         | 31                          | <10                         | 100                          | <0.5                          | <2                          | 3.39                         | 0.7                           | 16                          | 12                          | 34                          | 3.50                         |
| ZZ04865            |                                   | 0.40                              | 0.004                           | 0.2                           | 0.44                         | 39                          | <10                         | 120                          | <0.5                          | <2                          | 1.28                         | <0.5                          | 15                          | 9                           | 34                          | 3.18                         |
| ZZ04866            |                                   | 0.30                              | 0.003                           | 0.2                           | 0.96                         | 18                          | <10                         | 130                          | <0.5                          | <2                          | 1.19                         | 0.8                           | 15                          | 22                          | 28                          | 3.52                         |
| ZZ04867            |                                   | 0.24                              | <0.001                          | <0.2                          | 0.77                         | 10                          | <10                         | 170                          | <0.5                          | <2                          | 1.13                         | 0.8                           | 14                          | 20                          | 32                          | 3.04                         |
| ZZ04868            |                                   | 0.16                              | 0.002                           | 0.2                           | 1.28                         | 11                          | <10                         | 190                          | <0.5                          | <2                          | 1.13                         | 0.6                           | 10                          | 30                          | 27                          | 2.82                         |
| ZZ04869            |                                   | 0.30                              | 0.005                           | 0.4                           | 1.13                         | 18                          | <10                         | 220                          | 0.5                           | <2                          | 0.60                         | 1.0                           | 17                          | 40                          | 51                          | 3.24                         |
| ZZ04870            |                                   | 0.32                              | 0.010                           | 0.4                           | 1.05                         | 36                          | <10                         | 280                          | 0.5                           | <2                          | 1.05                         | 0.8                           | 17                          | 32                          | 63                          | 3.67                         |
| ZZ04871            |                                   | 0.34                              | 0.013                           | 0.3                           | 1.32                         | 84                          | <10                         | 240                          | <0.5                          | 3                           | 3.37                         | 0.5                           | 25                          | 27                          | 73                          | 5.12                         |
| ZZ04872            |                                   | 0.28                              | 0.018                           | 0.4                           | 1.94                         | 133                         | <10                         | 350                          | 0.5                           | <2                          | 0.99                         | 0.7                           | 29                          | 32                          | 76                          | 6.20                         |
| ZZ04873            |                                   | 0.14                              | 0.009                           | 0.4                           | 0.99                         | 35                          | <10                         | 230                          | <0.5                          | <2                          | 0.92                         | 0.6                           | 11                          | 40                          | 42                          | 2.49                         |
| ZZ04874            |                                   | 0.16                              | 0.060                           | 0.8                           | 0.73                         | 147                         | <10                         | 410                          | <0.5                          | 2                           | 1.45                         | 1.1                           | 17                          | 24                          | 68                          | 3.78                         |
| ZZ04875            |                                   | 0.24                              | 0.037                           | 0.9                           | 0.89                         | 127                         | <10                         | 590                          | 0.6                           | 3                           | 2.97                         | 0.7                           | 30                          | 29                          | 91                          | 5.37                         |
| ZZ04876            |                                   | 0.24                              | 0.009                           | 0.4                           | 1.26                         | 85                          | <10                         | 320                          | <0.5                          | <2                          | 0.73                         | 1.0                           | 12                          | 41                          | 47                          | 3.02                         |
| ZZ04877            |                                   | 0.16                              | 0.028                           | 0.4                           | 1.54                         | 142                         | <10                         | 290                          | <0.5                          | <2                          | 1.21                         | 0.8                           | 23                          | 86                          | 66                          | 4.18                         |
| ZZ04878            |                                   | 0.18                              | 0.018                           | 0.4                           | 0.88                         | 87                          | <10                         | 350                          | <0.5                          | 2                           | 1.12                         | 1.0                           | 12                          | 25                          | 50                          | 2.86                         |
| ZZ04879            |                                   | 0.22                              | 0.016                           | 0.7                           | 0.65                         | 49                          | <10                         | 510                          | <0.5                          | <2                          | 0.78                         | 0.6                           | 15                          | 22                          | 96                          | 3.71                         |
| ZZ04880            |                                   | 0.26                              | 0.013                           | 0.8                           | 1.11                         | 89                          | <10                         | 410                          | <0.5                          | <2                          | 0.89                         | 1.1                           | 18                          | 41                          | 81                          | 4.31                         |
| ZZ04881            |                                   | 0.36                              | 0.009                           | 0.5                           | 1.15                         | 53                          | <10                         | 210                          | <0.5                          | <2                          | 0.45                         | 0.6                           | 17                          | 47                          | 65                          | 3.77                         |
| ZZ04882            |                                   | 0.36                              | 0.012                           | 0.3                           | 0.38                         | 61                          | <10                         | 260                          | <0.5                          | <2                          | 1.02                         | 1.1                           | 10                          | 12                          | 49                          | 2.44                         |
| ZZ04883            |                                   | 0.18                              | 0.023                           | 0.7                           | 0.70                         | 57                          | <10                         | 620                          | <0.5                          | <2                          | 0.70                         | 1.5                           | 3                           | 18                          | 54                          | 1.72                         |
| ZZ04884            |                                   | 0.34                              | 0.015                           | 0.4                           | 0.61                         | 48                          | <10                         | 430                          | <0.5                          | <2                          | 0.49                         | 1.7                           | 6                           | 18                          | 41                          | 1.94                         |
| ZZ04885            |                                   | 0.24                              | 0.020                           | 1.4                           | 1.00                         | 69                          | <10                         | 580                          | <0.5                          | <2                          | 0.54                         | 1.6                           | 9                           | 35                          | 86                          | 2.71                         |
| ZZ04886            |                                   | 0.34                              | 0.013                           | 0.8                           | 0.69                         | 59                          | <10                         | 390                          | <0.5                          | <2                          | 0.59                         | 0.7                           | 8                           | 22                          | 47                          | 2.59                         |
| ZZ04887            |                                   | 0.18                              | 0.009                           | 0.6                           | 0.58                         | 49                          | <10                         | 440                          | <0.5                          | <2                          | 0.68                         | 2.2                           | 8                           | 21                          | 54                          | 2.00                         |
| ZZ04888            |                                   | 0.18                              | 0.016                           | 0.9                           | 0.92                         | 35                          | <10                         | 490                          | <0.5                          | <2                          | 0.68                         | 1.0                           | 4                           | 31                          | 39                          | 1.80                         |
| ZZ04889            |                                   | 0.36                              | 0.013                           | 0.6                           | 0.91                         | 35                          | <10                         | 400                          | 0.5                           | <2                          | 0.68                         | 2.0                           | 22                          | 164                         | 72                          | 3.37                         |
| ZZ04890            |                                   | 0.18                              | 0.010                           | 0.6                           | 0.97                         | 26                          | <10                         | 400                          | <0.5                          | 2                           | 0.68                         | 1.6                           | 24                          | 169                         | 43                          | 2.89                         |
| ZZ04891            |                                   | 0.36                              | 0.010                           | 0.4                           | 1.01                         | 32                          | <10                         | 370                          | <0.5                          | <2                          | 0.43                         | 1.0                           | 12                          | 125                         | 34                          | 2.46                         |
| ZZ04892            |                                   | 0.16                              | 0.010                           | 0.7                           | 1.25                         | 34                          | <10                         | 1240                         | 0.5                           | <2                          | 1.03                         | 1.3                           | 15                          | 80                          | 66                          | 3.08                         |
| ZZ04893            |                                   | 0.34                              | 0.011                           | 0.8                           | 1.28                         | 31                          | <10                         | 1080                         | <0.5                          | <2                          | 1.52                         | 0.7                           | 13                          | 63                          | 59                          | 3.04                         |
| ZZ04894            |                                   | 0.30                              | 0.008                           | 0.7                           | 1.24                         | 23                          | <10                         | 510                          | 0.5                           | <2                          | 1.71                         | 0.7                           | 14                          | 87                          | 63                          | 2.92                         |
| ZZ04895            |                                   | 0.20                              | 0.003                           | 0.2                           | 1.13                         | 10                          | <10                         | 400                          | <0.5                          | <2                          | 1.51                         | 0.5                           | 11                          | 70                          | 28                          | 2.25                         |
| ZZ04896            |                                   | 0.14                              | 0.006                           | 0.6                           | 0.88                         | 8                           | <10                         | 380                          | <0.5                          | <2                          | 1.77                         | 0.8                           | 11                          | 56                          | 39                          | 1.93                         |
| ZZ04897            |                                   | 0.36                              | 0.015                           | 0.5                           | 1.06                         | 15                          | <10                         | 720                          | 0.6                           | <2                          | 1.52                         | 0.6                           | 15                          | 53                          | 115                         | 2.91                         |
| ZZ04898            |                                   | 0.30                              | 0.001                           | <0.2                          | 1.31                         | 9                           | <10                         | 550                          | 0.5                           | <2                          | 0.87                         | <0.5                          | 10                          | 70                          | 24                          | 2.13                         |
| ZZ04899            |                                   | 0.38                              | 0.006                           | 1.1                           | 1.40                         | 9                           | <10                         | 220                          | <0.5                          | <2                          | 1.18                         | <0.5                          | 6                           | 17                          | 38                          | 2.49                         |
| ZZ04900            |                                   | 0.24                              | <0.001                          | <0.2                          | 1.16                         | 5                           | <10                         | 400                          | <0.5                          | <2                          | 0.30                         | <0.5                          | 8                           | 47                          | 20                          | 1.91                         |



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Page: 4 - B  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04861            |                                   | <10                          | 1                           | 0.02                        | 30                           | 1.15                         | 615                         | <1                          | 0.01                         | 23                          | 630                         | 7                           | 0.02                        | <2                          | 4                           | 178                         |
| ZZ04862            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.36                         | 295                         | 4                           | 0.01                         | 43                          | 870                         | 12                          | 0.01                        | 2                           | 3                           | 29                          |
| ZZ04863            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.28                         | 521                         | 2                           | 0.01                         | 44                          | 870                         | 11                          | 0.04                        | <2                          | 3                           | 32                          |
| ZZ04864            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.28                         | 602                         | 1                           | 0.01                         | 36                          | 640                         | 10                          | 0.03                        | 2                           | 3                           | 36                          |
| ZZ04865            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.13                         | 341                         | 1                           | 0.01                         | 34                          | 870                         | 6                           | 0.05                        | <2                          | 2                           | 28                          |
| ZZ04866            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.53                         | 347                         | 1                           | 0.01                         | 43                          | 780                         | 10                          | 0.04                        | 2                           | 3                           | 32                          |
| ZZ04867            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.38                         | 669                         | 2                           | 0.01                         | 39                          | 630                         | 12                          | 0.05                        | 2                           | 3                           | 40                          |
| ZZ04868            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.72                         | 544                         | 1                           | 0.02                         | 41                          | 860                         | 11                          | 0.07                        | <2                          | 2                           | 55                          |
| ZZ04869            |                                   | <10                          | <1                          | 0.07                        | 30                           | 0.67                         | 607                         | 2                           | 0.01                         | 66                          | 900                         | 15                          | 0.02                        | 2                           | 4                           | 29                          |
| ZZ04870            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.53                         | 472                         | 2                           | 0.01                         | 60                          | 770                         | 15                          | 0.04                        | 3                           | 4                           | 39                          |
| ZZ04871            |                                   | <10                          | 1                           | 0.11                        | 20                           | 0.76                         | 766                         | 2                           | 0.02                         | 62                          | 1520                        | 11                          | 0.04                        | 4                           | 5                           | 94                          |
| ZZ04872            |                                   | 10                           | <1                          | 0.08                        | 20                           | 1.03                         | 518                         | 3                           | 0.02                         | 64                          | 2620                        | 13                          | 0.03                        | 5                           | 7                           | 59                          |
| ZZ04873            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.58                         | 433                         | 2                           | 0.02                         | 52                          | 1060                        | 15                          | 0.04                        | 3                           | 3                           | 52                          |
| ZZ04874            |                                   | <10                          | <1                          | 0.12                        | 10                           | 0.70                         | 526                         | 7                           | 0.04                         | 64                          | 1630                        | 21                          | 0.14                        | 15                          | 3                           | 130                         |
| ZZ04875            |                                   | <10                          | <1                          | 0.07                        | 10                           | 1.05                         | 1895                        | 12                          | 0.04                         | 103                         | 3640                        | 16                          | 0.06                        | 16                          | 4                           | 105                         |
| ZZ04876            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.54                         | 395                         | 5                           | 0.05                         | 46                          | 1220                        | 17                          | 0.05                        | 4                           | 4                           | 44                          |
| ZZ04877            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.79                         | 501                         | 2                           | 0.01                         | 106                         | 1450                        | 15                          | 0.07                        | 3                           | 6                           | 58                          |
| ZZ04878            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.43                         | 767                         | 3                           | 0.02                         | 52                          | 1110                        | 13                          | 0.05                        | 5                           | 3                           | 64                          |
| ZZ04879            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.23                         | 289                         | 7                           | 0.01                         | 46                          | 1690                        | 21                          | 0.04                        | 4                           | 3                           | 76                          |
| ZZ04880            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.52                         | 480                         | 5                           | 0.02                         | 68                          | 1510                        | 17                          | 0.05                        | 6                           | 4                           | 68                          |
| ZZ04881            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.55                         | 411                         | 5                           | 0.01                         | 78                          | 1160                        | 17                          | 0.01                        | 5                           | 5                           | 35                          |
| ZZ04882            |                                   | <10                          | 1                           | 0.04                        | 20                           | 0.34                         | 729                         | 3                           | 0.02                         | 43                          | 930                         | 13                          | 0.03                        | 6                           | 4                           | 46                          |
| ZZ04883            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.17                         | 105                         | 2                           | 0.01                         | 19                          | 1360                        | 17                          | 0.05                        | 4                           | 2                           | 76                          |
| ZZ04884            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.18                         | 447                         | 5                           | 0.01                         | 24                          | 1290                        | 18                          | 0.03                        | 4                           | 1                           | 62                          |
| ZZ04885            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.39                         | 222                         | 7                           | 0.02                         | 51                          | 1870                        | 21                          | 0.02                        | 11                          | 3                           | 93                          |
| ZZ04886            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.22                         | 357                         | 6                           | 0.01                         | 29                          | 1260                        | 16                          | 0.04                        | 8                           | 2                           | 66                          |
| ZZ04887            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.25                         | 418                         | 5                           | 0.01                         | 40                          | 1290                        | 16                          | 0.06                        | 6                           | 2                           | 88                          |
| ZZ04888            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.35                         | 477                         | 3                           | 0.02                         | 24                          | 1290                        | 21                          | 0.04                        | 6                           | 2                           | 72                          |
| ZZ04889            |                                   | <10                          | 1                           | 0.09                        | 30                           | 2.00                         | 716                         | 4                           | 0.01                         | 225                         | 1080                        | 24                          | 0.04                        | 7                           | 5                           | 64                          |
| ZZ04890            |                                   | <10                          | 1                           | 0.08                        | 20                           | 1.68                         | 1130                        | 3                           | 0.02                         | 163                         | 1120                        | 21                          | 0.06                        | 5                           | 3                           | 53                          |
| ZZ04891            |                                   | <10                          | 1                           | 0.08                        | 20                           | 1.27                         | 263                         | 2                           | 0.01                         | 99                          | 1110                        | 27                          | 0.02                        | 5                           | 4                           | 39                          |
| ZZ04892            |                                   | <10                          | 1                           | 0.10                        | 10                           | 0.94                         | 652                         | 3                           | 0.03                         | 115                         | 1250                        | 20                          | 0.05                        | 4                           | 4                           | 58                          |
| ZZ04893            |                                   | <10                          | 1                           | 0.09                        | 10                           | 0.89                         | 480                         | 3                           | 0.03                         | 76                          | 1290                        | 16                          | 0.06                        | 3                           | 3                           | 73                          |
| ZZ04894            |                                   | <10                          | <1                          | 0.10                        | 10                           | 1.00                         | 762                         | 2                           | 0.02                         | 114                         | 910                         | 17                          | 0.06                        | <2                          | 4                           | 57                          |
| ZZ04895            |                                   | <10                          | 1                           | 0.07                        | 10                           | 1.02                         | 347                         | 1                           | 0.02                         | 67                          | 450                         | 9                           | 0.04                        | <2                          | 4                           | 38                          |
| ZZ04896            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.68                         | 361                         | 1                           | 0.03                         | 87                          | 650                         | 10                          | 0.06                        | <2                          | 2                           | 46                          |
| ZZ04897            |                                   | <10                          | 1                           | 0.09                        | 30                           | 0.56                         | 398                         | 2                           | 0.02                         | 92                          | 970                         | 12                          | 0.04                        | 3                           | 4                           | 38                          |
| ZZ04898            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.55                         | 324                         | 1                           | 0.02                         | 64                          | 430                         | 10                          | 0.03                        | <2                          | 4                           | 31                          |
| ZZ04899            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.72                         | 379                         | 1                           | 0.01                         | 23                          | 330                         | 14                          | 0.05                        | <2                          | 1                           | 56                          |
| ZZ04900            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.43                         | 330                         | 1                           | 0.01                         | 31                          | 260                         | 13                          | 0.01                        | <2                          | 2                           | 14                          |



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Page: 4 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04861            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 73        |
| ZZ04862            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 126       |
| ZZ04863            |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       | 164       |
| ZZ04864            |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 122       |
| ZZ04865            |                                   | <20       | <0.01     | <10       | <10       | 11        | <10       | 78        |
| ZZ04866            |                                   | <20       | <0.01     | <10       | <10       | 17        | <10       | 139       |
| ZZ04867            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 127       |
| ZZ04868            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 123       |
| ZZ04869            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 148       |
| ZZ04870            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 134       |
| ZZ04871            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 127       |
| ZZ04872            |                                   | <20       | 0.01      | <10       | <10       | 64        | <10       | 161       |
| ZZ04873            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 119       |
| ZZ04874            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 186       |
| ZZ04875            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 256       |
| ZZ04876            |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 127       |
| ZZ04877            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 155       |
| ZZ04878            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 138       |
| ZZ04879            |                                   | <20       | <0.01     | <10       | <10       | 22        | <10       | 111       |
| ZZ04880            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 162       |
| ZZ04881            |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 137       |
| ZZ04882            |                                   | <20       | <0.01     | <10       | <10       | 16        | <10       | 154       |
| ZZ04883            |                                   | <20       | <0.01     | <10       | <10       | 29        | <10       | 104       |
| ZZ04884            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 155       |
| ZZ04885            |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 226       |
| ZZ04886            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 148       |
| ZZ04887            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 213       |
| ZZ04888            |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 118       |
| ZZ04889            |                                   | <20       | <0.01     | <10       | <10       | 37        | <10       | 234       |
| ZZ04890            |                                   | <20       | <0.01     | <10       | <10       | 32        | <10       | 187       |
| ZZ04891            |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 156       |
| ZZ04892            |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       | 202       |
| ZZ04893            |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       | 170       |
| ZZ04894            |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 115       |
| ZZ04895            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 72        |
| ZZ04896            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 96        |
| ZZ04897            |                                   | <20       | <0.01     | <10       | <10       | 32        | <10       | 124       |
| ZZ04898            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 60        |
| ZZ04899            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 60        |
| ZZ04900            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 56        |



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Page: 5 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| ZZ04901            |                                   | 0.26                              | 0.007                           | 0.5                           | 1.32                         | 18                          | <10                         | 450                          | 0.5                           | <2                          | 0.73                         | 0.7                           | 17                          | 51                          | 55                          | 2.87                         |
| ZZ04902            |                                   | 0.40                              | 0.001                           | 0.2                           | 1.74                         | 14                          | <10                         | 310                          | <0.5                          | <2                          | 0.16                         | 0.6                           | 11                          | 53                          | 15                          | 3.41                         |
| ZZ04903            |                                   | 0.26                              | 0.002                           | <0.2                          | 1.88                         | 10                          | <10                         | 220                          | <0.5                          | <2                          | 0.24                         | <0.5                          | 10                          | 52                          | 18                          | 3.05                         |
| ZZ04904            |                                   | 0.22                              | 0.003                           | <0.2                          | 1.27                         | 11                          | <10                         | 100                          | <0.5                          | <2                          | 0.18                         | <0.5                          | 7                           | 38                          | 8                           | 2.76                         |
| ZZ04905            |                                   | 0.22                              | 0.004                           | 0.2                           | 0.81                         | 20                          | <10                         | 250                          | <0.5                          | <2                          | 0.30                         | 0.8                           | 6                           | 27                          | 16                          | 1.95                         |
| ZZ04906            |                                   | 0.24                              | 0.007                           | 0.8                           | 0.57                         | 36                          | <10                         | 250                          | <0.5                          | <2                          | 0.24                         | <0.5                          | 6                           | 15                          | 42                          | 2.17                         |
| ZZ04907            |                                   | 0.24                              | 0.008                           | 1.3                           | 0.94                         | 27                          | <10                         | 340                          | 0.5                           | <2                          | 0.40                         | 0.7                           | 8                           | 28                          | 45                          | 2.72                         |
| ZZ04908            |                                   | 0.38                              | 0.008                           | 0.4                           | 1.18                         | 26                          | <10                         | 200                          | <0.5                          | <2                          | 5.40                         | <0.5                          | 15                          | 22                          | 43                          | 3.26                         |
| ZZ04909            |                                   | 0.28                              | 0.006                           | 0.2                           | 0.70                         | 16                          | <10                         | 100                          | <0.5                          | <2                          | 4.04                         | 0.9                           | 14                          | 13                          | 44                          | 2.82                         |
| ZZ04910            |                                   | 0.22                              | 0.011                           | 0.7                           | 1.02                         | 25                          | <10                         | 260                          | <0.5                          | <2                          | 1.32                         | 2.1                           | 14                          | 26                          | 75                          | 3.09                         |
| ZZ04911            |                                   | 0.34                              | 0.003                           | <0.2                          | 0.24                         | 63                          | <10                         | 70                           | <0.5                          | <2                          | 2.29                         | <0.5                          | 19                          | 7                           | 37                          | 3.86                         |
| ZZ04912            |                                   | 0.18                              | 0.005                           | 0.5                           | 0.81                         | 22                          | <10                         | 170                          | <0.5                          | <2                          | 1.05                         | 0.9                           | 9                           | 18                          | 49                          | 2.76                         |
| ZZ04913            |                                   | 0.32                              | 0.003                           | <0.2                          | 2.11                         | 7                           | <10                         | 40                           | <0.5                          | <2                          | 5.42                         | <0.5                          | 15                          | 31                          | 29                          | 3.61                         |
| ZZ04914            |                                   | 0.20                              | 0.004                           | 0.2                           | 1.22                         | 11                          | <10                         | 150                          | <0.5                          | <2                          | 1.09                         | 0.9                           | 12                          | 24                          | 35                          | 3.54                         |
| ZZ04915            |                                   | 0.32                              | 0.003                           | <0.2                          | 0.42                         | 13                          | <10                         | 80                           | <0.5                          | <2                          | 4.09                         | <0.5                          | 14                          | 11                          | 28                          | 2.98                         |
| ZZ04916            |                                   | 0.16                              | 0.012                           | 0.2                           | 0.70                         | 15                          | <10                         | 130                          | <0.5                          | <2                          | 0.13                         | 0.5                           | 4                           | 20                          | 13                          | 1.51                         |
| ZZ04917            |                                   | 0.26                              | 0.005                           | 0.7                           | 1.13                         | 22                          | <10                         | 390                          | <0.5                          | <2                          | 1.45                         | 1.4                           | 12                          | 38                          | 53                          | 2.89                         |
| ZZ04918            |                                   | 0.34                              | 0.006                           | 0.6                           | 0.86                         | 17                          | <10                         | 240                          | <0.5                          | <2                          | 1.44                         | 0.9                           | 7                           | 28                          | 30                          | 1.97                         |
| ZZ04919            |                                   | 0.36                              | 0.009                           | 0.7                           | 1.08                         | 19                          | <10                         | 260                          | <0.5                          | <2                          | 0.56                         | 1.1                           | 13                          | 52                          | 49                          | 2.72                         |
| ZZ04920            |                                   | 0.26                              | 0.005                           | 0.7                           | 0.75                         | 26                          | <10                         | 260                          | <0.5                          | <2                          | 1.30                         | 0.8                           | 7                           | 23                          | 36                          | 2.06                         |
| ZZ04921            |                                   | 0.34                              | 0.018                           | 0.9                           | 0.98                         | 38                          | <10                         | 280                          | 0.5                           | <2                          | 0.59                         | 0.8                           | 15                          | 40                          | 76                          | 3.17                         |
| ZZ04922            |                                   | 0.34                              | 0.015                           | 1.0                           | 1.08                         | 40                          | <10                         | 390                          | 0.5                           | <2                          | 0.76                         | 0.6                           | 11                          | 48                          | 56                          | 2.89                         |
| ZZ04923            |                                   | 0.20                              | 0.006                           | 0.5                           | 0.85                         | 16                          | <10                         | 290                          | <0.5                          | <2                          | 0.81                         | 0.9                           | 11                          | 33                          | 38                          | 2.00                         |
| ZZ04924            |                                   | 0.26                              | 0.010                           | 0.7                           | 0.95                         | 24                          | <10                         | 250                          | <0.5                          | <2                          | 0.71                         | 0.8                           | 9                           | 41                          | 43                          | 2.39                         |
| ZZ04925            |                                   | 0.24                              | 0.020                           | 1.0                           | 0.95                         | 56                          | <10                         | 330                          | <0.5                          | <2                          | 1.19                         | 0.7                           | 12                          | 29                          | 35                          | 3.10                         |
| ZZ04926            |                                   | 0.22                              | 0.007                           | 0.4                           | 0.42                         | 21                          | <10                         | 200                          | <0.5                          | <2                          | 1.08                         | <0.5                          | 12                          | 14                          | 31                          | 2.50                         |
| ZZ04927            |                                   | 0.14                              | 0.016                           | 0.6                           | 0.71                         | 75                          | <10                         | 290                          | <0.5                          | <2                          | 1.10                         | 0.8                           | 12                          | 21                          | 33                          | 2.87                         |
| ZZ04928            |                                   | 0.16                              | 0.009                           | 0.9                           | 0.69                         | 54                          | <10                         | 210                          | <0.5                          | <2                          | 1.22                         | 1.0                           | 8                           | 16                          | 23                          | 1.88                         |
| ZZ04929            |                                   | 0.24                              | 0.021                           | 0.9                           | 1.13                         | 214                         | <10                         | 560                          | <0.5                          | <2                          | 0.78                         | 0.7                           | 6                           | 39                          | 49                          | 3.12                         |
| ZZ04930            |                                   | 0.14                              | 0.082                           | 1.0                           | 0.66                         | 568                         | <10                         | 300                          | <0.5                          | <2                          | 0.66                         | 4.1                           | 18                          | 22                          | 61                          | 3.05                         |
| ZZ04931            |                                   | 0.18                              | 0.008                           | 0.5                           | 0.42                         | 24                          | <10                         | 130                          | <0.5                          | <2                          | 0.31                         | <0.5                          | 9                           | 14                          | 51                          | 2.20                         |
| ZZ04932            |                                   | 0.14                              | 0.009                           | 0.4                           | 0.86                         | 43                          | <10                         | 260                          | <0.5                          | <2                          | 1.00                         | <0.5                          | 6                           | 26                          | 33                          | 1.98                         |
| ZZ04933            |                                   | 0.20                              | 0.016                           | 0.7                           | 0.54                         | 55                          | <10                         | 300                          | <0.5                          | <2                          | 0.84                         | 0.9                           | 9                           | 16                          | 44                          | 2.61                         |
| ZZ04934            |                                   | 0.24                              | 0.029                           | 0.8                           | 0.76                         | 199                         | <10                         | 380                          | 0.5                           | <2                          | 0.73                         | 0.6                           | 11                          | 22                          | 53                          | 3.25                         |
| ZZ04935            |                                   | 0.22                              | 0.027                           | 1.1                           | 0.91                         | 95                          | <10                         | 400                          | 0.6                           | <2                          | 0.57                         | 1.3                           | 10                          | 30                          | 117                         | 2.93                         |
| ZZ04936            |                                   | 0.24                              | 0.015                           | 1.4                           | 0.61                         | 30                          | <10                         | 400                          | <0.5                          | <2                          | 0.77                         | 6.8                           | 3                           | 18                          | 50                          | 1.23                         |
| ZZ04937            |                                   | 0.40                              | 0.022                           | 1.0                           | 0.78                         | 50                          | <10                         | 610                          | <0.5                          | <2                          | 0.98                         | 2.1                           | 7                           | 25                          | 90                          | 2.42                         |
| ZZ04938            |                                   | 0.24                              | 0.026                           | 0.9                           | 0.69                         | 60                          | <10                         | 350                          | <0.5                          | <2                          | 0.48                         | 1.6                           | 7                           | 19                          | 61                          | 2.26                         |
| ZZ04939            |                                   | Not Recvd                         |                                 |                               |                              |                             |                             |                              |                               |                             |                              |                               |                             |                             |                             |                              |
| ZZ04940            |                                   | 0.24                              | 0.021                           | 1.0                           | 1.08                         | 32                          | <10                         | 520                          | <0.5                          | <2                          | 0.66                         | 1.1                           | 7                           | 35                          | 46                          | 2.10                         |



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**LIMITED**  
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Page: 5 - B  
 Total # Pages: 7 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04901            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.70                         | 892                         | 3                           | 0.01                         | 61                          | 990                         | 13                          | 0.03                        | 3                           | 4                           | 61                          |
| ZZ04902            |                                   | 10                           | <1                          | 0.06                        | 10                           | 0.68                         | 428                         | 3                           | 0.01                         | 34                          | 610                         | 12                          | 0.02                        | 2                           | 3                           | 16                          |
| ZZ04903            |                                   | 10                           | 1                           | 0.06                        | 20                           | 0.83                         | 339                         | 1                           | 0.01                         | 46                          | 730                         | 12                          | 0.02                        | <2                          | 4                           | 14                          |
| ZZ04904            |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.59                         | 224                         | 2                           | 0.01                         | 21                          | 790                         | 11                          | 0.01                        | <2                          | 2                           | 11                          |
| ZZ04905            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.25                         | 259                         | 3                           | 0.01                         | 19                          | 750                         | 16                          | 0.02                        | <2                          | 1                           | 26                          |
| ZZ04906            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.11                         | 159                         | 7                           | 0.01                         | 23                          | 690                         | 15                          | 0.04                        | 5                           | 1                           | 44                          |
| ZZ04907            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.29                         | 276                         | 4                           | 0.01                         | 40                          | 1110                        | 16                          | 0.02                        | 4                           | 2                           | 45                          |
| ZZ04908            |                                   | <10                          | 1                           | 0.05                        | 30                           | 0.59                         | 438                         | 3                           | 0.01                         | 40                          | 810                         | 17                          | 0.02                        | 5                           | 3                           | 138                         |
| ZZ04909            |                                   | <10                          | 1                           | 0.04                        | 30                           | 0.51                         | 473                         | 2                           | 0.01                         | 30                          | 840                         | 10                          | 0.02                        | 4                           | 3                           | 88                          |
| ZZ04910            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.51                         | 434                         | 3                           | 0.02                         | 49                          | 1040                        | 16                          | 0.02                        | 5                           | 4                           | 57                          |
| ZZ04911            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.10                         | 282                         | 1                           | 0.01                         | 42                          | 630                         | 7                           | 0.02                        | 2                           | 4                           | 31                          |
| ZZ04912            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.36                         | 439                         | 2                           | 0.02                         | 33                          | 1010                        | 12                          | 0.06                        | 2                           | 2                           | 42                          |
| ZZ04913            |                                   | 10                           | <1                          | 0.03                        | 20                           | 1.15                         | 399                         | <1                          | 0.02                         | 31                          | 440                         | 10                          | 0.02                        | <2                          | 4                           | 90                          |
| ZZ04914            |                                   | <10                          | 1                           | 0.06                        | 30                           | 0.62                         | 386                         | 1                           | 0.01                         | 36                          | 790                         | 14                          | 0.05                        | <2                          | 3                           | 40                          |
| ZZ04915            |                                   | <10                          | 1                           | 0.04                        | 20                           | 0.29                         | 511                         | 1                           | 0.01                         | 27                          | 530                         | 8                           | 0.02                        | <2                          | 3                           | 44                          |
| ZZ04916            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.16                         | 122                         | 3                           | 0.01                         | 13                          | 610                         | 13                          | 0.01                        | 3                           | 1                           | 19                          |
| ZZ04917            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.64                         | 544                         | 2                           | 0.01                         | 57                          | 990                         | 15                          | 0.08                        | 2                           | 3                           | 78                          |
| ZZ04918            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.48                         | 510                         | 2                           | 0.01                         | 36                          | 1060                        | 10                          | 0.08                        | 2                           | 2                           | 71                          |
| ZZ04919            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.67                         | 388                         | 3                           | 0.01                         | 85                          | 1000                        | 15                          | 0.01                        | 3                           | 4                           | 42                          |
| ZZ04920            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.34                         | 341                         | 2                           | 0.01                         | 33                          | 1090                        | 9                           | 0.07                        | 3                           | 2                           | 72                          |
| ZZ04921            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.49                         | 885                         | 3                           | <0.01                        | 79                          | 1250                        | 15                          | 0.01                        | 3                           | 4                           | 50                          |
| ZZ04922            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.60                         | 477                         | 4                           | <0.01                        | 58                          | 1270                        | 19                          | 0.02                        | 6                           | 3                           | 61                          |
| ZZ04923            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.38                         | 804                         | 2                           | 0.01                         | 55                          | 890                         | 10                          | 0.04                        | <2                          | 2                           | 46                          |
| ZZ04924            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.50                         | 563                         | 3                           | 0.01                         | 52                          | 1130                        | 14                          | 0.02                        | 3                           | 3                           | 48                          |
| ZZ04925            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.58                         | 465                         | 8                           | 0.02                         | 49                          | 2480                        | 17                          | 0.04                        | 7                           | 3                           | 78                          |
| ZZ04926            |                                   | <10                          | 1                           | 0.03                        | 10                           | 0.32                         | 337                         | 3                           | 0.03                         | 46                          | 850                         | 5                           | 0.08                        | 4                           | 2                           | 39                          |
| ZZ04927            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.28                         | 911                         | 4                           | <0.01                        | 42                          | 1140                        | 12                          | 0.08                        | 4                           | 2                           | 61                          |
| ZZ04928            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.20                         | 754                         | 3                           | 0.02                         | 28                          | 1140                        | 9                           | 0.07                        | <2                          | 1                           | 59                          |
| ZZ04929            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.48                         | 188                         | 4                           | <0.01                        | 40                          | 1180                        | 64                          | 0.05                        | 5                           | 3                           | 61                          |
| ZZ04930            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.24                         | 1245                        | 5                           | 0.01                         | 59                          | 1180                        | 102                         | 0.04                        | 11                          | 3                           | 54                          |
| ZZ04931            |                                   | <10                          | 1                           | 0.04                        | 20                           | 0.15                         | 955                         | 2                           | <0.01                        | 40                          | 800                         | 16                          | <0.01                       | 3                           | 4                           | 22                          |
| ZZ04932            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.36                         | 122                         | 1                           | <0.01                        | 31                          | 1040                        | 10                          | 0.06                        | 2                           | 2                           | 55                          |
| ZZ04933            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.20                         | 427                         | 5                           | <0.01                        | 41                          | 990                         | 15                          | 0.04                        | 8                           | 3                           | 54                          |
| ZZ04934            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.29                         | 437                         | 7                           | <0.01                        | 61                          | 1060                        | 18                          | 0.02                        | 7                           | 4                           | 48                          |
| ZZ04935            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.35                         | 327                         | 7                           | <0.01                        | 73                          | 1530                        | 17                          | 0.01                        | 10                          | 5                           | 64                          |
| ZZ04936            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.13                         | 219                         | 6                           | <0.01                        | 28                          | 1530                        | 14                          | 0.07                        | 9                           | 1                           | 83                          |
| ZZ04937            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.23                         | 248                         | 6                           | <0.01                        | 51                          | 1440                        | 15                          | 0.06                        | 11                          | 2                           | 93                          |
| ZZ04938            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.20                         | 379                         | 10                          | <0.01                        | 33                          | 1420                        | 21                          | 0.03                        | 10                          | 2                           | 76                          |
| ZZ04939            |                                   |                              |                             |                             |                              |                              |                             |                             |                              |                             |                             |                             |                             |                             |                             |                             |
| ZZ04940            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.40                         | 425                         | 3                           | <0.01                        | 36                          | 1320                        | 19                          | 0.04                        | 5                           | 3                           | 75                          |



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Page: 5 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: F

Project: WLW- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04901            |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 119       |
| ZZ04902            |                                   | <20       | 0.06      | <10       | <10       | 65        | <10       | 88        |
| ZZ04903            |                                   | <20       | 0.07      | <10       | <10       | 57        | <10       | 79        |
| ZZ04904            |                                   | <20       | 0.08      | <10       | <10       | 51        | <10       | 81        |
| ZZ04905            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 72        |
| ZZ04906            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 120       |
| ZZ04907            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 170       |
| ZZ04908            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 120       |
| ZZ04909            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 105       |
| ZZ04910            |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       | 159       |
| ZZ04911            |                                   | <20       | <0.01     | <10       | <10       | 7         | <10       | 114       |
| ZZ04912            |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       | 133       |
| ZZ04913            |                                   | <20       | <0.01     | <10       | <10       | 15        | <10       | 80        |
| ZZ04914            |                                   | <20       | <0.01     | <10       | <10       | 19        | <10       | 121       |
| ZZ04915            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       | 71        |
| ZZ04916            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 54        |
| ZZ04917            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 120       |
| ZZ04918            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 147       |
| ZZ04919            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 152       |
| ZZ04920            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 93        |
| ZZ04921            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 128       |
| ZZ04922            |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 156       |
| ZZ04923            |                                   | <20       | 0.02      | <10       | <10       | 27        | <10       | 85        |
| ZZ04924            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 121       |
| ZZ04925            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 138       |
| ZZ04926            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 55        |
| ZZ04927            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 137       |
| ZZ04928            |                                   | <20       | 0.02      | <10       | <10       | 23        | <10       | 69        |
| ZZ04929            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 111       |
| ZZ04930            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 402       |
| ZZ04931            |                                   | <20       | <0.01     | <10       | <10       | 12        | <10       | 79        |
| ZZ04932            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 93        |
| ZZ04933            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 127       |
| ZZ04934            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 171       |
| ZZ04935            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 241       |
| ZZ04936            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 246       |
| ZZ04937            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 232       |
| ZZ04938            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 221       |
| ZZ04939            |                                   |           |           |           |           |           |           |           |
| ZZ04940            |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 185       |



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Page: 6 - A  
Total # Pages: 7 (A - C)  
Finalized Date: 28- SEP- 2011  
Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| ZZ04941            |                                   | 0.14                              | 0.017                           | 1.3                           | 0.82                         | 41                          | <10                         | 370                          | <0.5                          | <2                          | 0.81                         | 1.7                           | 10                          | 47                          | 57                          | 2.13                         |
| ZZ04942            |                                   | 0.12                              | 0.013                           | 0.8                           | 0.71                         | 16                          | <10                         | 350                          | <0.5                          | <2                          | 0.95                         | 1.9                           | 10                          | 105                         | 59                          | 1.71                         |
| ZZ04943            |                                   | 0.12                              | 0.018                           | 1.0                           | 0.86                         | 18                          | <10                         | 530                          | <0.5                          | <2                          | 1.20                         | 1.0                           | 10                          | 41                          | 47                          | 2.35                         |
| ZZ04944            |                                   | 0.30                              | 0.010                           | 1.0                           | 1.01                         | 26                          | <10                         | 590                          | <0.5                          | <2                          | 0.99                         | 0.9                           | 16                          | 76                          | 44                          | 2.56                         |
| ZZ04945            |                                   | 0.28                              | 0.008                           | 0.7                           | 0.29                         | 19                          | <10                         | 230                          | <0.5                          | <2                          | 0.62                         | <0.5                          | 5                           | 11                          | 34                          | 2.65                         |
| ZZ04946            |                                   | 0.14                              | 0.010                           | 0.9                           | 0.62                         | 12                          | <10                         | 450                          | <0.5                          | <2                          | 1.18                         | 0.7                           | 6                           | 23                          | 45                          | 2.10                         |
| ZZ04947            |                                   | 0.20                              | 0.010                           | 0.9                           | 0.98                         | 19                          | <10                         | 390                          | <0.5                          | <2                          | 0.74                         | 0.6                           | 12                          | 37                          | 66                          | 3.00                         |
| ZZ04948            |                                   | 0.22                              | 0.007                           | 0.5                           | 0.98                         | 7                           | <10                         | 320                          | <0.5                          | <2                          | 1.11                         | <0.5                          | 10                          | 52                          | 79                          | 2.11                         |
| ZZ04949            |                                   | 0.28                              | 0.007                           | 0.7                           | 1.26                         | 9                           | <10                         | 370                          | 0.5                           | <2                          | 1.43                         | 0.7                           | 15                          | 69                          | 62                          | 2.55                         |
| ZZ04950            |                                   | 0.28                              | 0.001                           | 0.2                           | 1.22                         | 7                           | <10                         | 410                          | <0.5                          | <2                          | 0.09                         | <0.5                          | 7                           | 45                          | 11                          | 2.41                         |
| ZZ04951            |                                   | 0.26                              | 0.012                           | 0.8                           | 1.39                         | 20                          | <10                         | 470                          | 0.6                           | <2                          | 1.55                         | 1.2                           | 15                          | 67                          | 51                          | 2.88                         |
| ZZ04952            |                                   | 0.20                              | 0.004                           | 0.3                           | 1.17                         | 15                          | <10                         | 540                          | <0.5                          | <2                          | 1.62                         | 1.5                           | 12                          | 48                          | 29                          | 2.60                         |
| ZZ04953            |                                   | 0.34                              | 0.007                           | 0.6                           | 1.41                         | 11                          | <10                         | 460                          | 0.6                           | <2                          | 1.52                         | 1.0                           | 14                          | 39                          | 55                          | 2.99                         |
| ZZ04954            |                                   | 0.40                              | 0.056                           | 1.2                           | 1.23                         | 20                          | <10                         | 590                          | 0.6                           | <2                          | 0.67                         | 0.8                           | 13                          | 59                          | 79                          | 3.07                         |
| ZZ04955            |                                   | 0.18                              | 0.006                           | 0.3                           | 0.74                         | 12                          | <10                         | 340                          | <0.5                          | <2                          | 1.27                         | 0.6                           | 7                           | 43                          | 36                          | 1.47                         |
| ZZ04956            |                                   | 0.14                              | 0.015                           | 0.5                           | 0.89                         | 56                          | <10                         | 340                          | <0.5                          | <2                          | 0.73                         | 1.0                           | 9                           | 39                          | 40                          | 2.55                         |
| ZZ04957            |                                   | 0.26                              | 0.016                           | 0.6                           | 0.86                         | 52                          | <10                         | 330                          | <0.5                          | 2                           | 0.66                         | 1.0                           | 9                           | 32                          | 42                          | 2.15                         |
| ZZ04958            |                                   | 0.22                              | 0.009                           | 0.4                           | 0.80                         | 64                          | <10                         | 300                          | <0.5                          | <2                          | 0.96                         | 0.8                           | 13                          | 26                          | 21                          | 2.40                         |
| ZZ04959            |                                   | 0.26                              | 0.017                           | 0.8                           | 0.93                         | 183                         | <10                         | 470                          | <0.5                          | <2                          | 0.49                         | 0.9                           | 6                           | 34                          | 42                          | 4.67                         |
| ZZ04960            |                                   | 0.52                              | 0.019                           | 0.8                           | 0.91                         | 72                          | <10                         | 400                          | <0.5                          | <2                          | 0.54                         | 0.5                           | 9                           | 28                          | 37                          | 2.35                         |
| ZZ04961            |                                   | 0.28                              | 0.017                           | 0.8                           | 1.06                         | 73                          | <10                         | 430                          | <0.5                          | <2                          | 0.72                         | 1.1                           | 12                          | 43                          | 39                          | 2.62                         |
| ZZ04962            |                                   | 0.20                              | 0.019                           | 0.6                           | 0.90                         | 93                          | <10                         | 380                          | 0.5                           | 2                           | 0.63                         | 1.1                           | 9                           | 26                          | 61                          | 2.36                         |
| ZZ04963            |                                   | 0.28                              | 0.022                           | 0.7                           | 0.86                         | 179                         | <10                         | 410                          | <0.5                          | <2                          | 1.24                         | 1.2                           | 21                          | 252                         | 60                          | 2.84                         |
| ZZ04964            |                                   | 0.28                              | 0.031                           | 0.7                           | 1.45                         | 82                          | <10                         | 370                          | 0.6                           | 2                           | 0.88                         | 1.0                           | 16                          | 61                          | 102                         | 3.25                         |
| ZZ04965            |                                   | 0.22                              | 0.151                           | 1.5                           | 0.65                         | 155                         | <10                         | 980                          | <0.5                          | <2                          | 0.58                         | 0.6                           | 7                           | 19                          | 58                          | 2.33                         |
| ZZ04966            |                                   | 0.26                              | 0.014                           | 0.6                           | 1.05                         | 54                          | <10                         | 340                          | <0.5                          | <2                          | 0.54                         | 1.6                           | 11                          | 38                          | 75                          | 2.81                         |
| ZZ04967            |                                   | 0.34                              | 0.014                           | 0.4                           | 1.07                         | 50                          | <10                         | 260                          | <0.5                          | <2                          | 0.43                         | 0.5                           | 13                          | 36                          | 58                          | 2.90                         |
| ZZ04968            |                                   | 0.20                              | 0.010                           | 0.4                           | 0.83                         | 25                          | <10                         | 280                          | <0.5                          | <2                          | 0.98                         | 1.4                           | 7                           | 29                          | 69                          | 1.60                         |
| ZZ04969            |                                   | 0.20                              | 0.013                           | 0.4                           | 0.93                         | 74                          | <10                         | 250                          | <0.5                          | <2                          | 0.87                         | 0.5                           | 14                          | 30                          | 51                          | 3.37                         |
| ZZ04970            |                                   | 0.38                              | 0.009                           | 0.3                           | 0.36                         | 34                          | <10                         | 110                          | <0.5                          | 2                           | 1.33                         | 0.5                           | 12                          | 12                          | 50                          | 2.15                         |
| ZZ04971            |                                   | 0.24                              | 0.013                           | 0.5                           | 0.94                         | 42                          | <10                         | 230                          | <0.5                          | <2                          | 0.74                         | 0.6                           | 10                          | 37                          | 39                          | 2.91                         |
| ZZ04972            |                                   | 0.18                              | 0.010                           | 0.5                           | 0.94                         | 28                          | <10                         | 320                          | <0.5                          | <2                          | 1.12                         | 1.4                           | 12                          | 32                          | 41                          | 1.97                         |
| ZZ04973            |                                   | 0.20                              | 0.011                           | 0.5                           | 0.99                         | 27                          | <10                         | 370                          | <0.5                          | <2                          | 0.63                         | 0.9                           | 11                          | 36                          | 64                          | 2.78                         |
| ZZ04974            |                                   | 0.44                              | 0.031                           | 1.0                           | 0.36                         | 24                          | <10                         | 150                          | <0.5                          | <2                          | 0.67                         | 0.7                           | 12                          | 11                          | 229                         | 2.82                         |
| ZZ04975            |                                   | 0.26                              | 0.012                           | 0.5                           | 0.90                         | 37                          | <10                         | 300                          | <0.5                          | <2                          | 0.65                         | <0.5                          | 8                           | 35                          | 36                          | 2.49                         |
| ZZ04976            |                                   | 0.28                              | 0.008                           | 0.3                           | 0.90                         | 18                          | <10                         | 240                          | <0.5                          | <2                          | 0.55                         | <0.5                          | 9                           | 41                          | 22                          | 2.19                         |
| ZZ04977            |                                   | 0.30                              | 0.010                           | 0.6                           | 0.78                         | 27                          | <10                         | 330                          | <0.5                          | <2                          | 0.68                         | 0.7                           | 7                           | 29                          | 73                          | 2.55                         |
| ZZ04978            |                                   | 0.16                              | 0.007                           | 0.5                           | 0.81                         | 19                          | <10                         | 330                          | <0.5                          | 2                           | 0.79                         | 1.2                           | 10                          | 29                          | 63                          | 1.88                         |
| ZZ04979            |                                   | 0.24                              | 0.011                           | 0.3                           | 0.96                         | 19                          | <10                         | 220                          | <0.5                          | <2                          | 0.55                         | <0.5                          | 9                           | 38                          | 39                          | 2.22                         |
| ZZ04980            |                                   | 0.54                              | 0.010                           | 0.7                           | 1.16                         | 34                          | <10                         | 350                          | <0.5                          | <2                          | 0.47                         | 0.7                           | 10                          | 48                          | 46                          | 2.38                         |



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Page: 6 - B  
 Total # Pages: 7 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: F

Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04941            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.51                         | 843                         | 5                           | 0.01                         | 65                          | 1660                        | 16                          | 0.05                        | 9                           | 2                           | 87                          |
| ZZ04942            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.76                         | 392                         | 2                           | 0.01                         | 102                         | 1230                        | 11                          | 0.11                        | 4                           | 2                           | 76                          |
| ZZ04943            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.37                         | 424                         | 4                           | 0.01                         | 71                          | 1020                        | 13                          | 0.06                        | 3                           | 2                           | 62                          |
| ZZ04944            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.70                         | 621                         | 4                           | <0.01                        | 124                         | 1250                        | 14                          | 0.03                        | 4                           | 3                           | 59                          |
| ZZ04945            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.04                         | 90                          | 8                           | 0.01                         | 36                          | 340                         | 15                          | 0.03                        | 6                           | 1                           | 23                          |
| ZZ04946            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.22                         | 258                         | 3                           | 0.01                         | 50                          | 700                         | 9                           | 0.06                        | 3                           | 2                           | 51                          |
| ZZ04947            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.51                         | 412                         | 3                           | 0.01                         | 73                          | 1080                        | 10                          | 0.03                        | 4                           | 3                           | 37                          |
| ZZ04948            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.60                         | 246                         | 1                           | 0.01                         | 57                          | 590                         | 11                          | 0.04                        | 2                           | 4                           | 38                          |
| ZZ04949            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.76                         | 430                         | 1                           | <0.01                        | 86                          | 540                         | 14                          | 0.04                        | <2                          | 4                           | 53                          |
| ZZ04950            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.33                         | 177                         | 2                           | <0.01                        | 29                          | 120                         | 9                           | <0.01                       | <2                          | 2                           | 9                           |
| ZZ04951            |                                   | <10                          | 1                           | 0.08                        | 20                           | 1.00                         | 677                         | 2                           | <0.01                        | 102                         | 1180                        | 14                          | 0.05                        | 4                           | 4                           | 77                          |
| ZZ04952            |                                   | <10                          | <1                          | 0.11                        | 10                           | 0.63                         | 3240                        | 3                           | <0.01                        | 72                          | 1100                        | 13                          | 0.07                        | 2                           | 2                           | 89                          |
| ZZ04953            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.80                         | 763                         | 2                           | <0.01                        | 59                          | 980                         | 15                          | 0.04                        | 2                           | 4                           | 55                          |
| ZZ04954            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.82                         | 603                         | 3                           | 0.02                         | 109                         | 920                         | 20                          | 0.02                        | 4                           | 5                           | 42                          |
| ZZ04955            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.58                         | 318                         | 1                           | 0.02                         | 62                          | 860                         | 12                          | 0.08                        | <2                          | 2                           | 66                          |
| ZZ04956            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.45                         | 591                         | 4                           | 0.01                         | 45                          | 1430                        | 18                          | 0.04                        | 6                           | 3                           | 74                          |
| ZZ04957            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.41                         | 317                         | 4                           | 0.02                         | 43                          | 1350                        | 15                          | 0.04                        | 6                           | 2                           | 72                          |
| ZZ04958            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.35                         | 654                         | 10                          | 0.02                         | 23                          | 1500                        | 13                          | 0.05                        | 6                           | 2                           | 74                          |
| ZZ04959            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.30                         | 136                         | 10                          | 0.01                         | 31                          | 1590                        | 19                          | 0.04                        | 8                           | 3                           | 65                          |
| ZZ04960            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.36                         | 288                         | 5                           | 0.01                         | 31                          | 1450                        | 16                          | 0.02                        | 8                           | 2                           | 65                          |
| ZZ04961            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.46                         | 995                         | 7                           | 0.01                         | 47                          | 1340                        | 23                          | 0.04                        | 8                           | 3                           | 72                          |
| ZZ04962            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.29                         | 289                         | 6                           | 0.02                         | 47                          | 1380                        | 22                          | 0.03                        | 7                           | 3                           | 62                          |
| ZZ04963            |                                   | <10                          | 1                           | 0.06                        | 10                           | 1.32                         | 543                         | 6                           | 0.02                         | 353                         | 1250                        | 16                          | 0.06                        | 167                         | 4                           | 82                          |
| ZZ04964            |                                   | <10                          | 1                           | 0.12                        | 10                           | 0.64                         | 348                         | 2                           | 0.01                         | 87                          | 990                         | 20                          | 0.03                        | 8                           | 12                          | 71                          |
| ZZ04965            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.20                         | 455                         | 9                           | 0.02                         | 47                          | 820                         | 23                          | 0.04                        | 10                          | 3                           | 51                          |
| ZZ04966            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.43                         | 185                         | 6                           | 0.01                         | 58                          | 1170                        | 18                          | 0.03                        | 7                           | 4                           | 51                          |
| ZZ04967            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.49                         | 255                         | 5                           | 0.01                         | 55                          | 1120                        | 19                          | 0.01                        | 4                           | 4                           | 37                          |
| ZZ04968            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.38                         | 293                         | 2                           | 0.02                         | 40                          | 980                         | 16                          | 0.09                        | 6                           | 3                           | 59                          |
| ZZ04969            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.45                         | 385                         | 3                           | 0.01                         | 51                          | 1080                        | 19                          | 0.04                        | 5                           | 4                           | 52                          |
| ZZ04970            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.57                         | 247                         | 4                           | 0.01                         | 59                          | 640                         | 16                          | 0.04                        | 6                           | 3                           | 43                          |
| ZZ04971            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.45                         | 256                         | 3                           | 0.01                         | 44                          | 1180                        | 16                          | 0.03                        | 3                           | 4                           | 44                          |
| ZZ04972            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.45                         | 198                         | 2                           | 0.02                         | 45                          | 1220                        | 14                          | 0.13                        | 3                           | 3                           | 64                          |
| ZZ04973            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.43                         | 713                         | 3                           | 0.01                         | 44                          | 1290                        | 15                          | 0.03                        | 4                           | 3                           | 55                          |
| ZZ04974            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.32                         | 485                         | 3                           | 0.01                         | 55                          | 840                         | 14                          | 0.01                        | 5                           | 3                           | 57                          |
| ZZ04975            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.43                         | 384                         | 4                           | 0.01                         | 37                          | 1390                        | 18                          | 0.02                        | 3                           | 3                           | 58                          |
| ZZ04976            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.48                         | 318                         | 3                           | 0.01                         | 34                          | 1300                        | 14                          | 0.02                        | 2                           | 2                           | 53                          |
| ZZ04977            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.34                         | 187                         | 3                           | 0.01                         | 30                          | 1170                        | 14                          | 0.03                        | 4                           | 3                           | 61                          |
| ZZ04978            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.29                         | 371                         | 2                           | 0.02                         | 38                          | 1070                        | 13                          | 0.07                        | 4                           | 2                           | 74                          |
| ZZ04979            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.50                         | 251                         | 2                           | 0.01                         | 35                          | 1070                        | 13                          | 0.02                        | 4                           | 3                           | 51                          |
| ZZ04980            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.58                         | 362                         | 3                           | 0.01                         | 56                          | 1000                        | 17                          | 0.01                        | 4                           | 4                           | 41                          |



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Page: 6 - C  
 Total # Pages: 7 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: F

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**CERTIFICATE OF ANALYSIS WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04941            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 197       |
| ZZ04942            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 119       |
| ZZ04943            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 167       |
| ZZ04944            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 169       |
| ZZ04945            |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 145       |
| ZZ04946            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 133       |
| ZZ04947            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 119       |
| ZZ04948            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 73        |
| ZZ04949            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 115       |
| ZZ04950            |                                   | <20       | 0.01      | <10       | <10       | 63        | <10       | 53        |
| ZZ04951            |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 126       |
| ZZ04952            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 236       |
| ZZ04953            |                                   | <20       | <0.01     | <10       | <10       | 41        | <10       | 85        |
| ZZ04954            |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 199       |
| ZZ04955            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 92        |
| ZZ04956            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 195       |
| ZZ04957            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 155       |
| ZZ04958            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 110       |
| ZZ04959            |                                   | <20       | 0.01      | <10       | <10       | 48        | <10       | 127       |
| ZZ04960            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 175       |
| ZZ04961            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 168       |
| ZZ04962            |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 147       |
| ZZ04963            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 148       |
| ZZ04964            |                                   | <20       | 0.01      | <10       | <10       | 61        | <10       | 228       |
| ZZ04965            |                                   | <20       | <0.01     | <10       | <10       | 25        | <10       | 197       |
| ZZ04966            |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 173       |
| ZZ04967            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 120       |
| ZZ04968            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 108       |
| ZZ04969            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 109       |
| ZZ04970            |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 102       |
| ZZ04971            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 136       |
| ZZ04972            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 155       |
| ZZ04973            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 118       |
| ZZ04974            |                                   | <20       | 0.01      | <10       | <10       | 12        | <10       | 149       |
| ZZ04975            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 98        |
| ZZ04976            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 108       |
| ZZ04977            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 92        |
| ZZ04978            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 90        |
| ZZ04979            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 120       |
| ZZ04980            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 171       |



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**Account: F**

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Project: WLV- Finlayson String

**CERTIFICATE OF ANALYSIS    WH11151921**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| ZZ04981            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 117       |
| ZZ04982            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 203       |
| ZZ04983            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 453       |
| ZZ04984            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 97        |
| ZZ04985            |                                   | <20       | <0.01     | <10       | <10       | 32        | <10       | 267       |
| ZZ04986            |                                   | <20       | 0.01      | <10       | <10       | 90        | <10       | 166       |
| ZZ04987            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 196       |
| ZZ04988            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 159       |
| ZZ04989            |                                   | <20       | 0.01      | <10       | <10       | 13        | <10       | 85        |
| ZZ04990            |                                   | <20       | <0.01     | <10       | <10       | 4         | <10       | 84        |
|                    |                                   |           |           |           |           |           |           |           |



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Page: 1  
Finalized Date: 27- SEP- 2011  
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**CERTIFICATE WH11159783**

Project: Wolverine- String

P.O. No.:

This report is for 174 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 27- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ04991            |                                   | 0.32                       | 0.053                  | 1.7                    | 0.63                 | 167                    | <10                   | 190                    | <0.5                   | <2                     | 0.89                 | 0.7                    | 15                     | 15                     | 79                     | 4.18                 |
| ZZ04992            |                                   | 0.14                       | 0.008                  | 0.4                    | 1.24                 | 42                     | <10                   | 190                    | <0.5                   | <2                     | 0.14                 | <0.5                   | 17                     | 15                     | 41                     | 4.36                 |
| ZZ04993            |                                   | 0.32                       | 0.011                  | 1.0                    | 1.01                 | 62                     | <10                   | 270                    | 0.5                    | <2                     | 0.29                 | 0.9                    | 10                     | 29                     | 56                     | 3.40                 |
| ZZ04994            |                                   | 0.28                       | 0.027                  | 2.5                    | 0.77                 | 49                     | <10                   | 360                    | <0.5                   | <2                     | 0.64                 | 2.6                    | 7                      | 22                     | 56                     | 1.66                 |
| ZZ04995            |                                   | 0.38                       | 0.006                  | 0.6                    | 0.97                 | 16                     | <10                   | 260                    | <0.5                   | <2                     | 0.30                 | <0.5                   | 8                      | 37                     | 48                     | 1.98                 |
| ZZ04996            |                                   | 0.40                       | 0.010                  | 1.1                    | 1.38                 | 22                     | <10                   | 410                    | 0.5                    | <2                     | 0.20                 | 0.9                    | 8                      | 41                     | 75                     | 2.86                 |
| ZZ04997            |                                   | 0.24                       | 0.005                  | 0.5                    | 0.86                 | 9                      | <10                   | 260                    | <0.5                   | <2                     | 1.00                 | 1.0                    | 7                      | 22                     | 45                     | 1.81                 |
| ZZ04998            |                                   | 0.20                       | 0.006                  | 0.2                    | 0.83                 | 13                     | <10                   | 100                    | <0.5                   | <2                     | 0.11                 | <0.5                   | 5                      | 35                     | 16                     | 2.20                 |
| ZZ04999            |                                   | 0.20                       | 0.002                  | 0.2                    | 1.01                 | 9                      | <10                   | 120                    | <0.5                   | <2                     | 0.18                 | <0.5                   | 5                      | 45                     | 9                      | 1.85                 |
| ZZ05000            |                                   | 0.30                       | 0.004                  | 0.2                    | 0.20                 | 9                      | <10                   | 70                     | <0.5                   | <2                     | 0.36                 | <0.5                   | 7                      | 8                      | 37                     | 1.83                 |
| ZZ05001            |                                   | 0.50                       | 0.010                  | 0.6                    | 0.99                 | 94                     | <10                   | 380                    | 0.5                    | <2                     | 1.07                 | 0.7                    | 13                     | 32                     | 53                     | 2.74                 |
| ZZ05002            |                                   | 0.34                       | 0.013                  | 0.6                    | 1.13                 | 66                     | <10                   | 380                    | <0.5                   | <2                     | 0.71                 | 0.5                    | 17                     | 41                     | 51                     | 3.32                 |
| ZZ05003            |                                   | 0.58                       | 0.007                  | 0.3                    | 0.66                 | 51                     | <10                   | 240                    | <0.5                   | <2                     | 0.98                 | <0.5                   | 12                     | 37                     | 33                     | 2.52                 |
| ZZ05004            |                                   | 0.50                       | 0.013                  | 0.5                    | 0.95                 | 62                     | <10                   | 310                    | <0.5                   | <2                     | 0.93                 | <0.5                   | 11                     | 44                     | 50                     | 2.63                 |
| ZZ05051            |                                   | 0.44                       | 0.017                  | 0.6                    | 1.02                 | 64                     | <10                   | 340                    | <0.5                   | <2                     | 0.83                 | <0.5                   | 14                     | 31                     | 76                     | 3.11                 |
| ZZ05052            |                                   | 0.20                       | 0.008                  | 0.5                    | 0.94                 | 42                     | <10                   | 240                    | <0.5                   | <2                     | 1.18                 | 0.8                    | 10                     | 37                     | 45                     | 2.07                 |
| ZZ05053            |                                   | 0.30                       | 0.008                  | 0.4                    | 1.09                 | 54                     | <10                   | 290                    | <0.5                   | <2                     | 1.34                 | 0.6                    | 12                     | 33                     | 46                     | 3.13                 |
| ZZ05054            |                                   | 0.30                       | 0.009                  | 0.5                    | 1.35                 | 38                     | <10                   | 250                    | 0.5                    | <2                     | 0.72                 | 1.6                    | 15                     | 44                     | 70                     | 3.03                 |
| ZZ05055            |                                   | 0.36                       | 0.008                  | 0.6                    | 1.41                 | 47                     | <10                   | 230                    | 0.5                    | <2                     | 0.52                 | 1.2                    | 17                     | 44                     | 53                     | 3.42                 |
| ZZ05056            |                                   | 0.34                       | 0.007                  | 0.5                    | 1.22                 | 48                     | <10                   | 260                    | 0.5                    | <2                     | 0.77                 | 0.7                    | 14                     | 40                     | 54                     | 3.35                 |
| ZZ05057            |                                   | 0.22                       | 0.005                  | 0.4                    | 0.86                 | 16                     | <10                   | 200                    | <0.5                   | <2                     | 0.74                 | 0.7                    | 13                     | 23                     | 43                     | 2.66                 |
| ZZ05058            |                                   | 0.30                       | 0.011                  | 0.4                    | 0.97                 | 26                     | <10                   | 210                    | <0.5                   | <2                     | 0.84                 | 0.8                    | 13                     | 30                     | 51                     | 3.36                 |
| ZZ05059            |                                   | 0.28                       | 0.012                  | 0.6                    | 1.15                 | 36                     | <10                   | 230                    | <0.5                   | <2                     | 0.76                 | 1.3                    | 16                     | 37                     | 80                     | 3.39                 |
| ZZ05060            |                                   | 0.30                       | 0.011                  | 0.5                    | 1.15                 | 28                     | <10                   | 310                    | 0.5                    | <2                     | 1.36                 | 0.9                    | 16                     | 31                     | 77                     | 3.26                 |
| ZZ05061            |                                   | 0.38                       | 0.014                  | 0.8                    | 0.97                 | 36                     | <10                   | 260                    | <0.5                   | <2                     | 0.69                 | 1.9                    | 14                     | 29                     | 85                     | 3.07                 |
| ZZ05062            |                                   | 0.30                       | 0.009                  | 0.5                    | 0.93                 | 32                     | <10                   | 240                    | <0.5                   | <2                     | 0.80                 | 1.1                    | 11                     | 29                     | 60                     | 2.92                 |
| ZZ05063            |                                   | 0.48                       | 0.013                  | 0.8                    | 0.95                 | 36                     | <10                   | 340                    | 0.5                    | <2                     | 0.71                 | 1.4                    | 16                     | 31                     | 70                     | 3.40                 |
| ZZ05064            |                                   | 0.26                       | 0.008                  | 0.5                    | 0.83                 | 33                     | <10                   | 430                    | <0.5                   | <2                     | 0.84                 | 1.0                    | 13                     | 26                     | 45                     | 2.39                 |
| ZZ05065            |                                   | 0.28                       | 0.009                  | 0.6                    | 0.72                 | 22                     | <10                   | 270                    | <0.5                   | <2                     | 0.91                 | 0.8                    | 4                      | 21                     | 36                     | 1.36                 |
| ZZ05066            |                                   | 0.22                       | 0.007                  | 0.6                    | 1.03                 | 22                     | <10                   | 360                    | <0.5                   | <2                     | 0.86                 | 1.6                    | 11                     | 40                     | 44                     | 2.03                 |
| ZZ05067            |                                   | 0.32                       | 0.011                  | 0.7                    | 0.76                 | 33                     | <10                   | 320                    | <0.5                   | <2                     | 0.52                 | 1.8                    | 10                     | 29                     | 70                     | 2.24                 |
| ZZ05068            |                                   | 0.30                       | 0.010                  | 0.6                    | 1.00                 | 35                     | <10                   | 330                    | <0.5                   | <2                     | 0.69                 | 0.8                    | 6                      | 43                     | 41                     | 2.54                 |
| ZZ05069            |                                   | 0.28                       | 0.008                  | 0.3                    | 1.29                 | 17                     | <10                   | 380                    | <0.5                   | <2                     | 0.51                 | 0.7                    | 21                     | 60                     | 33                     | 2.92                 |
| ZZ05070            |                                   | 0.28                       | 0.010                  | 0.6                    | 1.02                 | 24                     | <10                   | 410                    | 0.5                    | <2                     | 0.78                 | 1.8                    | 11                     | 36                     | 84                     | 2.47                 |
| ZZ05071            |                                   | 0.30                       | 0.008                  | 0.5                    | 0.96                 | 25                     | <10                   | 500                    | <0.5                   | <2                     | 1.33                 | 2.5                    | 11                     | 41                     | 56                     | 1.99                 |
| ZZ05072            |                                   | 0.26                       | 0.006                  | 0.4                    | 0.78                 | 18                     | <10                   | 290                    | <0.5                   | <2                     | 0.94                 | 1.0                    | 6                      | 27                     | 37                     | 1.61                 |
| ZZ05073            |                                   | 0.38                       | 0.008                  | 0.5                    | 1.06                 | 20                     | <10                   | 350                    | <0.5                   | <2                     | 0.90                 | 1.9                    | 10                     | 35                     | 71                     | 2.17                 |
| ZZ05074            |                                   | 0.16                       | 0.008                  | 0.5                    | 0.85                 | 27                     | <10                   | 360                    | <0.5                   | <2                     | 1.48                 | 1.4                    | 14                     | 26                     | 43                     | 2.33                 |
| ZZ05075            |                                   | 0.26                       | 0.005                  | 0.3                    | 1.34                 | 8                      | <10                   | 360                    | <0.5                   | <2                     | 0.85                 | 0.9                    | 13                     | 47                     | 45                     | 2.65                 |
| ZZ05076            |                                   | 0.44                       | 0.006                  | 0.3                    | 1.47                 | 12                     | <10                   | 400                    | 0.5                    | <2                     | 0.83                 | 0.7                    | 14                     | 50                     | 40                     | 3.09                 |



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Page: 2 - B  
Total # Pages: 6 (A - C)  
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Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ04991            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.24                         | 531                         | 4                           | <0.01                        | 51                          | 1290                        | 59                          | 0.04                        | 9                           | 3                           | 54                          |
| ZZ04992            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.39                         | 390                         | 4                           | <0.01                        | 32                          | 860                         | 12                          | 0.02                        | 4                           | 3                           | 21                          |
| ZZ04993            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.21                         | 343                         | 10                          | <0.01                        | 43                          | 1360                        | 23                          | 0.03                        | 9                           | 1                           | 52                          |
| ZZ04994            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.26                         | 575                         | 5                           | 0.01                         | 31                          | 1290                        | 19                          | 0.06                        | 6                           | 1                           | 67                          |
| ZZ04995            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.49                         | 318                         | 3                           | <0.01                        | 30                          | 940                         | 10                          | 0.01                        | 2                           | 2                           | 32                          |
| ZZ04996            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.44                         | 272                         | 4                           | <0.01                        | 51                          | 730                         | 13                          | 0.02                        | 2                           | 3                           | 33                          |
| ZZ04997            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.34                         | 345                         | 1                           | 0.01                         | 39                          | 890                         | 8                           | 0.05                        | <2                          | 2                           | 58                          |
| ZZ04998            |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.24                         | 193                         | 2                           | <0.01                        | 21                          | 800                         | 12                          | 0.01                        | 2                           | 1                           | 13                          |
| ZZ04999            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.37                         | 242                         | 2                           | <0.01                        | 26                          | 540                         | 7                           | <0.01                       | <2                          | 1                           | 8                           |
| ZZ05000            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.12                         | 280                         | 2                           | <0.01                        | 23                          | 530                         | 7                           | 0.01                        | 2                           | 1                           | 17                          |
| ZZ05001            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.37                         | 1710                        | 3                           | 0.01                         | 111                         | 1400                        | 13                          | 0.04                        | 4                           | 3                           | 53                          |
| ZZ05002            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.67                         | 1425                        | 4                           | 0.01                         | 81                          | 1170                        | 17                          | 0.02                        | 4                           | 3                           | 45                          |
| ZZ05003            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.64                         | 770                         | 3                           | <0.01                        | 55                          | 1440                        | 11                          | 0.03                        | 4                           | 2                           | 53                          |
| ZZ05004            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.54                         | 356                         | 2                           | 0.01                         | 63                          | 1170                        | 16                          | 0.03                        | 4                           | 3                           | 50                          |
| ZZ05051            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.45                         | 856                         | 2                           | 0.01                         | 53                          | 1080                        | 17                          | 0.04                        | 6                           | 4                           | 45                          |
| ZZ05052            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.56                         | 476                         | 2                           | 0.01                         | 55                          | 1100                        | 12                          | 0.11                        | 4                           | 3                           | 59                          |
| ZZ05053            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.58                         | 614                         | 2                           | 0.01                         | 53                          | 870                         | 13                          | 0.18                        | 4                           | 3                           | 66                          |
| ZZ05054            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.71                         | 386                         | 1                           | 0.02                         | 68                          | 970                         | 19                          | 0.04                        | 2                           | 5                           | 49                          |
| ZZ05055            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.72                         | 312                         | 2                           | 0.02                         | 67                          | 1120                        | 19                          | 0.03                        | 3                           | 5                           | 37                          |
| ZZ05056            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.57                         | 573                         | 1                           | 0.02                         | 53                          | 1120                        | 15                          | 0.04                        | 3                           | 4                           | 48                          |
| ZZ05057            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.36                         | 476                         | 1                           | 0.02                         | 46                          | 1020                        | 10                          | 0.05                        | 2                           | 3                           | 37                          |
| ZZ05058            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.48                         | 599                         | 2                           | 0.02                         | 54                          | 1010                        | 17                          | 0.04                        | 2                           | 3                           | 42                          |
| ZZ05059            |                                   | <10                          | 1                           | 0.10                        | 20                           | 0.55                         | 613                         | 3                           | 0.02                         | 72                          | 1180                        | 16                          | 0.02                        | 4                           | 4                           | 48                          |
| ZZ05060            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.55                         | 445                         | 2                           | 0.02                         | 63                          | 1250                        | 16                          | 0.02                        | 5                           | 4                           | 54                          |
| ZZ05061            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.43                         | 429                         | 3                           | 0.02                         | 59                          | 1350                        | 17                          | 0.03                        | 5                           | 3                           | 72                          |
| ZZ05062            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.45                         | 259                         | 1                           | 0.02                         | 44                          | 1160                        | 17                          | 0.08                        | 2                           | 3                           | 45                          |
| ZZ05063            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.43                         | 729                         | 2                           | 0.02                         | 66                          | 1380                        | 20                          | 0.02                        | 4                           | 4                           | 51                          |
| ZZ05064            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.30                         | 904                         | 4                           | 0.02                         | 36                          | 1230                        | 12                          | 0.04                        | 3                           | 2                           | 58                          |
| ZZ05065            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.23                         | 183                         | 1                           | 0.03                         | 21                          | 1430                        | 9                           | 0.09                        | <2                          | 1                           | 70                          |
| ZZ05066            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.48                         | 733                         | 3                           | 0.02                         | 47                          | 1690                        | 12                          | 0.05                        | 3                           | 3                           | 71                          |
| ZZ05067            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.31                         | 707                         | 5                           | 0.02                         | 67                          | 1390                        | 12                          | 0.02                        | 6                           | 2                           | 65                          |
| ZZ05068            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.50                         | 218                         | 3                           | 0.02                         | 34                          | 1160                        | 13                          | 0.04                        | 4                           | 3                           | 62                          |
| ZZ05069            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.76                         | 1270                        | 2                           | 0.02                         | 42                          | 1210                        | 16                          | 0.01                        | 2                           | 4                           | 47                          |
| ZZ05070            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.48                         | 454                         | 2                           | 0.02                         | 48                          | 1250                        | 14                          | 0.05                        | 2                           | 3                           | 80                          |
| ZZ05071            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.45                         | 5780                        | 1                           | 0.02                         | 58                          | 1150                        | 11                          | 0.09                        | 2                           | 2                           | 93                          |
| ZZ05072            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.31                         | 585                         | 1                           | 0.02                         | 29                          | 1050                        | 10                          | 0.07                        | 2                           | 2                           | 76                          |
| ZZ05073            |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.47                         | 493                         | 2                           | 0.02                         | 50                          | 1160                        | 12                          | 0.05                        | <2                          | 2                           | 71                          |
| ZZ05074            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.38                         | 1285                        | 4                           | 0.03                         | 30                          | 1230                        | 13                          | 0.08                        | 2                           | 2                           | 95                          |
| ZZ05075            |                                   | <10                          | 1                           | 0.10                        | 10                           | 0.68                         | 1090                        | 2                           | 0.03                         | 43                          | 1050                        | 12                          | 0.05                        | <2                          | 3                           | 52                          |
| ZZ05076            |                                   | 10                           | <1                          | 0.08                        | 10                           | 0.70                         | 689                         | 2                           | 0.02                         | 40                          | 1080                        | 12                          | 0.06                        | <2                          | 4                           | 45                          |



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Page: 2 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 27- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ04991            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 117       |
| ZZ04992            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 98        |
| ZZ04993            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 214       |
| ZZ04994            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 117       |
| ZZ04995            |                                   | <20       | 0.04      | <10       | <10       | 36        | <10       | 94        |
| ZZ04996            |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 153       |
| ZZ04997            |                                   | <20       | 0.02      | <10       | <10       | 23        | <10       | 96        |
| ZZ04998            |                                   | <20       | 0.05      | <10       | <10       | 46        | <10       | 53        |
| ZZ04999            |                                   | <20       | 0.05      | <10       | <10       | 48        | <10       | 48        |
| ZZ05000            |                                   | <20       | 0.01      | <10       | <10       | 7         | <10       | 55        |
| ZZ05001            |                                   | <20       | 0.01      | <10       | 10        | 31        | <10       | 176       |
| ZZ05002            |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 221       |
| ZZ05003            |                                   | <20       | 0.02      | <10       | <10       | 27        | <10       | 128       |
| ZZ05004            |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 134       |
| ZZ05051            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 158       |
| ZZ05052            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 139       |
| ZZ05053            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 179       |
| ZZ05054            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 229       |
| ZZ05055            |                                   | <20       | 0.02      | <10       | <10       | 46        | <10       | 200       |
| ZZ05056            |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 173       |
| ZZ05057            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 153       |
| ZZ05058            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 179       |
| ZZ05059            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 233       |
| ZZ05060            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 188       |
| ZZ05061            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 212       |
| ZZ05062            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 148       |
| ZZ05063            |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 180       |
| ZZ05064            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 114       |
| ZZ05065            |                                   | <20       | 0.01      | <10       | 10        | 24        | <10       | 80        |
| ZZ05066            |                                   | <20       | 0.02      | <10       | 10        | 41        | <10       | 174       |
| ZZ05067            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 208       |
| ZZ05068            |                                   | <20       | 0.03      | <10       | <10       | 45        | <10       | 115       |
| ZZ05069            |                                   | <20       | 0.04      | <10       | <10       | 52        | <10       | 135       |
| ZZ05070            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 151       |
| ZZ05071            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 165       |
| ZZ05072            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 104       |
| ZZ05073            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 154       |
| ZZ05074            |                                   | <20       | 0.02      | <10       | 10        | 33        | <10       | 98        |
| ZZ05075            |                                   | <20       | 0.06      | <10       | <10       | 46        | <10       | 102       |
| ZZ05076            |                                   | <20       | 0.05      | <10       | <10       | 52        | <10       | 102       |



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Page: 3 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 27- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05077            |                                   | 0.26                       | 0.004                  | 0.3                    | 1.57                 | 16                     | <10                   | 390                    | <0.5                   | <2                     | 1.38                 | <0.5                   | 13                     | 61                     | 31                     | 3.24                 |
| ZZ05078            |                                   | 0.38                       | 0.007                  | 0.2                    | 1.35                 | 19                     | <10                   | 300                    | <0.5                   | <2                     | 0.63                 | <0.5                   | 13                     | 57                     | 31                     | 3.15                 |
| ZZ05079            |                                   | 0.36                       | 0.006                  | 0.5                    | 1.39                 | 19                     | <10                   | 330                    | 0.5                    | <2                     | 1.00                 | 1.3                    | 15                     | 58                     | 63                     | 3.47                 |
| ZZ05080            |                                   | 0.16                       | 0.004                  | <0.2                   | 1.11                 | 20                     | <10                   | 200                    | <0.5                   | <2                     | 0.44                 | 0.6                    | 13                     | 64                     | 22                     | 2.79                 |
| ZZ05081            |                                   | 0.42                       | 0.004                  | 0.3                    | 1.47                 | 11                     | <10                   | 350                    | 0.5                    | 4                      | 0.75                 | 1.3                    | 17                     | 67                     | 45                     | 3.00                 |
| ZZ05082            |                                   | 0.48                       | 0.007                  | 0.3                    | 1.30                 | 23                     | <10                   | 640                    | 0.5                    | 4                      | 0.62                 | 2.2                    | 16                     | 56                     | 69                     | 3.28                 |
| ZZ05083            |                                   | 0.36                       | 0.007                  | 0.3                    | 1.54                 | 12                     | <10                   | 460                    | 0.5                    | 4                      | 0.63                 | 1.9                    | 18                     | 76                     | 47                     | 3.28                 |
| ZZ05084            |                                   | 0.30                       | 0.007                  | 0.5                    | 1.25                 | 17                     | <10                   | 1010                   | <0.5                   | 4                      | 0.67                 | 1.8                    | 14                     | 55                     | 44                     | 2.76                 |
| ZZ05085            |                                   | 0.28                       | 0.012                  | 0.7                    | 0.82                 | 30                     | <10                   | 1160                   | <0.5                   | 4                      | 0.45                 | 2.4                    | 12                     | 30                     | 74                     | 2.63                 |
| ZZ05086            |                                   | 0.18                       | 0.005                  | 0.3                    | 1.13                 | 15                     | <10                   | 420                    | <0.5                   | 4                      | 0.50                 | 1.3                    | 12                     | 44                     | 30                     | 2.43                 |
| ZZ05087            |                                   | 0.26                       | 0.009                  | 0.5                    | 0.69                 | 25                     | <10                   | 330                    | <0.5                   | 4                      | 0.45                 | 1.8                    | 10                     | 26                     | 41                     | 2.17                 |
| ZZ05088            |                                   | 0.44                       | 0.010                  | 0.3                    | 0.43                 | 26                     | <10                   | 180                    | <0.5                   | 3                      | 1.51                 | 1.9                    | 16                     | 17                     | 34                     | 3.34                 |
| ZZ05089            |                                   | 0.34                       | 0.004                  | 0.8                    | 1.10                 | 21                     | <10                   | 540                    | <0.5                   | 4                      | 0.61                 | 2.8                    | 12                     | 54                     | 53                     | 2.26                 |
| ZZ05090            |                                   | 0.38                       | 0.008                  | 0.9                    | 1.04                 | 25                     | <10                   | 420                    | <0.5                   | 4                      | 0.52                 | 2.0                    | 14                     | 44                     | 64                     | 2.62                 |
| ZZ05091            |                                   | 0.30                       | 0.010                  | 1.1                    | 0.88                 | 14                     | <10                   | 420                    | <0.5                   | 4                      | 0.48                 | 1.8                    | 13                     | 32                     | 141                    | 2.69                 |
| ZZ05092            |                                   | 0.34                       | 0.018                  | 0.5                    | 0.85                 | 21                     | <10                   | 260                    | <0.5                   | 4                      | 0.18                 | 1.3                    | 8                      | 35                     | 29                     | 2.11                 |
| ZZ05093            |                                   | 0.28                       | 0.009                  | 0.5                    | 1.33                 | 43                     | <10                   | 360                    | <0.5                   | 3                      | 0.09                 | 1.4                    | 9                      | 31                     | 26                     | 2.58                 |
| ZZ05094            |                                   | 0.24                       | 0.012                  | 0.9                    | 0.78                 | 30                     | <10                   | 460                    | <0.5                   | 4                      | 0.27                 | 1.3                    | 11                     | 23                     | 67                     | 2.46                 |
| ZZ05095            |                                   | 0.30                       | 0.008                  | 1.1                    | 0.81                 | 16                     | <10                   | 430                    | <0.5                   | 4                      | 0.86                 | 1.7                    | 9                      | 35                     | 35                     | 1.78                 |
| ZZ05096            |                                   | 0.16                       | 0.012                  | 0.6                    | 0.78                 | 120                    | <10                   | 400                    | <0.5                   | 5                      | 0.97                 | 10.0                   | 42                     | 27                     | 39                     | 5.38                 |
| ZZ05097            |                                   | 0.30                       | 0.007                  | 0.7                    | 0.67                 | 31                     | <10                   | 340                    | <0.5                   | 4                      | 1.12                 | 1.6                    | 30                     | 20                     | 33                     | 1.65                 |
| ZZ05098            |                                   | 0.22                       | 0.004                  | <0.2                   | 1.48                 | 16                     | <10                   | 320                    | <0.5                   | 3                      | 0.41                 | 1.8                    | 18                     | 86                     | 32                     | 3.23                 |
| ZZ05099            |                                   | 0.38                       | 0.005                  | 0.4                    | 1.55                 | 14                     | <10                   | 490                    | 0.5                    | 4                      | 0.64                 | 1.2                    | 17                     | 70                     | 43                     | 3.28                 |
| ZZ05100            |                                   | 0.28                       | 0.005                  | 0.4                    | 1.45                 | 13                     | <10                   | 490                    | 0.5                    | 4                      | 0.66                 | 1.7                    | 13                     | 57                     | 50                     | 2.70                 |
| ZZ05101            |                                   | 0.56                       | 0.025                  | 0.5                    | 1.32                 | 113                    | <10                   | 330                    | 0.5                    | 3                      | 0.72                 | 4.5                    | 18                     | 41                     | 81                     | 3.63                 |
| ZZ05102            |                                   | 0.22                       | 0.005                  | 0.4                    | 0.99                 | 25                     | <10                   | 220                    | <0.5                   | 4                      | 1.10                 | 1.7                    | 12                     | 26                     | 32                     | 2.65                 |
| ZZ05103            |                                   | 0.36                       | 0.026                  | 0.5                    | 1.64                 | 75                     | <10                   | 200                    | 0.5                    | 4                      | 0.72                 | 2.1                    | 21                     | 32                     | 60                     | 4.57                 |
| ZZ05104            |                                   | 0.24                       | 0.005                  | 0.4                    | 0.83                 | 25                     | <10                   | 160                    | <0.5                   | 4                      | 0.81                 | 2.0                    | 14                     | 21                     | 37                     | 3.14                 |
| ZZ05105            |                                   | 0.16                       | 0.006                  | 0.5                    | 0.77                 | 18                     | <10                   | 230                    | <0.5                   | 4                      | 1.17                 | 1.9                    | 10                     | 30                     | 51                     | 2.38                 |
| ZZ05106            |                                   | 0.28                       | 0.010                  | 0.5                    | 0.89                 | 26                     | <10                   | 230                    | <0.5                   | 3                      | 0.69                 | 2.1                    | 10                     | 33                     | 58                     | 2.22                 |
| ZZ05107            |                                   | 0.36                       | 0.009                  | 0.7                    | 1.00                 | 29                     | <10                   | 370                    | 0.5                    | 4                      | 0.82                 | 1.6                    | 15                     | 29                     | 61                     | 2.92                 |
| ZZ05108            |                                   | 0.18                       | 0.007                  | 0.4                    | 0.94                 | 11                     | <10                   | 200                    | <0.5                   | 5                      | 0.84                 | 1.2                    | 8                      | 22                     | 38                     | 1.63                 |
| ZZ05109            |                                   | 0.22                       | 0.009                  | 0.6                    | 0.75                 | 32                     | <10                   | 170                    | <0.5                   | 4                      | 1.43                 | 1.5                    | 8                      | 21                     | 42                     | 2.40                 |
| ZZ05110            |                                   | 0.16                       | 0.007                  | 0.6                    | 0.84                 | 34                     | <10                   | 180                    | <0.5                   | 4                      | 0.96                 | 1.5                    | 11                     | 30                     | 33                     | 2.63                 |
| ZZ05111            |                                   | 0.30                       | 0.010                  | 0.8                    | 0.98                 | 33                     | <10                   | 240                    | <0.5                   | 4                      | 0.72                 | 1.5                    | 12                     | 33                     | 61                     | 2.72                 |
| ZZ05112            |                                   | 0.16                       | 0.009                  | 0.6                    | 0.81                 | 17                     | <10                   | 320                    | <0.5                   | 3                      | 0.61                 | 1.7                    | 5                      | 32                     | 36                     | 1.30                 |
| ZZ05113            |                                   | 0.28                       | 0.010                  | 0.9                    | 0.87                 | 65                     | <10                   | 270                    | <0.5                   | 4                      | 0.61                 | 1.1                    | 8                      | 26                     | 26                     | 2.19                 |
| ZZ05114            |                                   | 0.26                       | 0.011                  | 0.6                    | 0.85                 | 24                     | <10                   | 290                    | <0.5                   | 4                      | 0.48                 | 1.3                    | 8                      | 32                     | 50                     | 1.99                 |
| ZZ05115            |                                   | 0.34                       | 0.009                  | 0.5                    | 0.93                 | 42                     | <10                   | 300                    | <0.5                   | 5                      | 0.71                 | 1.3                    | 10                     | 36                     | 37                     | 2.66                 |
| ZZ05116            |                                   | 0.28                       | 0.008                  | 0.6                    | 0.92                 | 48                     | <10                   | 220                    | <0.5                   | 5                      | 0.65                 | 2.1                    | 16                     | 32                     | 46                     | 3.53                 |



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Page: 3 - B  
Total # Pages: 6 (A - C)  
Finalized Date: 27- SEP- 2011  
Account: F

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**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05077            |                                   | 10                           | 1                           | 0.10                        | 10                           | 0.91                         | 602                         | 1                           | 0.03                         | 40                          | 1200                        | 10                          | 0.06                        | <2                          | 5                           | 71                          |
| ZZ05078            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.81                         | 418                         | 1                           | 0.02                         | 49                          | 1160                        | 10                          | 0.01                        | 2                           | 4                           | 44                          |
| ZZ05079            |                                   | 10                           | <1                          | 0.09                        | 10                           | 0.86                         | 741                         | 1                           | 0.02                         | 61                          | 1040                        | 11                          | 0.03                        | 2                           | 4                           | 53                          |
| ZZ05080            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.66                         | 412                         | 2                           | 0.02                         | 43                          | 1110                        | 11                          | 0.01                        | <2                          | 3                           | 39                          |
| ZZ05081            |                                   | <10                          | <1                          | 0.08                        | 10                           | 1.00                         | 596                         | 2                           | 0.01                         | 71                          | 890                         | 11                          | 0.01                        | 2                           | 4                           | 35                          |
| ZZ05082            |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.92                         | 477                         | 3                           | 0.02                         | 85                          | 1060                        | 13                          | 0.01                        | 2                           | 4                           | 39                          |
| ZZ05083            |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.04                         | 492                         | 2                           | 0.01                         | 81                          | 710                         | 11                          | <0.01                       | <2                          | 5                           | 28                          |
| ZZ05084            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.71                         | 476                         | 3                           | 0.02                         | 56                          | 1040                        | 11                          | 0.02                        | 3                           | 3                           | 44                          |
| ZZ05085            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.40                         | 392                         | 4                           | 0.01                         | 67                          | 1440                        | 12                          | 0.02                        | 5                           | 3                           | 53                          |
| ZZ05086            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.63                         | 383                         | 1                           | 0.02                         | 35                          | 940                         | 8                           | 0.02                        | 2                           | 3                           | 29                          |
| ZZ05087            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.39                         | 295                         | 3                           | 0.01                         | 46                          | 1280                        | 9                           | 0.01                        | 3                           | 2                           | 41                          |
| ZZ05088            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.41                         | 650                         | 2                           | 0.01                         | 40                          | 740                         | 3                           | 0.03                        | <2                          | 2                           | 47                          |
| ZZ05089            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.59                         | 292                         | 3                           | 0.01                         | 67                          | 1390                        | 12                          | 0.05                        | <2                          | 3                           | 79                          |
| ZZ05090            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.60                         | 362                         | 3                           | 0.01                         | 83                          | 1420                        | 11                          | 0.01                        | 4                           | 3                           | 74                          |
| ZZ05091            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.43                         | 530                         | 4                           | 0.01                         | 62                          | 1400                        | 12                          | 0.01                        | 4                           | 3                           | 100                         |
| ZZ05092            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.33                         | 218                         | 3                           | 0.01                         | 38                          | 900                         | 9                           | <0.01                       | 2                           | 2                           | 35                          |
| ZZ05093            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.33                         | 330                         | 5                           | 0.01                         | 27                          | 720                         | 18                          | 0.01                        | 4                           | 2                           | 43                          |
| ZZ05094            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.32                         | 236                         | 6                           | 0.01                         | 53                          | 1490                        | 11                          | 0.01                        | 4                           | 2                           | 61                          |
| ZZ05095            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.39                         | 325                         | 4                           | 0.01                         | 37                          | 1250                        | 10                          | 0.05                        | 3                           | 2                           | 106                         |
| ZZ05096            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.39                         | 1715                        | 16                          | 0.01                         | 87                          | 2710                        | 5                           | 0.10                        | 8                           | 2                           | 73                          |
| ZZ05097            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.25                         | 1265                        | 5                           | 0.02                         | 25                          | 1320                        | 7                           | 0.12                        | 3                           | 1                           | 76                          |
| ZZ05098            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.95                         | 580                         | 2                           | 0.01                         | 70                          | 710                         | 10                          | 0.01                        | 2                           | 4                           | 24                          |
| ZZ05099            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.90                         | 820                         | 2                           | 0.01                         | 53                          | 1060                        | 9                           | 0.02                        | 2                           | 4                           | 35                          |
| ZZ05100            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.78                         | 507                         | 1                           | 0.02                         | 67                          | 970                         | 7                           | 0.02                        | <2                          | 4                           | 39                          |
| ZZ05101            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.76                         | 806                         | 3                           | 0.01                         | 70                          | 1140                        | 16                          | 0.01                        | 3                           | 5                           | 43                          |
| ZZ05102            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.47                         | 717                         | 1                           | 0.02                         | 37                          | 920                         | 10                          | 0.05                        | <2                          | 3                           | 58                          |
| ZZ05103            |                                   | 10                           | <1                          | 0.08                        | 20                           | 0.85                         | 698                         | 3                           | 0.01                         | 55                          | 1700                        | 11                          | 0.01                        | <2                          | 7                           | 48                          |
| ZZ05104            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.38                         | 325                         | 1                           | 0.01                         | 37                          | 920                         | 5                           | 0.04                        | 2                           | 3                           | 36                          |
| ZZ05105            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.40                         | 535                         | 2                           | 0.02                         | 42                          | 1370                        | 9                           | 0.05                        | 2                           | 2                           | 54                          |
| ZZ05106            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.46                         | 195                         | 2                           | 0.01                         | 42                          | 1410                        | 11                          | 0.03                        | 4                           | 3                           | 41                          |
| ZZ05107            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.42                         | 701                         | 3                           | 0.01                         | 50                          | 1280                        | 13                          | 0.03                        | 2                           | 3                           | 44                          |
| ZZ05108            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.45                         | 195                         | 1                           | 0.01                         | 29                          | 920                         | 12                          | 0.05                        | 2                           | 3                           | 36                          |
| ZZ05109            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.41                         | 264                         | 1                           | 0.01                         | 32                          | 1280                        | 10                          | 0.07                        | 3                           | 2                           | 52                          |
| ZZ05110            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.43                         | 597                         | 3                           | 0.01                         | 38                          | 1490                        | 12                          | 0.04                        | 3                           | 2                           | 45                          |
| ZZ05111            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.44                         | 429                         | 3                           | 0.01                         | 47                          | 1510                        | 14                          | 0.02                        | 5                           | 3                           | 50                          |
| ZZ05112            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.30                         | 171                         | 1                           | 0.01                         | 26                          | 1180                        | 14                          | 0.05                        | 3                           | 2                           | 49                          |
| ZZ05113            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.33                         | 216                         | 3                           | 0.01                         | 23                          | 1360                        | 17                          | 0.02                        | 3                           | 2                           | 59                          |
| ZZ05114            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.39                         | 240                         | 4                           | 0.01                         | 30                          | 1300                        | 9                           | 0.01                        | 4                           | 2                           | 51                          |
| ZZ05115            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.46                         | 729                         | 5                           | 0.01                         | 32                          | 1290                        | 9                           | 0.02                        | 2                           | 2                           | 49                          |
| ZZ05116            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.50                         | 498                         | 4                           | 0.02                         | 55                          | 1290                        | 9                           | 0.02                        | 2                           | 3                           | 40                          |



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Page: 3 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 27- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05077            |                                   | <20       | 0.07      | <10       | <10       | 57        | <10       | 103       |
| ZZ05078            |                                   | <20       | 0.09      | <10       | <10       | 51        | <10       | 104       |
| ZZ05079            |                                   | <20       | 0.08      | <10       | <10       | 50        | <10       | 121       |
| ZZ05080            |                                   | <20       | 0.07      | <10       | <10       | 50        | <10       | 105       |
| ZZ05081            |                                   | <20       | 0.06      | <10       | <10       | 47        | <10       | 106       |
| ZZ05082            |                                   | <20       | 0.05      | <10       | <10       | 45        | <10       | 186       |
| ZZ05083            |                                   | <20       | 0.07      | <10       | <10       | 54        | <10       | 111       |
| ZZ05084            |                                   | <20       | 0.03      | <10       | <10       | 43        | <10       | 146       |
| ZZ05085            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 241       |
| ZZ05086            |                                   | <20       | 0.05      | <10       | <10       | 36        | <10       | 98        |
| ZZ05087            |                                   | <20       | 0.02      | <10       | <10       | 21        | <10       | 168       |
| ZZ05088            |                                   | <20       | 0.01      | <10       | <10       | 11        | <10       | 152       |
| ZZ05089            |                                   | <20       | 0.02      | <10       | <10       | 46        | <10       | 152       |
| ZZ05090            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 257       |
| ZZ05091            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 196       |
| ZZ05092            |                                   | <20       | 0.03      | <10       | <10       | 38        | <10       | 117       |
| ZZ05093            |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       | 114       |
| ZZ05094            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 207       |
| ZZ05095            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 113       |
| ZZ05096            |                                   | <20       | 0.01      | <10       | 10        | 34        | <10       | 510       |
| ZZ05097            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 71        |
| ZZ05098            |                                   | <20       | 0.05      | <10       | <10       | 50        | <10       | 118       |
| ZZ05099            |                                   | <20       | 0.05      | <10       | <10       | 50        | <10       | 82        |
| ZZ05100            |                                   | <20       | 0.05      | <10       | <10       | 44        | <10       | 105       |
| ZZ05101            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 492       |
| ZZ05102            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 124       |
| ZZ05103            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 147       |
| ZZ05104            |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       | 134       |
| ZZ05105            |                                   | <20       | 0.02      | <10       | <10       | 22        | <10       | 140       |
| ZZ05106            |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       | 244       |
| ZZ05107            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 121       |
| ZZ05108            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 110       |
| ZZ05109            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 109       |
| ZZ05110            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 132       |
| ZZ05111            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 135       |
| ZZ05112            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 79        |
| ZZ05113            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 124       |
| ZZ05114            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 125       |
| ZZ05115            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       | 118       |
| ZZ05116            |                                   | <20       | 0.03      | <10       | <10       | 33        | <10       | 186       |



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Page: 4 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 27- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05117            |                                   | 0.30                       | 0.008                  | 0.5                    | 0.87                 | 37                     | <10                   | 350                    | <0.5                   | <2                     | 0.69                 | <0.5                   | 10                     | 27                     | 43                     | 2.68                 |
| ZZ05118            |                                   | 0.40                       | 0.011                  | 0.4                    | 0.96                 | 22                     | <10                   | 260                    | <0.5                   | <2                     | 0.40                 | 0.8                    | 7                      | 31                     | 44                     | 2.40                 |
| ZZ05119            |                                   | 0.16                       | 0.009                  | 0.3                    | 0.83                 | 20                     | <10                   | 270                    | <0.5                   | <2                     | 0.75                 | 1.5                    | 7                      | 24                     | 51                     | 1.79                 |
| ZZ05120            |                                   | 0.20                       | 0.012                  | 0.7                    | 0.97                 | 27                     | <10                   | 300                    | 0.5                    | <2                     | 0.83                 | 1.0                    | 12                     | 27                     | 202                    | 2.48                 |
| ZZ05121            |                                   | 0.40                       | 0.010                  | 0.5                    | 1.30                 | 17                     | <10                   | 400                    | 0.5                    | <2                     | 0.69                 | 1.0                    | 11                     | 43                     | 84                     | 2.88                 |
| ZZ05122            |                                   | 0.26                       | 0.009                  | 0.5                    | 0.89                 | 18                     | <10                   | 280                    | <0.5                   | <2                     | 0.62                 | 0.7                    | 9                      | 25                     | 41                     | 2.17                 |
| ZZ05123            |                                   | 0.32                       | 0.005                  | 0.4                    | 1.32                 | 17                     | <10                   | 360                    | <0.5                   | <2                     | 0.99                 | 0.5                    | 14                     | 46                     | 48                     | 2.63                 |
| ZZ05124            |                                   | 0.44                       | 0.004                  | 0.2                    | 1.45                 | 12                     | <10                   | 410                    | <0.5                   | <2                     | 0.82                 | <0.5                   | 13                     | 51                     | 39                     | 3.03                 |
| ZZ05125            |                                   | 0.20                       | 0.004                  | 0.2                    | 1.27                 | 9                      | <10                   | 300                    | <0.5                   | <2                     | 0.60                 | 0.5                    | 12                     | 42                     | 29                     | 2.42                 |
| ZZ05126            |                                   | 0.24                       | 0.005                  | 0.2                    | 1.54                 | 11                     | <10                   | 320                    | <0.5                   | <2                     | 0.65                 | <0.5                   | 16                     | 57                     | 22                     | 3.06                 |
| ZZ05127            |                                   | 0.30                       | 0.004                  | 0.2                    | 1.51                 | 7                      | <10                   | 360                    | <0.5                   | <2                     | 1.00                 | <0.5                   | 12                     | 60                     | 31                     | 2.75                 |
| ZZ05128            |                                   | 0.34                       | 0.003                  | <0.2                   | 1.44                 | 10                     | <10                   | 290                    | <0.5                   | <2                     | 0.61                 | <0.5                   | 12                     | 59                     | 25                     | 2.98                 |
| ZZ05129            |                                   | 0.18                       | 0.005                  | 0.5                    | 1.22                 | 19                     | <10                   | 370                    | <0.5                   | <2                     | 0.79                 | 0.7                    | 9                      | 42                     | 58                     | 2.29                 |
| ZZ05130            |                                   | 0.24                       | 0.004                  | 0.3                    | 1.43                 | 16                     | <10                   | 480                    | <0.5                   | <2                     | 1.24                 | 0.9                    | 10                     | 54                     | 51                     | 3.43                 |
| ZZ05131            |                                   | 0.20                       | 0.008                  | 0.4                    | 1.10                 | 21                     | <10                   | 510                    | <0.5                   | <2                     | 0.76                 | 0.8                    | 12                     | 42                     | 54                     | 2.79                 |
| ZZ05132            |                                   | 0.38                       | 0.004                  | <0.2                   | 1.43                 | 13                     | <10                   | 400                    | <0.5                   | <2                     | 0.59                 | <0.5                   | 14                     | 65                     | 29                     | 2.99                 |
| ZZ05133            |                                   | 0.24                       | 0.005                  | 0.2                    | 1.47                 | 11                     | <10                   | 410                    | <0.5                   | <2                     | 0.66                 | <0.5                   | 12                     | 63                     | 32                     | 2.85                 |
| ZZ05134            |                                   | 0.22                       | 0.004                  | 0.2                    | 1.52                 | 11                     | <10                   | 410                    | 0.5                    | <2                     | 0.74                 | 0.5                    | 16                     | 71                     | 43                     | 2.82                 |
| ZZ05135            |                                   | 0.42                       | 0.005                  | <0.2                   | 1.48                 | 11                     | <10                   | 430                    | 0.5                    | <2                     | 0.63                 | 0.6                    | 16                     | 69                     | 37                     | 3.04                 |
| ZZ05136            |                                   | 0.40                       | 0.012                  | 0.5                    | 1.04                 | 27                     | <10                   | 380                    | <0.5                   | <2                     | 0.42                 | 0.8                    | 11                     | 29                     | 48                     | 2.46                 |
| ZZ05137            |                                   | 0.52                       | 0.013                  | 1.0                    | 0.91                 | 42                     | <10                   | 520                    | <0.5                   | <2                     | 0.47                 | 4.5                    | 12                     | 29                     | 98                     | 2.80                 |
| ZZ05138            |                                   | 0.44                       | 0.014                  | 0.9                    | 0.81                 | 48                     | <10                   | 410                    | <0.5                   | <2                     | 0.83                 | 5.1                    | 12                     | 20                     | 112                    | 3.12                 |
| ZZ05139            |                                   | 0.22                       | 0.010                  | 0.7                    | 0.76                 | 16                     | <10                   | 280                    | <0.5                   | <2                     | 0.33                 | 1.3                    | 3                      | 19                     | 64                     | 1.18                 |
| ZZ05140            |                                   | 0.44                       | 0.009                  | 0.6                    | 1.29                 | 29                     | <10                   | 480                    | 0.5                    | <2                     | 0.62                 | 2.3                    | 14                     | 48                     | 73                     | 3.07                 |
| ZZ05141            |                                   | 0.32                       | 0.007                  | 0.6                    | 1.33                 | 18                     | <10                   | 470                    | 0.5                    | <2                     | 0.62                 | 1.6                    | 14                     | 56                     | 55                     | 2.80                 |
| ZZ05142            |                                   | 0.32                       | 0.009                  | 0.8                    | 0.77                 | 24                     | <10                   | 260                    | <0.5                   | <2                     | 1.43                 | 1.8                    | 13                     | 21                     | 70                     | 2.63                 |
| ZZ05143            |                                   | 0.24                       | 0.012                  | 0.8                    | 0.78                 | 15                     | <10                   | 250                    | <0.5                   | <2                     | 2.69                 | 1.1                    | 10                     | 11                     | 78                     | 2.59                 |
| ZZ05144            |                                   | 0.22                       | 0.009                  | 1.0                    | 0.87                 | 59                     | <10                   | 560                    | <0.5                   | <2                     | 1.22                 | 2.5                    | 8                      | 19                     | 33                     | 2.02                 |
| ZZ05145            |                                   | 0.30                       | 0.012                  | 1.5                    | 0.73                 | 28                     | <10                   | 1150                   | <0.5                   | <2                     | 0.65                 | 0.6                    | 6                      | 20                     | 25                     | 1.77                 |
| ZZ05146            |                                   | 0.34                       | 0.013                  | 0.7                    | 0.91                 | 39                     | <10                   | 350                    | <0.5                   | <2                     | 0.55                 | 3.2                    | 16                     | 20                     | 75                     | 3.90                 |
| ZZ05147            |                                   | 0.24                       | 0.010                  | 1.4                    | 0.87                 | 21                     | <10                   | 720                    | <0.5                   | <2                     | 0.65                 | 0.8                    | 8                      | 25                     | 40                     | 1.92                 |
| ZZ05148            |                                   | 0.22                       | 0.007                  | 0.5                    | 1.02                 | 27                     | <10                   | 350                    | <0.5                   | <2                     | 0.66                 | 0.6                    | 9                      | 28                     | 35                     | 2.66                 |
| ZZ05149            |                                   | 0.26                       | 0.008                  | 0.8                    | 1.14                 | 36                     | <10                   | 630                    | <0.5                   | <2                     | 0.77                 | 2.9                    | 24                     | 33                     | 65                     | 3.25                 |
| ZZ05150            |                                   | 0.48                       | 0.013                  | 1.2                    | 0.91                 | 35                     | <10                   | 430                    | <0.5                   | <2                     | 0.49                 | 4.2                    | 14                     | 21                     | 111                    | 2.59                 |
| ZZ05151            |                                   | 0.16                       | 0.021                  | 0.5                    | 0.77                 | 70                     | <10                   | 450                    | <0.5                   | <2                     | 0.49                 | 1.3                    | 9                      | 21                     | 79                     | 2.31                 |
| ZZ05152            |                                   | 0.08                       | 0.037                  | 1.3                    | 0.46                 | 84                     | <10                   | 310                    | <0.5                   | <2                     | 0.42                 | 1.9                    | 5                      | 9                      | 91                     | 1.53                 |
| ZZ05153            |                                   | 0.16                       | 0.025                  | 2.2                    | 0.88                 | 83                     | <10                   | 1390                   | <0.5                   | <2                     | 0.31                 | 1.6                    | 8                      | 24                     | 93                     | 2.05                 |
| ZZ05154            |                                   | 0.22                       | 0.050                  | 1.5                    | 1.12                 | 435                    | <10                   | 700                    | 0.6                    | <2                     | 0.64                 | 2.3                    | 14                     | 32                     | 137                    | 4.00                 |
| ZZ05155            |                                   | 0.12                       | 0.040                  | 0.8                    | 1.04                 | 324                    | <10                   | 530                    | 0.5                    | <2                     | 1.01                 | 1.2                    | 13                     | 27                     | 86                     | 3.34                 |
| ZZ05156            |                                   | 0.12                       | 0.025                  | 1.1                    | 1.08                 | 106                    | <10                   | 470                    | <0.5                   | <2                     | 0.92                 | 0.9                    | 17                     | 29                     | 81                     | 3.26                 |



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Page: 4 - B  
Total # Pages: 6 (A - C)  
Finalized Date: 27- SEP- 2011  
Account: F

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**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05117            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.32                         | 465                         | 4                           | 0.01                         | 38                          | 1090                        | 16                          | 0.02                        | 3                           | 2                           | 56                          |
| ZZ05118            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.46                         | 231                         | 3                           | 0.01                         | 33                          | 1020                        | 15                          | <0.01                       | 3                           | 3                           | 48                          |
| ZZ05119            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.39                         | 282                         | 1                           | 0.01                         | 37                          | 1100                        | 13                          | 0.04                        | 2                           | 2                           | 64                          |
| ZZ05120            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.40                         | 735                         | 4                           | 0.01                         | 56                          | 1230                        | 16                          | 0.06                        | 3                           | 3                           | 75                          |
| ZZ05121            |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.66                         | 413                         | 2                           | 0.01                         | 55                          | 1050                        | 16                          | 0.01                        | 3                           | 4                           | 51                          |
| ZZ05122            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.39                         | 639                         | 3                           | 0.01                         | 36                          | 1070                        | 12                          | 0.01                        | 3                           | 2                           | 51                          |
| ZZ05123            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.67                         | 891                         | 4                           | 0.01                         | 49                          | 1100                        | 10                          | 0.03                        | 3                           | 4                           | 51                          |
| ZZ05124            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.83                         | 524                         | 1                           | 0.01                         | 49                          | 950                         | 12                          | 0.02                        | 3                           | 4                           | 44                          |
| ZZ05125            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.68                         | 785                         | 1                           | 0.02                         | 42                          | 820                         | 8                           | 0.01                        | 2                           | 4                           | 34                          |
| ZZ05126            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.92                         | 931                         | 3                           | 0.01                         | 41                          | 900                         | 7                           | 0.01                        | <2                          | 4                           | 33                          |
| ZZ05127            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.91                         | 438                         | 2                           | 0.02                         | 46                          | 880                         | 10                          | 0.02                        | <2                          | 4                           | 53                          |
| ZZ05128            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.94                         | 455                         | 1                           | 0.01                         | 48                          | 720                         | 8                           | <0.01                       | <2                          | 4                           | 29                          |
| ZZ05129            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.66                         | 375                         | 1                           | 0.01                         | 46                          | 950                         | 10                          | 0.03                        | 3                           | 4                           | 51                          |
| ZZ05130            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.89                         | 427                         | 3                           | 0.01                         | 49                          | 870                         | 13                          | 0.06                        | 3                           | 5                           | 66                          |
| ZZ05131            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.60                         | 401                         | 4                           | 0.02                         | 48                          | 1190                        | 11                          | 0.02                        | 3                           | 3                           | 51                          |
| ZZ05132            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.96                         | 796                         | 1                           | 0.01                         | 62                          | 920                         | 11                          | <0.01                       | <2                          | 4                           | 33                          |
| ZZ05133            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.95                         | 364                         | 1                           | 0.02                         | 57                          | 810                         | 11                          | 0.02                        | <2                          | 4                           | 35                          |
| ZZ05134            |                                   | <10                          | <1                          | 0.09                        | 20                           | 1.01                         | 531                         | 1                           | 0.01                         | 76                          | 870                         | 12                          | 0.01                        | <2                          | 5                           | 35                          |
| ZZ05135            |                                   | <10                          | <1                          | 0.10                        | 20                           | 1.04                         | 694                         | 1                           | 0.01                         | 91                          | 920                         | 12                          | 0.01                        | <2                          | 5                           | 34                          |
| ZZ05136            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.50                         | 314                         | 3                           | 0.01                         | 45                          | 1100                        | 15                          | 0.01                        | 3                           | 3                           | 41                          |
| ZZ05137            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.46                         | 704                         | 6                           | 0.01                         | 88                          | 1350                        | 16                          | <0.01                       | 7                           | 3                           | 67                          |
| ZZ05138            |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.46                         | 479                         | 8                           | 0.01                         | 97                          | 1490                        | 18                          | <0.01                       | 9                           | 3                           | 73                          |
| ZZ05139            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.31                         | 65                          | 2                           | 0.01                         | 31                          | 1430                        | 16                          | 0.01                        | 4                           | 2                           | 75                          |
| ZZ05140            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.83                         | 682                         | 4                           | 0.02                         | 97                          | 1410                        | 16                          | 0.01                        | 3                           | 4                           | 70                          |
| ZZ05141            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.76                         | 454                         | 3                           | 0.01                         | 85                          | 1490                        | 13                          | 0.01                        | 3                           | 4                           | 77                          |
| ZZ05142            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.54                         | 475                         | 5                           | 0.01                         | 61                          | 1260                        | 12                          | 0.02                        | 3                           | 3                           | 92                          |
| ZZ05143            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.99                         | 662                         | 3                           | 0.01                         | 48                          | 1040                        | 15                          | 0.02                        | 4                           | 2                           | 219                         |
| ZZ05144            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.40                         | 592                         | 3                           | 0.01                         | 29                          | 840                         | 18                          | 0.05                        | 3                           | 2                           | 146                         |
| ZZ05145            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.26                         | 290                         | 5                           | 0.01                         | 21                          | 1080                        | 13                          | 0.05                        | 6                           | 3                           | 154                         |
| ZZ05146            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.39                         | 2430                        | 14                          | 0.01                         | 161                         | 2150                        | 15                          | 0.02                        | 7                           | 3                           | 89                          |
| ZZ05147            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.34                         | 475                         | 7                           | 0.02                         | 40                          | 1360                        | 18                          | 0.04                        | 6                           | 2                           | 124                         |
| ZZ05148            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.52                         | 1120                        | 5                           | 0.01                         | 64                          | 1480                        | 14                          | 0.04                        | 2                           | 2                           | 69                          |
| ZZ05149            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.55                         | 3560                        | 6                           | 0.01                         | 152                         | 1480                        | 16                          | 0.07                        | 4                           | 3                           | 77                          |
| ZZ05150            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.42                         | 187                         | 5                           | 0.01                         | 95                          | 1700                        | 18                          | 0.01                        | 6                           | 3                           | 96                          |
| ZZ05151            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.30                         | 384                         | 5                           | 0.01                         | 47                          | 2060                        | 12                          | <0.01                       | 7                           | 2                           | 76                          |
| ZZ05152            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.10                         | 217                         | 3                           | 0.02                         | 33                          | 1880                        | 8                           | 0.03                        | 5                           | 1                           | 73                          |
| ZZ05153            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.22                         | 338                         | 6                           | 0.01                         | 43                          | 1480                        | 21                          | 0.06                        | 7                           | 2                           | 111                         |
| ZZ05154            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.34                         | 519                         | 7                           | 0.01                         | 69                          | 2090                        | 20                          | 0.02                        | 10                          | 4                           | 73                          |
| ZZ05155            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.33                         | 676                         | 6                           | 0.01                         | 68                          | 1600                        | 18                          | 0.04                        | 8                           | 4                           | 83                          |
| ZZ05156            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.35                         | 469                         | 7                           | 0.02                         | 60                          | 1500                        | 16                          | 0.06                        | 9                           | 3                           | 75                          |



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Page: 4 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 27- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| ZZ05117            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       |
| ZZ05118            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       |
| ZZ05119            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       |
| ZZ05120            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       |
| ZZ05121            |                                   | <20       | 0.04      | <10       | <10       | 45        | <10       |
| ZZ05122            |                                   | <20       | 0.02      | <10       | <10       | 31        | <10       |
| ZZ05123            |                                   | <20       | 0.04      | <10       | 10        | 62        | <10       |
| ZZ05124            |                                   | <20       | 0.07      | <10       | <10       | 47        | <10       |
| ZZ05125            |                                   | <20       | 0.06      | <10       | <10       | 39        | <10       |
| ZZ05126            |                                   | <20       | 0.11      | <10       | <10       | 51        | <10       |
| ZZ05127            |                                   | <20       | 0.07      | <10       | <10       | 46        | <10       |
| ZZ05128            |                                   | <20       | 0.11      | <10       | <10       | 48        | <10       |
| ZZ05129            |                                   | <20       | 0.05      | <10       | <10       | 51        | <10       |
| ZZ05130            |                                   | <20       | 0.07      | <10       | <10       | 48        | <10       |
| ZZ05131            |                                   | <20       | 0.03      | <10       | <10       | 36        | <10       |
| ZZ05132            |                                   | <20       | 0.06      | <10       | <10       | 49        | <10       |
| ZZ05133            |                                   | <20       | 0.06      | <10       | <10       | 48        | <10       |
| ZZ05134            |                                   | <20       | 0.06      | <10       | <10       | 49        | <10       |
| ZZ05135            |                                   | <20       | 0.06      | <10       | <10       | 50        | <10       |
| ZZ05136            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       |
| ZZ05137            |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       |
| ZZ05138            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| ZZ05139            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       |
| ZZ05140            |                                   | <20       | 0.04      | <10       | <10       | 49        | <10       |
| ZZ05141            |                                   | <20       | 0.04      | <10       | <10       | 51        | <10       |
| ZZ05142            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       |
| ZZ05143            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       |
| ZZ05144            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       |
| ZZ05145            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       |
| ZZ05146            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       |
| ZZ05147            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       |
| ZZ05148            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       |
| ZZ05149            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       |
| ZZ05150            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       |
| ZZ05151            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       |
| ZZ05152            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       |
| ZZ05153            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       |
| ZZ05154            |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       |
| ZZ05155            |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       |
| ZZ05156            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       |



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Page: 5 - A  
Total # Pages: 6 (A - C)  
Finalized Date: 27- SEP- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg<br>0.02 | Au- ICP21<br>Au<br>ppm<br>0.001 | ME- ICP41<br>Ag<br>ppm<br>0.2 | ME- ICP41<br>Al<br>%<br>0.01 | ME- ICP41<br>As<br>ppm<br>2 | ME- ICP41<br>B<br>ppm<br>10 | ME- ICP41<br>Ba<br>ppm<br>10 | ME- ICP41<br>Be<br>ppm<br>0.5 | ME- ICP41<br>Bi<br>ppm<br>2 | ME- ICP41<br>Ca<br>%<br>0.01 | ME- ICP41<br>Cd<br>ppm<br>0.5 | ME- ICP41<br>Co<br>ppm<br>1 | ME- ICP41<br>Cr<br>ppm<br>1 | ME- ICP41<br>Cu<br>ppm<br>1 | ME- ICP41<br>Fe<br>%<br>0.01 |
|--------------------|-----------------------------------|------------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| ZZ05157            |                                   | 0.20                               | 0.010                           | 0.7                           | 1.37                         | 105                         | <10                         | 290                          | <0.5                          | <2                          | 0.60                         | <0.5                          | 15                          | 54                          | 50                          | 3.95                         |
| ZZ05158            |                                   | 0.18                               | 0.012                           | 0.5                           | 1.25                         | 87                          | <10                         | 210                          | <0.5                          | <2                          | 0.86                         | 0.5                           | 16                          | 39                          | 55                          | 4.03                         |
| ZZ05159            |                                   | 0.04                               | 0.010                           | 0.2                           | 1.21                         | 37                          | <10                         | 190                          | <0.5                          | <2                          | 0.51                         | <0.5                          | 23                          | 41                          | 52                          | 4.54                         |
| ZZ05160            |                                   | 0.06                               | 0.009                           | 0.4                           | 1.35                         | 62                          | <10                         | 390                          | 0.5                           | <2                          | 1.45                         | <0.5                          | 19                          | 49                          | 49                          | 4.29                         |
| ZZ05161            |                                   | 0.18                               | 0.065                           | 1.0                           | 0.51                         | 386                         | <10                         | 140                          | <0.5                          | <2                          | 1.14                         | <0.5                          | 29                          | 9                           | 179                         | 6.26                         |
| ZZ05162            |                                   | 0.14                               | 0.003                           | 0.3                           | 0.90                         | 28                          | <10                         | 160                          | <0.5                          | <2                          | 0.62                         | <0.5                          | 16                          | 21                          | 40                          | 3.71                         |
| ZZ05163            |                                   | 0.14                               | 0.008                           | 0.4                           | 1.02                         | 31                          | <10                         | 220                          | 0.5                           | <2                          | 0.95                         | <0.5                          | 15                          | 32                          | 47                          | 3.46                         |
| ZZ05164            |                                   | 0.20                               | 0.007                           | 0.5                           | 0.73                         | 26                          | <10                         | 250                          | <0.5                          | <2                          | 2.13                         | 0.8                           | 15                          | 22                          | 56                          | 3.60                         |
| ZZ05165            |                                   | 0.42                               | 0.016                           | 0.9                           | 1.05                         | 70                          | <10                         | 450                          | 0.5                           | <2                          | 0.67                         | 1.3                           | 13                          | 33                          | 65                          | 2.83                         |
| ZZ05166            |                                   | 0.42                               | 0.025                           | 0.8                           | 1.01                         | 142                         | <10                         | 440                          | <0.5                          | <2                          | 0.54                         | 1.1                           | 10                          | 34                          | 55                          | 2.55                         |
| ZZ05167            |                                   | 0.44                               | 0.004                           | <0.2                          | 1.34                         | 38                          | <10                         | 360                          | <0.5                          | <2                          | 0.11                         | 0.5                           | 10                          | 72                          | 25                          | 3.31                         |
| ZZ05168            |                                   | 0.34                               | 0.009                           | 0.3                           | 1.51                         | 24                          | <10                         | 340                          | 0.6                           | <2                          | 1.11                         | 0.7                           | 12                          | 62                          | 38                          | 2.61                         |
| ZZ05169            |                                   | 0.46                               | 0.010                           | 0.3                           | 1.54                         | 20                          | <10                         | 350                          | 0.6                           | <2                          | 1.44                         | 0.5                           | 11                          | 47                          | 52                          | 2.70                         |
| ZZ05170            |                                   | 0.54                               | 0.009                           | 0.3                           | 1.47                         | 13                          | <10                         | 330                          | 0.6                           | <2                          | 1.54                         | 0.7                           | 10                          | 47                          | 35                          | 2.09                         |
| ZZ05171            |                                   | 0.36                               | 0.010                           | 0.4                           | 1.25                         | 16                          | <10                         | 340                          | 0.5                           | <2                          | 1.12                         | <0.5                          | 9                           | 50                          | 44                          | 2.13                         |
| ZZ05172            |                                   | 0.52                               | 0.007                           | 0.4                           | 1.15                         | 14                          | <10                         | 380                          | <0.5                          | <2                          | 0.76                         | <0.5                          | 9                           | 63                          | 29                          | 2.08                         |
| ZZ05173            |                                   | 0.42                               | 0.074                           | 0.3                           | 1.22                         | 11                          | <10                         | 300                          | 0.5                           | <2                          | 1.14                         | <0.5                          | 12                          | 32                          | 76                          | 2.89                         |
| ZZ05174            |                                   | 0.34                               | 0.009                           | 0.4                           | 1.31                         | 21                          | <10                         | 380                          | 0.5                           | <2                          | 1.67                         | <0.5                          | 10                          | 44                          | 31                          | 2.22                         |
| ZZ05175            |                                   | 0.26                               | 0.003                           | 0.2                           | 1.66                         | 27                          | <10                         | 590                          | <0.5                          | <2                          | 0.57                         | 0.9                           | 12                          | 51                          | 28                          | 2.62                         |
| ZZ05176            |                                   | 0.36                               | 0.004                           | <0.2                          | 1.71                         | 37                          | <10                         | 570                          | 0.6                           | <2                          | 0.15                         | <0.5                          | 12                          | 63                          | 31                          | 2.77                         |
| ZZ05177            |                                   | 0.46                               | 0.010                           | 0.2                           | 1.80                         | 16                          | <10                         | 300                          | 0.7                           | <2                          | 1.76                         | <0.5                          | 12                          | 45                          | 31                          | 2.92                         |
| ZZ05178            |                                   | 0.36                               | 0.006                           | 0.3                           | 1.78                         | 11                          | <10                         | 560                          | 0.7                           | <2                          | 3.61                         | <0.5                          | 12                          | 38                          | 52                          | 2.69                         |
| ZZ05179            |                                   | 0.56                               | 0.007                           | 0.2                           | 1.80                         | 18                          | <10                         | 510                          | 0.6                           | <2                          | 0.58                         | 1.0                           | 11                          | 51                          | 20                          | 2.35                         |
| ZZ05180            |                                   | 0.32                               | 0.007                           | 0.5                           | 1.30                         | 14                          | <10                         | 380                          | 0.5                           | <2                          | 1.48                         | 0.7                           | 9                           | 38                          | 58                          | 2.11                         |
| ZZ05181            |                                   | 0.40                               | 0.012                           | 0.6                           | 1.22                         | 23                          | <10                         | 250                          | <0.5                          | <2                          | 0.63                         | 0.7                           | 9                           | 37                          | 45                          | 2.16                         |
| ZZ05182            |                                   | 0.36                               | 0.012                           | 0.3                           | 1.27                         | 38                          | <10                         | 280                          | <0.5                          | <2                          | 0.57                         | <0.5                          | 11                          | 35                          | 37                          | 2.43                         |
| ZZ05183            |                                   | 0.78                               | 0.016                           | 0.6                           | 1.24                         | 30                          | <10                         | 300                          | <0.5                          | <2                          | 0.53                         | 0.6                           | 10                          | 42                          | 62                          | 2.52                         |
| ZZ05184            |                                   | 0.38                               | 0.014                           | 0.4                           | 1.16                         | 44                          | <10                         | 300                          | <0.5                          | <2                          | 0.53                         | <0.5                          | 11                          | 39                          | 41                          | 2.73                         |
| ZZ05185            |                                   | 0.44                               | 0.018                           | 0.5                           | 0.94                         | 30                          | <10                         | 290                          | <0.5                          | <2                          | 0.91                         | 1.3                           | 5                           | 31                          | 50                          | 1.59                         |
| ZZ05186            |                                   | 0.34                               | 0.008                           | 0.4                           | 0.87                         | 17                          | <10                         | 290                          | <0.5                          | <2                          | 0.95                         | <0.5                          | 4                           | 28                          | 15                          | 1.41                         |
| ZZ05187            |                                   | 0.50                               | 0.012                           | 0.4                           | 1.05                         | 48                          | <10                         | 360                          | <0.5                          | <2                          | 0.74                         | 0.9                           | 13                          | 46                          | 57                          | 2.81                         |
| ZZ05188            |                                   | 0.38                               | 0.014                           | 0.5                           | 0.98                         | 132                         | <10                         | 290                          | <0.5                          | <2                          | 0.98                         | 0.9                           | 18                          | 44                          | 63                          | 4.01                         |
| ZZ05189            |                                   | 0.52                               | 0.022                           | 0.7                           | 0.81                         | 107                         | <10                         | 250                          | <0.5                          | 3                           | 0.72                         | 2.1                           | 19                          | 30                          | 81                          | 3.63                         |
| ZZ05190            |                                   | 0.68                               | 0.051                           | 0.7                           | 0.80                         | 322                         | <10                         | 300                          | <0.5                          | 3                           | 1.37                         | 2.1                           | 14                          | 25                          | 66                          | 3.42                         |
| ZZ05191            |                                   | 0.34                               | 0.008                           | 0.3                           | 1.38                         | 14                          | <10                         | 240                          | 0.7                           | 5                           | 1.72                         | 1.7                           | 12                          | 40                          | 48                          | 2.65                         |
| ZZ05192            |                                   | 0.34                               | 0.012                           | 0.5                           | 1.29                         | 17                          | <10                         | 530                          | 0.8                           | 3                           | 2.80                         | 1.4                           | 11                          | 41                          | 86                          | 2.39                         |
| ZZ05193            |                                   | 0.44                               | 0.009                           | 0.4                           | 1.38                         | 14                          | <10                         | 330                          | 0.7                           | 5                           | 2.69                         | 2.0                           | 14                          | 31                          | 42                          | 2.68                         |
| ZZ05194            |                                   | 0.42                               | 0.011                           | <0.2                          | 2.02                         | 34                          | <10                         | 480                          | 0.7                           | 4                           | 0.16                         | 1.7                           | 15                          | 67                          | 26                          | 3.38                         |
| ZZ05195            |                                   | 0.42                               | 0.005                           | 0.2                           | 2.22                         | 18                          | <10                         | 640                          | 0.9                           | 4                           | 0.71                         | 2.0                           | 18                          | 62                          | 23                          | 3.03                         |
| ZZ05196            |                                   | 0.62                               | 0.012                           | 0.4                           | 1.27                         | 25                          | <10                         | 270                          | 0.6                           | 4                           | 0.84                         | 1.6                           | 16                          | 57                          | 46                          | 2.96                         |



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Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05157            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.50                         | 340                         | 12                          | 0.01                         | 64                          | 1300                        | 17                          | 0.02                        | 5                           | 4                           | 43                          |
| ZZ05158            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.53                         | 543                         | 2                           | 0.01                         | 73                          | 1130                        | 16                          | 0.03                        | 3                           | 4                           | 43                          |
| ZZ05159            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.49                         | 795                         | 1                           | 0.01                         | 93                          | 800                         | 14                          | 0.02                        | 3                           | 5                           | 29                          |
| ZZ05160            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.59                         | 487                         | 1                           | 0.02                         | 92                          | 1050                        | 13                          | 0.04                        | 5                           | 5                           | 55                          |
| ZZ05161            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.15                         | 742                         | 8                           | 0.01                         | 68                          | 2490                        | 12                          | 0.07                        | 6                           | 6                           | 46                          |
| ZZ05162            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.40                         | 284                         | 1                           | 0.01                         | 53                          | 530                         | 10                          | 0.02                        | 2                           | 4                           | 19                          |
| ZZ05163            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.49                         | 583                         | 1                           | 0.01                         | 56                          | 860                         | 12                          | 0.03                        | 3                           | 4                           | 33                          |
| ZZ05164            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.49                         | 601                         | 2                           | 0.01                         | 53                          | 1200                        | 11                          | 0.02                        | 3                           | 4                           | 47                          |
| ZZ05165            |                                   | <10                          | 1                           | 0.10                        | 20                           | 0.41                         | 1285                        | 6                           | 0.01                         | 78                          | 1300                        | 20                          | 0.04                        | 7                           | 3                           | 58                          |
| ZZ05166            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.37                         | 1395                        | 6                           | 0.01                         | 47                          | 1580                        | 17                          | 0.03                        | 6                           | 3                           | 58                          |
| ZZ05167            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.54                         | 233                         | 4                           | 0.01                         | 67                          | 360                         | 14                          | 0.01                        | 3                           | 2                           | 18                          |
| ZZ05168            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.73                         | 454                         | 1                           | 0.01                         | 77                          | 510                         | 14                          | 0.02                        | 3                           | 5                           | 35                          |
| ZZ05169            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.70                         | 480                         | 1                           | 0.02                         | 68                          | 580                         | 14                          | 0.03                        | 2                           | 4                           | 37                          |
| ZZ05170            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.80                         | 712                         | <1                          | 0.01                         | 67                          | 890                         | 11                          | 0.01                        | <2                          | 3                           | 38                          |
| ZZ05171            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.68                         | 372                         | 1                           | 0.01                         | 62                          | 1020                        | 13                          | 0.03                        | 4                           | 3                           | 45                          |
| ZZ05172            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.64                         | 446                         | 1                           | 0.02                         | 78                          | 770                         | 10                          | 0.02                        | <2                          | 3                           | 38                          |
| ZZ05173            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.55                         | 644                         | 1                           | 0.02                         | 48                          | 1200                        | 10                          | 0.03                        | 2                           | 5                           | 35                          |
| ZZ05174            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.62                         | 480                         | 1                           | 0.02                         | 58                          | 930                         | 13                          | 0.04                        | 2                           | 3                           | 43                          |
| ZZ05175            |                                   | 10                           | <1                          | 0.07                        | 20                           | 0.33                         | 807                         | 2                           | 0.01                         | 38                          | 470                         | 17                          | 0.01                        | 2                           | 2                           | 32                          |
| ZZ05176            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.52                         | 362                         | 2                           | 0.01                         | 65                          | 390                         | 13                          | 0.01                        | 3                           | 3                           | 24                          |
| ZZ05177            |                                   | 10                           | <1                          | 0.09                        | 20                           | 0.79                         | 505                         | 1                           | 0.02                         | 58                          | 870                         | 12                          | 0.03                        | 2                           | 5                           | 40                          |
| ZZ05178            |                                   | 10                           | 1                           | 0.09                        | 20                           | 1.03                         | 559                         | 1                           | 0.02                         | 53                          | 1000                        | 12                          | 0.02                        | <2                          | 5                           | 91                          |
| ZZ05179            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.50                         | 509                         | 1                           | 0.01                         | 52                          | 520                         | 11                          | 0.01                        | <2                          | 3                           | 28                          |
| ZZ05180            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.63                         | 397                         | 1                           | 0.02                         | 57                          | 730                         | 14                          | 0.04                        | 2                           | 3                           | 49                          |
| ZZ05181            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.68                         | 378                         | 2                           | 0.02                         | 55                          | 770                         | 14                          | 0.01                        | 3                           | 3                           | 54                          |
| ZZ05182            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.50                         | 675                         | 2                           | 0.01                         | 46                          | 980                         | 15                          | 0.02                        | 2                           | 3                           | 52                          |
| ZZ05183            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.65                         | 301                         | 2                           | 0.02                         | 65                          | 1000                        | 12                          | 0.02                        | 3                           | 4                           | 48                          |
| ZZ05184            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.56                         | 604                         | 2                           | 0.01                         | 50                          | 1130                        | 11                          | 0.02                        | 5                           | 4                           | 41                          |
| ZZ05185            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.41                         | 181                         | <1                          | 0.01                         | 40                          | 1210                        | 13                          | 0.07                        | 3                           | 3                           | 55                          |
| ZZ05186            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.36                         | 155                         | 1                           | 0.02                         | 19                          | 1130                        | 11                          | 0.05                        | <2                          | 2                           | 59                          |
| ZZ05187            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.76                         | 452                         | 3                           | 0.01                         | 79                          | 1130                        | 15                          | 0.01                        | 5                           | 3                           | 49                          |
| ZZ05188            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.42                         | 340                         | 2                           | 0.01                         | 98                          | 1520                        | 14                          | 0.04                        | 6                           | 5                           | 55                          |
| ZZ05189            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.38                         | 427                         | 3                           | 0.01                         | 82                          | 1600                        | 12                          | 0.01                        | 7                           | 4                           | 54                          |
| ZZ05190            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.32                         | 451                         | 2                           | 0.01                         | 69                          | 1240                        | 11                          | 0.04                        | 5                           | 4                           | 61                          |
| ZZ05191            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.82                         | 397                         | <1                          | 0.01                         | 43                          | 1570                        | 7                           | 0.03                        | <2                          | 4                           | 37                          |
| ZZ05192            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.61                         | 585                         | 1                           | 0.02                         | 59                          | 1110                        | 9                           | 0.06                        | <2                          | 3                           | 61                          |
| ZZ05193            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.85                         | 794                         | <1                          | 0.01                         | 39                          | 1320                        | 8                           | 0.05                        | <2                          | 4                           | 62                          |
| ZZ05194            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.67                         | 320                         | 2                           | 0.01                         | 77                          | 380                         | 11                          | <0.01                       | 3                           | 4                           | 20                          |
| ZZ05195            |                                   | 10                           | 1                           | 0.08                        | 20                           | 0.61                         | 486                         | 1                           | 0.01                         | 84                          | 1410                        | 10                          | 0.01                        | <2                          | 5                           | 27                          |
| ZZ05196            |                                   | <10                          | <1                          | 0.12                        | 20                           | 0.92                         | 325                         | 2                           | 0.01                         | 86                          | 860                         | 14                          | <0.01                       | 4                           | 5                           | 38                          |



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Page: 5 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 27- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05157            |                                   | <20       | 0.01      | <10       | <10       | 51        | <10       | 125       |
| ZZ05158            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 104       |
| ZZ05159            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 84        |
| ZZ05160            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 83        |
| ZZ05161            |                                   | <20       | <0.01     | <10       | <10       | 36        | <10       | 86        |
| ZZ05162            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 75        |
| ZZ05163            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 99        |
| ZZ05164            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 101       |
| ZZ05165            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 184       |
| ZZ05166            |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 160       |
| ZZ05167            |                                   | <20       | 0.01      | <10       | <10       | 70        | <10       | 106       |
| ZZ05168            |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       | 87        |
| ZZ05169            |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       | 91        |
| ZZ05170            |                                   | <20       | 0.01      | <10       | <10       | 41        | <10       | 84        |
| ZZ05171            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 87        |
| ZZ05172            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 86        |
| ZZ05173            |                                   | <20       | 0.03      | <10       | <10       | 39        | <10       | 94        |
| ZZ05174            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 103       |
| ZZ05175            |                                   | <20       | 0.01      | <10       | <10       | 62        | <10       | 150       |
| ZZ05176            |                                   | <20       | 0.01      | <10       | <10       | 50        | <10       | 118       |
| ZZ05177            |                                   | <20       | 0.01      | <10       | <10       | 54        | <10       | 86        |
| ZZ05178            |                                   | <20       | 0.03      | <10       | <10       | 59        | <10       | 83        |
| ZZ05179            |                                   | <20       | 0.01      | <10       | <10       | 55        | <10       | 108       |
| ZZ05180            |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 84        |
| ZZ05181            |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 135       |
| ZZ05182            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 103       |
| ZZ05183            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 120       |
| ZZ05184            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 111       |
| ZZ05185            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 119       |
| ZZ05186            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 74        |
| ZZ05187            |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 166       |
| ZZ05188            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 159       |
| ZZ05189            |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 164       |
| ZZ05190            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 140       |
| ZZ05191            |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 100       |
| ZZ05192            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 80        |
| ZZ05193            |                                   | <20       | 0.01      | <10       | <10       | 56        | <10       | 96        |
| ZZ05194            |                                   | <20       | 0.01      | <10       | <10       | 61        | <10       | 136       |
| ZZ05195            |                                   | <20       | 0.01      | <10       | <10       | 60        | <10       | 94        |
| ZZ05196            |                                   | <20       | 0.02      | <10       | <10       | 50        | <10       | 140       |



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Page: 6 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 27- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05197            |                                   | 0.48                       | 0.018                  | 0.5                    | 1.16                 | 33                     | <10                   | 370                    | 0.5                    | 4                      | 1.06                 | 1.4                    | 13                     | 49                     | 51                     | 2.81                 |
| ZZ05198            |                                   | 0.54                       | 0.011                  | 0.5                    | 1.09                 | 39                     | <10                   | 320                    | 0.5                    | 4                      | 1.13                 | 1.6                    | 14                     | 48                     | 45                     | 2.91                 |
| ZZ05199            |                                   | 0.30                       | 0.018                  | 0.7                    | 0.80                 | 108                    | <10                   | 270                    | <0.5                   | 4                      | 1.00                 | 2.0                    | 10                     | 35                     | 45                     | 3.07                 |
| ZZ05200            |                                   | 0.34                       | 0.028                  | 0.4                    | 0.74                 | 159                    | <10                   | 250                    | <0.5                   | 4                      | 0.80                 | 1.5                    | 13                     | 33                     | 31                     | 2.60                 |
| ZZ05201            |                                   | 0.40                       | 0.013                  | 1.1                    | 0.88                 | 46                     | <10                   | 420                    | <0.5                   | 4                      | 0.46                 | 5.3                    | 15                     | 34                     | 98                     | 3.13                 |
| ZZ05202            |                                   | 0.30                       | 0.011                  | 0.9                    | 0.58                 | 39                     | <10                   | 330                    | <0.5                   | 5                      | 1.06                 | 3.6                    | 15                     | 17                     | 83                     | 2.61                 |
| ZZ05203            |                                   | 0.26                       | 0.006                  | 0.2                    | 1.29                 | 25                     | <10                   | 430                    | <0.5                   | 4                      | 0.63                 | 1.8                    | 17                     | 52                     | 34                     | 3.70                 |
| ZZ05204            |                                   | 0.22                       | 0.004                  | 0.3                    | 1.21                 | 9                      | <10                   | 560                    | 0.5                    | 3                      | 1.35                 | 2.2                    | 11                     | 66                     | 43                     | 2.03                 |
| ZZ05205            |                                   | 0.34                       | 0.007                  | 0.3                    | 1.33                 | 19                     | <10                   | 490                    | <0.5                   | 4                      | 0.82                 | 1.5                    | 11                     | 63                     | 35                     | 2.24                 |
| ZZ05206            |                                   | 0.26                       | 0.010                  | 0.3                    | 1.52                 | 15                     | <10                   | 500                    | 0.5                    | 4                      | 0.59                 | 2.0                    | 18                     | 68                     | 52                     | 3.20                 |
| ZZ05207            |                                   | 0.32                       | 0.006                  | 0.3                    | 1.46                 | 12                     | <10                   | 520                    | 0.5                    | 3                      | 0.81                 | 1.8                    | 15                     | 73                     | 39                     | 2.89                 |
| ZZ05208            |                                   | 0.26                       | 0.007                  | 0.4                    | 1.29                 | 15                     | <10                   | 470                    | <0.5                   | 5                      | 0.85                 | 1.9                    | 18                     | 66                     | 36                     | 3.26                 |
| ZZ05209            |                                   | 0.26                       | 0.006                  | 0.3                    | 1.44                 | 9                      | <10                   | 500                    | 0.5                    | 5                      | 0.67                 | 2.0                    | 17                     | 74                     | 37                     | 2.74                 |
| ZZ05210            |                                   | 0.32                       | 0.009                  | 0.3                    | 1.60                 | 18                     | <10                   | 460                    | 0.5                    | 4                      | 0.70                 | 1.8                    | 19                     | 75                     | 74                     | 3.40                 |



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Page: 6 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 27- SEP- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Ga        | Hg        | K         | La        | Mg        | Mn        | Mo        | Na        | Ni        | P         | Pb        | S         | Sb        | Sc        |
|                    |                                   | ppm<br>10 | ppm<br>1  | %<br>0.01 | ppm<br>10 | %<br>0.01 | ppm<br>5  | ppm<br>1  | %<br>0.01 | ppm<br>1  | ppm<br>10 | ppm<br>2  | %<br>0.01 | ppm<br>2  | ppm<br>1  |
| ZZ05197            |                                   | <10       | <1        | 0.09      | 20        | 0.68      | 370       | 2         | 0.01      | 72        | 980       | 12        | 0.02      | 2         | 4         |
| ZZ05198            |                                   | <10       | <1        | 0.07      | 10        | 0.82      | 452       | 3         | 0.02      | 73        | 950       | 12        | 0.02      | 3         | 3         |
| ZZ05199            |                                   | <10       | <1        | 0.05      | 10        | 0.41      | 312       | 3         | 0.01      | 41        | 1400      | 12        | 0.08      | 6         | 3         |
| ZZ05200            |                                   | <10       | 1         | 0.05      | 10        | 0.45      | 654       | 2         | 0.01      | 48        | 1610      | 7         | 0.05      | 5         | 2         |
| ZZ05201            |                                   | <10       | 1         | 0.08      | 20        | 0.48      | 562       | 6         | 0.01      | 105       | 1490      | 13        | 0.01      | 6         | 3         |
| ZZ05202            |                                   | <10       | <1        | 0.08      | 10        | 0.31      | 633       | 4         | 0.01      | 64        | 1430      | 11        | 0.03      | 5         | 2         |
| ZZ05203            |                                   | <10       | <1        | 0.09      | 20        | 0.92      | 493       | 2         | 0.01      | 56        | 1150      | 10        | 0.03      | <2        | 5         |
| ZZ05204            |                                   | <10       | <1        | 0.07      | 10        | 0.74      | 503       | 1         | 0.01      | 59        | 860       | 9         | 0.17      | <2        | 4         |
| ZZ05205            |                                   | <10       | <1        | 0.05      | 10        | 0.73      | 269       | <1        | 0.01      | 49        | 1000      | 10        | 0.06      | 2         | 4         |
| ZZ05206            |                                   | <10       | <1        | 0.08      | 20        | 1.02      | 372       | <1        | 0.01      | 66        | 970       | 9         | 0.02      | <2        | 5         |
| ZZ05207            |                                   | <10       | <1        | 0.07      | 10        | 0.83      | 377       | 1         | 0.01      | 65        | 810       | 11        | 0.05      | <2        | 5         |
| ZZ05208            |                                   | <10       | <1        | 0.09      | 10        | 0.94      | 566       | 2         | 0.01      | 72        | 950       | 9         | 0.05      | 2         | 4         |
| ZZ05209            |                                   | <10       | <1        | 0.09      | 10        | 0.99      | 604       | 1         | 0.02      | 72        | 890       | 11        | 0.04      | <2        | 5         |
| ZZ05210            |                                   | <10       | <1        | 0.09      | 20        | 1.13      | 519       | 2         | 0.01      | 89        | 890       | 12        | 0.02      | 2         | 6         |



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**Page: 6 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 27- SEP- 2011  
 Account: F**

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159783**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Tl        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05197            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 115       |
| ZZ05198            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 118       |
| ZZ05199            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 146       |
| ZZ05200            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 109       |
| ZZ05201            |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 454       |
| ZZ05202            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 320       |
| ZZ05203            |                                   | <20       | 0.09      | <10       | <10       | 48        | <10       | 156       |
| ZZ05204            |                                   | <20       | 0.05      | <10       | 10        | 40        | <10       | 98        |
| ZZ05205            |                                   | <20       | 0.04      | <10       | <10       | 46        | <10       | 104       |
| ZZ05206            |                                   | <20       | 0.08      | <10       | <10       | 57        | <10       | 117       |
| ZZ05207            |                                   | <20       | 0.05      | <10       | <10       | 50        | <10       | 111       |
| ZZ05208            |                                   | <20       | 0.07      | <10       | <10       | 49        | <10       | 103       |
| ZZ05209            |                                   | <20       | 0.07      | <10       | <10       | 52        | <10       | 110       |
| ZZ05210            |                                   | <20       | 0.07      | <10       | <10       | 55        | <10       | 130       |



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Page: 1  
Finalized Date: 3- OCT- 2011  
Account: F

**CERTIFICATE WH11159784**

Project: Wolverine- String

P.O. No.:

This report is for 160 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 3- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05251            |                                   | 0.26                       | 0.004                  | <0.2                   | 1.17                 | 10                     | <10                   | 210                    | <0.5                   | <2                     | 0.51                 | <0.5                   | 11                     | 74                     | 24                     | 2.53                 |
| ZZ05252            |                                   | 0.24                       | 0.003                  | 0.3                    | 1.70                 | 7                      | <10                   | 530                    | 0.5                    | <2                     | 0.72                 | <0.5                   | 14                     | 82                     | 28                     | 3.01                 |
| ZZ05253            |                                   | 0.14                       | 0.002                  | 0.5                    | 1.40                 | 7                      | <10                   | 660                    | 0.5                    | <2                     | 1.14                 | 2.7                    | 17                     | 61                     | 46                     | 2.80                 |
| ZZ05254            |                                   | 0.38                       | 0.003                  | 0.2                    | 1.48                 | 12                     | <10                   | 740                    | <0.5                   | <2                     | 0.48                 | 1.8                    | 20                     | 75                     | 28                     | 3.26                 |
| ZZ05255            |                                   | 0.30                       | 0.003                  | <0.2                   | 0.98                 | 16                     | <10                   | 920                    | <0.5                   | <2                     | 0.38                 | 0.6                    | 13                     | 47                     | 42                     | 2.60                 |
| ZZ05256            |                                   | 0.20                       | 0.007                  | 1.2                    | 1.49                 | 21                     | <10                   | 1240                   | 0.8                    | <2                     | 0.82                 | 1.8                    | 12                     | 51                     | 108                    | 3.07                 |
| ZZ05257            |                                   | 0.18                       | 0.015                  | 1.8                    | 1.17                 | 22                     | <10                   | 510                    | 0.5                    | <2                     | 0.50                 | <0.5                   | 6                      | 28                     | 135                    | 2.00                 |
| ZZ05258            |                                   | 0.34                       | 0.012                  | 1.2                    | 1.00                 | 33                     | <10                   | 440                    | <0.5                   | <2                     | 0.46                 | 2.4                    | 11                     | 35                     | 178                    | 2.74                 |
| ZZ05259            |                                   | 0.22                       | 0.006                  | 0.4                    | 1.10                 | 15                     | <10                   | 270                    | <0.5                   | <2                     | 0.49                 | 0.5                    | 10                     | 54                     | 42                     | 2.55                 |
| ZZ05260            |                                   | 0.22                       | 0.009                  | 1.5                    | 1.03                 | 26                     | <10                   | 360                    | <0.5                   | <2                     | 0.51                 | 2.8                    | 13                     | 47                     | 87                     | 2.60                 |
| ZZ05261            |                                   | 0.14                       | <0.001                 | 0.3                    | 0.44                 | 17                     | <10                   | 90                     | <0.5                   | <2                     | 0.14                 | 2.0                    | 6                      | 27                     | 24                     | 1.57                 |
| ZZ05262            |                                   | 0.28                       | 0.012                  | 0.6                    | 0.66                 | 43                     | <10                   | 490                    | <0.5                   | <2                     | 0.22                 | <0.5                   | 5                      | 22                     | 16                     | 1.67                 |
| ZZ05263            |                                   | 0.16                       | 0.005                  | 0.6                    | 0.83                 | 34                     | <10                   | 400                    | <0.5                   | <2                     | 0.54                 | 1.9                    | 10                     | 36                     | 41                     | 2.22                 |
| ZZ05264            |                                   | 0.38                       | 0.043                  | 0.6                    | 1.27                 | 14                     | <10                   | 460                    | <0.5                   | <2                     | 0.50                 | 1.1                    | 14                     | 62                     | 52                     | 2.69                 |
| ZZ05265            |                                   | 0.30                       | 0.008                  | 0.8                    | 0.90                 | 31                     | <10                   | 440                    | <0.5                   | <2                     | 0.39                 | 1.7                    | 11                     | 37                     | 64                     | 2.55                 |
| ZZ05266            |                                   | 0.36                       | 0.005                  | 0.5                    | 0.80                 | 25                     | <10                   | 250                    | <0.5                   | <2                     | 0.29                 | 1.0                    | 11                     | 30                     | 51                     | 2.31                 |
| ZZ05267            |                                   | 0.24                       | 0.005                  | 0.5                    | 0.61                 | 31                     | <10                   | 300                    | <0.5                   | <2                     | 0.32                 | 1.5                    | 8                      | 26                     | 59                     | 2.06                 |
| ZZ05268            |                                   | 0.26                       | 0.011                  | 1.0                    | 0.82                 | 33                     | <10                   | 400                    | <0.5                   | <2                     | 0.35                 | 4.1                    | 12                     | 34                     | 81                     | 2.57                 |
| ZZ05269            |                                   | 0.30                       | 0.004                  | 0.5                    | 1.07                 | 27                     | <10                   | 350                    | <0.5                   | <2                     | 0.58                 | 1.4                    | 14                     | 52                     | 52                     | 3.05                 |
| ZZ05270            |                                   | 0.20                       | 0.004                  | 0.6                    | 1.21                 | 34                     | <10                   | 650                    | <0.5                   | <2                     | 0.92                 | 30.6                   | 21                     | 52                     | 77                     | 3.00                 |
| ZZ05271            |                                   | 0.32                       | 0.005                  | 0.8                    | 1.16                 | 24                     | <10                   | 740                    | <0.5                   | <2                     | 0.54                 | 1.4                    | 13                     | 54                     | 70                     | 2.53                 |
| ZZ05272            |                                   | 0.26                       | 0.001                  | 0.3                    | 1.04                 | 6                      | <10                   | 350                    | <0.5                   | <2                     | 0.91                 | 0.6                    | 13                     | 58                     | 31                     | 2.20                 |
| ZZ05273            |                                   | 0.38                       | 0.001                  | 0.4                    | 1.29                 | 7                      | <10                   | 420                    | <0.5                   | <2                     | 0.43                 | <0.5                   | 11                     | 65                     | 28                     | 2.49                 |
| ZZ05274            |                                   | 0.36                       | 0.001                  | 0.3                    | 1.32                 | 8                      | <10                   | 430                    | <0.5                   | <2                     | 0.64                 | <0.5                   | 13                     | 70                     | 42                     | 2.90                 |
| ZZ05275            |                                   | 0.30                       | 0.003                  | 0.4                    | 1.41                 | 14                     | <10                   | 390                    | <0.5                   | <2                     | 0.70                 | 0.5                    | 17                     | 71                     | 52                     | 3.11                 |
| ZZ05276            |                                   | 0.28                       | 0.002                  | 0.3                    | 1.45                 | 10                     | <10                   | 410                    | <0.5                   | <2                     | 0.65                 | <0.5                   | 16                     | 71                     | 30                     | 2.90                 |
| ZZ05277            |                                   | 0.30                       | 0.003                  | 0.6                    | 1.56                 | 12                     | <10                   | 390                    | 0.5                    | <2                     | 0.79                 | 0.8                    | 18                     | 74                     | 37                     | 3.21                 |
| ZZ05278            |                                   | 0.46                       | 0.002                  | 0.5                    | 1.60                 | 10                     | <10                   | 460                    | 0.5                    | <2                     | 0.69                 | <0.5                   | 15                     | 68                     | 37                     | 2.92                 |
| ZZ05279            |                                   | 0.18                       | 0.005                  | 0.9                    | 1.43                 | 14                     | <10                   | 460                    | 0.6                    | <2                     | 0.71                 | <0.5                   | 14                     | 65                     | 93                     | 2.86                 |
| ZZ05280            |                                   | 0.22                       | 0.013                  | 0.3                    | 1.20                 | 8                      | <10                   | 300                    | <0.5                   | <2                     | 0.53                 | <0.5                   | 12                     | 70                     | 46                     | 2.47                 |
| ZZ05281            |                                   | 0.16                       | 0.001                  | 0.2                    | 1.06                 | 5                      | <10                   | 150                    | <0.5                   | <2                     | 0.16                 | <0.5                   | 7                      | 47                     | 13                     | 2.02                 |
| ZZ05282            |                                   | 0.38                       | <0.001                 | 0.3                    | 1.22                 | 8                      | <10                   | 300                    | <0.5                   | <2                     | 0.60                 | 0.6                    | 14                     | 69                     | 18                     | 2.53                 |
| ZZ05283            |                                   | 0.26                       | 0.003                  | 0.4                    | 1.33                 | 8                      | <10                   | 330                    | <0.5                   | <2                     | 1.27                 | 0.5                    | 14                     | 61                     | 36                     | 2.63                 |
| ZZ05284            |                                   | 0.40                       | 0.030                  | 0.6                    | 0.92                 | 27                     | <10                   | 290                    | 0.5                    | <2                     | 0.39                 | 0.8                    | 18                     | 34                     | 80                     | 4.13                 |
| ZZ05285            |                                   | 0.50                       | 0.007                  | 0.4                    | 1.26                 | 20                     | <10                   | 360                    | <0.5                   | <2                     | 0.46                 | 0.5                    | 13                     | 38                     | 67                     | 3.02                 |
| ZZ05286            |                                   | 0.28                       | 0.001                  | 0.3                    | 1.16                 | 11                     | <10                   | 290                    | <0.5                   | <2                     | 0.38                 | <0.5                   | 10                     | 37                     | 39                     | 2.57                 |
| ZZ05287            |                                   | 0.34                       | 0.004                  | 0.4                    | 0.81                 | 16                     | <10                   | 260                    | <0.5                   | <2                     | 0.47                 | <0.5                   | 8                      | 23                     | 55                     | 2.10                 |
| ZZ05288            |                                   | 0.24                       | 0.003                  | 0.6                    | 0.66                 | 30                     | <10                   | 120                    | <0.5                   | <2                     | 0.75                 | 0.7                    | 17                     | 10                     | 68                     | 3.65                 |
| ZZ05289            |                                   | 0.36                       | 0.060                  | 0.5                    | 1.09                 | 12                     | <10                   | 260                    | <0.5                   | <2                     | 0.95                 | 0.9                    | 11                     | 26                     | 49                     | 2.38                 |
| ZZ05290            |                                   | 0.24                       | 0.005                  | 0.3                    | 1.12                 | 13                     | <10                   | 280                    | 0.5                    | <2                     | 0.55                 | 0.5                    | 12                     | 42                     | 49                     | 2.41                 |



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Page: 2 - B  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 3- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05251            |                                   | <10                          | <1                          | 0.06                        | 20                           | 1.06                         | 403                         | 1                           | 0.01                         | 76                          | 880                         | 12                          | 0.02                        | <2                          | 3                           | 28                          |
| ZZ05252            |                                   | 10                           | <1                          | 0.07                        | 20                           | 0.99                         | 730                         | 1                           | 0.02                         | 63                          | 980                         | 13                          | 0.05                        | <2                          | 5                           | 35                          |
| ZZ05253            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.69                         | 2560                        | 3                           | 0.02                         | 86                          | 1100                        | 11                          | 0.09                        | <2                          | 4                           | 52                          |
| ZZ05254            |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.00                         | 1865                        | 4                           | 0.01                         | 67                          | 1120                        | 11                          | 0.03                        | <2                          | 5                           | 28                          |
| ZZ05255            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.67                         | 471                         | 2                           | 0.01                         | 57                          | 1250                        | 11                          | 0.02                        | 2                           | 3                           | 36                          |
| ZZ05256            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.68                         | 570                         | 3                           | 0.01                         | 105                         | 1330                        | 14                          | 0.05                        | 4                           | 5                           | 74                          |
| ZZ05257            |                                   | <10                          | <1                          | 0.11                        | 10                           | 0.26                         | 183                         | 3                           | 0.03                         | 78                          | 660                         | 16                          | 0.05                        | 4                           | 2                           | 68                          |
| ZZ05258            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.48                         | 429                         | 7                           | 0.01                         | 93                          | 1360                        | 16                          | 0.02                        | 5                           | 3                           | 52                          |
| ZZ05259            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.78                         | 242                         | 3                           | 0.01                         | 48                          | 1030                        | 11                          | 0.02                        | 2                           | 3                           | 36                          |
| ZZ05260            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.68                         | 427                         | 6                           | 0.01                         | 60                          | 1270                        | 14                          | 0.02                        | 6                           | 3                           | 71                          |
| ZZ05261            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.18                         | 264                         | 10                          | 0.01                         | 32                          | 1080                        | 10                          | 0.02                        | 3                           | <1                          | 37                          |
| ZZ05262            |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.28                         | 159                         | 4                           | 0.01                         | 19                          | 880                         | 19                          | 0.02                        | 4                           | 2                           | 54                          |
| ZZ05263            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.47                         | 408                         | 6                           | 0.02                         | 64                          | 1260                        | 14                          | 0.04                        | 4                           | 2                           | 59                          |
| ZZ05264            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.79                         | 530                         | 2                           | 0.01                         | 85                          | 1070                        | 13                          | 0.02                        | 4                           | 4                           | 61                          |
| ZZ05265            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.46                         | 436                         | 4                           | 0.01                         | 76                          | 1500                        | 17                          | 0.01                        | 5                           | 3                           | 74                          |
| ZZ05266            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.42                         | 378                         | 5                           | 0.01                         | 64                          | 1280                        | 13                          | 0.01                        | 4                           | 2                           | 41                          |
| ZZ05267            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.36                         | 311                         | 4                           | 0.01                         | 53                          | 1550                        | 11                          | 0.01                        | 3                           | 2                           | 56                          |
| ZZ05268            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.43                         | 289                         | 6                           | 0.01                         | 77                          | 1250                        | 15                          | 0.01                        | 6                           | 3                           | 48                          |
| ZZ05269            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.74                         | 708                         | 3                           | 0.01                         | 77                          | 1320                        | 13                          | 0.04                        | 3                           | 3                           | 47                          |
| ZZ05270            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.74                         | 1015                        | 8                           | 0.02                         | 165                         | 1090                        | 12                          | 0.09                        | 16                          | 4                           | 49                          |
| ZZ05271            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.77                         | 951                         | 4                           | 0.01                         | 85                          | 970                         | 15                          | 0.02                        | 9                           | 4                           | 40                          |
| ZZ05272            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.90                         | 582                         | 1                           | 0.02                         | 67                          | 900                         | 13                          | 0.03                        | <2                          | 3                           | 43                          |
| ZZ05273            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.85                         | 361                         | 1                           | 0.01                         | 54                          | 680                         | 11                          | 0.02                        | 2                           | 3                           | 24                          |
| ZZ05274            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.92                         | 440                         | 1                           | 0.01                         | 66                          | 800                         | 10                          | 0.03                        | <2                          | 5                           | 40                          |
| ZZ05275            |                                   | <10                          | <1                          | 0.08                        | 20                           | 1.00                         | 590                         | 1                           | 0.01                         | 81                          | 960                         | 13                          | 0.03                        | 2                           | 5                           | 37                          |
| ZZ05276            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.90                         | 662                         | 1                           | 0.02                         | 62                          | 820                         | 12                          | 0.03                        | <2                          | 4                           | 39                          |
| ZZ05277            |                                   | <10                          | 1                           | 0.07                        | 10                           | 1.02                         | 612                         | 1                           | 0.01                         | 66                          | 880                         | 12                          | 0.04                        | <2                          | 5                           | 42                          |
| ZZ05278            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.96                         | 582                         | 1                           | 0.01                         | 66                          | 720                         | 13                          | 0.03                        | 2                           | 5                           | 39                          |
| ZZ05279            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.74                         | 631                         | 2                           | 0.02                         | 84                          | 920                         | 13                          | 0.03                        | 2                           | 5                           | 43                          |
| ZZ05280            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.95                         | 389                         | <1                          | 0.01                         | 88                          | 940                         | 11                          | 0.01                        | <2                          | 4                           | 28                          |
| ZZ05281            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.45                         | 211                         | 1                           | 0.01                         | 34                          | 300                         | 9                           | 0.01                        | <2                          | 2                           | 11                          |
| ZZ05282            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.81                         | 732                         | 1                           | <0.01                        | 43                          | 850                         | 9                           | 0.02                        | <2                          | 3                           | 32                          |
| ZZ05283            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.91                         | 1050                        | 3                           | 0.01                         | 72                          | 840                         | 11                          | 0.05                        | <2                          | 4                           | 57                          |
| ZZ05284            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.46                         | 932                         | 3                           | 0.01                         | 94                          | 1080                        | 12                          | 0.02                        | 4                           | 3                           | 29                          |
| ZZ05285            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.65                         | 836                         | 2                           | 0.01                         | 59                          | 980                         | 12                          | 0.01                        | 2                           | 4                           | 34                          |
| ZZ05286            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.72                         | 380                         | 1                           | 0.01                         | 39                          | 960                         | 8                           | 0.01                        | <2                          | 3                           | 28                          |
| ZZ05287            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.33                         | 216                         | 2                           | 0.01                         | 30                          | 1020                        | 11                          | 0.02                        | 3                           | 2                           | 48                          |
| ZZ05288            |                                   | <10                          | <1                          | 0.04                        | 30                           | 0.41                         | 541                         | 4                           | 0.01                         | 40                          | 760                         | 25                          | 0.07                        | 2                           | 2                           | 34                          |
| ZZ05289            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.55                         | 362                         | 1                           | 0.02                         | 40                          | 640                         | 10                          | 0.04                        | 2                           | 3                           | 55                          |
| ZZ05290            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.63                         | 481                         | 2                           | 0.01                         | 52                          | 1050                        | 11                          | 0.02                        | 2                           | 3                           | 42                          |



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Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 3- OCT- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| ZZ05251            |                                   | <20       | 0.06      | <10       | <10       | 43        | <10       |
| ZZ05252            |                                   | <20       | 0.04      | <10       | <10       | 55        | <10       |
| ZZ05253            |                                   | <20       | 0.03      | <10       | <10       | 46        | <10       |
| ZZ05254            |                                   | <20       | 0.06      | <10       | <10       | 55        | <10       |
| ZZ05255            |                                   | <20       | 0.06      | <10       | <10       | 36        | <10       |
| ZZ05256            |                                   | <20       | 0.03      | <10       | <10       | 45        | <10       |
| ZZ05257            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       |
| ZZ05258            |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       |
| ZZ05259            |                                   | <20       | 0.04      | <10       | <10       | 39        | <10       |
| ZZ05260            |                                   | <20       | 0.03      | <10       | <10       | 45        | <10       |
| ZZ05261            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       |
| ZZ05262            |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       |
| ZZ05263            |                                   | <20       | 0.02      | <10       | 10        | 35        | <10       |
| ZZ05264            |                                   | <20       | 0.03      | <10       | <10       | 47        | <10       |
| ZZ05265            |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       |
| ZZ05266            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       |
| ZZ05267            |                                   | <20       | 0.02      | <10       | <10       | 30        | <10       |
| ZZ05268            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| ZZ05269            |                                   | <20       | 0.03      | <10       | <10       | 40        | <10       |
| ZZ05270            |                                   | <20       | 0.04      | <10       | 10        | 67        | <10       |
| ZZ05271            |                                   | <20       | 0.04      | <10       | <10       | 55        | <10       |
| ZZ05272            |                                   | <20       | 0.05      | <10       | <10       | 36        | <10       |
| ZZ05273            |                                   | <20       | 0.05      | <10       | <10       | 43        | <10       |
| ZZ05274            |                                   | <20       | 0.06      | <10       | <10       | 46        | <10       |
| ZZ05275            |                                   | <20       | 0.07      | <10       | <10       | 50        | <10       |
| ZZ05276            |                                   | <20       | 0.05      | <10       | <10       | 48        | <10       |
| ZZ05277            |                                   | <20       | 0.06      | <10       | <10       | 55        | <10       |
| ZZ05278            |                                   | <20       | 0.06      | <10       | <10       | 52        | <10       |
| ZZ05279            |                                   | <20       | 0.03      | <10       | <10       | 48        | <10       |
| ZZ05280            |                                   | <20       | 0.06      | <10       | <10       | 42        | <10       |
| ZZ05281            |                                   | <20       | 0.05      | <10       | <10       | 39        | <10       |
| ZZ05282            |                                   | <20       | 0.04      | <10       | <10       | 44        | <10       |
| ZZ05283            |                                   | <20       | 0.04      | <10       | <10       | 42        | <10       |
| ZZ05284            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       |
| ZZ05285            |                                   | <20       | 0.06      | <10       | <10       | 43        | <10       |
| ZZ05286            |                                   | <20       | 0.07      | <10       | <10       | 37        | <10       |
| ZZ05287            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       |
| ZZ05288            |                                   | <20       | 0.01      | <10       | <10       | 12        | <10       |
| ZZ05289            |                                   | <20       | 0.02      | <10       | <10       | 28        | <10       |
| ZZ05290            |                                   | <20       | 0.04      | <10       | <10       | 38        | <10       |



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Page: 3 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 3- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05291            |                                   | 0.32                       | 0.004                  | 0.6                    | 0.91                 | 16                     | <10                   | 280                    | <0.5                   | <2                     | 0.35                 | <0.5                   | 10                     | 24                     | 49                     | 2.47                 |
| ZZ05292            |                                   | 0.48                       | 0.006                  | 0.7                    | 0.60                 | 32                     | <10                   | 290                    | <0.5                   | <2                     | 0.55                 | 0.9                    | 7                      | 20                     | 80                     | 2.11                 |
| ZZ05293            |                                   | 0.22                       | 0.008                  | 0.7                    | 1.04                 | 20                     | <10                   | 360                    | <0.5                   | <2                     | 0.75                 | 1.4                    | 6                      | 38                     | 54                     | 1.88                 |
| ZZ05294            |                                   | 0.18                       | 0.001                  | 0.2                    | 0.67                 | 19                     | <10                   | 150                    | <0.5                   | <2                     | 0.09                 | 0.6                    | 3                      | 20                     | 19                     | 1.32                 |
| ZZ05295            |                                   | 0.16                       | 0.028                  | 0.9                    | 0.91                 | 635                    | <10                   | 200                    | <0.5                   | <2                     | 1.09                 | 0.7                    | 13                     | 18                     | 57                     | 2.94                 |
| ZZ05296            |                                   | 0.44                       | 0.018                  | 1.1                    | 0.88                 | 165                    | <10                   | 230                    | <0.5                   | <2                     | 0.71                 | 1.0                    | 14                     | 21                     | 76                     | 3.69                 |
| ZZ05297            |                                   | 0.32                       | 0.002                  | 0.3                    | 0.37                 | 32                     | <10                   | 90                     | <0.5                   | <2                     | 0.52                 | 0.5                    | 16                     | 9                      | 40                     | 3.79                 |
| ZZ05298            |                                   | 0.14                       | 0.002                  | 0.4                    | 0.91                 | 20                     | <10                   | 210                    | <0.5                   | <2                     | 1.35                 | 0.9                    | 14                     | 16                     | 36                     | 2.69                 |
| ZZ05299            |                                   | 0.30                       | 0.004                  | 0.3                    | 0.86                 | 28                     | <10                   | 180                    | <0.5                   | <2                     | 0.61                 | 0.5                    | 12                     | 22                     | 40                     | 3.07                 |
| ZZ05300            |                                   | 0.34                       | <0.001                 | 0.3                    | 0.81                 | 14                     | <10                   | 80                     | <0.5                   | <2                     | 1.50                 | 0.5                    | 14                     | 13                     | 39                     | 3.59                 |
| ZZ05301            |                                   | 0.26                       | 0.002                  | 0.4                    | 0.63                 | 22                     | <10                   | 80                     | <0.5                   | <2                     | 1.68                 | <0.5                   | 14                     | 10                     | 36                     | 3.49                 |
| ZZ05302            |                                   | 0.26                       | 0.148                  | 0.5                    | 1.05                 | 1440                   | <10                   | 230                    | <0.5                   | <2                     | 1.40                 | <0.5                   | 18                     | 16                     | 59                     | 5.49                 |
| ZZ05303            |                                   | 0.24                       | 0.016                  | 0.2                    | 1.50                 | 251                    | <10                   | 520                    | <0.5                   | <2                     | 0.15                 | <0.5                   | 16                     | 28                     | 49                     | 4.89                 |
| ZZ05304            |                                   | 0.22                       | 0.016                  | 0.6                    | 1.19                 | 197                    | <10                   | 370                    | 0.5                    | <2                     | 1.28                 | 0.5                    | 11                     | 30                     | 44                     | 3.32                 |
| ZZ05305            |                                   | 0.22                       | 0.015                  | 0.6                    | 1.12                 | 94                     | <10                   | 290                    | <0.5                   | <2                     | 0.89                 | 1.9                    | 13                     | 39                     | 60                     | 3.20                 |
| ZZ05306            |                                   | 0.38                       | 0.011                  | 0.4                    | 1.08                 | 69                     | <10                   | 260                    | <0.5                   | <2                     | 0.69                 | 1.1                    | 11                     | 38                     | 40                     | 2.55                 |
| ZZ05307            |                                   | 0.28                       | 0.676                  | 0.8                    | 0.67                 | 355                    | <10                   | 250                    | <0.5                   | 2                      | 1.24                 | 0.9                    | 23                     | 18                     | 126                    | 6.56                 |
| ZZ05308            |                                   | 0.32                       | 0.019                  | 0.7                    | 0.92                 | 59                     | <10                   | 270                    | <0.5                   | <2                     | 0.99                 | 0.9                    | 12                     | 27                     | 80                     | 3.31                 |
| ZZ05309            |                                   | 0.40                       | 0.004                  | 0.5                    | 1.04                 | 47                     | <10                   | 250                    | <0.5                   | <2                     | 0.53                 | 1.6                    | 13                     | 33                     | 50                     | 3.72                 |
| ZZ05310            |                                   | 0.28                       | 0.012                  | 0.8                    | 0.93                 | 45                     | <10                   | 330                    | <0.5                   | <2                     | 0.68                 | 0.9                    | 10                     | 33                     | 60                     | 2.74                 |
| ZZ05311            |                                   | 0.62                       | 0.030                  | 0.9                    | 0.69                 | 98                     | <10                   | 350                    | <0.5                   | <2                     | 0.77                 | 0.9                    | 14                     | 27                     | 127                    | 4.65                 |
| ZZ05312            |                                   | 0.36                       | 0.056                  | 0.8                    | 0.75                 | 597                    | <10                   | 220                    | <0.5                   | <2                     | 0.75                 | 0.7                    | 16                     | 31                     | 59                     | 3.91                 |
| ZZ05313            |                                   | 0.28                       | 0.008                  | 0.9                    | 0.98                 | 35                     | <10                   | 270                    | 0.5                    | <2                     | 0.94                 | 0.8                    | 11                     | 35                     | 60                     | 3.06                 |
| ZZ05314            |                                   | 0.38                       | 0.006                  | 0.5                    | 0.98                 | 30                     | <10                   | 220                    | <0.5                   | <2                     | 0.62                 | 0.7                    | 11                     | 39                     | 46                     | 2.78                 |
| ZZ05315            |                                   | 0.22                       | 0.008                  | 0.5                    | 1.14                 | 33                     | <10                   | 420                    | <0.5                   | <2                     | 0.82                 | 0.6                    | 14                     | 45                     | 52                     | 3.34                 |
| ZZ05316            |                                   | 0.42                       | 0.011                  | 0.7                    | 1.06                 | 44                     | <10                   | 310                    | <0.5                   | <2                     | 0.67                 | 0.8                    | 13                     | 40                     | 62                     | 3.00                 |
| ZZ05317            |                                   | 0.42                       | 0.009                  | 0.5                    | 1.11                 | 117                    | <10                   | 310                    | <0.5                   | <2                     | 0.62                 | 0.9                    | 25                     | 40                     | 52                     | 2.90                 |
| ZZ05318            |                                   | 0.22                       | 0.008                  | 0.5                    | 1.08                 | 67                     | <10                   | 360                    | <0.5                   | <2                     | 0.80                 | 1.1                    | 16                     | 78                     | 36                     | 3.36                 |
| ZZ05319            |                                   | 0.20                       | 0.008                  | 0.6                    | 0.81                 | 70                     | <10                   | 460                    | 0.6                    | <2                     | 1.35                 | 1.6                    | 12                     | 32                     | 74                     | 3.18                 |
| ZZ05320            |                                   | 0.36                       | 0.009                  | 0.7                    | 1.15                 | 34                     | <10                   | 260                    | 0.5                    | <2                     | 0.45                 | 0.5                    | 11                     | 45                     | 64                     | 3.11                 |
| ZZ05321            |                                   | 0.42                       | 0.012                  | 0.7                    | 1.16                 | 63                     | <10                   | 360                    | <0.5                   | <2                     | 0.76                 | 1.1                    | 16                     | 46                     | 58                     | 3.46                 |
| ZZ05322            |                                   | 0.34                       | 0.020                  | 0.6                    | 0.87                 | 94                     | <10                   | 260                    | <0.5                   | <2                     | 0.58                 | 1.9                    | 16                     | 46                     | 60                     | 3.35                 |
| ZZ05323            |                                   | 0.44                       | 0.009                  | 0.7                    | 1.30                 | 24                     | <10                   | 430                    | 0.6                    | <2                     | 1.69                 | 1.1                    | 16                     | 58                     | 71                     | 2.88                 |
| ZZ05324            |                                   | 0.28                       | 0.010                  | 0.6                    | 0.97                 | 38                     | <10                   | 360                    | <0.5                   | <2                     | 1.29                 | 0.5                    | 12                     | 53                     | 26                     | 2.44                 |
| ZZ05325            |                                   | 0.46                       | 0.004                  | 0.5                    | 1.38                 | 28                     | <10                   | 550                    | 0.6                    | <2                     | 0.94                 | 0.6                    | 12                     | 63                     | 60                     | 2.73                 |
| ZZ05326            |                                   | 0.24                       | <0.001                 | 0.6                    | 1.17                 | 11                     | <10                   | 520                    | 0.6                    | <2                     | 2.62                 | 0.6                    | 10                     | 39                     | 44                     | 2.01                 |
| ZZ05327            |                                   | 0.34                       | <0.001                 | <0.2                   | 1.81                 | 13                     | <10                   | 390                    | 0.7                    | <2                     | 0.40                 | <0.5                   | 10                     | 58                     | 21                     | 2.92                 |
| ZZ05328            |                                   | 0.18                       | 0.004                  | 0.3                    | 1.18                 | 24                     | <10                   | 400                    | 0.5                    | <2                     | 0.42                 | <0.5                   | 11                     | 51                     | 19                     | 2.40                 |
| ZZ05329            |                                   | 0.22                       | 0.007                  | 0.3                    | 1.26                 | 12                     | <10                   | 160                    | 0.6                    | <2                     | 1.95                 | 0.6                    | 12                     | 34                     | 50                     | 2.79                 |
| ZZ05330            |                                   | 0.22                       | 0.008                  | 0.4                    | 1.05                 | 21                     | <10                   | 390                    | 0.5                    | <2                     | 0.95                 | 0.6                    | 10                     | 48                     | 43                     | 2.36                 |



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Page: 3 - B  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 3- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05291            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.39                         | 257                         | 3                           | 0.01                         | 32                          | 930                         | 12                          | 0.01                        | 3                           | 3                           | 37                          |
| ZZ05292            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.19                         | 231                         | 7                           | 0.01                         | 42                          | 2390                        | 14                          | 0.03                        | 5                           | 1                           | 87                          |
| ZZ05293            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.44                         | 191                         | 1                           | 0.01                         | 35                          | 1260                        | 16                          | 0.05                        | 4                           | 3                           | 78                          |
| ZZ05294            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.09                         | 87                          | 3                           | 0.01                         | 13                          | 460                         | 17                          | 0.03                        | 3                           | <1                          | 26                          |
| ZZ05295            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.34                         | 556                         | 1                           | 0.02                         | 36                          | 970                         | 22                          | 0.05                        | 5                           | 3                           | 83                          |
| ZZ05296            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.37                         | 333                         | 2                           | 0.01                         | 53                          | 1400                        | 35                          | 0.04                        | 6                           | 4                           | 54                          |
| ZZ05297            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.12                         | 518                         | <1                          | 0.01                         | 44                          | 640                         | 10                          | 0.04                        | 4                           | 3                           | 22                          |
| ZZ05298            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.39                         | 1330                        | 1                           | 0.02                         | 35                          | 870                         | 8                           | 0.06                        | 3                           | 2                           | 49                          |
| ZZ05299            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.37                         | 311                         | 1                           | 0.01                         | 37                          | 1140                        | 11                          | 0.04                        | 4                           | 3                           | 39                          |
| ZZ05300            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.46                         | 395                         | 1                           | 0.01                         | 36                          | 640                         | 11                          | 0.03                        | 3                           | 3                           | 38                          |
| ZZ05301            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.44                         | 453                         | <1                          | 0.01                         | 30                          | 720                         | 7                           | 0.04                        | 3                           | 3                           | 42                          |
| ZZ05302            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.45                         | 757                         | 1                           | 0.01                         | 43                          | 700                         | 11                          | 0.08                        | 7                           | 7                           | 109                         |
| ZZ05303            |                                   | 10                           | <1                          | 0.06                        | 20                           | 0.46                         | 638                         | 1                           | 0.01                         | 28                          | 370                         | 10                          | 0.04                        | 3                           | 7                           | 24                          |
| ZZ05304            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.44                         | 982                         | 1                           | 0.01                         | 31                          | 1110                        | 19                          | 0.07                        | 2                           | 4                           | 119                         |
| ZZ05305            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.61                         | 618                         | 1                           | 0.01                         | 62                          | 1030                        | 23                          | 0.06                        | 5                           | 5                           | 64                          |
| ZZ05306            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.54                         | 713                         | 1                           | 0.01                         | 49                          | 1010                        | 18                          | 0.05                        | 4                           | 4                           | 47                          |
| ZZ05307            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.27                         | 710                         | 3                           | 0.02                         | 30                          | 2860                        | 27                          | 0.13                        | 34                          | 4                           | 92                          |
| ZZ05308            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.37                         | 712                         | 2                           | 0.01                         | 48                          | 1400                        | 21                          | 0.05                        | 7                           | 4                           | 60                          |
| ZZ05309            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.48                         | 345                         | 2                           | 0.01                         | 42                          | 1480                        | 35                          | 0.04                        | 4                           | 5                           | 39                          |
| ZZ05310            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.43                         | 348                         | 1                           | 0.01                         | 42                          | 1450                        | 20                          | 0.06                        | 5                           | 3                           | 51                          |
| ZZ05311            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.28                         | 345                         | 9                           | 0.01                         | 80                          | 1720                        | 18                          | 0.05                        | 12                          | 5                           | 54                          |
| ZZ05312            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.33                         | 537                         | 2                           | 0.01                         | 70                          | 1520                        | 20                          | 0.04                        | 6                           | 5                           | 45                          |
| ZZ05313            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.42                         | 446                         | 4                           | 0.02                         | 51                          | 1070                        | 11                          | 0.08                        | 6                           | 4                           | 52                          |
| ZZ05314            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.58                         | 302                         | 2                           | 0.01                         | 54                          | 1500                        | 10                          | 0.05                        | 4                           | 3                           | 47                          |
| ZZ05315            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.59                         | 574                         | 3                           | 0.01                         | 57                          | 1490                        | 13                          | 0.06                        | 4                           | 4                           | 53                          |
| ZZ05316            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.53                         | 416                         | 3                           | 0.01                         | 65                          | 1470                        | 18                          | 0.04                        | 6                           | 4                           | 53                          |
| ZZ05317            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.53                         | 595                         | 2                           | 0.01                         | 120                         | 1160                        | 12                          | 0.05                        | 5                           | 4                           | 41                          |
| ZZ05318            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.91                         | 1800                        | 4                           | 0.01                         | 105                         | 1070                        | 19                          | 0.06                        | 5                           | 3                           | 50                          |
| ZZ05319            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.42                         | 1050                        | 2                           | 0.01                         | 81                          | 1110                        | 15                          | 0.12                        | 6                           | 3                           | 88                          |
| ZZ05320            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.57                         | 446                         | 3                           | 0.01                         | 74                          | 1120                        | 16                          | 0.03                        | 6                           | 4                           | 39                          |
| ZZ05321            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.57                         | 658                         | 3                           | 0.01                         | 82                          | 1210                        | 15                          | 0.05                        | 7                           | 4                           | 52                          |
| ZZ05322            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.46                         | 625                         | 4                           | 0.01                         | 107                         | 1030                        | 17                          | 0.04                        | 12                          | 4                           | 43                          |
| ZZ05323            |                                   | <10                          | 1                           | 0.11                        | 20                           | 0.98                         | 835                         | 1                           | 0.02                         | 98                          | 1200                        | 19                          | 0.06                        | 6                           | 3                           | 54                          |
| ZZ05324            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.67                         | 396                         | 2                           | 0.01                         | 66                          | 940                         | 14                          | 0.05                        | 5                           | 3                           | 53                          |
| ZZ05325            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.66                         | 385                         | 1                           | 0.01                         | 85                          | 540                         | 15                          | 0.04                        | 4                           | 3                           | 36                          |
| ZZ05326            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.43                         | 633                         | <1                          | 0.02                         | 42                          | 770                         | 12                          | 0.08                        | 4                           | 2                           | 56                          |
| ZZ05327            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.55                         | 475                         | 1                           | 0.01                         | 52                          | 260                         | 12                          | 0.02                        | <2                          | 4                           | 20                          |
| ZZ05328            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.54                         | 480                         | 2                           | 0.01                         | 41                          | 510                         | 13                          | 0.01                        | 3                           | 3                           | 25                          |
| ZZ05329            |                                   | <10                          | 1                           | 0.08                        | 20                           | 1.30                         | 502                         | 1                           | 0.01                         | 65                          | 1930                        | 11                          | 0.03                        | 2                           | 4                           | 34                          |
| ZZ05330            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.75                         | 452                         | 2                           | 0.02                         | 74                          | 1020                        | 13                          | 0.03                        | 4                           | 3                           | 39                          |



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Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 3- OCT- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05291            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 102       |
| ZZ05292            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 158       |
| ZZ05293            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 109       |
| ZZ05294            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 53        |
| ZZ05295            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 84        |
| ZZ05296            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 151       |
| ZZ05297            |                                   | <20       | 0.01      | <10       | <10       | 11        | <10       | 113       |
| ZZ05298            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 100       |
| ZZ05299            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 127       |
| ZZ05300            |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       | 102       |
| ZZ05301            |                                   | <20       | <0.01     | <10       | <10       | 13        | <10       | 88        |
| ZZ05302            |                                   | <20       | <0.01     | <10       | <10       | 25        | <10       | 69        |
| ZZ05303            |                                   | <20       | 0.01      | <10       | <10       | 74        | <10       | 96        |
| ZZ05304            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 90        |
| ZZ05305            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 177       |
| ZZ05306            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 152       |
| ZZ05307            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       | 269       |
| ZZ05308            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 144       |
| ZZ05309            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 331       |
| ZZ05310            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 153       |
| ZZ05311            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 125       |
| ZZ05312            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 121       |
| ZZ05313            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 124       |
| ZZ05314            |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 120       |
| ZZ05315            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 113       |
| ZZ05316            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 146       |
| ZZ05317            |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 120       |
| ZZ05318            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 126       |
| ZZ05319            |                                   | <20       | 0.01      | <10       | 10        | 25        | <10       | 101       |
| ZZ05320            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 122       |
| ZZ05321            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       | 141       |
| ZZ05322            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 222       |
| ZZ05323            |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       | 147       |
| ZZ05324            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 130       |
| ZZ05325            |                                   | <20       | 0.01      | <10       | <10       | 46        | <10       | 102       |
| ZZ05326            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 61        |
| ZZ05327            |                                   | <20       | 0.02      | <10       | <10       | 60        | <10       | 76        |
| ZZ05328            |                                   | <20       | 0.01      | <10       | <10       | 43        | <10       | 101       |
| ZZ05329            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 115       |
| ZZ05330            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       | 128       |



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Page: 4 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 3- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05331            |                                   | 0.18                       | 0.003                  | 0.3                    | 1.05                 | 14                     | <10                   | 510                    | 0.5                    | <2                     | 2.05                 | 1.0                    | 11                     | 40                     | 42                     | 2.14                 |
| ZZ05332            |                                   | 0.36                       | 0.002                  | 0.4                    | 1.26                 | 8                      | <10                   | 310                    | 0.5                    | <2                     | 1.25                 | 0.5                    | 12                     | 76                     | 27                     | 2.36                 |
| ZZ05333            |                                   | 0.22                       | 0.008                  | 0.3                    | 1.67                 | 8                      | <10                   | 280                    | 0.7                    | <2                     | 2.03                 | 0.7                    | 12                     | 38                     | 43                     | 3.02                 |
| ZZ05334            |                                   | 0.20                       | <0.001                 | 0.2                    | 1.30                 | 11                     | <10                   | 300                    | 0.5                    | <2                     | 1.07                 | <0.5                   | 12                     | 52                     | 16                     | 2.48                 |
| ZZ05335            |                                   | 0.32                       | 0.004                  | 0.2                    | 1.09                 | 21                     | <10                   | 260                    | <0.5                   | <2                     | 1.35                 | 0.6                    | 8                      | 44                     | 30                     | 2.24                 |
| ZZ05336            |                                   | 0.22                       | 0.002                  | <0.2                   | 2.12                 | 15                     | <10                   | 270                    | 0.5                    | <2                     | 0.11                 | 0.5                    | 13                     | 93                     | 24                     | 3.12                 |
| ZZ05337            |                                   | 0.32                       | 0.007                  | 0.4                    | 1.31                 | 33                     | <10                   | 360                    | 0.6                    | <2                     | 0.68                 | 0.5                    | 14                     | 58                     | 36                     | 3.01                 |
| ZZ05338            |                                   | 0.18                       | <0.001                 | <0.2                   | 1.40                 | 10                     | <10                   | 330                    | <0.5                   | <2                     | 0.14                 | 0.7                    | 15                     | 144                    | 13                     | 3.04                 |
| ZZ05339            |                                   | 0.26                       | 0.005                  | 0.2                    | 0.80                 | 30                     | <10                   | 320                    | 0.5                    | <2                     | 1.00                 | 0.6                    | 10                     | 39                     | 44                     | 1.86                 |
| ZZ05340            |                                   | 0.28                       | 0.008                  | 0.5                    | 1.10                 | 39                     | <10                   | 430                    | 0.5                    | <2                     | 1.25                 | 0.9                    | 12                     | 44                     | 52                     | 2.74                 |
| ZZ05341            |                                   | 0.34                       | 0.048                  | 0.4                    | 0.81                 | 31                     | <10                   | 280                    | <0.5                   | <2                     | 0.55                 | 0.6                    | 9                      | 39                     | 36                     | 1.60                 |
| ZZ05342            |                                   | 0.20                       | 0.021                  | 0.5                    | 0.67                 | 116                    | <10                   | 400                    | <0.5                   | <2                     | 0.78                 | 1.3                    | 15                     | 28                     | 35                     | 2.86                 |
| ZZ05343            |                                   | 0.28                       | 0.013                  | 0.4                    | 0.85                 | 57                     | <10                   | 320                    | <0.5                   | <2                     | 0.86                 | 1.2                    | 7                      | 34                     | 52                     | 2.00                 |
| ZZ05344            |                                   | 0.18                       | 0.012                  | 0.6                    | 0.95                 | 31                     | <10                   | 320                    | <0.5                   | <2                     | 0.97                 | 1.1                    | 10                     | 31                     | 62                     | 2.32                 |
| ZZ05345            |                                   | 0.18                       | 0.010                  | 0.6                    | 0.93                 | 67                     | <10                   | 350                    | <0.5                   | <2                     | 1.28                 | 1.3                    | 12                     | 31                     | 55                     | 3.36                 |
| ZZ05346            |                                   | 0.32                       | 0.010                  | 0.5                    | 1.06                 | 60                     | <10                   | 330                    | <0.5                   | <2                     | 0.71                 | 1.2                    | 15                     | 37                     | 53                     | 3.48                 |
| ZZ05347            |                                   | 0.58                       | 0.076                  | 0.6                    | 1.01                 | 713                    | <10                   | 210                    | 0.5                    | <2                     | 0.79                 | 0.8                    | 28                     | 39                     | 75                     | 5.11                 |
| ZZ05348            |                                   | 0.32                       | 0.026                  | 0.7                    | 0.95                 | 134                    | <10                   | 230                    | <0.5                   | <2                     | 0.60                 | 1.6                    | 15                     | 32                     | 71                     | 3.16                 |
| ZZ05349            |                                   | 0.22                       | 0.010                  | 0.5                    | 1.00                 | 51                     | <10                   | 250                    | <0.5                   | <2                     | 1.16                 | 1.2                    | 11                     | 30                     | 41                     | 2.73                 |
| ZZ05350            |                                   | 0.40                       | 0.010                  | 0.5                    | 1.07                 | 53                     | <10                   | 230                    | <0.5                   | <2                     | 0.70                 | 1.2                    | 12                     | 46                     | 49                     | 2.64                 |
| ZZ05351            |                                   | 0.26                       | 0.003                  | 0.2                    | 0.58                 | 20                     | <10                   | 160                    | <0.5                   | <2                     | 1.50                 | 0.8                    | 10                     | 12                     | 36                     | 2.41                 |
| ZZ05352            |                                   | 0.18                       | <0.001                 | <0.2                   | 0.70                 | 9                      | <10                   | 60                     | <0.5                   | <2                     | 0.52                 | <0.5                   | 13                     | 11                     | 21                     | 3.24                 |
| ZZ05353            |                                   | 0.22                       | 0.001                  | <0.2                   | 0.43                 | 22                     | <10                   | 80                     | <0.5                   | <2                     | 4.06                 | 0.5                    | 14                     | 7                      | 35                     | 2.87                 |
| ZZ05354            |                                   | 0.36                       | 0.005                  | 0.2                    | 0.70                 | 31                     | <10                   | 140                    | <0.5                   | <2                     | 0.92                 | 0.7                    | 15                     | 18                     | 48                     | 3.05                 |
| ZZ05355            |                                   | 0.28                       | 0.001                  | <0.2                   | 1.07                 | 20                     | <10                   | 80                     | <0.5                   | <2                     | 1.07                 | <0.5                   | 13                     | 16                     | 29                     | 3.32                 |
| ZZ05356            |                                   | 0.34                       | 0.002                  | <0.2                   | 0.64                 | 36                     | <10                   | 100                    | <0.5                   | <2                     | 0.81                 | <0.5                   | 11                     | 9                      | 22                     | 2.84                 |
| ZZ05357            |                                   | 0.46                       | 0.007                  | 0.5                    | 1.14                 | 51                     | <10                   | 180                    | <0.5                   | <2                     | 0.86                 | 1.1                    | 15                     | 29                     | 54                     | 3.29                 |
| ZZ05358            |                                   | 0.32                       | 0.015                  | 0.3                    | 1.08                 | 85                     | <10                   | 170                    | <0.5                   | <2                     | 0.58                 | 0.6                    | 9                      | 29                     | 30                     | 2.64                 |
| ZZ05359            |                                   | 0.28                       | 0.008                  | 0.3                    | 0.83                 | 58                     | <10                   | 240                    | <0.5                   | <2                     | 1.34                 | 0.7                    | 9                      | 21                     | 24                     | 2.40                 |
| ZZ05360            |                                   | 0.32                       | 0.099                  | 0.8                    | 0.79                 | 357                    | <10                   | 220                    | <0.5                   | <2                     | 0.72                 | 9.2                    | 24                     | 22                     | 138                    | 4.25                 |
| ZZ05361            |                                   | 0.32                       | 0.010                  | 0.5                    | 0.66                 | 59                     | <10                   | 170                    | <0.5                   | <2                     | 1.60                 | 2.4                    | 9                      | 15                     | 35                     | 2.29                 |
| ZZ05362            |                                   | 0.26                       | 0.008                  | 0.5                    | 0.77                 | 30                     | <10                   | 200                    | <0.5                   | <2                     | 0.74                 | 0.5                    | 7                      | 29                     | 44                     | 2.22                 |
| ZZ05363            |                                   | 0.40                       | 0.008                  | 0.5                    | 0.84                 | 15                     | <10                   | 370                    | <0.5                   | <2                     | 0.71                 | 1.8                    | 9                      | 36                     | 61                     | 1.64                 |
| ZZ05364            |                                   | 0.24                       | 0.013                  | 0.8                    | 0.65                 | 43                     | <10                   | 290                    | <0.5                   | <2                     | 1.39                 | 0.8                    | 12                     | 18                     | 71                     | 2.31                 |
| ZZ05365            |                                   | 0.22                       | 0.054                  | 1.0                    | 0.80                 | 257                    | <10                   | 350                    | <0.5                   | <2                     | 1.59                 | 1.0                    | 17                     | 21                     | 83                     | 3.41                 |
| ZZ05366            |                                   | 0.28                       | 0.006                  | 0.5                    | 0.76                 | 25                     | <10                   | 250                    | <0.5                   | <2                     | 1.01                 | 1.0                    | 6                      | 28                     | 33                     | 1.34                 |
| ZZ05367            |                                   | 0.24                       | 0.009                  | 0.7                    | 0.96                 | 41                     | <10                   | 400                    | <0.5                   | <2                     | 1.25                 | 1.0                    | 14                     | 31                     | 49                     | 3.46                 |
| ZZ05368            |                                   | 0.56                       | 0.010                  | 0.6                    | 1.09                 | 44                     | <10                   | 290                    | <0.5                   | <2                     | 1.08                 | 1.0                    | 14                     | 38                     | 82                     | 3.73                 |
| ZZ05369            |                                   | 0.38                       | 0.005                  | 0.5                    | 0.97                 | 26                     | <10                   | 290                    | <0.5                   | <2                     | 0.89                 | 0.7                    | 8                      | 34                     | 41                     | 2.01                 |
| ZZ05370            |                                   | 0.42                       | 0.009                  | 0.6                    | 1.08                 | 72                     | <10                   | 370                    | <0.5                   | <2                     | 0.67                 | 1.4                    | 16                     | 40                     | 65                     | 3.44                 |



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Page: 4 - B  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 3- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05331            |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.63                         | 928                         | 1                           | 0.02                         | 58                          | 900                         | 11                          | 0.06                        | 3                           | 3                           | 50                          |
| ZZ05332            |                                   | <10                          | 1                           | 0.08                        | 10                           | 1.04                         | 427                         | 1                           | 0.02                         | 105                         | 710                         | 10                          | 0.04                        | <2                          | 4                           | 37                          |
| ZZ05333            |                                   | <10                          | 1                           | 0.08                        | 20                           | 1.00                         | 430                         | 1                           | 0.01                         | 45                          | 1660                        | 10                          | 0.06                        | <2                          | 5                           | 49                          |
| ZZ05334            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.76                         | 402                         | 1                           | 0.01                         | 56                          | 480                         | 12                          | 0.03                        | 2                           | 3                           | 28                          |
| ZZ05335            |                                   | <10                          | 1                           | 0.07                        | 10                           | 0.61                         | 195                         | 1                           | 0.01                         | 45                          | 870                         | 12                          | 0.05                        | 2                           | 3                           | 40                          |
| ZZ05336            |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.80                         | 248                         | 2                           | 0.01                         | 99                          | 290                         | 10                          | 0.01                        | <2                          | 3                           | 18                          |
| ZZ05337            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.72                         | 498                         | 2                           | 0.01                         | 79                          | 650                         | 15                          | 0.02                        | 3                           | 4                           | 30                          |
| ZZ05338            |                                   | <10                          | <1                          | 0.05                        | 10                           | 1.08                         | 263                         | 2                           | 0.01                         | 135                         | 390                         | 8                           | 0.01                        | 2                           | 3                           | 16                          |
| ZZ05339            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.46                         | 425                         | 1                           | <0.01                        | 62                          | 690                         | 8                           | 0.03                        | 2                           | 2                           | 34                          |
| ZZ05340            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.61                         | 553                         | 2                           | 0.01                         | 73                          | 890                         | 13                          | 0.05                        | 4                           | 3                           | 49                          |
| ZZ05341            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.49                         | 195                         | 1                           | 0.01                         | 50                          | 1470                        | 12                          | 0.03                        | 5                           | 3                           | 42                          |
| ZZ05342            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.41                         | 3230                        | 4                           | 0.01                         | 66                          | 1610                        | 11                          | 0.05                        | 6                           | 2                           | 51                          |
| ZZ05343            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.45                         | 457                         | 1                           | 0.01                         | 46                          | 1410                        | 15                          | 0.08                        | 5                           | 3                           | 52                          |
| ZZ05344            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.43                         | 801                         | 2                           | 0.01                         | 50                          | 1280                        | 15                          | 0.07                        | 4                           | 3                           | 58                          |
| ZZ05345            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.51                         | 1165                        | 1                           | 0.02                         | 52                          | 1210                        | 13                          | 0.12                        | 4                           | 3                           | 63                          |
| ZZ05346            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.62                         | 1185                        | 3                           | 0.01                         | 65                          | 1210                        | 15                          | 0.05                        | 3                           | 3                           | 49                          |
| ZZ05347            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.45                         | 550                         | 3                           | 0.01                         | 117                         | 1600                        | 15                          | 0.02                        | 8                           | 7                           | 45                          |
| ZZ05348            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.44                         | 654                         | 3                           | 0.01                         | 67                          | 1260                        | 17                          | 0.02                        | 6                           | 4                           | 44                          |
| ZZ05349            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.50                         | 387                         | 1                           | 0.01                         | 48                          | 980                         | 12                          | 0.06                        | 3                           | 3                           | 55                          |
| ZZ05350            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.69                         | 397                         | 2                           | 0.01                         | 71                          | 1110                        | 14                          | 0.02                        | 2                           | 4                           | 44                          |
| ZZ05351            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.28                         | 393                         | 1                           | 0.01                         | 30                          | 900                         | 10                          | 0.06                        | 3                           | 2                           | 49                          |
| ZZ05352            |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.32                         | 402                         | 1                           | 0.01                         | 32                          | 500                         | 8                           | 0.03                        | 2                           | 2                           | 18                          |
| ZZ05353            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.30                         | 320                         | 1                           | 0.01                         | 33                          | 680                         | 9                           | 0.03                        | 3                           | 3                           | 48                          |
| ZZ05354            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.44                         | 438                         | 1                           | 0.01                         | 44                          | 820                         | 12                          | 0.03                        | 4                           | 3                           | 34                          |
| ZZ05355            |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.62                         | 421                         | 1                           | 0.01                         | 35                          | 720                         | 12                          | 0.04                        | 2                           | 3                           | 43                          |
| ZZ05356            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.32                         | 433                         | <1                          | 0.01                         | 22                          | 490                         | 16                          | 0.04                        | 3                           | 2                           | 41                          |
| ZZ05357            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.72                         | 697                         | 4                           | 0.01                         | 58                          | 920                         | 14                          | 0.02                        | 4                           | 4                           | 44                          |
| ZZ05358            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.57                         | 258                         | 2                           | 0.01                         | 30                          | 960                         | 12                          | 0.03                        | 2                           | 4                           | 46                          |
| ZZ05359            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.37                         | 382                         | 2                           | 0.02                         | 28                          | 890                         | 11                          | 0.07                        | 3                           | 2                           | 78                          |
| ZZ05360            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.36                         | 868                         | 1                           | 0.01                         | 57                          | 1060                        | 32                          | 0.04                        | 9                           | 5                           | 44                          |
| ZZ05361            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.31                         | 512                         | 1                           | 0.02                         | 26                          | 770                         | 16                          | 0.09                        | 2                           | 2                           | 71                          |
| ZZ05362            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.38                         | 183                         | 2                           | 0.01                         | 29                          | 1390                        | 12                          | 0.03                        | 4                           | 3                           | 57                          |
| ZZ05363            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.44                         | 234                         | 1                           | 0.01                         | 47                          | 1270                        | 13                          | 0.05                        | 4                           | 3                           | 53                          |
| ZZ05364            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.21                         | 584                         | 2                           | 0.02                         | 49                          | 1260                        | 13                          | 0.05                        | 5                           | 2                           | 68                          |
| ZZ05365            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.27                         | 968                         | 2                           | 0.01                         | 100                         | 1230                        | 13                          | 0.07                        | 11                          | 3                           | 73                          |
| ZZ05366            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.42                         | 98                          | <1                          | 0.01                         | 35                          | 1280                        | 11                          | 0.13                        | 4                           | 2                           | 57                          |
| ZZ05367            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.43                         | 1295                        | 1                           | 0.01                         | 53                          | 1390                        | 14                          | 0.09                        | 4                           | 3                           | 70                          |
| ZZ05368            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.90                         | 523                         | 3                           | 0.01                         | 72                          | 1440                        | 18                          | 0.02                        | 4                           | 4                           | 55                          |
| ZZ05369            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.47                         | 400                         | 1                           | 0.01                         | 43                          | 1030                        | 12                          | 0.04                        | 3                           | 3                           | 52                          |
| ZZ05370            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.61                         | 549                         | 2                           | 0.01                         | 78                          | 1290                        | 14                          | 0.02                        | 4                           | 4                           | 45                          |



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Page: 4 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 3- OCT- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 |
| ZZ05331            |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       |
| ZZ05332            |                                   | <20       | 0.03      | <10       | <10       | 62        | <10       |
| ZZ05333            |                                   | <20       | 0.01      | <10       | <10       | 62        | <10       |
| ZZ05334            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       |
| ZZ05335            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       |
| ZZ05336            |                                   | <20       | 0.01      | <10       | <10       | 67        | <10       |
| ZZ05337            |                                   | <20       | 0.02      | <10       | <10       | 50        | <10       |
| ZZ05338            |                                   | <20       | 0.02      | <10       | <10       | 91        | <10       |
| ZZ05339            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| ZZ05340            |                                   | <20       | 0.01      | <10       | <10       | 39        | <10       |
| ZZ05341            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       |
| ZZ05342            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       |
| ZZ05343            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       |
| ZZ05344            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       |
| ZZ05345            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       |
| ZZ05346            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| ZZ05347            |                                   | <20       | 0.01      | <10       | <10       | 38        | <10       |
| ZZ05348            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       |
| ZZ05349            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       |
| ZZ05350            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       |
| ZZ05351            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       |
| ZZ05352            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       |
| ZZ05353            |                                   | <20       | <0.01     | <10       | <10       | 8         | <10       |
| ZZ05354            |                                   | <20       | 0.01      | <10       | <10       | 18        | <10       |
| ZZ05355            |                                   | <20       | <0.01     | <10       | <10       | 18        | <10       |
| ZZ05356            |                                   | <20       | <0.01     | <10       | <10       | 10        | <10       |
| ZZ05357            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       |
| ZZ05358            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       |
| ZZ05359            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       |
| ZZ05360            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       |
| ZZ05361            |                                   | <20       | 0.01      | <10       | <10       | 17        | <10       |
| ZZ05362            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       |
| ZZ05363            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       |
| ZZ05364            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       |
| ZZ05365            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       |
| ZZ05366            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       |
| ZZ05367            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       |
| ZZ05368            |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       |
| ZZ05369            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       |
| ZZ05370            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       |



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Page: 5 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 3- OCT- 2011  
Account: F

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**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05371            |                                   | 0.44                       | 0.011                  | 0.6                    | 1.07                 | 45                     | <10                   | 320                    | <0.5                   | <2                     | 0.78                 | 1.1                    | 13                     | 45                     | 56                     | 2.97                 |
| ZZ05372            |                                   | 0.46                       | 0.009                  | 0.8                    | 1.11                 | 54                     | <10                   | 460                    | 0.6                    | <2                     | 1.34                 | 1.3                    | 16                     | 41                     | 84                     | 3.27                 |
| ZZ05373            |                                   | 0.44                       | 0.017                  | 0.7                    | 0.93                 | 85                     | <10                   | 300                    | <0.5                   | <2                     | 0.79                 | 1.2                    | 11                     | 37                     | 71                     | 2.93                 |
| ZZ05374            |                                   | 0.40                       | 0.011                  | 0.5                    | 0.92                 | 42                     | <10                   | 280                    | <0.5                   | <2                     | 0.74                 | 0.7                    | 10                     | 35                     | 46                     | 2.51                 |
| ZZ05375            |                                   | 0.34                       | 0.015                  | 2.0                    | 0.59                 | 42                     | <10                   | 270                    | <0.5                   | <2                     | 0.91                 | 0.8                    | 9                      | 19                     | 70                     | 2.44                 |
| ZZ05376            |                                   | 0.14                       | <0.001                 | 0.3                    | 0.53                 | 7                      | <10                   | 190                    | <0.5                   | <2                     | 2.11                 | 0.5                    | 4                      | 14                     | 12                     | 0.88                 |
| ZZ05377            |                                   | 0.20                       | <0.001                 | 0.5                    | 0.87                 | 9                      | <10                   | 320                    | <0.5                   | <2                     | 2.27                 | 1.1                    | 8                      | 30                     | 18                     | 1.56                 |
| ZZ05378            |                                   | 0.24                       | 0.001                  | 0.3                    | 1.08                 | 10                     | <10                   | 350                    | <0.5                   | <2                     | 2.31                 | 0.9                    | 8                      | 38                     | 20                     | 1.93                 |
| ZZ05379            |                                   | 0.36                       | <0.001                 | 0.8                    | 1.16                 | 12                     | <10                   | 670                    | <0.5                   | <2                     | 1.76                 | 2.2                    | 11                     | 39                     | 29                     | 2.21                 |
| ZZ05380            |                                   | 0.26                       | 0.003                  | <0.2                   | 1.90                 | 17                     | <10                   | 510                    | <0.5                   | <2                     | 0.30                 | 0.5                    | 7                      | 40                     | 12                     | 2.21                 |
| ZZ05381            |                                   | 0.30                       | <0.001                 | <0.2                   | 1.81                 | 15                     | <10                   | 410                    | 0.6                    | <2                     | 0.61                 | 0.7                    | 9                      | 46                     | 20                     | 2.98                 |
| ZZ05382            |                                   | 0.34                       | 0.006                  | 0.4                    | 1.43                 | 10                     | <10                   | 380                    | 0.6                    | <2                     | 1.87                 | <0.5                   | 11                     | 54                     | 51                     | 2.48                 |
| ZZ05383            |                                   | 0.42                       | 0.007                  | 0.4                    | 1.45                 | 9                      | <10                   | 530                    | 0.6                    | <2                     | 1.65                 | 0.6                    | 11                     | 51                     | 95                     | 2.49                 |
| ZZ05384            |                                   | 0.22                       | 0.006                  | 0.5                    | 1.15                 | 7                      | <10                   | 630                    | <0.5                   | <2                     | 2.34                 | 0.8                    | 12                     | 60                     | 79                     | 2.04                 |
| ZZ05385            |                                   | 0.42                       | 0.004                  | 0.4                    | 1.31                 | 13                     | <10                   | 330                    | 0.6                    | <2                     | 1.03                 | 1.2                    | 13                     | 42                     | 49                     | 2.58                 |
| ZZ05386            |                                   | 0.28                       | 0.004                  | 0.3                    | 1.25                 | 11                     | <10                   | 460                    | 0.6                    | <2                     | 1.60                 | 1.2                    | 13                     | 46                     | 61                     | 2.45                 |
| ZZ05387            |                                   | 0.36                       | 0.005                  | 0.4                    | 1.28                 | 18                     | <10                   | 300                    | 0.5                    | <2                     | 1.81                 | 1.2                    | 13                     | 39                     | 35                     | 2.50                 |
| ZZ05388            |                                   | 0.44                       | 0.006                  | 0.5                    | 1.30                 | 23                     | <10                   | 320                    | 0.5                    | <2                     | 0.90                 | 0.8                    | 13                     | 55                     | 48                     | 2.74                 |
| ZZ05389            |                                   | 0.30                       | 0.202                  | 1.4                    | 0.78                 | 44                     | <10                   | 350                    | <0.5                   | <2                     | 2.03                 | 2.4                    | 10                     | 50                     | 82                     | 2.45                 |
| ZZ05390            |                                   | 0.32                       | 0.004                  | 0.6                    | 1.30                 | 22                     | <10                   | 410                    | 0.5                    | <2                     | 2.25                 | 1.3                    | 13                     | 40                     | 44                     | 2.37                 |
| ZZ05391            |                                   | 0.28                       | 0.002                  | <0.2                   | 1.73                 | 31                     | <10                   | 390                    | 0.6                    | <2                     | 0.24                 | 0.6                    | 13                     | 57                     | 31                     | 2.98                 |
| ZZ05392            |                                   | 0.28                       | 0.003                  | 0.5                    | 1.02                 | 25                     | <10                   | 340                    | <0.5                   | <2                     | 1.10                 | 0.5                    | 12                     | 39                     | 18                     | 2.36                 |
| ZZ05393            |                                   | 0.48                       | 0.004                  | 0.3                    | 1.18                 | 16                     | <10                   | 380                    | <0.5                   | <2                     | 0.75                 | <0.5                   | 12                     | 60                     | 38                     | 2.36                 |
| ZZ05394            |                                   | 0.42                       | 0.005                  | 0.6                    | 1.56                 | 25                     | <10                   | 380                    | 0.7                    | <2                     | 1.04                 | 0.6                    | 17                     | 74                     | 67                     | 3.36                 |
| ZZ05395            |                                   | 0.22                       | 0.012                  | 0.7                    | 0.95                 | 76                     | <10                   | 440                    | <0.5                   | <2                     | 1.41                 | 1.8                    | 16                     | 39                     | 43                     | 3.44                 |
| ZZ05396            |                                   | 0.26                       | 0.012                  | 0.6                    | 0.94                 | 44                     | <10                   | 430                    | <0.5                   | <2                     | 1.17                 | 1.4                    | 13                     | 33                     | 52                     | 2.57                 |
| ZZ05397            |                                   | 0.34                       | 0.008                  | 0.4                    | 0.90                 | 9                      | <10                   | 280                    | <0.5                   | <2                     | 0.79                 | 1.1                    | 6                      | 32                     | 41                     | 1.14                 |
| ZZ05398            |                                   | 0.22                       | 0.008                  | 0.6                    | 0.83                 | 31                     | <10                   | 280                    | <0.5                   | <2                     | 1.22                 | 0.9                    | 11                     | 28                     | 42                     | 1.81                 |
| ZZ05399            |                                   | 0.32                       | 0.012                  | 0.4                    | 0.87                 | 29                     | <10                   | 240                    | <0.5                   | <2                     | 0.77                 | 1.1                    | 9                      | 34                     | 44                     | 1.95                 |
| ZZ05400            |                                   | 0.38                       | 0.011                  | 0.5                    | 0.77                 | 56                     | <10                   | 290                    | <0.5                   | 2                      | 0.80                 | 1.3                    | 10                     | 31                     | 48                     | 1.40                 |
| ZZ05401            |                                   | 0.10                       | 0.007                  | 0.2                    | 1.32                 | 14                     | <10                   | 330                    | <0.5                   | <2                     | 1.04                 | <0.5                   | 21                     | 64                     | 26                     | 3.79                 |
| ZZ05402            |                                   | 0.08                       | NSS                    | 0.3                    | 1.30                 | 14                     | <10                   | 450                    | <0.5                   | <2                     | 1.13                 | 1.3                    | 12                     | 68                     | 47                     | 3.06                 |
| ZZ05403            |                                   | 0.10                       | <0.001                 | <0.2                   | 1.05                 | 8                      | <10                   | 100                    | <0.5                   | 2                      | 0.13                 | <0.5                   | 8                      | 45                     | 8                      | 2.39                 |
| ZZ05404            |                                   | 0.14                       | 0.004                  | 0.6                    | 1.80                 | 29                     | <10                   | 340                    | 0.5                    | 3                      | 0.19                 | 0.7                    | 14                     | 58                     | 47                     | 3.89                 |
| ZZ05405            |                                   | 0.16                       | 0.009                  | 0.6                    | 1.50                 | 16                     | <10                   | 440                    | 0.6                    | 3                      | 0.52                 | <0.5                   | 16                     | 69                     | 82                     | 3.15                 |
| ZZ05406            |                                   | 0.08                       | <0.001                 | 0.4                    | 0.47                 | 5                      | <10                   | 100                    | <0.5                   | 2                      | 0.46                 | 0.7                    | 3                      | 23                     | 8                      | 0.98                 |
| ZZ05407            |                                   | 0.08                       | <0.001                 | 0.4                    | 1.08                 | 9                      | <10                   | 180                    | <0.5                   | 2                      | 0.24                 | <0.5                   | 6                      | 39                     | 10                     | 2.46                 |
| ZZ05408            |                                   | 0.26                       | 0.002                  | <0.2                   | 1.12                 | 10                     | <10                   | 280                    | <0.5                   | 2                      | 0.50                 | <0.5                   | 12                     | 51                     | 34                     | 2.45                 |
| ZZ05409            |                                   | 0.12                       | 0.002                  | <0.2                   | 1.22                 | 8                      | <10                   | 230                    | <0.5                   | <2                     | 0.62                 | <0.5                   | 12                     | 52                     | 23                     | 2.73                 |
| ZZ05410            |                                   | 0.14                       | 0.002                  | <0.2                   | 1.10                 | 7                      | <10                   | 270                    | <0.5                   | <2                     | 0.45                 | <0.5                   | 11                     | 50                     | 25                     | 2.45                 |



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Page: 5 - B  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
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Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05371            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.61                         | 466                         | 3                           | 0.01                         | 71                          | 1380                        | 16                          | 0.02                        | 5                           | 4                           | 53                          |
| ZZ05372            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.56                         | 606                         | 2                           | 0.01                         | 86                          | 1030                        | 28                          | 0.07                        | 5                           | 4                           | 64                          |
| ZZ05373            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.51                         | 504                         | 4                           | 0.01                         | 73                          | 1240                        | 23                          | 0.03                        | 7                           | 3                           | 60                          |
| ZZ05374            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.46                         | 423                         | 3                           | 0.01                         | 52                          | 1210                        | 17                          | 0.03                        | 6                           | 3                           | 54                          |
| ZZ05375            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.22                         | 312                         | 4                           | 0.01                         | 55                          | 1070                        | 8                           | 0.04                        | 4                           | 3                           | 42                          |
| ZZ05376            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.12                         | 215                         | <1                          | 0.03                         | 17                          | 560                         | 5                           | 0.04                        | <2                          | 1                           | 31                          |
| ZZ05377            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.42                         | 805                         | <1                          | 0.02                         | 34                          | 820                         | 7                           | 0.05                        | 2                           | 1                           | 48                          |
| ZZ05378            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.50                         | 418                         | <1                          | 0.01                         | 42                          | 780                         | 9                           | 0.05                        | 2                           | 2                           | 51                          |
| ZZ05379            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.40                         | 1065                        | <1                          | 0.02                         | 42                          | 620                         | 15                          | 0.04                        | 3                           | 2                           | 38                          |
| ZZ05380            |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.35                         | 206                         | 1                           | <0.01                        | 27                          | 220                         | 10                          | <0.01                       | 3                           | 3                           | 16                          |
| ZZ05381            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.39                         | 322                         | <1                          | 0.01                         | 43                          | 270                         | 13                          | 0.01                        | 2                           | 3                           | 26                          |
| ZZ05382            |                                   | <10                          | 1                           | 0.10                        | 20                           | 0.68                         | 417                         | <1                          | 0.01                         | 60                          | 1250                        | 14                          | 0.05                        | 3                           | 3                           | 50                          |
| ZZ05383            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.79                         | 561                         | <1                          | 0.01                         | 51                          | 1020                        | 10                          | 0.04                        | 2                           | 4                           | 39                          |
| ZZ05384            |                                   | <10                          | 1                           | 0.08                        | 10                           | 0.94                         | 456                         | <1                          | 0.02                         | 49                          | 930                         | 8                           | 0.06                        | 2                           | 3                           | 56                          |
| ZZ05385            |                                   | <10                          | <1                          | 0.11                        | 20                           | 0.65                         | 437                         | 1                           | 0.01                         | 69                          | 980                         | 13                          | 0.03                        | 3                           | 4                           | 43                          |
| ZZ05386            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.70                         | 1035                        | <1                          | 0.02                         | 63                          | 980                         | 12                          | 0.07                        | 3                           | 4                           | 45                          |
| ZZ05387            |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.71                         | 514                         | 1                           | 0.01                         | 59                          | 1050                        | 16                          | 0.03                        | 4                           | 3                           | 43                          |
| ZZ05388            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.75                         | 250                         | 3                           | 0.01                         | 76                          | 940                         | 14                          | 0.02                        | 5                           | 4                           | 39                          |
| ZZ05389            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.53                         | 331                         | 4                           | 0.01                         | 94                          | 1010                        | 20                          | 0.07                        | 9                           | 2                           | 75                          |
| ZZ05390            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.64                         | 982                         | <1                          | 0.04                         | 64                          | 1060                        | 12                          | 0.06                        | 4                           | 3                           | 55                          |
| ZZ05391            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.53                         | 380                         | 1                           | 0.01                         | 59                          | 380                         | 15                          | <0.01                       | 3                           | 4                           | 20                          |
| ZZ05392            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.53                         | 292                         | 1                           | 0.01                         | 42                          | 880                         | 12                          | 0.02                        | 4                           | 2                           | 42                          |
| ZZ05393            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.72                         | 418                         | 1                           | 0.02                         | 84                          | 840                         | 11                          | 0.02                        | 3                           | 3                           | 33                          |
| ZZ05394            |                                   | <10                          | <1                          | 0.13                        | 20                           | 1.27                         | 766                         | 1                           | 0.01                         | 120                         | 790                         | 17                          | 0.02                        | 3                           | 5                           | 55                          |
| ZZ05395            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.53                         | 3160                        | 2                           | 0.01                         | 70                          | 1320                        | 13                          | 0.16                        | 4                           | 2                           | 73                          |
| ZZ05396            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.46                         | 1675                        | 1                           | 0.01                         | 62                          | 1200                        | 15                          | 0.13                        | 4                           | 3                           | 60                          |
| ZZ05397            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.46                         | 126                         | <1                          | 0.01                         | 37                          | 1260                        | 14                          | 0.09                        | 4                           | 2                           | 49                          |
| ZZ05398            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.44                         | 786                         | 1                           | 0.01                         | 40                          | 1310                        | 13                          | 0.11                        | 4                           | 2                           | 64                          |
| ZZ05399            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.51                         | 346                         | <1                          | 0.01                         | 47                          | 1310                        | 13                          | 0.06                        | 4                           | 3                           | 50                          |
| ZZ05400            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.40                         | 249                         | 1                           | 0.01                         | 52                          | 1400                        | 13                          | 0.10                        | 5                           | 3                           | 49                          |
| ZZ05401            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.91                         | 951                         | 2                           | 0.01                         | 61                          | 920                         | 10                          | 0.04                        | <2                          | 4                           | 52                          |
| ZZ05402            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.78                         | 474                         | 1                           | 0.01                         | 57                          | 830                         | 10                          | 0.07                        | 3                           | 4                           | 59                          |
| ZZ05403            |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.41                         | 360                         | 2                           | <0.01                        | 20                          | 370                         | 8                           | 0.01                        | 2                           | 2                           | 9                           |
| ZZ05404            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.60                         | 464                         | 5                           | 0.01                         | 44                          | 770                         | 16                          | 0.03                        | 6                           | 3                           | 40                          |
| ZZ05405            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.84                         | 519                         | 2                           | 0.01                         | 76                          | 810                         | 17                          | 0.02                        | 4                           | 5                           | 35                          |
| ZZ05406            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.18                         | 113                         | 1                           | 0.01                         | 10                          | 260                         | 5                           | 0.04                        | <2                          | 1                           | 24                          |
| ZZ05407            |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.48                         | 236                         | 2                           | <0.01                        | 21                          | 330                         | 9                           | 0.02                        | 2                           | 2                           | 14                          |
| ZZ05408            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.79                         | 405                         | 1                           | 0.01                         | 59                          | 1000                        | 9                           | 0.01                        | 2                           | 4                           | 33                          |
| ZZ05409            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.81                         | 471                         | 1                           | 0.01                         | 41                          | 1010                        | 9                           | 0.02                        | 2                           | 4                           | 33                          |
| ZZ05410            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.81                         | 387                         | 1                           | 0.01                         | 51                          | 840                         | 11                          | 0.02                        | 2                           | 3                           | 27                          |



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Page: 5 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 3- OCT- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05371            |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 132       |
| ZZ05372            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 112       |
| ZZ05373            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 177       |
| ZZ05374            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 109       |
| ZZ05375            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 233       |
| ZZ05376            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 27        |
| ZZ05377            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 70        |
| ZZ05378            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 92        |
| ZZ05379            |                                   | <20       | 0.01      | <10       | <10       | 36        | <10       | 107       |
| ZZ05380            |                                   | <20       | 0.01      | <10       | <10       | 72        | <10       | 65        |
| ZZ05381            |                                   | <20       | 0.01      | <10       | <10       | 62        | <10       | 67        |
| ZZ05382            |                                   | <20       | 0.02      | <10       | <10       | 44        | <10       | 89        |
| ZZ05383            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 91        |
| ZZ05384            |                                   | <20       | 0.02      | <10       | <10       | 36        | <10       | 100       |
| ZZ05385            |                                   | <20       | 0.02      | <10       | <10       | 48        | <10       | 119       |
| ZZ05386            |                                   | <20       | 0.02      | <10       | <10       | 47        | <10       | 118       |
| ZZ05387            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 126       |
| ZZ05388            |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       | 129       |
| ZZ05389            |                                   | <20       | 0.01      | <10       | <10       | 47        | <10       | 189       |
| ZZ05390            |                                   | <20       | 0.02      | <10       | <10       | 40        | <10       | 109       |
| ZZ05391            |                                   | <20       | 0.01      | <10       | <10       | 56        | <10       | 81        |
| ZZ05392            |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 77        |
| ZZ05393            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 74        |
| ZZ05394            |                                   | <20       | 0.02      | <10       | <10       | 49        | <10       | 108       |
| ZZ05395            |                                   | <20       | 0.01      | <10       | <10       | 32        | <10       | 210       |
| ZZ05396            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 143       |
| ZZ05397            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 124       |
| ZZ05398            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 117       |
| ZZ05399            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 148       |
| ZZ05400            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 139       |
| ZZ05401            |                                   | <20       | 0.07      | <10       | <10       | 49        | <10       | 95        |
| ZZ05402            |                                   | <20       | 0.04      | <10       | <10       | 48        | <10       | 98        |
| ZZ05403            |                                   | <20       | 0.09      | <10       | <10       | 58        | <10       | 47        |
| ZZ05404            |                                   | <20       | 0.05      | <10       | <10       | 64        | <10       | 149       |
| ZZ05405            |                                   | <20       | 0.05      | <10       | <10       | 51        | <10       | 95        |
| ZZ05406            |                                   | <20       | 0.04      | <10       | <10       | 28        | <10       | 28        |
| ZZ05407            |                                   | <20       | 0.12      | <10       | <10       | 53        | <10       | 44        |
| ZZ05408            |                                   | <20       | 0.09      | <10       | <10       | 39        | <10       | 74        |
| ZZ05409            |                                   | <20       | 0.11      | <10       | <10       | 43        | <10       | 83        |
| ZZ05410            |                                   | <20       | 0.06      | <10       | <10       | 38        | <10       | 76        |



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**Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 3- OCT- 2011  
Account: F**

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159784**

| Method      | CERTIFICATE COMMENTS           |
|-------------|--------------------------------|
| ALL METHODS | NSS is non- sufficient sample. |



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Page: 1  
Finalized Date: 4- OCT- 2011  
Account: F

**CERTIFICATE WH11159785**

Project: Wolverine- String

P.O. No.:

This report is for 142 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                     |
|----------|---------------------------------|
| WEI- 21  | Received Sample Weight          |
| LOG- 22  | Sample login - Rcd w/o BarCode  |
| SCR- 41  | Screen to - 180um and save both |

**ANALYTICAL PROCEDURES**

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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 4- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05411            |                                   | 0.12                       | 0.006                  | 0.2                    | 1.16                 | 14                     | <10                   | 240                    | <0.5                   | <2                     | 0.48                 | <0.5                   | 10                     | 43                     | 39                     | 2.16                 |
| ZZ05412            |                                   | 0.18                       | 0.008                  | 0.3                    | 1.55                 | 15                     | <10                   | 300                    | 0.5                    | <2                     | 0.55                 | 0.8                    | 11                     | 64                     | 57                     | 2.64                 |
| ZZ05413            |                                   | 0.16                       | 0.010                  | 0.5                    | 1.27                 | 19                     | <10                   | 330                    | <0.5                   | <2                     | 0.54                 | 1.1                    | 9                      | 49                     | 63                     | 2.30                 |
| ZZ05414            |                                   | 0.20                       | 0.011                  | 0.4                    | 0.98                 | 25                     | <10                   | 270                    | <0.5                   | <2                     | 0.38                 | 0.7                    | 7                      | 25                     | 53                     | 2.42                 |
| ZZ05415            |                                   | 0.20                       | 0.008                  | 0.4                    | 1.15                 | 16                     | <10                   | 250                    | <0.5                   | <2                     | 0.55                 | 0.9                    | 10                     | 38                     | 46                     | 2.25                 |
| ZZ05416            |                                   | 0.08                       | 0.017                  | 0.4                    | 0.69                 | 35                     | <10                   | 240                    | <0.5                   | <2                     | 1.10                 | 1.7                    | 18                     | 14                     | 29                     | 1.93                 |
| ZZ05417            |                                   | 0.10                       | 0.013                  | 0.6                    | 0.86                 | 30                     | <10                   | 270                    | <0.5                   | <2                     | 0.65                 | 1.1                    | 3                      | 24                     | 48                     | 1.74                 |
| ZZ05418            |                                   | 0.16                       | 0.014                  | 0.6                    | 1.12                 | 25                     | <10                   | 280                    | <0.5                   | <2                     | 0.40                 | 0.9                    | 8                      | 31                     | 56                     | 2.34                 |
| ZZ05419            |                                   | 0.20                       | 0.014                  | 0.6                    | 1.07                 | 40                     | <10                   | 270                    | <0.5                   | <2                     | 0.37                 | 0.9                    | 7                      | 25                     | 53                     | 2.11                 |
| ZZ05420            |                                   | 0.10                       | 0.013                  | 0.4                    | 0.96                 | 55                     | <10                   | 190                    | <0.5                   | <2                     | 0.91                 | 1.1                    | 15                     | 17                     | 38                     | 3.17                 |
| ZZ05421            |                                   | 0.12                       | 0.007                  | <0.2                   | 0.94                 | 19                     | <10                   | 100                    | <0.5                   | <2                     | 0.92                 | 0.6                    | 12                     | 16                     | 28                     | 2.48                 |
| ZZ05422            |                                   | 0.16                       | 0.017                  | 0.2                    | 0.70                 | 18                     | <10                   | 110                    | <0.5                   | <2                     | 0.95                 | 0.5                    | 10                     | 13                     | 29                     | 2.33                 |
| ZZ05423            |                                   | 0.18                       | 0.011                  | 0.3                    | 0.93                 | 27                     | <10                   | 140                    | <0.5                   | <2                     | 1.15                 | 0.8                    | 12                     | 26                     | 75                     | 2.86                 |
| ZZ05424            |                                   | 0.16                       | 0.008                  | 0.4                    | 0.84                 | 36                     | <10                   | 200                    | <0.5                   | <2                     | 1.03                 | 1.2                    | 13                     | 18                     | 61                     | 3.48                 |
| ZZ05425            |                                   | 0.22                       | 0.006                  | <0.2                   | 0.91                 | 17                     | <10                   | 90                     | <0.5                   | <2                     | 0.62                 | 0.8                    | 13                     | 17                     | 40                     | 3.18                 |
| ZZ05426            |                                   | 0.10                       | 0.005                  | <0.2                   | 0.75                 | 21                     | <10                   | 90                     | <0.5                   | <2                     | 1.19                 | <0.5                   | 10                     | 11                     | 26                     | 2.78                 |
| ZZ05427            |                                   | 0.08                       | 0.013                  | 0.3                    | 1.16                 | 41                     | <10                   | 260                    | 0.5                    | <2                     | 0.70                 | 0.6                    | 11                     | 35                     | 66                     | 3.23                 |
| ZZ05428            |                                   | 0.16                       | 0.007                  | 0.2                    | 1.42                 | 32                     | <10                   | 140                    | <0.5                   | <2                     | 1.16                 | 0.8                    | 14                     | 33                     | 46                     | 3.35                 |
| ZZ05429            |                                   | 0.06                       | 0.020                  | <0.2                   | 0.74                 | 31                     | <10                   | 40                     | <0.5                   | <2                     | 0.03                 | <0.5                   | 4                      | 18                     | 14                     | 1.68                 |
| ZZ05430            |                                   | 0.14                       | 0.007                  | 0.2                    | 0.96                 | 36                     | <10                   | 130                    | <0.5                   | <2                     | 0.51                 | 3.1                    | 11                     | 23                     | 46                     | 2.50                 |
| ZZ05431            |                                   | 0.08                       | 0.032                  | 0.2                    | 1.81                 | 18                     | <10                   | 180                    | <0.5                   | <2                     | 0.19                 | <0.5                   | 9                      | 52                     | 19                     | 3.19                 |
| ZZ05432            |                                   | 0.04                       | NSS                    | 0.4                    | 0.83                 | 7                      | <10                   | 790                    | <0.5                   | <2                     | 0.80                 | 1.9                    | 11                     | 24                     | 27                     | 2.00                 |
| ZZ05433            |                                   | 0.08                       | 0.007                  | 0.3                    | 1.10                 | 8                      | <10                   | 300                    | <0.5                   | <2                     | 0.96                 | <0.5                   | 6                      | 36                     | 12                     | 2.00                 |
| ZZ05434            |                                   | 0.04                       | NSS                    | 0.2                    | 0.66                 | 8                      | <10                   | 530                    | <0.5                   | <2                     | 0.13                 | 0.8                    | 4                      | 36                     | 25                     | 1.56                 |
| ZZ05435            |                                   | 0.08                       | 0.008                  | 0.4                    | 1.16                 | 16                     | <10                   | 350                    | <0.5                   | <2                     | 0.46                 | 0.5                    | 7                      | 51                     | 43                     | 2.28                 |
| ZZ05436            |                                   | 0.12                       | 0.008                  | 0.3                    | 1.12                 | 48                     | <10                   | 200                    | <0.5                   | <2                     | 1.48                 | 1.6                    | 7                      | 32                     | 30                     | 2.06                 |
| ZZ05437            |                                   | 0.10                       | 0.021                  | 0.7                    | 0.70                 | 43                     | <10                   | 280                    | <0.5                   | <2                     | 0.54                 | 0.8                    | 9                      | 18                     | 127                    | 2.87                 |
| ZZ05438            |                                   | 0.02                       | 0.011                  | 0.5                    | 0.36                 | 64                     | <10                   | 140                    | <0.5                   | <2                     | 1.93                 | <0.5                   | 80                     | 28                     | 136                    | 9.47                 |
| ZZ05439            |                                   | 0.08                       | 0.005                  | <0.2                   | 2.02                 | 35                     | <10                   | 330                    | 0.6                    | <2                     | 0.12                 | <0.5                   | 16                     | 63                     | 45                     | 6.06                 |
| ZZ05440            |                                   | 0.26                       | 0.012                  | 0.4                    | 0.87                 | 26                     | <10                   | 140                    | 0.5                    | <2                     | 1.11                 | 0.9                    | 18                     | 20                     | 93                     | 3.68                 |
| ZZ05441            |                                   | 0.16                       | 0.010                  | 0.4                    | 1.13                 | 28                     | <10                   | 190                    | <0.5                   | <2                     | 0.55                 | 0.7                    | 15                     | 26                     | 98                     | 3.95                 |
| ZZ05442            |                                   | 0.08                       | 0.012                  | 0.4                    | 0.67                 | 18                     | <10                   | 160                    | <0.5                   | <2                     | 0.96                 | 0.5                    | 7                      | 14                     | 49                     | 1.73                 |
| ZZ05443            |                                   | 0.14                       | 0.008                  | 0.4                    | 0.70                 | 35                     | <10                   | 210                    | <0.5                   | <2                     | 0.62                 | 0.5                    | 16                     | 23                     | 61                     | 3.63                 |
| ZZ05444            |                                   | 0.14                       | 0.010                  | <0.2                   | 0.37                 | 97                     | <10                   | 100                    | <0.5                   | <2                     | 3.03                 | 0.7                    | 14                     | 9                      | 42                     | 4.01                 |
| ZZ05445            |                                   | 0.04                       | NSS                    | <0.2                   | 2.39                 | 6                      | <10                   | 60                     | <0.5                   | <2                     | 1.38                 | <0.5                   | 17                     | 33                     | 42                     | 3.95                 |
| ZZ05446            |                                   | 0.12                       | 0.008                  | 0.4                    | 0.87                 | 18                     | <10                   | 260                    | <0.5                   | <2                     | 0.53                 | 0.9                    | 9                      | 28                     | 49                     | 2.25                 |
| ZZ05447            |                                   | 0.22                       | 0.010                  | 0.4                    | 0.71                 | 28                     | <10                   | 190                    | <0.5                   | <2                     | 3.23                 | 1.4                    | 15                     | 24                     | 52                     | 3.09                 |
| ZZ05448            |                                   | 0.12                       | 0.009                  | 0.4                    | 0.71                 | 37                     | <10                   | 200                    | 0.5                    | <2                     | 0.97                 | 0.6                    | 16                     | 26                     | 43                     | 4.00                 |
| ZZ05449            |                                   | 0.16                       | 0.007                  | 0.2                    | 0.96                 | 13                     | <10                   | 130                    | <0.5                   | <2                     | 2.31                 | 0.7                    | 18                     | 22                     | 40                     | 3.70                 |
| ZZ05450            |                                   | 0.14                       | 0.018                  | 0.3                    | 1.13                 | 20                     | <10                   | 260                    | <0.5                   | <2                     | 0.50                 | 0.8                    | 12                     | 57                     | 46                     | 2.19                 |



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Page: 2 - B  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 4- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05411            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.63                         | 499                         | 1                           | 0.01                         | 37                          | 990                         | 12                          | 0.02                        | <2                          | 3                           | 34                          |
| ZZ05412            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.82                         | 304                         | <1                          | 0.01                         | 52                          | 820                         | 12                          | 0.02                        | 2                           | 5                           | 40                          |
| ZZ05413            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.66                         | 400                         | 1                           | 0.01                         | 45                          | 1010                        | 14                          | 0.02                        | 2                           | 4                           | 55                          |
| ZZ05414            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.39                         | 211                         | 2                           | <0.01                        | 29                          | 1010                        | 14                          | 0.01                        | 4                           | 2                           | 52                          |
| ZZ05415            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.56                         | 300                         | 2                           | 0.01                         | 39                          | 1180                        | 10                          | 0.03                        | 2                           | 3                           | 53                          |
| ZZ05416            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.26                         | 3460                        | 6                           | 0.02                         | 25                          | 1280                        | 12                          | 0.07                        | <2                          | 1                           | 91                          |
| ZZ05417            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.32                         | 157                         | 2                           | 0.01                         | 23                          | 1670                        | 16                          | 0.03                        | 4                           | 2                           | 74                          |
| ZZ05418            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.44                         | 258                         | 3                           | <0.01                        | 34                          | 1290                        | 13                          | 0.02                        | 4                           | 3                           | 49                          |
| ZZ05419            |                                   | <10                          | 1                           | 0.07                        | 20                           | 0.37                         | 111                         | 2                           | 0.01                         | 27                          | 1350                        | 23                          | 0.02                        | 5                           | 3                           | 50                          |
| ZZ05420            |                                   | <10                          | 1                           | 0.04                        | 10                           | 0.35                         | 915                         | 3                           | 0.01                         | 32                          | 1280                        | 18                          | 0.07                        | 4                           | 2                           | 63                          |
| ZZ05421            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.44                         | 589                         | <1                          | <0.01                        | 27                          | 810                         | 13                          | 0.07                        | <2                          | 3                           | 36                          |
| ZZ05422            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.29                         | 445                         | <1                          | 0.01                         | 28                          | 910                         | 10                          | 0.05                        | 2                           | 2                           | 39                          |
| ZZ05423            |                                   | <10                          | 1                           | 0.09                        | 20                           | 0.52                         | 347                         | 2                           | 0.01                         | 50                          | 1110                        | 11                          | 0.04                        | 4                           | 3                           | 55                          |
| ZZ05424            |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.33                         | 1025                        | 2                           | 0.01                         | 50                          | 990                         | 10                          | 0.05                        | 2                           | 2                           | 49                          |
| ZZ05425            |                                   | <10                          | 1                           | 0.05                        | 30                           | 0.43                         | 322                         | 1                           | <0.01                        | 37                          | 840                         | 12                          | 0.03                        | 2                           | 3                           | 32                          |
| ZZ05426            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.40                         | 267                         | <1                          | <0.01                        | 25                          | 570                         | 10                          | 0.06                        | <2                          | 2                           | 55                          |
| ZZ05427            |                                   | <10                          | 1                           | 0.08                        | 20                           | 0.59                         | 332                         | 2                           | 0.01                         | 54                          | 1160                        | 14                          | 0.03                        | 4                           | 4                           | 44                          |
| ZZ05428            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.79                         | 433                         | 1                           | <0.01                        | 48                          | 830                         | 14                          | 0.02                        | <2                          | 4                           | 55                          |
| ZZ05429            |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.11                         | 126                         | 3                           | <0.01                        | 17                          | 220                         | 7                           | 0.01                        | 3                           | 1                           | 7                           |
| ZZ05430            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.40                         | 244                         | 1                           | <0.01                        | 38                          | 890                         | 13                          | 0.05                        | 4                           | 4                           | 30                          |
| ZZ05431            |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.62                         | 363                         | 1                           | <0.01                        | 29                          | 700                         | 10                          | 0.02                        | <2                          | 3                           | 16                          |
| ZZ05432            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.34                         | 4070                        | 7                           | 0.02                         | 20                          | 1080                        | 7                           | 0.11                        | 2                           | 1                           | 72                          |
| ZZ05433            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.58                         | 302                         | 3                           | 0.01                         | 16                          | 1170                        | 8                           | 0.08                        | 2                           | 3                           | 62                          |
| ZZ05434            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.12                         | 128                         | 2                           | 0.02                         | 19                          | 450                         | 8                           | 0.02                        | <2                          | 1                           | 19                          |
| ZZ05435            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.63                         | 840                         | 3                           | <0.01                        | 34                          | 1350                        | 10                          | 0.02                        | <2                          | 4                           | 34                          |
| ZZ05436            |                                   | 10                           | 1                           | 0.06                        | 20                           | 0.66                         | 338                         | 4                           | 0.01                         | 39                          | 1130                        | 10                          | 0.10                        | 3                           | 3                           | 86                          |
| ZZ05437            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.19                         | 331                         | 7                           | 0.01                         | 47                          | 2130                        | 15                          | 0.04                        | 6                           | 2                           | 90                          |
| ZZ05438            |                                   | <10                          | 1                           | 0.05                        | <10                          | 0.48                         | 788                         | 1                           | 0.01                         | 174                         | 980                         | 9                           | 0.64                        | 9                           | 6                           | 61                          |
| ZZ05439            |                                   | 10                           | <1                          | 0.07                        | 20                           | 0.40                         | 402                         | 3                           | <0.01                        | 68                          | 900                         | 10                          | 0.02                        | 6                           | 3                           | 37                          |
| ZZ05440            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.41                         | 358                         | 3                           | 0.01                         | 55                          | 1260                        | 16                          | 0.05                        | 4                           | 3                           | 55                          |
| ZZ05441            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.43                         | 318                         | 3                           | 0.01                         | 49                          | 1480                        | 11                          | 0.02                        | 4                           | 6                           | 48                          |
| ZZ05442            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.19                         | 570                         | 1                           | 0.01                         | 31                          | 750                         | 6                           | 0.04                        | 2                           | 2                           | 49                          |
| ZZ05443            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.26                         | 477                         | 2                           | <0.01                        | 56                          | 730                         | 12                          | 0.02                        | 4                           | 4                           | 27                          |
| ZZ05444            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.39                         | 585                         | <1                          | 0.01                         | 38                          | 690                         | 8                           | 0.04                        | 6                           | 3                           | 51                          |
| ZZ05445            |                                   | 10                           | <1                          | 0.03                        | 50                           | 1.68                         | 219                         | <1                          | 0.01                         | 33                          | 730                         | 13                          | 0.03                        | 4                           | 4                           | 48                          |
| ZZ05446            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.33                         | 182                         | 2                           | <0.01                        | 42                          | 980                         | 15                          | 0.03                        | 4                           | 3                           | 35                          |
| ZZ05447            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.39                         | 657                         | 3                           | 0.01                         | 57                          | 950                         | 12                          | 0.02                        | 4                           | 4                           | 52                          |
| ZZ05448            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.32                         | 489                         | 2                           | 0.01                         | 54                          | 680                         | 9                           | 0.03                        | 3                           | 3                           | 27                          |
| ZZ05449            |                                   | <10                          | <1                          | 0.05                        | 20                           | 0.54                         | 675                         | 1                           | 0.01                         | 49                          | 700                         | 10                          | 0.02                        | 3                           | 3                           | 34                          |
| ZZ05450            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.65                         | 279                         | 1                           | <0.01                        | 65                          | 1090                        | 17                          | 0.03                        | 4                           | 4                           | 34                          |



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Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 4- OCT- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05411            |                                   | <20       | 0.05      | <10       | <10       | 40        | <10       | 81        |
| ZZ05412            |                                   | <20       | 0.06      | <10       | <10       | 53        | <10       | 106       |
| ZZ05413            |                                   | <20       | 0.03      | <10       | <10       | 41        | <10       | 126       |
| ZZ05414            |                                   | <20       | 0.01      | <10       | <10       | 31        | <10       | 118       |
| ZZ05415            |                                   | <20       | 0.04      | <10       | <10       | 40        | <10       | 124       |
| ZZ05416            |                                   | <20       | 0.02      | <10       | <10       | 27        | <10       | 121       |
| ZZ05417            |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 105       |
| ZZ05418            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 131       |
| ZZ05419            |                                   | <20       | 0.01      | <10       | <10       | 33        | <10       | 123       |
| ZZ05420            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 141       |
| ZZ05421            |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 121       |
| ZZ05422            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 111       |
| ZZ05423            |                                   | <20       | 0.02      | <10       | <10       | 29        | <10       | 155       |
| ZZ05424            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 180       |
| ZZ05425            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 127       |
| ZZ05426            |                                   | <20       | <0.01     | <10       | <10       | 12        | <10       | 103       |
| ZZ05427            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 138       |
| ZZ05428            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 130       |
| ZZ05429            |                                   | <20       | 0.02      | <10       | <10       | 51        | <10       | 109       |
| ZZ05430            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 434       |
| ZZ05431            |                                   | <20       | 0.14      | <10       | <10       | 55        | <10       | 87        |
| ZZ05432            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 71        |
| ZZ05433            |                                   | <20       | 0.04      | <10       | <10       | 32        | <10       | 79        |
| ZZ05434            |                                   | <20       | 0.04      | <10       | <10       | 31        | <10       | 32        |
| ZZ05435            |                                   | <20       | 0.05      | <10       | <10       | 43        | <10       | 107       |
| ZZ05436            |                                   | <20       | 0.05      | <10       | <10       | 37        | <10       | 256       |
| ZZ05437            |                                   | <20       | 0.01      | <10       | <10       | 29        | <10       | 171       |
| ZZ05438            |                                   | <20       | <0.01     | <10       | <10       | 25        | <10       | 35        |
| ZZ05439            |                                   | <20       | 0.01      | <10       | <10       | 56        | <10       | 140       |
| ZZ05440            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 150       |
| ZZ05441            |                                   | <20       | 0.01      | <10       | <10       | 44        | <10       | 153       |
| ZZ05442            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 86        |
| ZZ05443            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 135       |
| ZZ05444            |                                   | <20       | <0.01     | <10       | <10       | 9         | <10       | 90        |
| ZZ05445            |                                   | <20       | 0.01      | <10       | <10       | 14        | <10       | 101       |
| ZZ05446            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 176       |
| ZZ05447            |                                   | <20       | 0.01      | <10       | <10       | 25        | <10       | 176       |
| ZZ05448            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 128       |
| ZZ05449            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 123       |
| ZZ05450            |                                   | <20       | 0.02      | <10       | <10       | 42        | <10       | 129       |



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Page: 3 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 4- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05451            |                                   | 0.54                       | 0.006                  | 0.3                    | 1.54                 | 14                     | <10                   | 510                    | 0.5                    | <2                     | 0.58                 | 1.2                    | 16                     | 75                     | 56                     | 3.08                 |
| ZZ05452            |                                   | 0.62                       | 0.006                  | 0.5                    | 1.35                 | 16                     | <10                   | 1080                   | 0.5                    | <2                     | 0.46                 | 1.4                    | 14                     | 60                     | 75                     | 2.96                 |
| ZZ05453            |                                   | 0.28                       | 0.001                  | <0.2                   | 1.13                 | 8                      | <10                   | 250                    | <0.5                   | <2                     | 0.18                 | 0.7                    | 8                      | 50                     | 9                      | 2.49                 |
| ZZ05454            |                                   | 0.50                       | 0.011                  | 0.6                    | 0.63                 | 15                     | <10                   | 300                    | <0.5                   | <2                     | 0.76                 | 1.1                    | 16                     | 22                     | 137                    | 3.63                 |
| ZZ05455            |                                   | 0.30                       | 0.002                  | <0.2                   | 1.68                 | 11                     | <10                   | 300                    | <0.5                   | <2                     | 0.36                 | 0.6                    | 14                     | 90                     | 21                     | 3.29                 |
| ZZ05456            |                                   | 0.32                       | 0.007                  | 0.3                    | 0.91                 | 25                     | <10                   | 540                    | <0.5                   | <2                     | 0.37                 | 0.6                    | 9                      | 37                     | 74                     | 2.50                 |
| ZZ05457            |                                   | 0.30                       | 0.004                  | 0.3                    | 1.26                 | 13                     | <10                   | 350                    | <0.5                   | <2                     | 0.73                 | <0.5                   | 11                     | 50                     | 30                     | 2.26                 |
| ZZ05458            |                                   | 0.44                       | 0.004                  | 0.3                    | 1.53                 | 9                      | <10                   | 570                    | 0.5                    | <2                     | 1.23                 | 0.5                    | 15                     | 75                     | 50                     | 2.79                 |
| ZZ05459            |                                   | 0.32                       | 0.005                  | <0.2                   | 1.28                 | 8                      | <10                   | 330                    | <0.5                   | <2                     | 0.46                 | <0.5                   | 13                     | 65                     | 34                     | 2.79                 |
| ZZ05460            |                                   | 0.32                       | 0.001                  | <0.2                   | 1.39                 | 7                      | <10                   | 280                    | <0.5                   | <2                     | 0.58                 | <0.5                   | 15                     | 61                     | 17                     | 2.93                 |
| ZZ05461            |                                   | 0.46                       | 0.002                  | <0.2                   | 1.39                 | 8                      | <10                   | 320                    | <0.5                   | <2                     | 0.35                 | <0.5                   | 12                     | 79                     | 18                     | 2.75                 |
| ZZ05462            |                                   | 0.46                       | 0.002                  | <0.2                   | 1.37                 | 7                      | <10                   | 420                    | <0.5                   | <2                     | 0.87                 | 1.0                    | 13                     | 61                     | 26                     | 2.63                 |
| ZZ05463            |                                   | 0.40                       | 0.002                  | <0.2                   | 1.60                 | 11                     | <10                   | 250                    | <0.5                   | <2                     | 0.29                 | <0.5                   | 13                     | 77                     | 22                     | 3.07                 |
| ZZ05464            |                                   | 0.44                       | 0.009                  | 0.5                    | 1.12                 | 31                     | <10                   | 510                    | 0.7                    | <2                     | 0.42                 | 0.6                    | 9                      | 39                     | 120                    | 2.98                 |
| ZZ05465            |                                   | 0.44                       | 0.001                  | 0.7                    | 1.69                 | 10                     | <10                   | 150                    | <0.5                   | <2                     | 0.14                 | 0.8                    | 8                      | 41                     | 20                     | 2.99                 |
| ZZ05466            |                                   | 0.48                       | 0.003                  | 0.2                    | 1.49                 | 14                     | <10                   | 220                    | <0.5                   | <2                     | 0.21                 | 0.5                    | 11                     | 46                     | 23                     | 3.19                 |
| ZZ05467            |                                   | 0.46                       | 0.007                  | 0.3                    | 1.24                 | 12                     | <10                   | 370                    | <0.5                   | <2                     | 0.53                 | 0.7                    | 10                     | 40                     | 47                     | 2.47                 |
| ZZ05468            |                                   | 0.38                       | 0.007                  | 0.5                    | 1.07                 | 16                     | <10                   | 360                    | <0.5                   | <2                     | 0.86                 | 1.6                    | 12                     | 31                     | 64                     | 2.61                 |
| ZZ05469            |                                   | 0.58                       | 0.010                  | 0.4                    | 1.47                 | 27                     | <10                   | 410                    | 0.6                    | <2                     | 0.10                 | 0.6                    | 12                     | 42                     | 71                     | 3.10                 |
| ZZ05470            |                                   | 0.34                       | 0.003                  | <0.2                   | 1.46                 | 18                     | <10                   | 240                    | 0.6                    | <2                     | 0.29                 | 0.5                    | 10                     | 51                     | 31                     | 2.90                 |
| ZZ05471            |                                   | 0.40                       | 0.004                  | 0.5                    | 0.76                 | 24                     | <10                   | 340                    | <0.5                   | <2                     | 0.32                 | 1.2                    | 9                      | 29                     | 30                     | 2.36                 |
| ZZ05472            |                                   | 0.46                       | 0.013                  | 2.2                    | 1.21                 | 46                     | <10                   | 390                    | 0.6                    | <2                     | 0.16                 | 2.1                    | 12                     | 52                     | 74                     | 3.05                 |
| ZZ05473            |                                   | 0.36                       | 0.005                  | 0.7                    | 0.82                 | 43                     | <10                   | 300                    | <0.5                   | <2                     | 0.21                 | 0.7                    | 5                      | 20                     | 45                     | 2.32                 |
| ZZ05474            |                                   | 0.48                       | 0.003                  | 0.4                    | 0.60                 | 37                     | <10                   | 120                    | <0.5                   | <2                     | 0.98                 | 0.5                    | 14                     | 13                     | 37                     | 3.30                 |
| ZZ05476            |                                   | 0.28                       | 0.005                  | 0.5                    | 1.01                 | 17                     | <10                   | 200                    | <0.5                   | <2                     | 1.54                 | 1.1                    | 14                     | 19                     | 51                     | 3.14                 |
| ZZ05477            |                                   | 0.38                       | 0.003                  | 0.3                    | 1.47                 | 17                     | <10                   | 140                    | <0.5                   | <2                     | 0.88                 | <0.5                   | 14                     | 24                     | 41                     | 4.27                 |
| ZZ05478            |                                   | 0.24                       | 0.005                  | 0.3                    | 1.00                 | 13                     | <10                   | 190                    | <0.5                   | <2                     | 0.78                 | 0.5                    | 10                     | 22                     | 44                     | 2.68                 |
| ZZ05479            |                                   | 0.40                       | 0.007                  | 0.5                    | 1.03                 | 19                     | <10                   | 210                    | <0.5                   | <2                     | 0.58                 | 0.6                    | 8                      | 26                     | 50                     | 2.19                 |
| ZZ05480            |                                   | 0.40                       | 0.007                  | 0.6                    | 0.97                 | 31                     | <10                   | 210                    | <0.5                   | 2                      | 0.48                 | 0.5                    | 14                     | 23                     | 59                     | 3.30                 |
| ZZ05481            |                                   | 0.38                       | 0.005                  | 0.3                    | 1.15                 | 31                     | <10                   | 140                    | <0.5                   | <2                     | 0.61                 | 0.7                    | 14                     | 21                     | 41                     | 3.05                 |
| ZZ05482            |                                   | 0.40                       | 0.033                  | 0.4                    | 1.52                 | 354                    | <10                   | 360                    | 0.5                    | <2                     | 1.89                 | 0.7                    | 15                     | 25                     | 50                     | 4.37                 |
| ZZ05483            |                                   | 0.34                       | 0.039                  | 0.4                    | 1.49                 | 275                    | <10                   | 290                    | <0.5                   | <2                     | 1.07                 | 0.8                    | 16                     | 28                     | 59                     | 4.17                 |
| ZZ05484            |                                   | 0.26                       | 0.013                  | 0.5                    | 1.25                 | 98                     | <10                   | 360                    | 0.5                    | <2                     | 0.64                 | <0.5                   | 11                     | 43                     | 50                     | 2.93                 |
| ZZ05485            |                                   | 0.32                       | 0.013                  | 0.5                    | 1.49                 | 54                     | <10                   | 160                    | <0.5                   | <2                     | 0.46                 | 0.9                    | 14                     | 38                     | 50                     | 3.34                 |
| ZZ05486            |                                   | 0.32                       | 0.023                  | 0.5                    | 0.78                 | 88                     | <10                   | 120                    | <0.5                   | <2                     | 0.65                 | 0.7                    | 18                     | 20                     | 75                     | 4.07                 |
| ZZ05487            |                                   | 0.20                       | 0.006                  | 0.3                    | 0.85                 | 62                     | <10                   | 220                    | <0.5                   | <2                     | 1.01                 | 0.8                    | 11                     | 26                     | 33                     | 2.99                 |
| ZZ05488            |                                   | 0.36                       | 0.013                  | 0.5                    | 0.79                 | 50                     | <10                   | 250                    | <0.5                   | <2                     | 0.74                 | 0.5                    | 9                      | 26                     | 35                     | 2.85                 |
| ZZ05489            |                                   | 0.52                       | 0.013                  | 0.8                    | 0.77                 | 34                     | <10                   | 350                    | <0.5                   | <2                     | 1.03                 | 0.9                    | 10                     | 21                     | 60                     | 2.41                 |
| ZZ05490            |                                   | 0.38                       | 0.011                  | 0.6                    | 1.22                 | 61                     | <10                   | 450                    | 0.5                    | <2                     | 1.25                 | 0.7                    | 15                     | 41                     | 59                     | 3.51                 |
| ZZ05491            |                                   | 0.42                       | 0.007                  | 0.4                    | 1.05                 | 34                     | <10                   | 400                    | <0.5                   | <2                     | 1.26                 | 1.2                    | 14                     | 33                     | 54                     | 2.69                 |



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Page: 3 - B  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 4- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05451            |                                   | <10                          | <1                          | 0.11                        | 20                           | 1.00                         | 526                         | 1                           | 0.01                         | 99                          | 1010                        | 11                          | 0.03                        | 2                           | 5                           | 38                          |
| ZZ05452            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.76                         | 611                         | 2                           | 0.01                         | 73                          | 960                         | 12                          | 0.03                        | 2                           | 4                           | 40                          |
| ZZ05453            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.57                         | 382                         | 1                           | <0.01                        | 27                          | 270                         | 9                           | 0.02                        | <2                          | 2                           | 11                          |
| ZZ05454            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.30                         | 819                         | 8                           | 0.01                         | 56                          | 1880                        | 15                          | 0.05                        | 4                           | 3                           | 70                          |
| ZZ05455            |                                   | 10                           | <1                          | 0.08                        | 10                           | 1.02                         | 541                         | 2                           | 0.01                         | 68                          | 640                         | 11                          | 0.02                        | <2                          | 3                           | 21                          |
| ZZ05456            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.42                         | 308                         | 6                           | <0.01                        | 54                          | 1030                        | 12                          | 0.02                        | 5                           | 4                           | 48                          |
| ZZ05457            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.61                         | 513                         | 1                           | 0.01                         | 40                          | 800                         | 11                          | 0.04                        | <2                          | 3                           | 46                          |
| ZZ05458            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.99                         | 828                         | <1                          | 0.01                         | 102                         | 830                         | 11                          | 0.06                        | <2                          | 5                           | 57                          |
| ZZ05459            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.94                         | 500                         | 1                           | 0.01                         | 73                          | 920                         | 9                           | 0.02                        | <2                          | 4                           | 26                          |
| ZZ05460            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.95                         | 541                         | 1                           | 0.01                         | 52                          | 920                         | 9                           | 0.03                        | <2                          | 4                           | 29                          |
| ZZ05461            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.87                         | 385                         | 1                           | <0.01                        | 62                          | 580                         | 13                          | 0.02                        | <2                          | 3                           | 21                          |
| ZZ05462            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.81                         | 539                         | <1                          | 0.01                         | 55                          | 730                         | 9                           | 0.06                        | <2                          | 4                           | 46                          |
| ZZ05463            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.95                         | 485                         | 1                           | 0.01                         | 65                          | 560                         | 11                          | 0.02                        | <2                          | 3                           | 19                          |
| ZZ05464            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.40                         | 297                         | 5                           | <0.01                        | 69                          | 1000                        | 14                          | 0.03                        | 4                           | 4                           | 56                          |
| ZZ05465            |                                   | 10                           | <1                          | 0.04                        | 10                           | 0.52                         | 293                         | 2                           | <0.01                        | 28                          | 790                         | 11                          | 0.02                        | <2                          | 3                           | 10                          |
| ZZ05466            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.62                         | 528                         | 2                           | <0.01                        | 34                          | 610                         | 9                           | 0.03                        | <2                          | 3                           | 15                          |
| ZZ05467            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.60                         | 448                         | 1                           | 0.01                         | 47                          | 990                         | 9                           | 0.03                        | 2                           | 3                           | 40                          |
| ZZ05468            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.56                         | 311                         | 1                           | 0.01                         | 53                          | 940                         | 15                          | 0.04                        | 3                           | 3                           | 57                          |
| ZZ05469            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.43                         | 342                         | 4                           | <0.01                        | 55                          | 600                         | 14                          | 0.03                        | 3                           | 3                           | 33                          |
| ZZ05470            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.60                         | 288                         | 3                           | <0.01                        | 53                          | 870                         | 11                          | 0.01                        | 3                           | 2                           | 36                          |
| ZZ05471            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.24                         | 299                         | 9                           | <0.01                        | 30                          | 1310                        | 11                          | 0.02                        | 5                           | 1                           | 52                          |
| ZZ05472            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.32                         | 341                         | 8                           | <0.01                        | 71                          | 1240                        | 18                          | 0.04                        | 9                           | 2                           | 72                          |
| ZZ05473            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.14                         | 204                         | 7                           | 0.01                         | 26                          | 1040                        | 16                          | 0.03                        | 6                           | 1                           | 50                          |
| ZZ05474            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.27                         | 583                         | 2                           | 0.01                         | 31                          | 1710                        | 11                          | 0.05                        | 3                           | 2                           | 51                          |
| ZZ05476            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.43                         | 1250                        | <1                          | 0.01                         | 37                          | 1000                        | 16                          | 0.10                        | 2                           | 3                           | 55                          |
| ZZ05477            |                                   | <10                          | <1                          | 0.03                        | 20                           | 0.80                         | 606                         | 1                           | 0.01                         | 36                          | 750                         | 13                          | 0.05                        | <2                          | 4                           | 33                          |
| ZZ05478            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.44                         | 647                         | 2                           | 0.01                         | 36                          | 1150                        | 12                          | 0.05                        | 2                           | 3                           | 36                          |
| ZZ05479            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.47                         | 223                         | 1                           | <0.01                        | 33                          | 1080                        | 13                          | 0.04                        | 3                           | 3                           | 38                          |
| ZZ05480            |                                   | <10                          | 1                           | 0.05                        | 20                           | 0.44                         | 342                         | 3                           | 0.01                         | 55                          | 920                         | 21                          | 0.02                        | 2                           | 3                           | 35                          |
| ZZ05481            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.62                         | 293                         | 1                           | <0.01                        | 43                          | 780                         | 15                          | 0.05                        | 2                           | 3                           | 42                          |
| ZZ05482            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.66                         | 1340                        | 2                           | 0.01                         | 33                          | 1170                        | 17                          | 0.08                        | 3                           | 10                          | 140                         |
| ZZ05483            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.73                         | 535                         | 2                           | 0.01                         | 32                          | 1450                        | 18                          | 0.05                        | 3                           | 10                          | 87                          |
| ZZ05484            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.59                         | 452                         | 3                           | 0.01                         | 54                          | 1030                        | 15                          | 0.03                        | 2                           | 4                           | 57                          |
| ZZ05485            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.95                         | 314                         | 2                           | <0.01                        | 58                          | 1050                        | 16                          | 0.02                        | 3                           | 4                           | 31                          |
| ZZ05486            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.40                         | 475                         | 3                           | <0.01                        | 62                          | 1240                        | 18                          | 0.02                        | 9                           | 4                           | 40                          |
| ZZ05487            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.39                         | 1180                        | 2                           | 0.01                         | 39                          | 1010                        | 12                          | 0.07                        | 3                           | 2                           | 56                          |
| ZZ05488            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.34                         | 175                         | 3                           | <0.01                        | 24                          | 1240                        | 20                          | 0.03                        | 3                           | 2                           | 48                          |
| ZZ05489            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.32                         | 2010                        | 4                           | <0.01                        | 38                          | 1580                        | 23                          | 0.05                        | 3                           | 2                           | 65                          |
| ZZ05490            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.55                         | 1130                        | 4                           | 0.01                         | 73                          | 1220                        | 15                          | 0.05                        | 3                           | 4                           | 60                          |
| ZZ05491            |                                   | <10                          | <1                          | 0.08                        | 10                           | 0.57                         | 409                         | 2                           | 0.01                         | 51                          | 1240                        | 14                          | 0.16                        | 4                           | 4                           | 63                          |



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Page: 3 - C  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 4- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05451            |                                   | <20       | 0.06      | <10       | <10       | 55        | <10       | 149       |
| ZZ05452            |                                   | <20       | 0.04      | <10       | <10       | 47        | <10       | 167       |
| ZZ05453            |                                   | <20       | 0.09      | <10       | <10       | 58        | <10       | 65        |
| ZZ05454            |                                   | <20       | 0.02      | <10       | <10       | 23        | <10       | 226       |
| ZZ05455            |                                   | <20       | 0.05      | <10       | <10       | 63        | <10       | 95        |
| ZZ05456            |                                   | <20       | 0.03      | <10       | <10       | 40        | <10       | 182       |
| ZZ05457            |                                   | <20       | 0.04      | <10       | <10       | 39        | <10       | 65        |
| ZZ05458            |                                   | <20       | 0.05      | <10       | <10       | 50        | <10       | 84        |
| ZZ05459            |                                   | <20       | 0.08      | <10       | <10       | 48        | <10       | 73        |
| ZZ05460            |                                   | <20       | 0.09      | <10       | <10       | 49        | <10       | 83        |
| ZZ05461            |                                   | <20       | 0.06      | <10       | <10       | 53        | <10       | 77        |
| ZZ05462            |                                   | <20       | 0.06      | <10       | <10       | 45        | <10       | 79        |
| ZZ05463            |                                   | <20       | 0.05      | <10       | <10       | 52        | <10       | 96        |
| ZZ05464            |                                   | <20       | 0.01      | <10       | <10       | 45        | <10       | 177       |
| ZZ05465            |                                   | <20       | 0.07      | <10       | <10       | 67        | <10       | 90        |
| ZZ05466            |                                   | <20       | 0.08      | <10       | <10       | 51        | <10       | 73        |
| ZZ05467            |                                   | <20       | 0.04      | <10       | <10       | 40        | <10       | 111       |
| ZZ05468            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 150       |
| ZZ05469            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 123       |
| ZZ05470            |                                   | <20       | 0.03      | <10       | <10       | 45        | <10       | 108       |
| ZZ05471            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 137       |
| ZZ05472            |                                   | <20       | 0.01      | <10       | <10       | 49        | <10       | 240       |
| ZZ05473            |                                   | <20       | 0.01      | <10       | <10       | 42        | <10       | 107       |
| ZZ05474            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 147       |
| ZZ05476            |                                   | <20       | 0.01      | <10       | <10       | 21        | <10       | 79        |
| ZZ05477            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 86        |
| ZZ05478            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 104       |
| ZZ05479            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 148       |
| ZZ05480            |                                   | <20       | 0.01      | <10       | <10       | 26        | <10       | 155       |
| ZZ05481            |                                   | <20       | 0.01      | <10       | <10       | 19        | <10       | 142       |
| ZZ05482            |                                   | <20       | 0.01      | <10       | <10       | 54        | <10       | 113       |
| ZZ05483            |                                   | <20       | 0.02      | <10       | <10       | 63        | <10       | 123       |
| ZZ05484            |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 147       |
| ZZ05485            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 160       |
| ZZ05486            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 142       |
| ZZ05487            |                                   | <20       | 0.01      | <10       | <10       | 22        | <10       | 125       |
| ZZ05488            |                                   | <20       | 0.01      | <10       | <10       | 30        | <10       | 112       |
| ZZ05489            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 122       |
| ZZ05490            |                                   | <20       | 0.02      | <10       | 10        | 39        | <10       | 114       |
| ZZ05491            |                                   | <20       | 0.01      | <10       | 10        | 35        | <10       | 148       |



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Page: 4 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 4- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| ZZ05492            |                                   | 0.36                       | 0.014                  | 0.6                    | 1.21                 | 47                     | <10                   | 350                    | 0.5                    | <2                     | 0.71                 | 0.5                    | 13                     | 38                     | 68                     | 3.39                 |
| ZZ05493            |                                   | 0.38                       | 0.012                  | 0.6                    | 0.89                 | 43                     | <10                   | 270                    | <0.5                   | <2                     | 0.72                 | 1.1                    | 12                     | 36                     | 54                     | 3.38                 |
| ZZ05494            |                                   | 0.50                       | 0.009                  | 0.5                    | 1.18                 | 37                     | <10                   | 240                    | <0.5                   | <2                     | 0.64                 | 0.9                    | 14                     | 44                     | 64                     | 3.22                 |
| ZZ05495            |                                   | 0.36                       | 0.013                  | 0.5                    | 0.94                 | 61                     | <10                   | 250                    | <0.5                   | <2                     | 0.61                 | 1.6                    | 11                     | 35                     | 61                     | 3.15                 |
| ZZ05496            |                                   | 0.52                       | 0.032                  | 0.5                    | 0.73                 | 213                    | <10                   | 440                    | <0.5                   | <2                     | 0.61                 | 0.9                    | 14                     | 22                     | 81                     | 3.11                 |
| ZZ05497            |                                   | 0.24                       | 0.005                  | <0.2                   | 1.07                 | 48                     | <10                   | 290                    | <0.5                   | <2                     | 0.93                 | 0.8                    | 13                     | 46                     | 32                     | 3.14                 |
| ZZ05498            |                                   | 0.36                       | 0.006                  | 0.4                    | 0.87                 | 25                     | <10                   | 440                    | 1.6                    | <2                     | 0.65                 | 0.5                    | 7                      | 25                     | 55                     | 1.62                 |
| ZZ05499            |                                   | 0.32                       | 0.015                  | 0.5                    | 1.05                 | 88                     | <10                   | 240                    | <0.5                   | <2                     | 0.41                 | 0.9                    | 11                     | 38                     | 57                     | 3.07                 |
| ZZ05500            |                                   | 0.28                       | 0.014                  | 0.6                    | 0.96                 | 63                     | <10                   | 390                    | <0.5                   | <2                     | 0.95                 | 1.1                    | 10                     | 34                     | 52                     | 2.70                 |
| ZZ05501            |                                   | 0.18                       | 0.001                  | 0.4                    | 1.23                 | 11                     | <10                   | 110                    | <0.5                   | <2                     | 0.19                 | <0.5                   | 6                      | 31                     | 10                     | 2.14                 |
| ZZ05502            |                                   | 0.16                       | 0.004                  | 0.2                    | 1.23                 | 13                     | <10                   | 180                    | <0.5                   | <2                     | 0.26                 | <0.5                   | 9                      | 76                     | 16                     | 2.58                 |
| ZZ05503            |                                   | 0.12                       | 0.003                  | 0.4                    | 0.83                 | 13                     | <10                   | 110                    | <0.5                   | <2                     | 0.21                 | <0.5                   | 4                      | 21                     | 24                     | 1.79                 |
| ZZ05504            |                                   | 0.18                       | 0.277                  | 0.3                    | 1.32                 | 29                     | <10                   | 270                    | <0.5                   | <2                     | 0.76                 | <0.5                   | 10                     | 34                     | 71                     | 2.75                 |
| ZZ05505            |                                   | 0.24                       | 0.003                  | 0.2                    | 1.54                 | 11                     | <10                   | 330                    | <0.5                   | <2                     | 0.71                 | <0.5                   | 16                     | 55                     | 35                     | 3.30                 |
| ZZ05506            |                                   | 0.28                       | 0.007                  | <0.2                   | 1.55                 | 12                     | <10                   | 580                    | 0.5                    | <2                     | 0.56                 | <0.5                   | 14                     | 46                     | 49                     | 3.34                 |
| ZZ05507            |                                   | 0.34                       | 0.005                  | 0.2                    | 1.50                 | 11                     | <10                   | 460                    | <0.5                   | <2                     | 0.52                 | 0.5                    | 14                     | 53                     | 40                     | 2.96                 |
| ZZ05508            |                                   | 0.26                       | 0.009                  | 0.3                    | 0.95                 | 19                     | <10                   | 240                    | <0.5                   | <2                     | 0.38                 | 0.5                    | 7                      | 32                     | 52                     | 2.18                 |
| ZZ05509            |                                   | 0.26                       | 0.007                  | 0.4                    | 1.00                 | 23                     | <10                   | 320                    | <0.5                   | <2                     | 0.59                 | 1.1                    | 11                     | 33                     | 45                     | 2.64                 |
| ZZ05510            |                                   | 0.34                       | 0.010                  | 0.4                    | 1.11                 | 17                     | <10                   | 280                    | <0.5                   | <2                     | 0.42                 | 0.7                    | 9                      | 36                     | 43                     | 2.37                 |
| ZZ05511            |                                   | 0.28                       | 0.005                  | 0.4                    | 1.25                 | 19                     | <10                   | 350                    | <0.5                   | <2                     | 0.49                 | 0.6                    | 8                      | 45                     | 33                     | 2.62                 |
| ZZ05512            |                                   | 0.26                       | 0.007                  | 0.5                    | 0.97                 | 32                     | <10                   | 350                    | <0.5                   | <2                     | 0.42                 | <0.5                   | 9                      | 33                     | 52                     | 2.78                 |
| ZZ05513            |                                   | 0.18                       | 0.007                  | 0.5                    | 0.82                 | 19                     | <10                   | 270                    | <0.5                   | <2                     | 0.66                 | 1.2                    | 7                      | 27                     | 41                     | 1.92                 |
| ZZ05514            |                                   | 0.16                       | 0.006                  | 0.6                    | 0.79                 | 18                     | <10                   | 270                    | <0.5                   | <2                     | 0.90                 | 0.5                    | 4                      | 25                     | 26                     | 1.55                 |
| ZZ05515            |                                   | 0.16                       | 0.009                  | 0.7                    | 0.97                 | 55                     | <10                   | 260                    | <0.5                   | <2                     | 0.72                 | 1.0                    | 12                     | 25                     | 35                     | 2.95                 |
| ZZ05516            |                                   | 0.14                       | 0.009                  | 0.7                    | 0.71                 | 40                     | <10                   | 280                    | <0.5                   | <2                     | 0.79                 | 1.6                    | 10                     | 19                     | 54                     | 2.33                 |
| ZZ05517            |                                   | 0.36                       |                        | 0.9                    | 0.92                 | 60                     | <10                   | 210                    | <0.5                   | <2                     | 0.47                 | 1.4                    | 15                     | 25                     | 76                     | 3.32                 |
| ZZ05518            |                                   | 0.12                       |                        | 0.5                    | 0.93                 | 27                     | <10                   | 180                    | <0.5                   | <2                     | 1.10                 | 1.0                    | 9                      | 22                     | 51                     | 2.29                 |
| ZZ05519            |                                   | 0.22                       |                        | <0.2                   | 0.85                 | 19                     | <10                   | 90                     | <0.5                   | <2                     | 0.65                 | <0.5                   | 8                      | 16                     | 26                     | 2.47                 |
| ZZ05520            |                                   | 0.18                       |                        | 0.3                    | 0.93                 | 25                     | <10                   | 210                    | <0.5                   | <2                     | 0.86                 | 1.1                    | 13                     | 20                     | 49                     | 2.59                 |
| ZZ05521            |                                   | 0.20                       | 0.008                  | 0.5                    | 1.16                 | 28                     | <10                   | 190                    | <0.5                   | <2                     | 0.58                 | 0.7                    | 23                     | 37                     | 104                    | 3.73                 |
| ZZ05522            |                                   | 0.20                       |                        | 0.4                    | 0.86                 | 33                     | <10                   | 200                    | <0.5                   | <2                     | 0.83                 | 1.0                    | 13                     | 22                     | 44                     | 2.99                 |
| ZZ05523            |                                   | 0.20                       | 0.024                  | 0.3                    | 0.76                 | 22                     | <10                   | 170                    | <0.5                   | <2                     | 1.55                 | 1.0                    | 11                     | 20                     | 38                     | 2.17                 |
| ZZ05524            |                                   | 0.24                       |                        | 0.2                    | 1.48                 | 50                     | <10                   | 360                    | 0.7                    | <2                     | 0.34                 | 0.5                    | 14                     | 41                     | 63                     | 3.05                 |
| CC152001           |                                   | 0.04                       |                        | 0.7                    | 0.57                 | 6                      | <10                   | 390                    | <0.5                   | <2                     | 1.91                 | 2.8                    | 7                      | 11                     | 90                     | 1.14                 |
| CC152002           |                                   | 0.08                       |                        | 0.6                    | 1.00                 | 18                     | <10                   | 230                    | <0.5                   | <2                     | 0.79                 | 37.4                   | 12                     | 102                    | 61                     | 2.32                 |
| CC152004           |                                   | 0.10                       | NSS                    | 4.4                    | 0.49                 | 9                      | <10                   | 360                    | <0.5                   | <2                     | 3.87                 | 64.0                   | 20                     | 19                     | 233                    | 0.66                 |
| CC152005           |                                   | 0.10                       |                        | 0.7                    | 0.21                 | 3                      | <10                   | 40                     | <0.5                   | <2                     | 0.14                 | 1.2                    | 1                      | 5                      | 6                      | 0.48                 |
| CC152006           |                                   | 0.10                       |                        | 0.3                    | 0.42                 | 5                      | <10                   | 110                    | <0.5                   | <2                     | 0.38                 | <0.5                   | 1                      | 9                      | 6                      | 0.49                 |
| CC152007           |                                   | 0.08                       |                        | <0.2                   | 0.77                 | 15                     | <10                   | 130                    | <0.5                   | <2                     | 0.05                 | <0.5                   | 2                      | 12                     | 11                     | 1.20                 |
| CC152008           |                                   | 0.10                       |                        | <0.2                   | 1.63                 | 16                     | <10                   | 240                    | <0.5                   | <2                     | 0.16                 | <0.5                   | 12                     | 109                    | 16                     | 3.52                 |



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Page: 4 - B  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
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Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| ZZ05492            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.63                         | 481                         | 3                           | 0.01                         | 58                          | 1510                        | 14                          | 0.03                        | 3                           | 4                           | 44                          |
| ZZ05493            |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.52                         | 776                         | 3                           | 0.01                         | 47                          | 1600                        | 11                          | 0.03                        | 4                           | 3                           | 46                          |
| ZZ05494            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.68                         | 358                         | 3                           | 0.01                         | 69                          | 1510                        | 15                          | 0.02                        | 4                           | 5                           | 43                          |
| ZZ05495            |                                   | <10                          | 1                           | 0.06                        | 20                           | 0.45                         | 325                         | 4                           | <0.01                        | 47                          | 1530                        | 22                          | 0.01                        | 2                           | 4                           | 40                          |
| ZZ05496            |                                   | <10                          | <1                          | 0.10                        | 20                           | 0.35                         | 565                         | 5                           | <0.01                        | 72                          | 1370                        | 18                          | 0.01                        | 7                           | 4                           | 46                          |
| ZZ05497            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.52                         | 442                         | 2                           | <0.01                        | 54                          | 1160                        | 13                          | 0.04                        | 3                           | 3                           | 56                          |
| ZZ05498            |                                   | <10                          | <1                          | 0.11                        | 30                           | 0.21                         | 422                         | 2                           | <0.01                        | 35                          | 790                         | 40                          | 0.03                        | 2                           | 2                           | 65                          |
| ZZ05499            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.48                         | 190                         | 5                           | 0.01                         | 67                          | 1250                        | 17                          | 0.02                        | 6                           | 4                           | 39                          |
| ZZ05500            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.46                         | 330                         | 4                           | 0.01                         | 68                          | 1380                        | 16                          | 0.07                        | 6                           | 3                           | 73                          |
| ZZ05501            |                                   | 10                           | <1                          | 0.05                        | 10                           | 0.41                         | 281                         | 2                           | <0.01                        | 14                          | 420                         | 9                           | 0.01                        | <2                          | 2                           | 10                          |
| ZZ05502            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.95                         | 299                         | 3                           | <0.01                        | 47                          | 490                         | 10                          | 0.01                        | <2                          | 3                           | 17                          |
| ZZ05503            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.21                         | 136                         | 3                           | 0.01                         | 16                          | 920                         | 9                           | 0.02                        | <2                          | <1                          | 19                          |
| ZZ05504            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.64                         | 509                         | 2                           | 0.01                         | 41                          | 1660                        | 9                           | 0.03                        | 2                           | 3                           | 53                          |
| ZZ05505            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.92                         | 542                         | 1                           | 0.01                         | 49                          | 910                         | 12                          | 0.02                        | <2                          | 5                           | 32                          |
| ZZ05506            |                                   | <10                          | <1                          | 0.09                        | 20                           | 0.75                         | 1075                        | 1                           | <0.01                        | 49                          | 900                         | 18                          | 0.02                        | <2                          | 5                           | 35                          |
| ZZ05507            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.89                         | 465                         | 1                           | <0.01                        | 47                          | 900                         | 16                          | 0.02                        | <2                          | 5                           | 29                          |
| ZZ05508            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.48                         | 169                         | 2                           | <0.01                        | 27                          | 1100                        | 11                          | 0.01                        | 2                           | 2                           | 44                          |
| ZZ05509            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.49                         | 570                         | 2                           | <0.01                        | 36                          | 1140                        | 13                          | 0.03                        | 2                           | 2                           | 60                          |
| ZZ05510            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.59                         | 318                         | 2                           | <0.01                        | 33                          | 1120                        | 13                          | 0.02                        | 2                           | 3                           | 46                          |
| ZZ05511            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.61                         | 347                         | 2                           | 0.01                         | 32                          | 1060                        | 13                          | 0.04                        | <2                          | 3                           | 45                          |
| ZZ05512            |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.47                         | 306                         | 5                           | <0.01                        | 32                          | 1160                        | 14                          | 0.02                        | 4                           | 3                           | 53                          |
| ZZ05513            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.36                         | 330                         | 3                           | 0.01                         | 23                          | 1370                        | 14                          | 0.06                        | 2                           | 2                           | 62                          |
| ZZ05514            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.33                         | 114                         | 1                           | 0.01                         | 18                          | 1430                        | 15                          | 0.08                        | 2                           | 2                           | 75                          |
| ZZ05515            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.44                         | 803                         | 8                           | 0.01                         | 25                          | 2210                        | 28                          | 0.04                        | 4                           | 3                           | 62                          |
| ZZ05516            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.29                         | 438                         | 4                           | 0.01                         | 34                          | 1470                        | 13                          | 0.04                        | 4                           | 2                           | 60                          |
| ZZ05517            |                                   | <10                          | <1                          | 0.08                        | 20                           | 0.43                         | 383                         | 5                           | 0.01                         | 55                          | 1520                        | 21                          | 0.01                        | 7                           | 4                           | 58                          |
| ZZ05518            |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.40                         | 283                         | 1                           | 0.01                         | 34                          | 1180                        | 15                          | 0.09                        | 2                           | 2                           | 51                          |
| ZZ05519            |                                   | <10                          | <1                          | 0.03                        | 10                           | 0.42                         | 114                         | 1                           | 0.01                         | 26                          | 880                         | 10                          | 0.03                        | 2                           | 2                           | 28                          |
| ZZ05520            |                                   | <10                          | 1                           | 0.05                        | 10                           | 0.39                         | 449                         | 1                           | 0.01                         | 41                          | 880                         | 12                          | 0.05                        | 3                           | 3                           | 38                          |
| ZZ05521            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.52                         | 628                         | 2                           | 0.01                         | 71                          | 1160                        | 16                          | 0.02                        | 4                           | 3                           | 33                          |
| ZZ05522            |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.39                         | 446                         | 2                           | 0.01                         | 39                          | 1040                        | 13                          | 0.05                        | 3                           | 3                           | 40                          |
| ZZ05523            |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.41                         | 514                         | 1                           | 0.01                         | 33                          | 1020                        | 10                          | 0.08                        | 2                           | 2                           | 74                          |
| ZZ05524            |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.48                         | 347                         | 3                           | 0.01                         | 66                          | 920                         | 13                          | 0.01                        | 4                           | 4                           | 30                          |
| CC152001           |                                   | <10                          | 1                           | 0.02                        | 10                           | 0.28                         | 1010                        | 2                           | 0.02                         | 47                          | 1140                        | 7                           | 0.17                        | 3                           | 1                           | 124                         |
| CC152002           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.72                         | 470                         | 7                           | 0.01                         | 191                         | 540                         | 11                          | 0.01                        | 2                           | 3                           | 54                          |
| CC152004           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.61                         | 1980                        | 2                           | 0.01                         | 309                         | 1070                        | 4                           | 0.16                        | 3                           | 1                           | 278                         |
| CC152005           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.05                         | 44                          | 1                           | 0.02                         | 8                           | 160                         | 4                           | 0.01                        | <2                          | <1                          | 12                          |
| CC152006           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.14                         | 41                          | 1                           | 0.03                         | 5                           | 310                         | 4                           | 0.02                        | <2                          | <1                          | 40                          |
| CC152007           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.09                         | 136                         | 2                           | 0.01                         | 11                          | 470                         | 13                          | 0.01                        | 3                           | 1                           | 37                          |
| CC152008           |                                   | <10                          | 1                           | 0.06                        | 10                           | 0.84                         | 566                         | 1                           | 0.01                         | 53                          | 570                         | 10                          | 0.01                        | <2                          | 3                           | 13                          |



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Page: 4 - C  
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| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1  | ppm<br>10 | ppm<br>2  |
| ZZ05492            |                                   | <20       | 0.02      | <10       | <10       | 41        | <10       | 131       |
| ZZ05493            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 157       |
| ZZ05494            |                                   | <20       | 0.03      | <10       | <10       | 42        | <10       | 136       |
| ZZ05495            |                                   | <20       | 0.02      | <10       | <10       | 35        | <10       | 244       |
| ZZ05496            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 181       |
| ZZ05497            |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 114       |
| ZZ05498            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 64        |
| ZZ05499            |                                   | <20       | 0.02      | <10       | <10       | 38        | <10       | 133       |
| ZZ05500            |                                   | <20       | 0.01      | <10       | <10       | 40        | <10       | 132       |
| ZZ05501            |                                   | <20       | 0.14      | <10       | <10       | 57        | <10       | 57        |
| ZZ05502            |                                   | <20       | 0.11      | <10       | <10       | 56        | <10       | 55        |
| ZZ05503            |                                   | <20       | 0.02      | <10       | <10       | 32        | <10       | 54        |
| ZZ05504            |                                   | <20       | 0.05      | <10       | <10       | 36        | <10       | 99        |
| ZZ05505            |                                   | <20       | 0.12      | <10       | <10       | 51        | <10       | 76        |
| ZZ05506            |                                   | <20       | 0.05      | <10       | <10       | 51        | <10       | 80        |
| ZZ05507            |                                   | <20       | 0.08      | <10       | <10       | 53        | <10       | 94        |
| ZZ05508            |                                   | <20       | 0.03      | <10       | <10       | 33        | <10       | 101       |
| ZZ05509            |                                   | <20       | 0.02      | <10       | <10       | 34        | <10       | 118       |
| ZZ05510            |                                   | <20       | 0.03      | <10       | <10       | 35        | <10       | 119       |
| ZZ05511            |                                   | <20       | 0.02      | <10       | <10       | 43        | <10       | 96        |
| ZZ05512            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 118       |
| ZZ05513            |                                   | <20       | 0.02      | <10       | <10       | 33        | <10       | 84        |
| ZZ05514            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 76        |
| ZZ05515            |                                   | <20       | 0.01      | <10       | <10       | 34        | <10       | 127       |
| ZZ05516            |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 143       |
| ZZ05517            |                                   | <20       | 0.02      | <10       | <10       | 37        | <10       | 189       |
| ZZ05518            |                                   | <20       | 0.01      | <10       | <10       | 23        | <10       | 125       |
| ZZ05519            |                                   | <20       | 0.01      | <10       | <10       | 16        | <10       | 93        |
| ZZ05520            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 148       |
| ZZ05521            |                                   | <20       | 0.01      | <10       | <10       | 28        | <10       | 156       |
| ZZ05522            |                                   | <20       | 0.01      | <10       | <10       | 24        | <10       | 172       |
| ZZ05523            |                                   | <20       | 0.01      | <10       | <10       | 20        | <10       | 121       |
| ZZ05524            |                                   | <20       | 0.01      | <10       | <10       | 35        | <10       | 111       |
| CC152001           |                                   | <20       | 0.01      | <10       | 10        | 10        | <10       | 80        |
| CC152002           |                                   | <20       | 0.02      | <10       | <10       | 39        | <10       | 2640      |
| CC152004           |                                   | <20       | 0.01      | <10       | 20        | 14        | <10       | 2070      |
| CC152005           |                                   | <20       | 0.02      | <10       | <10       | 13        | <10       | 44        |
| CC152006           |                                   | <20       | 0.02      | <10       | <10       | 15        | <10       | 27        |
| CC152007           |                                   | <20       | 0.01      | <10       | <10       | 37        | <10       | 92        |
| CC152008           |                                   | <20       | 0.09      | <10       | <10       | 73        | <10       | 72        |



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Page: 5 - A  
Total # Pages: 5 (A - C)  
Plus Appendix Pages  
Finalized Date: 4- OCT- 2011  
Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI- 21<br>Recvd Wt.<br>kg | Au- ICP21<br>Au<br>ppm | ME- ICP41<br>Ag<br>ppm | ME- ICP41<br>Al<br>% | ME- ICP41<br>As<br>ppm | ME- ICP41<br>B<br>ppm | ME- ICP41<br>Ba<br>ppm | ME- ICP41<br>Be<br>ppm | ME- ICP41<br>Bi<br>ppm | ME- ICP41<br>Ca<br>% | ME- ICP41<br>Cd<br>ppm | ME- ICP41<br>Co<br>ppm | ME- ICP41<br>Cr<br>ppm | ME- ICP41<br>Cu<br>ppm | ME- ICP41<br>Fe<br>% |
|--------------------|-----------------------------------|----------------------------|------------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
|                    |                                   | 0.02                       | 0.001                  | 0.2                    | 0.01                 | 2                      | 10                    | 10                     | 0.5                    | 2                      | 0.01                 | 0.5                    | 1                      | 1                      | 1                      | 0.01                 |
| CC152009           |                                   | 0.04                       |                        | 0.3                    | 1.22                 | 19                     | <10                   | 190                    | <0.5                   | <2                     | 0.12                 | <0.5                   | 11                     | 49                     | 31                     | 3.52                 |
| CC152010           |                                   | 0.04                       |                        | 0.3                    | 0.95                 | 11                     | <10                   | 100                    | <0.5                   | <2                     | 0.19                 | <0.5                   | 6                      | 26                     | 9                      | 1.77                 |
| CC152011           |                                   | 0.06                       |                        | <0.2                   | 0.79                 | 7                      | <10                   | 110                    | <0.5                   | <2                     | 0.11                 | <0.5                   | 4                      | 20                     | 8                      | 1.55                 |
| CC152012           |                                   | 0.18                       |                        | 0.2                    | 1.24                 | 7                      | <10                   | 260                    | <0.5                   | <2                     | 0.22                 | <0.5                   | 11                     | 46                     | 26                     | 2.23                 |
| CC152013           |                                   | 0.14                       |                        | 0.2                    | 1.66                 | 11                     | <10                   | 340                    | <0.5                   | <2                     | 0.11                 | <0.5                   | 11                     | 44                     | 19                     | 3.24                 |
| CC152014           |                                   | 0.14                       |                        | 0.3                    | 0.41                 | 4                      | <10                   | 60                     | <0.5                   | <2                     | 0.03                 | <0.5                   | 2                      | 7                      | 5                      | 0.61                 |
| CC152015           |                                   | 0.04                       |                        | 0.4                    | 0.88                 | 8                      | <10                   | 90                     | <0.5                   | <2                     | 0.15                 | <0.5                   | 5                      | 30                     | 12                     | 1.49                 |
| CC152016           |                                   | 0.06                       |                        | <0.2                   | 1.21                 | 14                     | <10                   | 140                    | <0.5                   | <2                     | 0.13                 | 1.0                    | 8                      | 37                     | 19                     | 2.39                 |
| CC152017           |                                   | 0.14                       |                        | <0.2                   | 1.60                 | 14                     | <10                   | 220                    | <0.5                   | <2                     | 0.23                 | 0.6                    | 18                     | 77                     | 37                     | 2.86                 |
| CC152018           |                                   | 0.10                       |                        | 0.3                    | 0.58                 | 3                      | <10                   | 180                    | <0.5                   | <2                     | 0.08                 | <0.5                   | 3                      | 18                     | 14                     | 0.78                 |
| CC152019           |                                   | 0.12                       |                        | <0.2                   | 1.40                 | 9                      | <10                   | 330                    | <0.5                   | <2                     | 0.41                 | <0.5                   | 13                     | 56                     | 28                     | 2.55                 |
| CC152020           |                                   | 0.18                       |                        | 0.3                    | 1.54                 | 12                     | <10                   | 420                    | <0.5                   | <2                     | 0.44                 | <0.5                   | 12                     | 60                     | 33                     | 2.70                 |
| CC152021           |                                   | 0.06                       |                        | 0.5                    | 0.52                 | 34                     | <10                   | 180                    | <0.5                   | <2                     | 0.17                 | 0.9                    | 9                      | 17                     | 59                     | 2.31                 |
| CC152022           |                                   | 0.14                       |                        | 1.0                    | 1.16                 | 25                     | <10                   | 400                    | <0.5                   | <2                     | 0.49                 | 1.6                    | 13                     | 74                     | 73                     | 2.74                 |
| CC152023           |                                   | 0.12                       |                        | <0.2                   | 0.31                 | 4                      | <10                   | 90                     | <0.5                   | <2                     | 0.65                 | 0.7                    | 1                      | 3                      | 16                     | 0.17                 |
| CC152024           |                                   | 0.20                       |                        | 0.7                    | 1.29                 | 32                     | <10                   | 410                    | 0.5                    | <2                     | 0.53                 | 1.8                    | 14                     | 44                     | 60                     | 2.77                 |
| CC152025           |                                   | 0.18                       |                        | 0.7                    | 0.63                 | 11                     | <10                   | 200                    | <0.5                   | <2                     | 0.42                 | 0.5                    | 3                      | 16                     | 32                     | 1.01                 |
| CC152026           |                                   | 0.08                       |                        | 0.9                    | 0.35                 | 4                      | <10                   | 40                     | <0.5                   | <2                     | 0.03                 | <0.5                   | 1                      | 8                      | 4                      | 0.54                 |
| CC152027           |                                   | 0.06                       |                        | <0.2                   | 0.14                 | <2                     | <10                   | 40                     | <0.5                   | <2                     | 0.22                 | <0.5                   | <1                     | 2                      | 4                      | 0.11                 |
| CC152028           |                                   | 0.08                       | 0.001                  | <0.2                   | 0.16                 | 2                      | <10                   | 30                     | <0.5                   | <2                     | 0.52                 | 1.2                    | 1                      | 2                      | 10                     | 0.19                 |
| CC152029           |                                   | 0.04                       | NSS                    | 0.2                    | 0.36                 | 3                      | <10                   | 200                    | <0.5                   | <2                     | 1.21                 | 7.5                    | 5                      | 4                      | 40                     | 0.49                 |
| CC152030           |                                   | 0.08                       |                        | 0.6                    | 0.44                 | 7                      | <10                   | 180                    | <0.5                   | <2                     | 0.76                 | 0.8                    | 5                      | 12                     | 21                     | 0.85                 |



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**Page: 5 - B**  
**Total # Pages: 5 (A - C)**  
**Plus Appendix Pages**  
**Finalized Date: 4- OCT- 2011**  
**Account: F**

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41<br>Ga<br>ppm<br>10 | ME- ICP41<br>Hg<br>ppm<br>1 | ME- ICP41<br>K<br>%<br>0.01 | ME- ICP41<br>La<br>ppm<br>10 | ME- ICP41<br>Mg<br>%<br>0.01 | ME- ICP41<br>Mn<br>ppm<br>5 | ME- ICP41<br>Mo<br>ppm<br>1 | ME- ICP41<br>Na<br>%<br>0.01 | ME- ICP41<br>Ni<br>ppm<br>1 | ME- ICP41<br>P<br>ppm<br>10 | ME- ICP41<br>Pb<br>ppm<br>2 | ME- ICP41<br>S<br>%<br>0.01 | ME- ICP41<br>Sb<br>ppm<br>2 | ME- ICP41<br>Sc<br>ppm<br>1 | ME- ICP41<br>Sr<br>ppm<br>1 |
|--------------------|-----------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| CC152009           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.46                         | 601                         | 3                           | 0.01                         | 37                          | 950                         | 12                          | 0.01                        | 2                           | 2                           | 13                          |
| CC152010           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.31                         | 386                         | 1                           | 0.01                         | 14                          | 400                         | 7                           | 0.01                        | <2                          | 1                           | 7                           |
| CC152011           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.27                         | 179                         | 1                           | 0.01                         | 13                          | 200                         | 7                           | 0.01                        | <2                          | 1                           | 7                           |
| CC152012           |                                   | <10                          | <1                          | 0.04                        | 20                           | 0.63                         | 477                         | 1                           | 0.01                         | 41                          | 640                         | 8                           | 0.01                        | <2                          | 3                           | 14                          |
| CC152013           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.60                         | 434                         | 1                           | 0.01                         | 34                          | 450                         | 12                          | 0.01                        | <2                          | 3                           | 10                          |
| CC152014           |                                   | <10                          | <1                          | 0.02                        | 10                           | 0.06                         | 41                          | 1                           | 0.02                         | 4                           | 180                         | 4                           | 0.01                        | <2                          | <1                          | 7                           |
| CC152015           |                                   | <10                          | <1                          | 0.04                        | 10                           | 0.34                         | 221                         | 1                           | 0.01                         | 22                          | 390                         | 7                           | 0.01                        | <2                          | 1                           | 9                           |
| CC152016           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.41                         | 385                         | 2                           | 0.01                         | 24                          | 460                         | 9                           | 0.02                        | <2                          | 2                           | 14                          |
| CC152017           |                                   | <10                          | <1                          | 0.07                        | 10                           | 0.92                         | 624                         | 1                           | 0.01                         | 73                          | 720                         | 13                          | 0.01                        | <2                          | 3                           | 18                          |
| CC152018           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.15                         | 115                         | <1                          | 0.02                         | 18                          | 290                         | 3                           | 0.01                        | <2                          | 1                           | 9                           |
| CC152019           |                                   | <10                          | <1                          | 0.06                        | 10                           | 0.86                         | 653                         | 1                           | 0.01                         | 48                          | 1060                        | 8                           | 0.01                        | 2                           | 4                           | 26                          |
| CC152020           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.76                         | 537                         | 2                           | 0.01                         | 49                          | 920                         | 10                          | 0.02                        | 2                           | 4                           | 30                          |
| CC152021           |                                   | <10                          | <1                          | 0.06                        | 20                           | 0.15                         | 366                         | 6                           | <0.01                        | 38                          | 1150                        | 11                          | 0.01                        | 5                           | 2                           | 34                          |
| CC152022           |                                   | <10                          | <1                          | 0.09                        | 10                           | 0.50                         | 667                         | 9                           | 0.01                         | 54                          | 1570                        | 16                          | 0.04                        | 4                           | 3                           | 76                          |
| CC152023           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.08                         | 72                          | 1                           | 0.04                         | 10                          | 310                         | <2                          | 0.18                        | <2                          | <1                          | 40                          |
| CC152024           |                                   | <10                          | <1                          | 0.07                        | 20                           | 0.59                         | 475                         | 4                           | 0.01                         | 63                          | 1270                        | 14                          | 0.02                        | 4                           | 4                           | 69                          |
| CC152025           |                                   | <10                          | <1                          | 0.05                        | 10                           | 0.20                         | 84                          | 1                           | 0.03                         | 21                          | 640                         | 5                           | 0.04                        | 2                           | 1                           | 44                          |
| CC152026           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.06                         | 36                          | <1                          | 0.02                         | 6                           | 390                         | 2                           | 0.02                        | <2                          | <1                          | 7                           |
| CC152027           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.03                         | 31                          | <1                          | 0.03                         | 3                           | 330                         | <2                          | 0.04                        | <2                          | <1                          | 21                          |
| CC152028           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.03                         | 46                          | 1                           | 0.04                         | 9                           | 580                         | <2                          | 0.06                        | <2                          | <1                          | 21                          |
| CC152029           |                                   | <10                          | <1                          | 0.02                        | <10                          | 0.07                         | 2710                        | 20                          | 0.04                         | 38                          | 550                         | <2                          | 0.12                        | 2                           | <1                          | 49                          |
| CC152030           |                                   | <10                          | <1                          | 0.03                        | <10                          | 0.15                         | 1595                        | 3                           | 0.03                         | 20                          | 680                         | 4                           | 0.06                        | <2                          | 1                           | 47                          |



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Page: 5 - C  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 4- OCT- 2011  
 Account: F

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 | ME- ICP41 |
|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V         | W         | Zn        |
|                    |                                   | ppm       | %         | ppm       | ppm       | ppm       | ppm       | ppm       |
|                    |                                   | 20        | 0.01      | 10        | 10        | 1         | 10        | 2         |
| CC152009           |                                   | <20       | 0.06      | <10       | <10       | 56        | <10       | 77        |
| CC152010           |                                   | <20       | 0.06      | <10       | <10       | 55        | <10       | 37        |
| CC152011           |                                   | <20       | 0.11      | <10       | <10       | 56        | <10       | 30        |
| CC152012           |                                   | <20       | 0.07      | <10       | <10       | 43        | <10       | 53        |
| CC152013           |                                   | <20       | 0.09      | <10       | <10       | 64        | <10       | 67        |
| CC152014           |                                   | <20       | 0.03      | <10       | <10       | 19        | <10       | 13        |
| CC152015           |                                   | <20       | 0.04      | <10       | <10       | 34        | <10       | 38        |
| CC152016           |                                   | <20       | 0.08      | <10       | <10       | 54        | <10       | 66        |
| CC152017           |                                   | <20       | 0.05      | <10       | <10       | 49        | <10       | 104       |
| CC152018           |                                   | <20       | 0.02      | <10       | <10       | 16        | <10       | 19        |
| CC152019           |                                   | <20       | 0.08      | <10       | <10       | 46        | <10       | 79        |
| CC152020           |                                   | <20       | 0.06      | <10       | <10       | 49        | <10       | 84        |
| CC152021           |                                   | <20       | 0.01      | <10       | <10       | 27        | <10       | 201       |
| CC152022           |                                   | <20       | 0.03      | <10       | <10       | 46        | <10       | 165       |
| CC152023           |                                   | <20       | 0.01      | <10       | <10       | 4         | <10       | 94        |
| CC152024           |                                   | <20       | 0.04      | <10       | <10       | 52        | <10       | 182       |
| CC152025           |                                   | <20       | 0.02      | <10       | <10       | 21        | <10       | 66        |
| CC152026           |                                   | <20       | 0.01      | <10       | <10       | 15        | <10       | 13        |
| CC152027           |                                   | <20       | 0.01      | <10       | <10       | 2         | <10       | 6         |
| CC152028           |                                   | <20       | 0.01      | <10       | <10       | 7         | <10       | 35        |
| CC152029           |                                   | <20       | 0.01      | <10       | 20        | 13        | <10       | 92        |
| CC152030           |                                   | <20       | 0.02      | <10       | <10       | 15        | <10       | 47        |



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**Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 4- OCT- 2011  
Account: F**

Project: Wolverine- String

**CERTIFICATE OF ANALYSIS WH11159785**

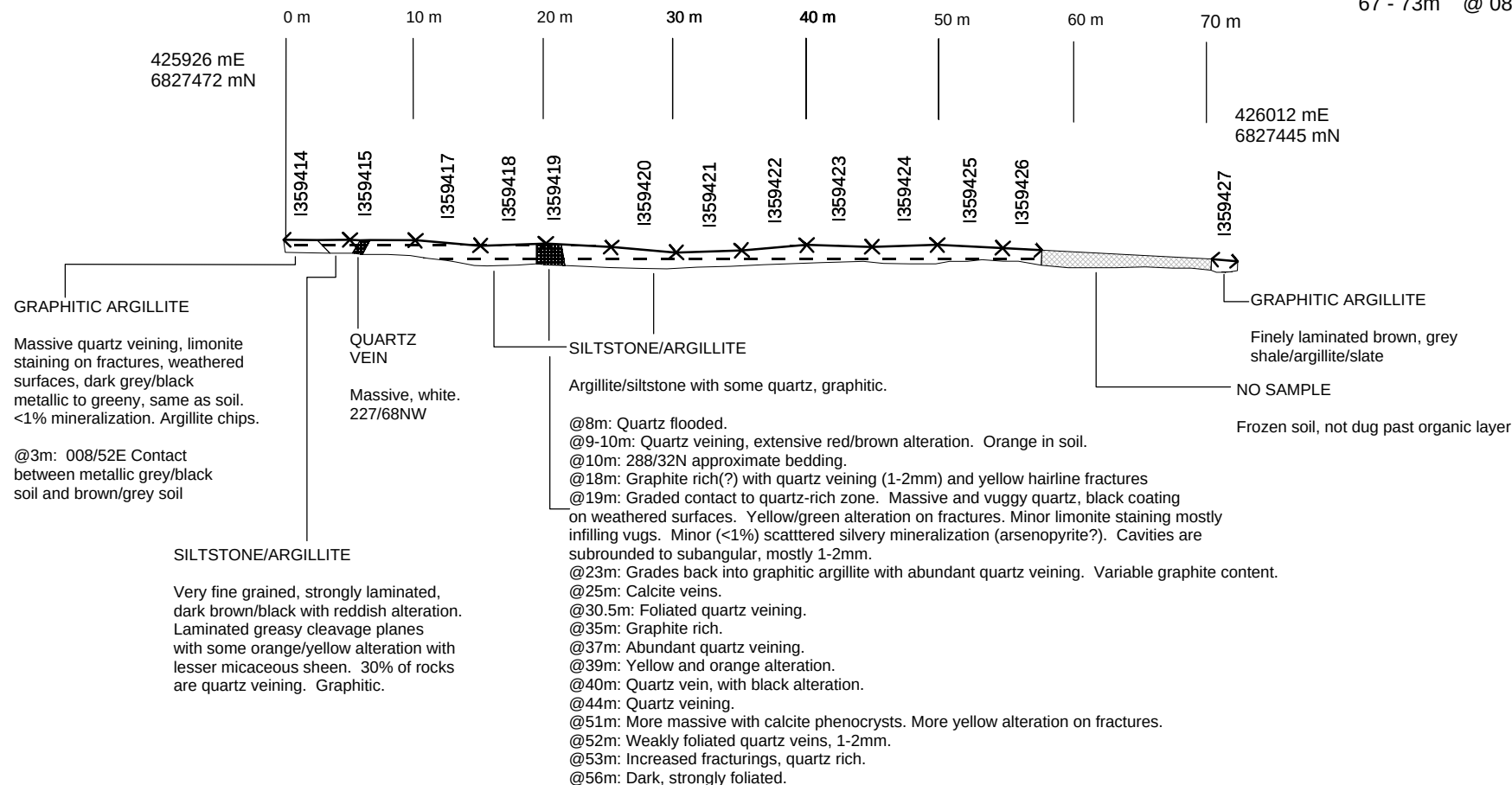
| Method      | CERTIFICATE COMMENTS           |
|-------------|--------------------------------|
| ALL METHODS | NSS is non- sufficient sample. |

**APPENDIX V**  
**TRENCH MAPS**

\*NOTE: Trench fractured/fragmented bedrock

4X Vertical Exaggeration

Azimuth  
 0 - 20m @ 101°  
 20 - 53m @ 115°  
 53 - 62m @ 140°  
 62 - 67m @ 115°  
 67 - 73m @ 088°



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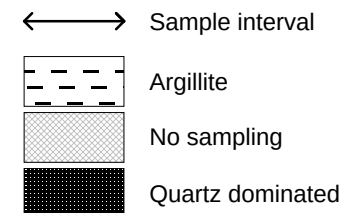
**TR-11-01**  
STRING PROPERTY

0 30 m

UTM ZONE 9, NAD 83, 105G/09

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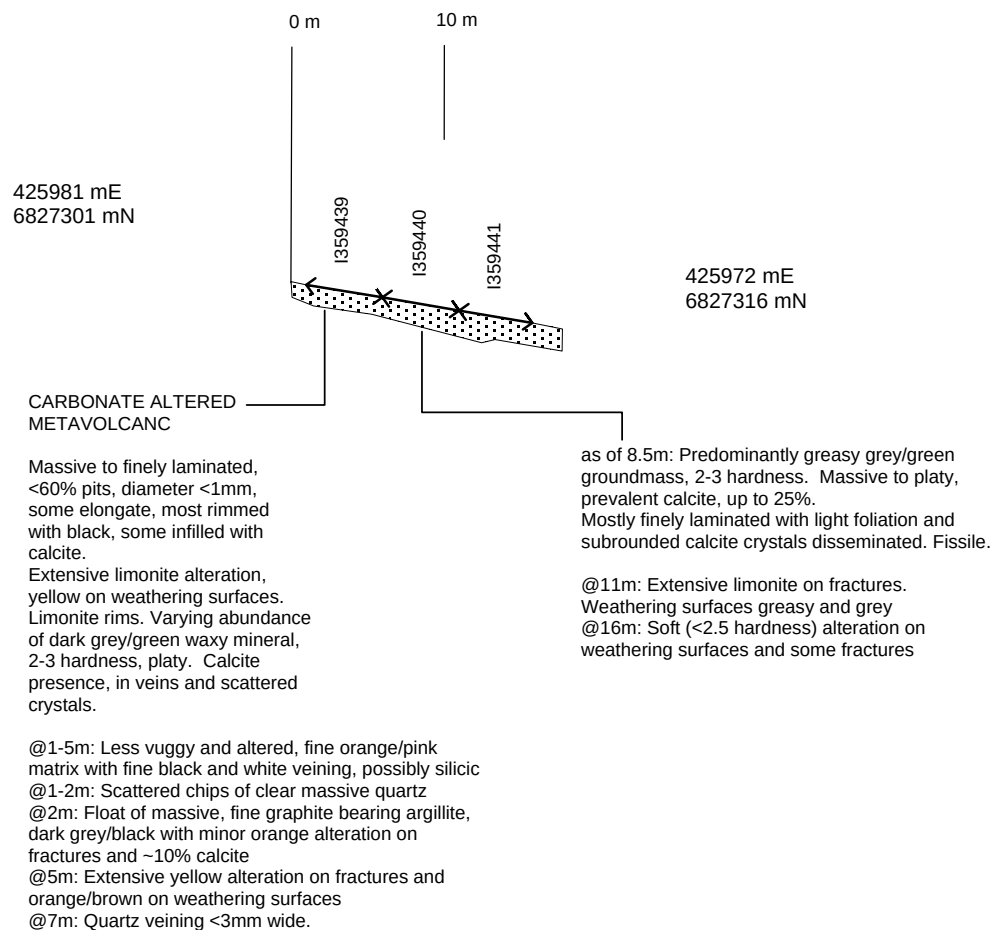
DATE: APRIL 2012



\*NOTE: Trench fractured/fragmented bedrock

4X Vertical Exaggeration

Azimuth 0 - 9m @ 019°  
9 - 18m @ 039°



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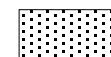
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-02 WEST RIB**  
STRING PROPERTY

0 30 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-02.wor

DATE: APRIL 2012

←→ Sample interval

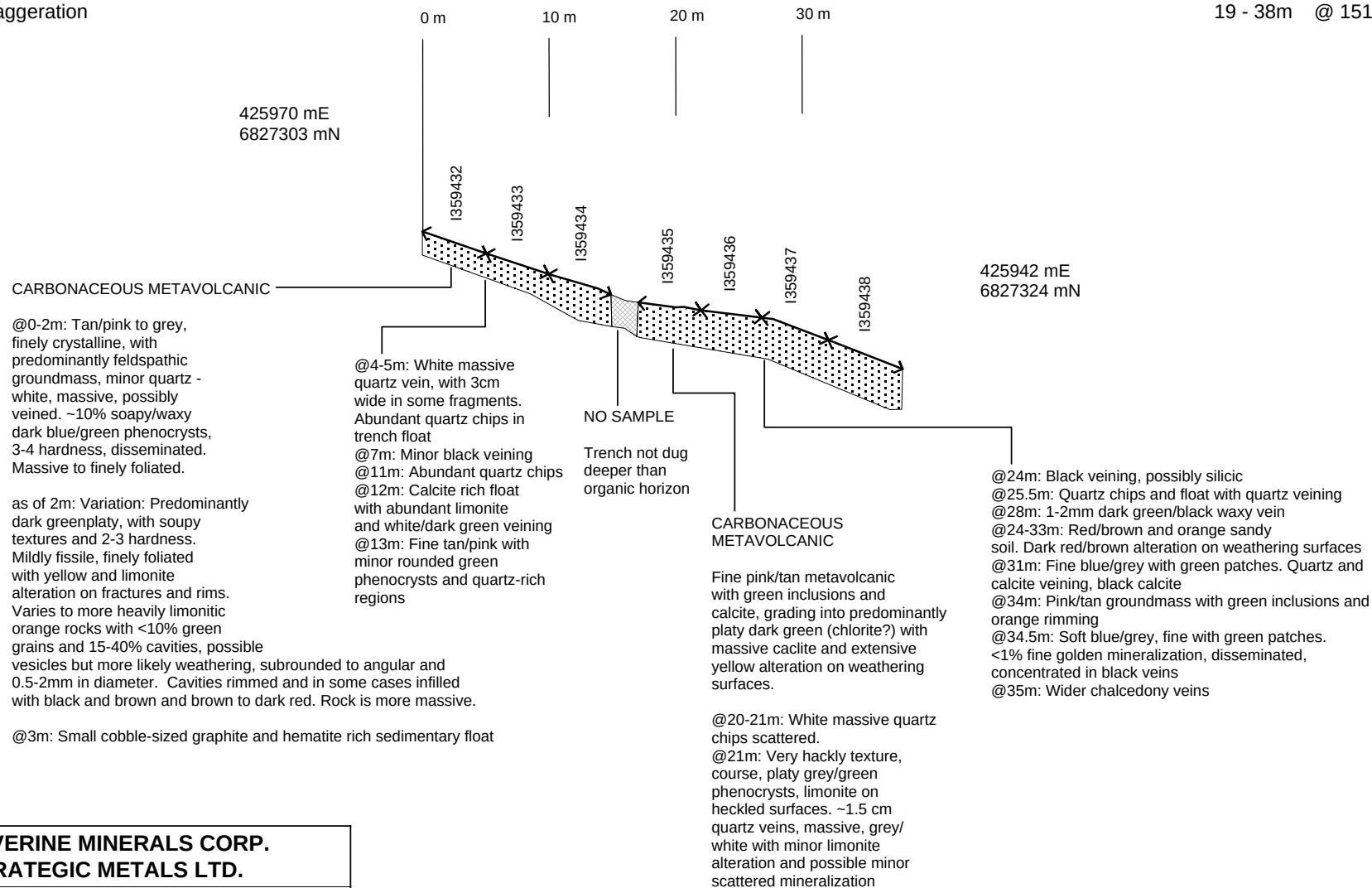


Carbonaceous volcanic rock

\*NOTE: Trench fractured/fragmented rock, up to boulder size

4X Vertical Exaggeration

Azimuth  
0 - 8m @ 130°  
8 - 19m @ 138°  
19 - 38m @ 151°



**WOLVERINE MINERALS CORP.  
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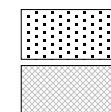
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-03 NORTHEAST RIB**  
STRING PROPERTY

0 30 m  
UTM ZONE 9, NAD 83, 105G/09

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DATE: APRIL 2012

←→ Sample interval



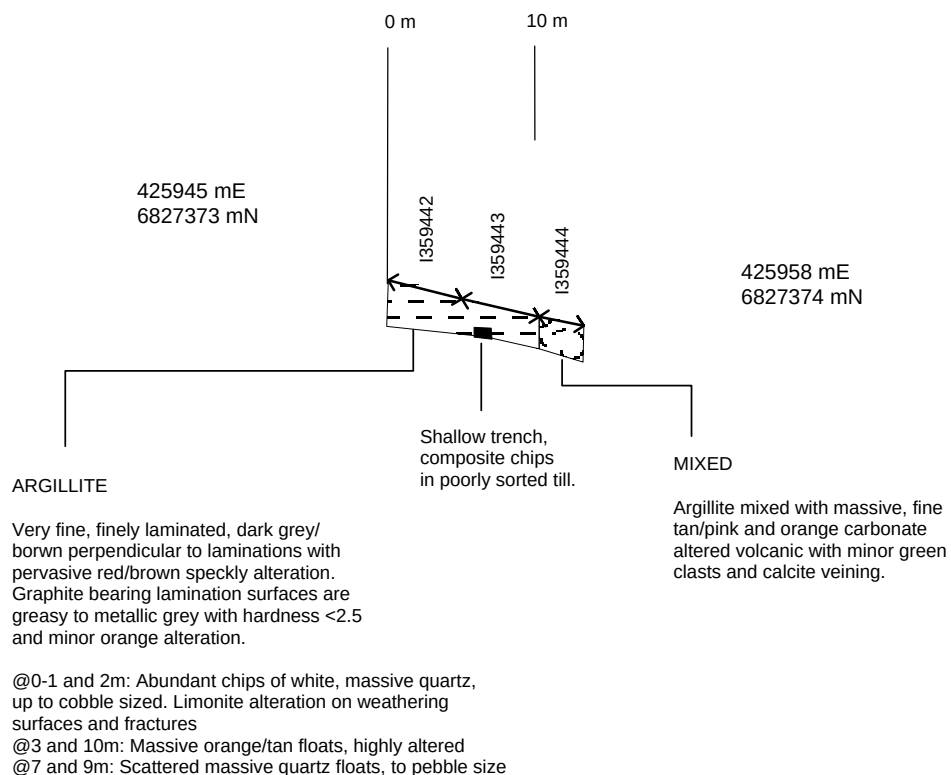
Carbonaceous volcanic rock

No sampling

\*NOTE: Trench fractured/fragmented rock, unless specified otherwise

Azimuth 0 - 13m @ 085°

4X Vertical Exaggeration



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**TR-11-04 NORTH RIB**  
STRING PROPERTY

0 30 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-04.wor

DATE: APRIL 2012

←→ Sample interval



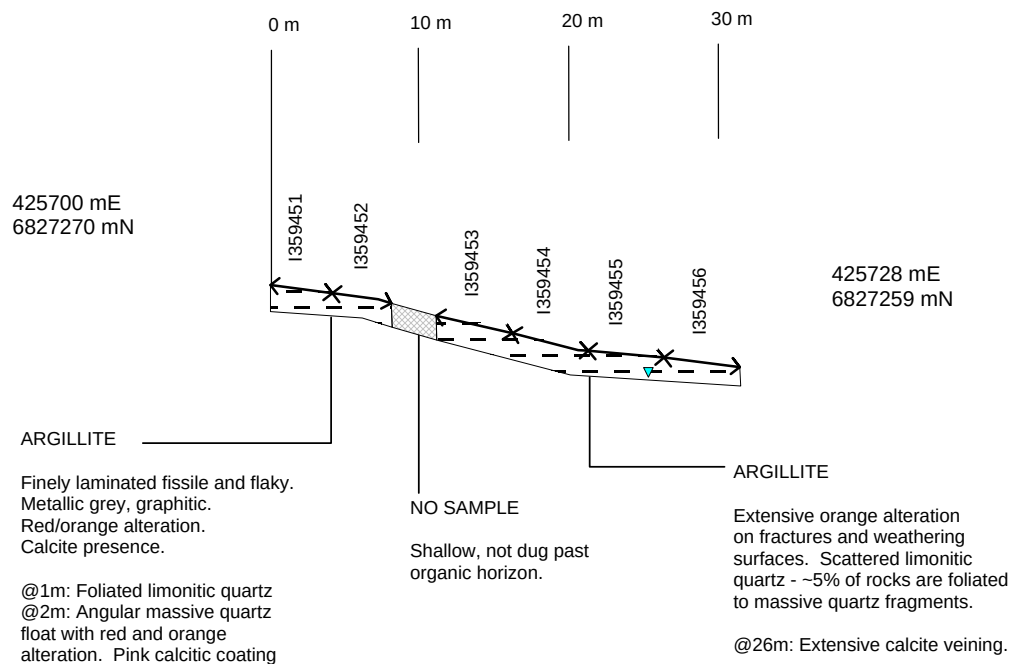
Argillite

Mixed rock

\*NOTE: Trench fragmented rock in till, unless specified otherwise

4X Vertical Exaggeration

Azimuth 0 - 13m @ 108°  
13 - 22m @ 130°  
22 - 31m @ 096°



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**TR-11-09 NORTH RIB**  
STRING PROPERTY

0 30 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-09.wor

DATE: APRIL 2012

←→ Sample interval  
▼ Water table  
--- Argillite  
No sampling

425400 mE 6827721 mN

425450 mE 6827703 mN

425463 mE 6827699 mN

425475 mE 6827694 mN

425528 mE 6827677 mN

425537 mE 6827675 mN

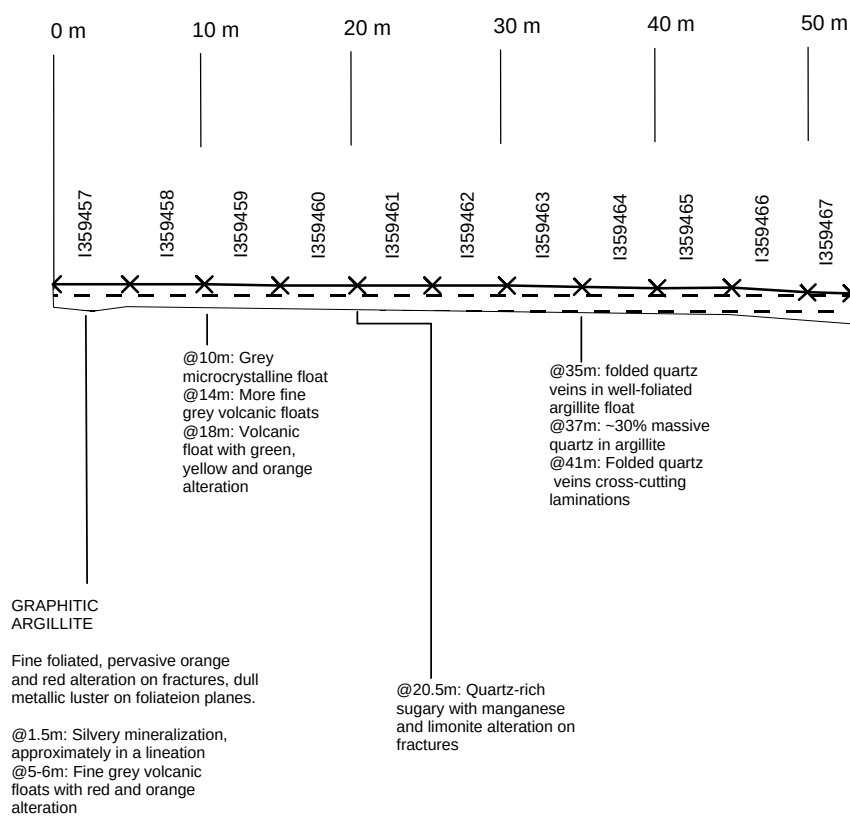
425550 mE 6827674 mN

425572 mE 6827661 mN

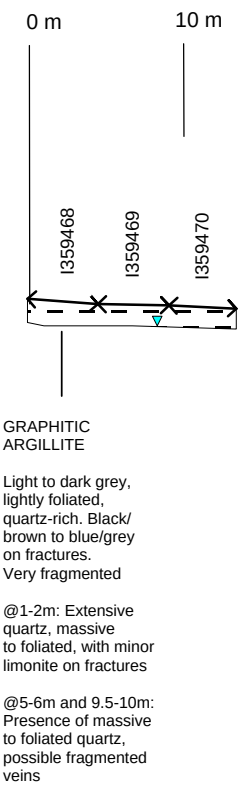
425700 mE 6827611 mN

425729 mE 6827590 mN

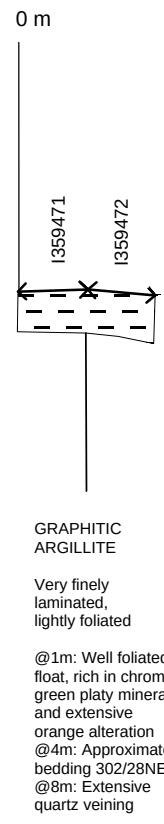
TR-11-12A



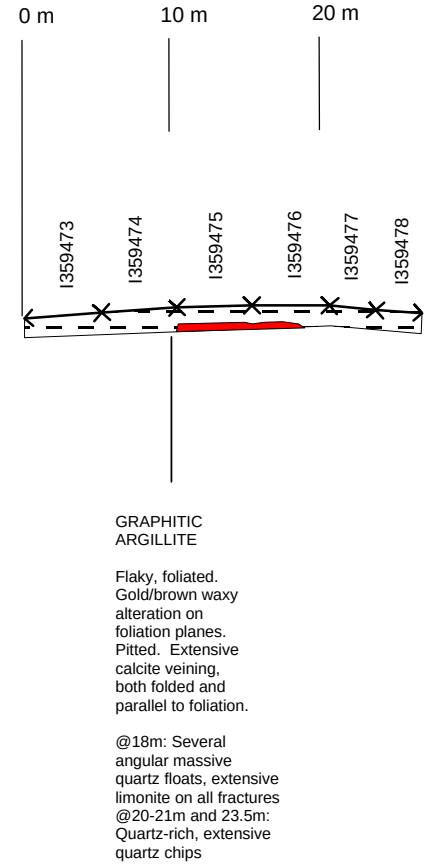
TR-11-12B



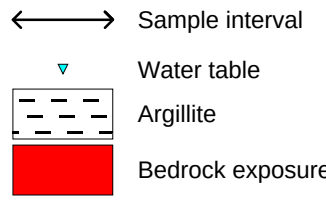
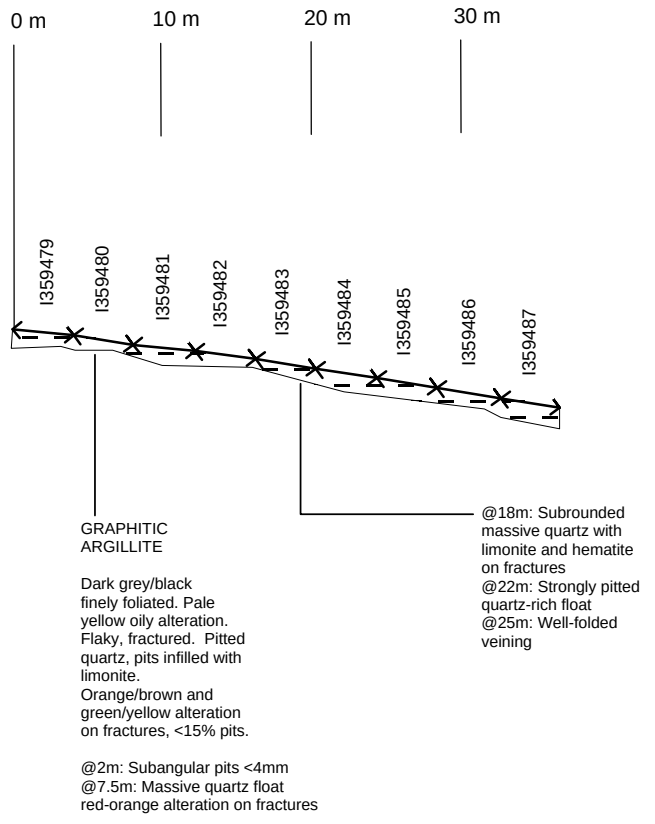
TR-11-12C



TR-11-12D



TR-11-12E



\*NOTE: Trench fragmented rock to unsorted till, unless specified otherwise

All dips are apparent, not true

4X Vertical Exaggeration

| Azimuth   |            |        |           |          |        |
|-----------|------------|--------|-----------|----------|--------|
| TR-11-12A | 0 - 19m    | @ 103° | TR-11-12D | 0 - 13m  | @ 128° |
|           | 19 - 25m   | @ 110° |           | 13 - 26m | @ 113° |
|           | 25 - 45m   | @ 119° |           |          |        |
|           | 45 - 53m   | @ 101° | TR-11-12E | 0 - 7m   | @ 111° |
| TR-11-12B | 0 - 13.5 m | @ 113° |           | 7 - 18m  | @ 131° |
| TR-11-12C | 0 - 9m     | @ 103° |           | 18 - 31m | @ 127° |
|           |            |        |           | 31 - 36m | @ 133° |

**WOLVERINE MINERALS CORP.**  
**STRATEGIC METALS LTD.**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TR-11-12 NORTH RIB**  
**STRING PROPERTY**

0 30 m

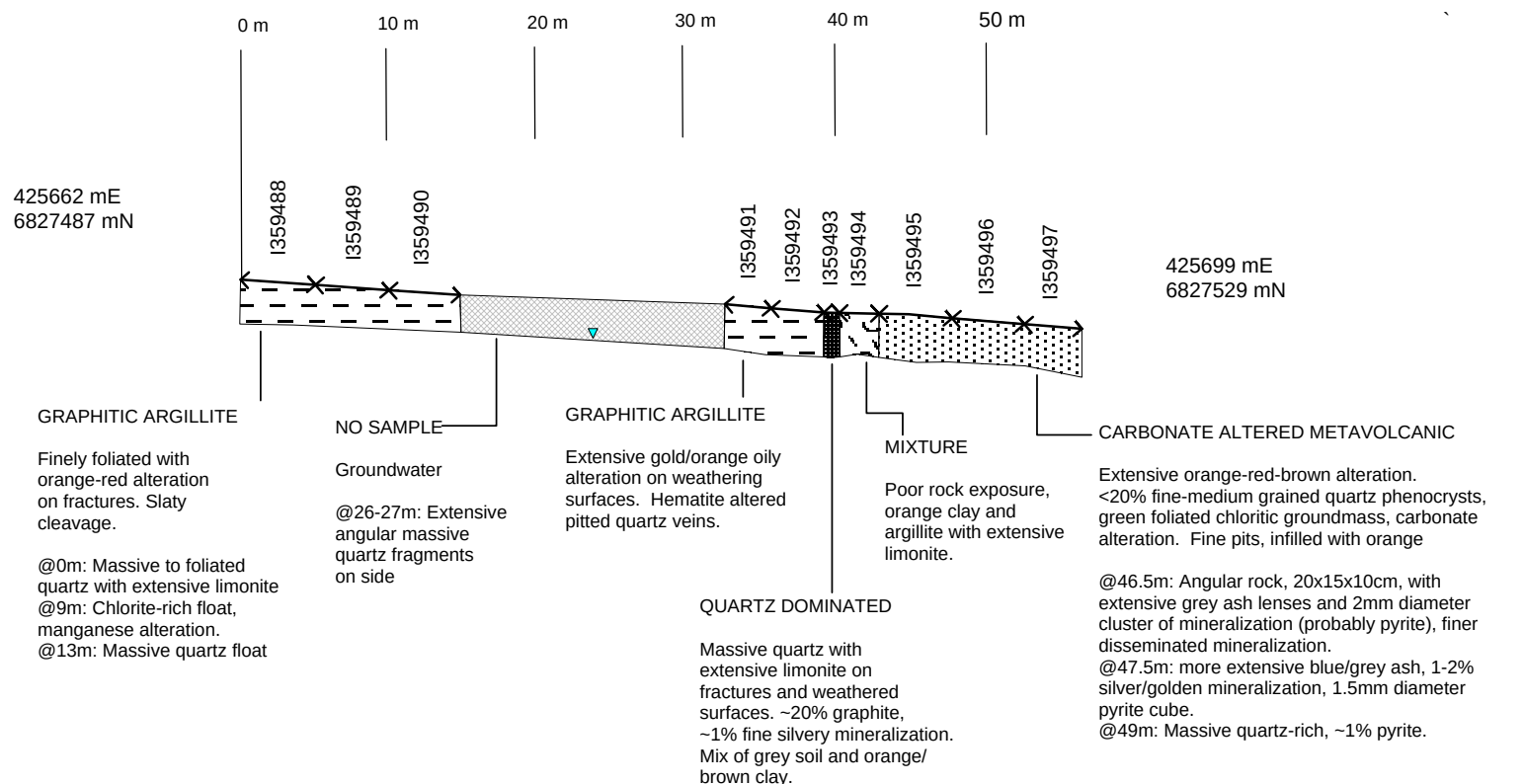
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-12.wor DATE: APRIL 2012

\*NOTE: Trench fractured/fragmented rock, unless specified otherwise

4X Vertical Exaggeration

Azimuth 0 - 11m @ 022°  
11 - 45m @ 043°  
45 - 57m @ 056°



**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-15 WEST RIB**  
STRING PROPERTY

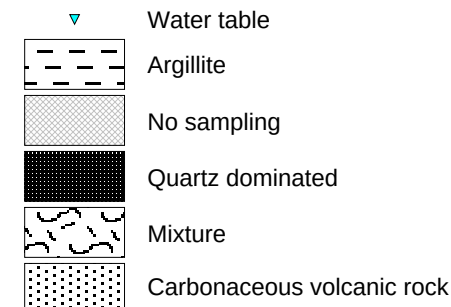
0 30 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-15.wor

DATE: APRIL 2012

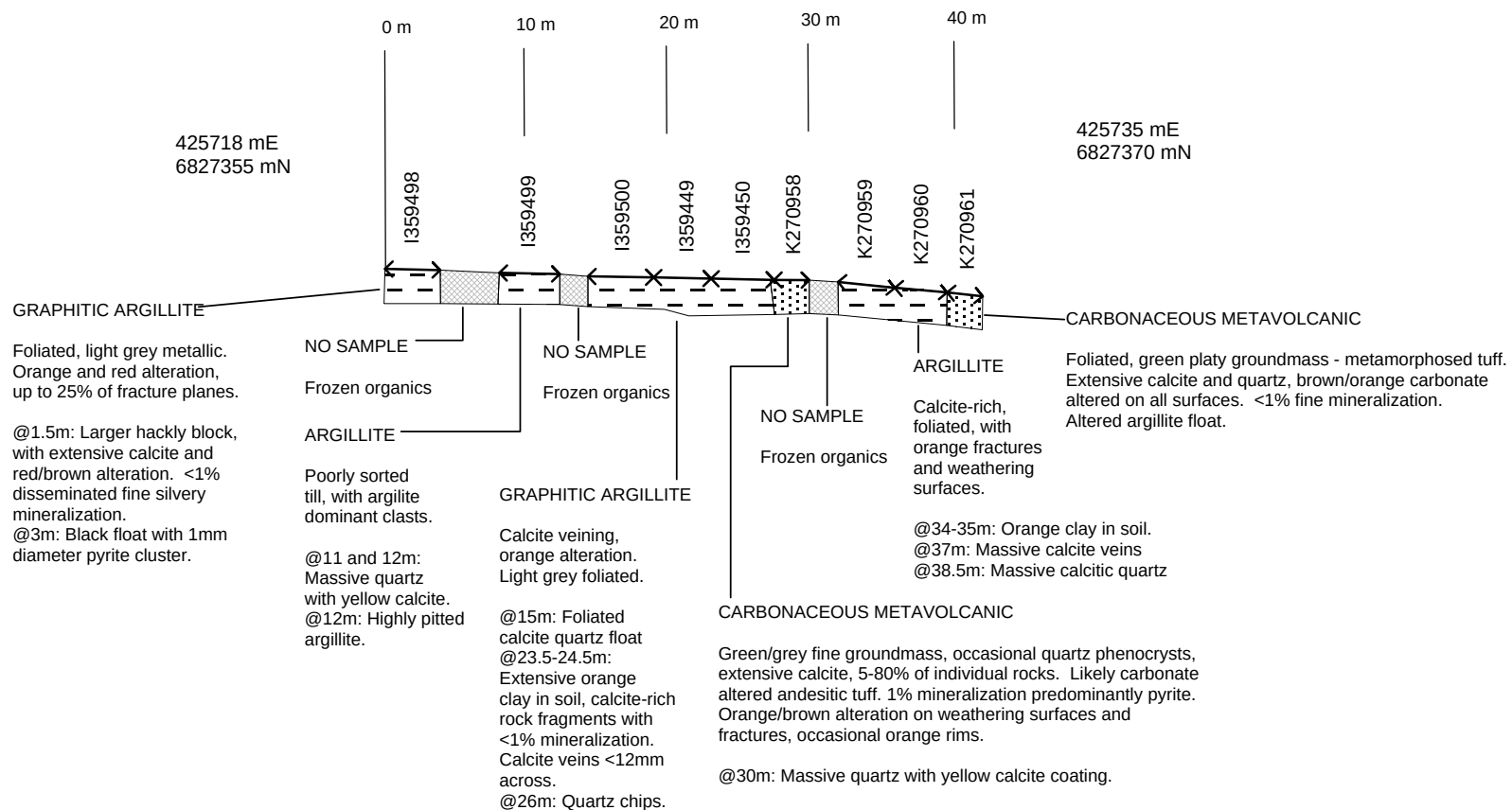
←→ Sample interval



\*NOTE: Trench fractured, fissile rock, unless specified otherwise

4X Vertical Exaggeration

Azimuth 0 - 14m @ 033°  
14 - 23m @ 040°  
23 - 42m @ 034°



**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

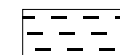
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-16 WEST RIB**  
STRING PROPERTY

0 30 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-16.wor

DATE: APRIL 2012

←→ Sample interval



Argillite



No sampling

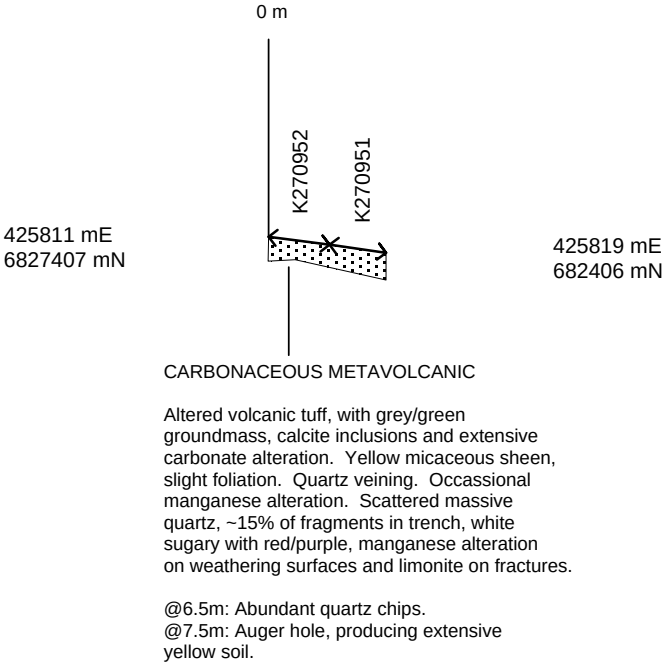


Carbonaceous volcanic rock

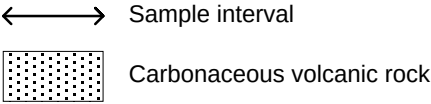
\*NOTE: Trench fractured/broken rock in orange/brown soil, unless specified otherwise

Azimuth      0 - 8m      @ 098°

4X Vertical Exaggeration



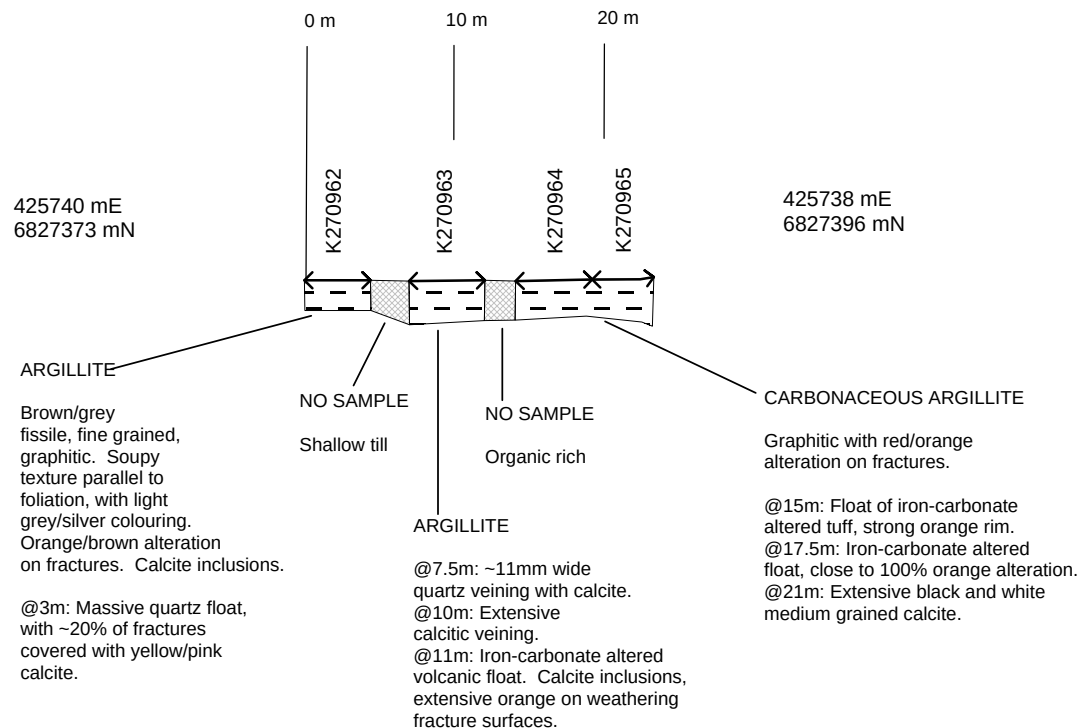
|                                                                                            |                  |
|--------------------------------------------------------------------------------------------|------------------|
| WOLVERINE MINERALS CORP.<br>STRATEGIC METALS LTD.                                          |                  |
| ARCHER, CATHRO & ASSOCIATES (1981) LIMITED<br><b>TR-11-17 NORTH RIB</b><br>STRING PROPERTY |                  |
| <div>0<div></div>30 m</div> <div>UTM ZONE 9, NAD 83, 105G/09</div>                         |                  |
| FILE: ...2011/String/.../String-Fxx-TR-11-17.wor                                           | DATE: APRIL 2012 |



\*NOTE: Trench fractured/fragmented rock and till, unless specified otherwise

Azimuth 0 - 23m @ 355°

4X Vertical Exaggeration



**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TR-11-18 WEST RIB  
STRING PROPERTY**

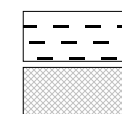
0 30 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-18.wor

DATE: APRIL 2012

←→ Sample interval



Argillite

No sampling

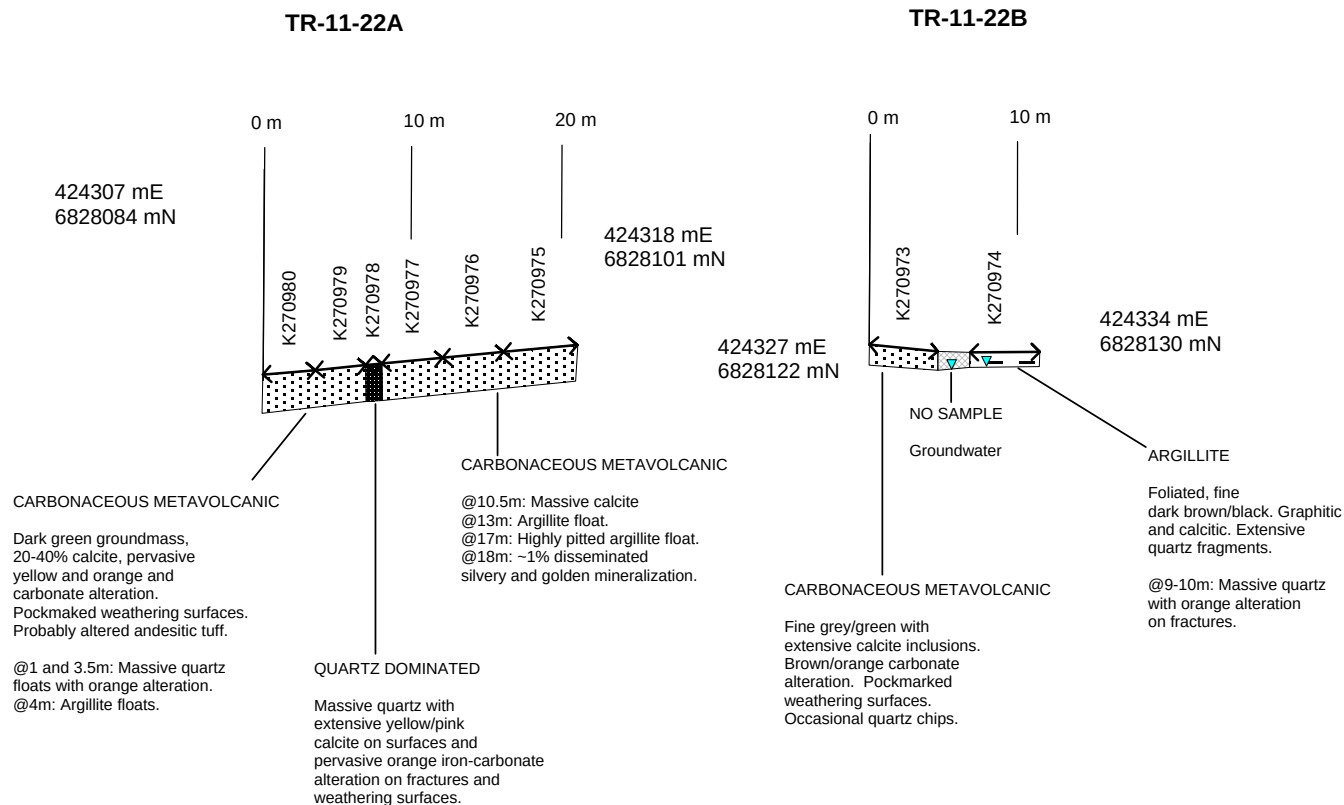
\*NOTE: Trench fractured/weathered bedrock, unless specified otherwise

4X Vertical Exaggeration

Azimuth

TR-11-22A 0 - 21m @ 034°

TR-11-22B 0 - 11m @ 042°



**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

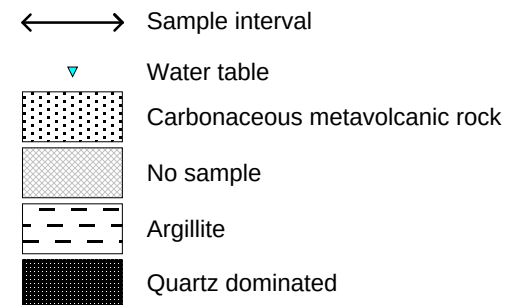
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-22 WEST RIB**  
STRING PROPERTY

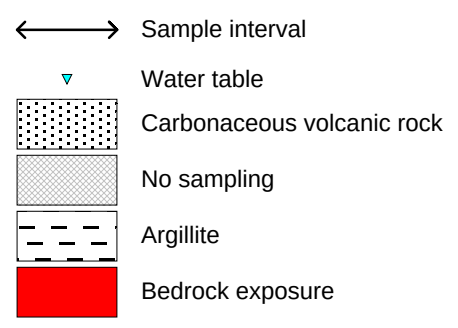
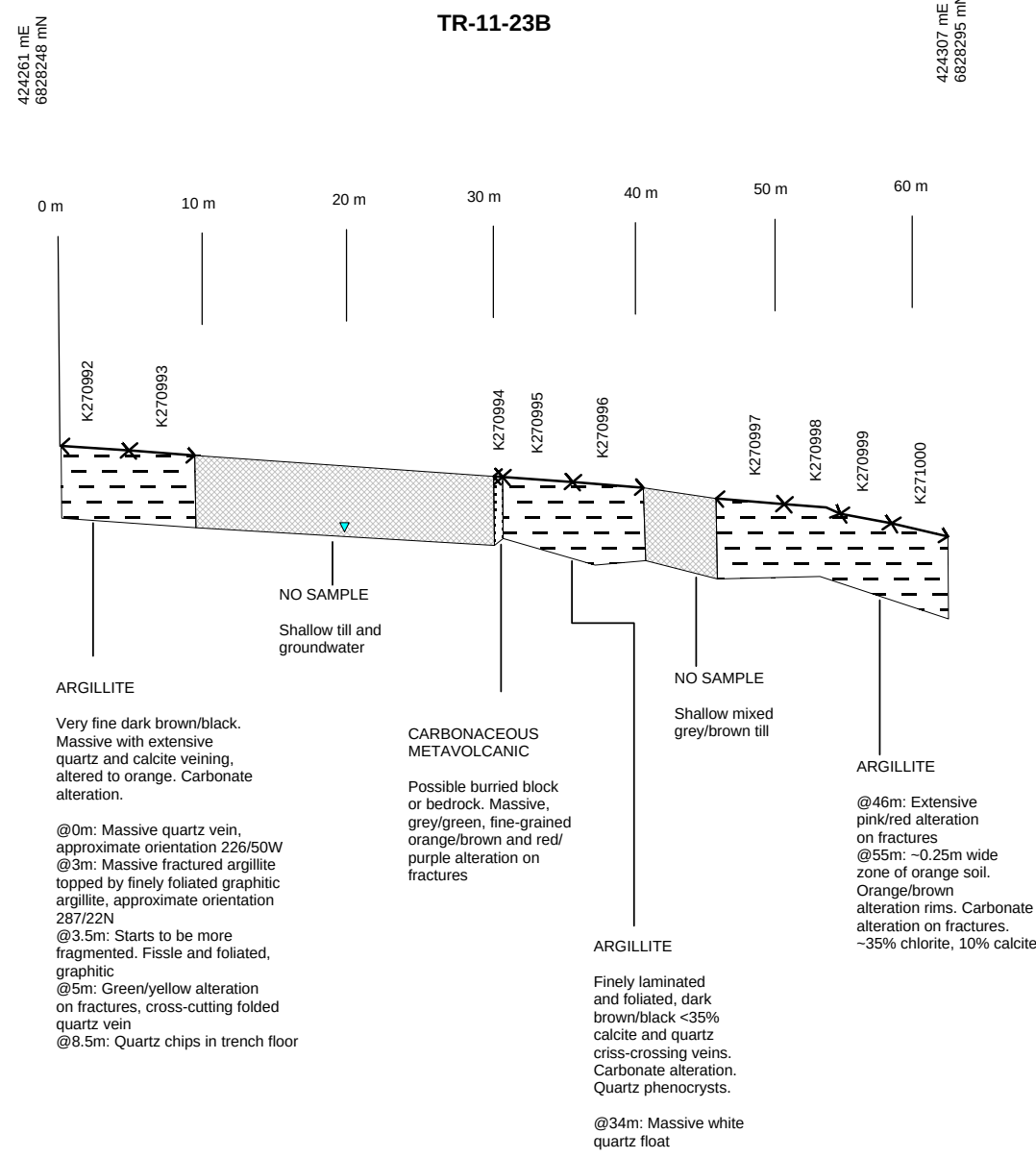
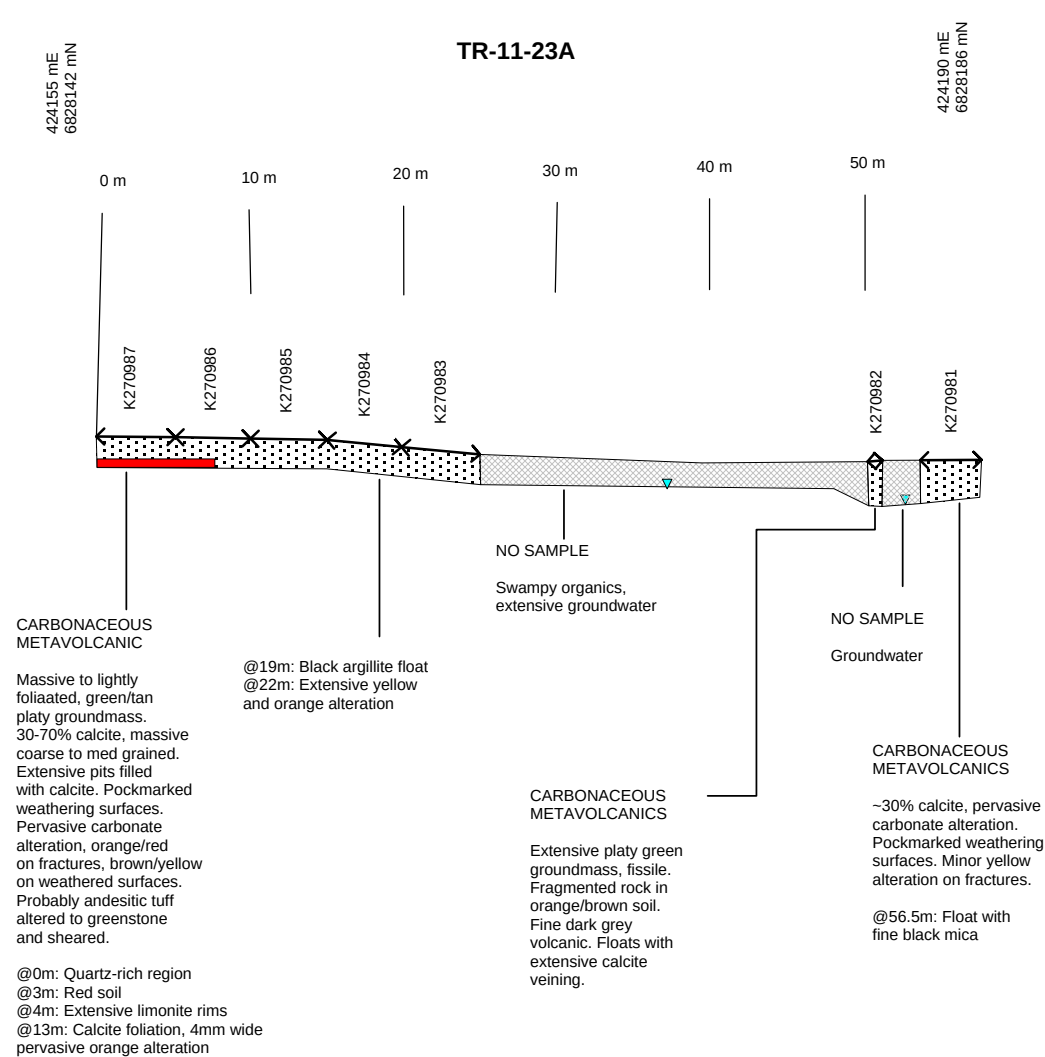
0 30 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-22.wor

DATE: APRIL 2012





\*NOTE: Trench fractured to fragmented rock to unsorted till, unless specified otherwise

All dips are apparent, not true

4X Vertical Exaggeration

| Azimuth   |          |        |
|-----------|----------|--------|
| TR-11-23A | 0 - 7m   | @ 045° |
|           | 7 - 28m  | @ 029° |
|           | 28 - 43m | @ 047° |
|           | 43 - 57m | @ 038° |
| TR-11-23B | 0 - 21m  | @ 037° |
|           | 21 - 35m | @ 048° |
|           | 35 - 52m | @ 043° |
|           | 52 - 62m | @ 034° |

WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.

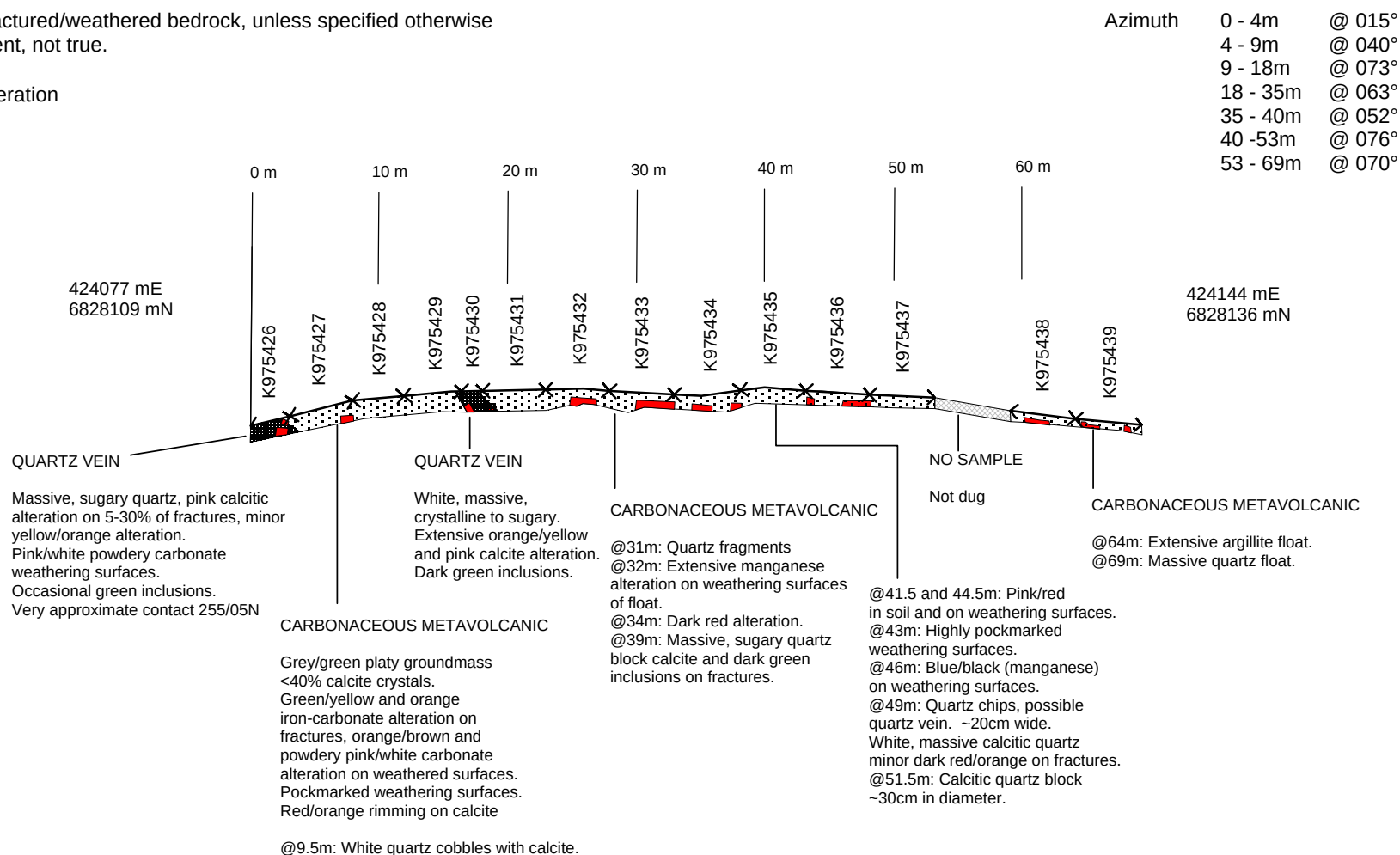
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-23 WEST RIB**  
STRING PROPERTY

030 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-23.worDATE: APRIL 2012

\*NOTE: Trench fractured/weathered bedrock, unless specified otherwise  
All dips are apparent, not true.

4X Vertical Exaggeration



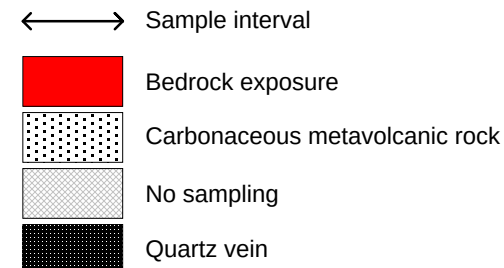
**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-24 NORTHWEST RIB  
STRING PROPERTY**

0 30 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-24.wor

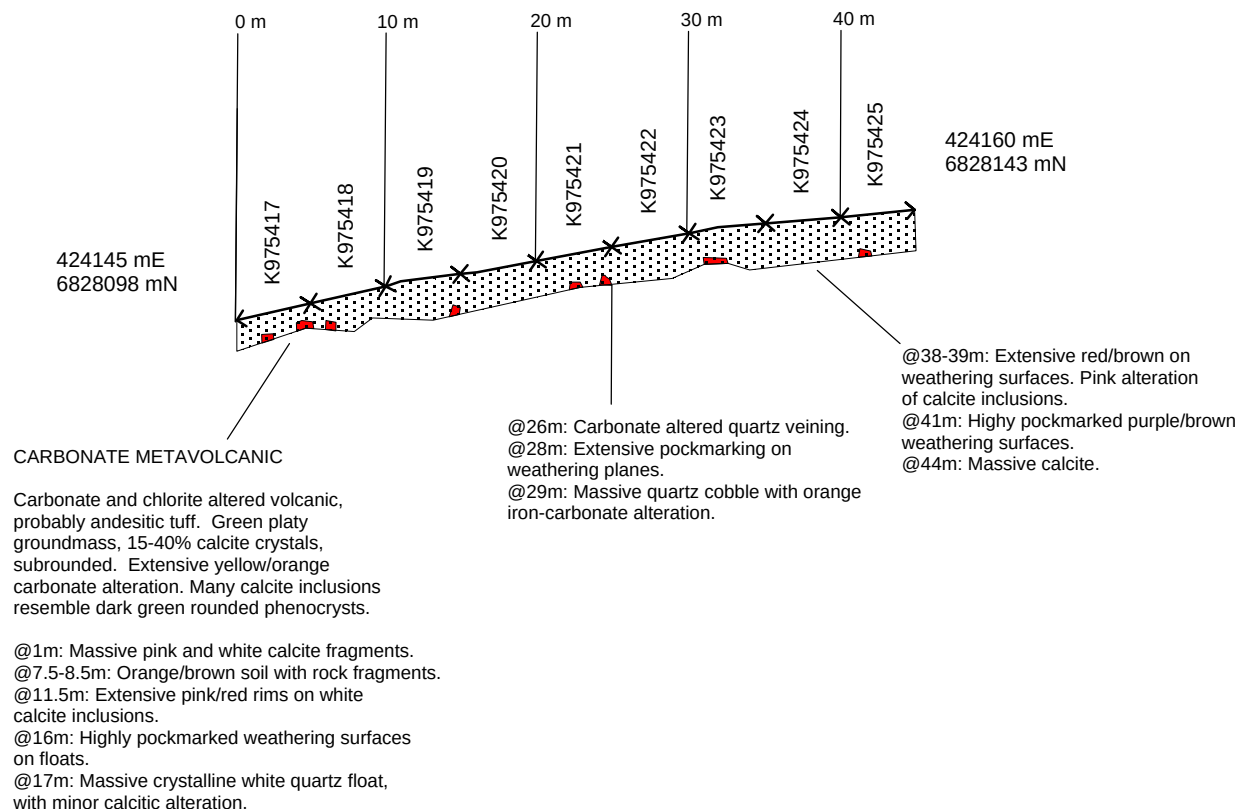
DATE: APRIL 2012



\*NOTE: Trench fractured/fragmented bedrock, unless specified otherwise

4X Vertical Exaggeration

|         |          |        |
|---------|----------|--------|
| Azimuth | 0 - 15m  | @ 015° |
|         | 15 - 21m | @ 347° |
|         | 21 - 30m | @ 008° |
|         | 30 - 35m | @ 035° |
|         | 35 - 45m | @ 003° |



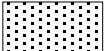
**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-25 WEST RIB**  
STRING PROPERTY

0 30 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-25.wor

DATE: APRIL 2012

←→ Sample interval  
 Bedrock exposure  
 Carbonaceous metavolcanic rocks

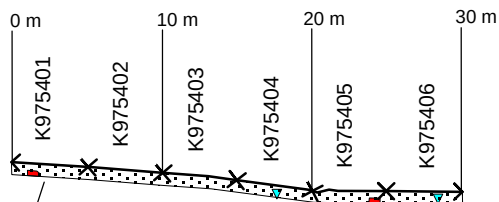
\*NOTE: Trench fractured/weathered bedrock, unless specified otherwise

4X Vertical Exaggeration

### TR-11-26A

424076 mE  
6828147 mN

424100 mE  
4828162 mN



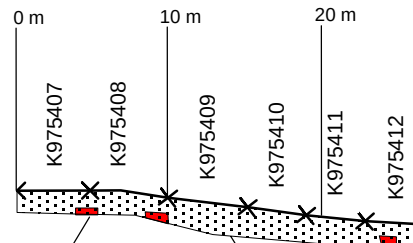
#### CARBONACEOUS METAVOLCANICS

Fine grey/green groundmass, weathering to light green/yellow. 20-60% calcite phenocrysts. Sheared/foliated lightly. Extensive carbonate alteration. Orange/brown and red/orange on weathering surfaces, dark green platy on fractures. Pockmarked weathering surfaces.

@0m: Massive vuggy quartz float  
@4m: Massive blue/black aphanitic float.  
@7.5m: Calcite veining, 8mm wide.  
@16m: Dark red/orange coppery soil.  
@19.5m: Massive quartz and argillite floats.  
@24-24.5m: Possible bedrock or very large blocks  
@26m: Massive quartz float, cobble sized.  
@29m: Quartz chips  
@30m: Extensive orange rimming.

### TR-11-26B

424177 mE  
6828178 mN



#### METAVOLCANIC

Aphanitic volcanic basaltic, med-dark grey, 5-10% pits rimmed with orange. Occasional grey/green alteration. Brown/orange weathering surfaces. <1% silvery/gold mineralization in most fragments. Carbonate alteration and calcite veining and inclusions, increasing in prominence towards northeast.

@0m: Vuggy white crystalline quartz float.  
@6m: Extensive calcite alteration.  
@8.5-10m: Brown/green groundmass, sheared/foliated, with extensive orange and pink/red alteration. Resembles metavolcanic in TR-11-26A (more andesitic). Occasional pyrite mineralization.  
@11m: Quartz vein <1cm across.

As of 14m: Increased mica content and foliation. Dark grey/black groundmass.  
@15m: Extensive calcite crystals.  
@18m: ~2% silvery mineralization, in disseminated clusters, some cubic, purple oxidation.  
@19.5m: Green, platy float, <1% mineralization.  
@21m: Massive quartz with calcite. Extensive quartz and calcite in all rocks.  
@24-25m: Bedrock is micaceous and calcitic, med-dark grey groundmass, occasionally green, foliated. Orange rims on fractures.

#### Azimuth

TR-11-26A 0 - 12m @ 055°  
12 - 20m @ 036°  
20 - 30m @ 081°

TR-11-26B 0 - 18m @ 051°  
18 - 27m @ 072°

424191 mE  
6828200 mN

## WOLVERINE MINERALS CORP. STRATEGIC METALS LTD.

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## TR-11-26 NORTHWEST RIB STRING PROPERTY

0 30 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-26.wor

DATE: APRIL 2012

↔ Sample interval

▼ Water table

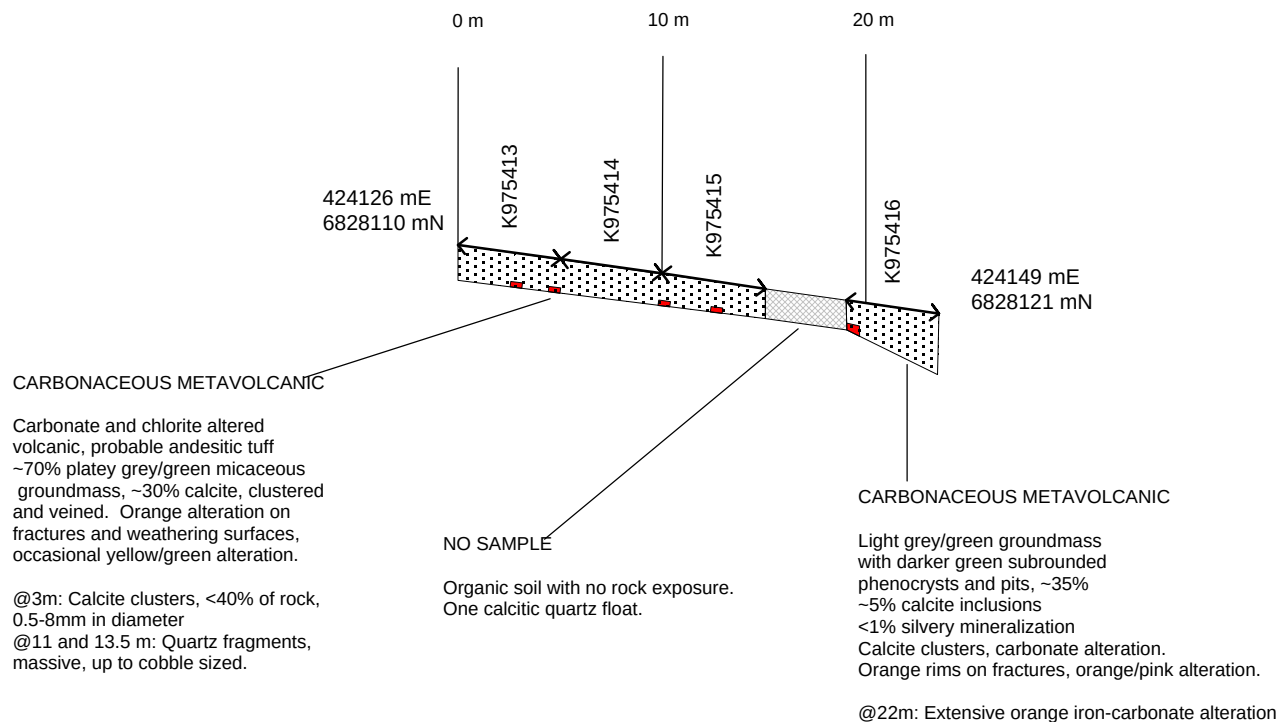
■ Bedrock exposure

▨ Carbonaceous metavolcanic rock

\*NOTE: Trench fractured rock near bedrock, unless specified otherwise

4X Vertical Exaggeration

Azimuth 0 - 15m @ 059°  
15 - 19m @ 068°  
19 - 23.5m @ 105°



**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR-11-27 NORTHWEST RIB**  
STRING PROPERTY

0 30 m  
UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011/String/.../String-Fxx-TR-11-27.wor

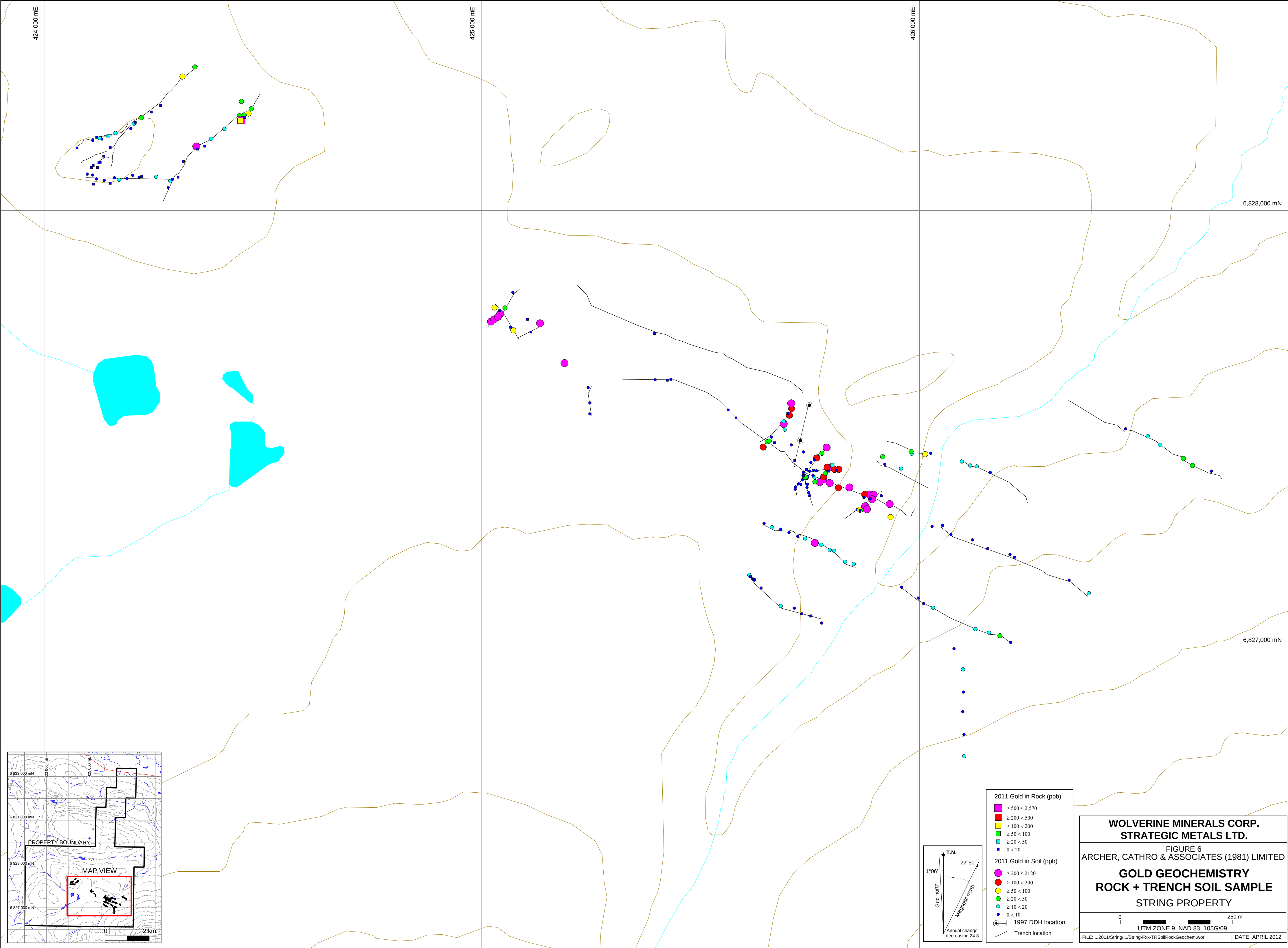
DATE: APRIL 2012

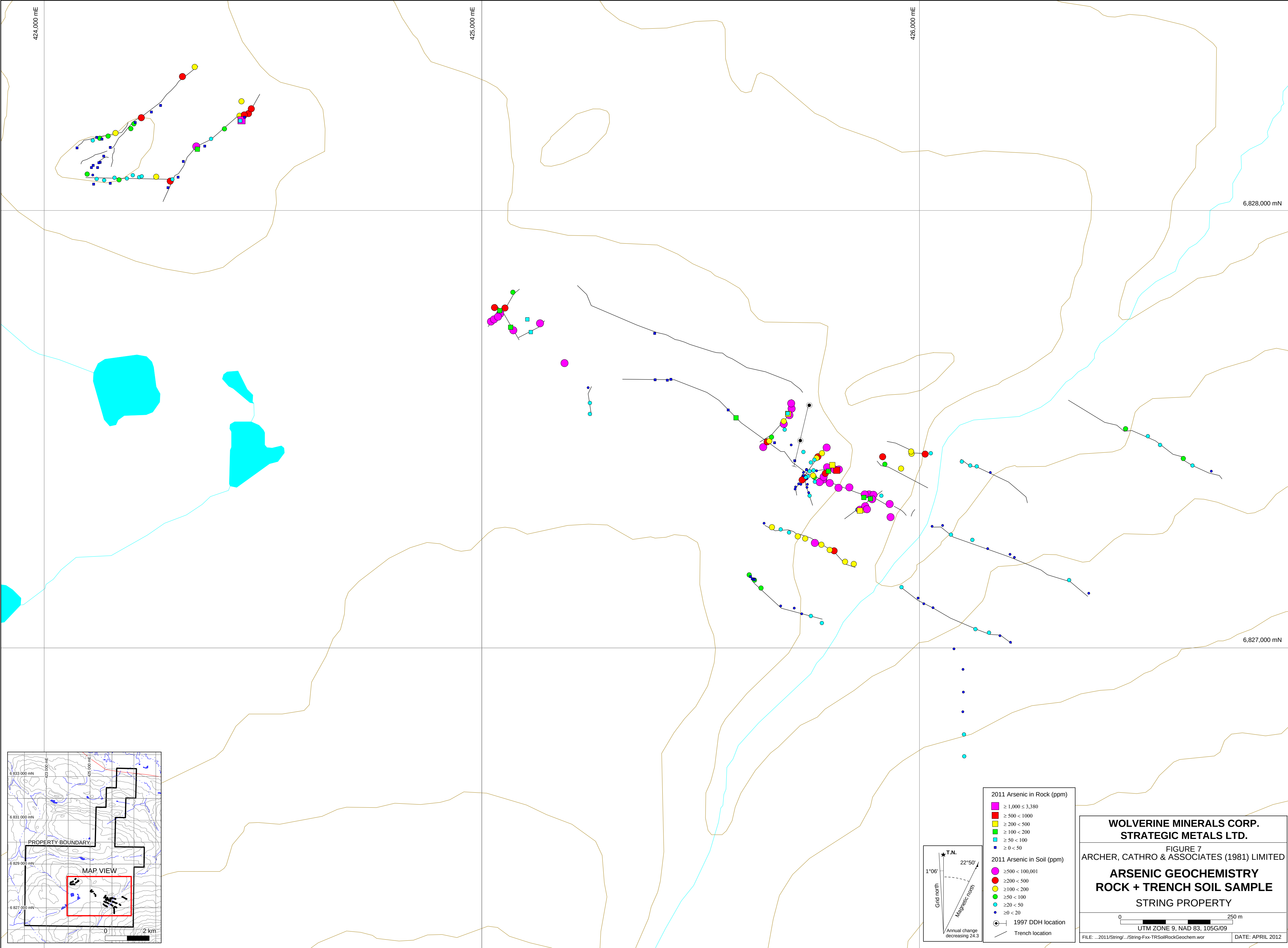
↔ Sample Interval

Bedrock exposure

No sample

Carbonaceous metavolcanic rock





**WOLVERINE MINERALS CORP.**  
**STRATEGIC METALS LTD.**

FIGURE 7  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

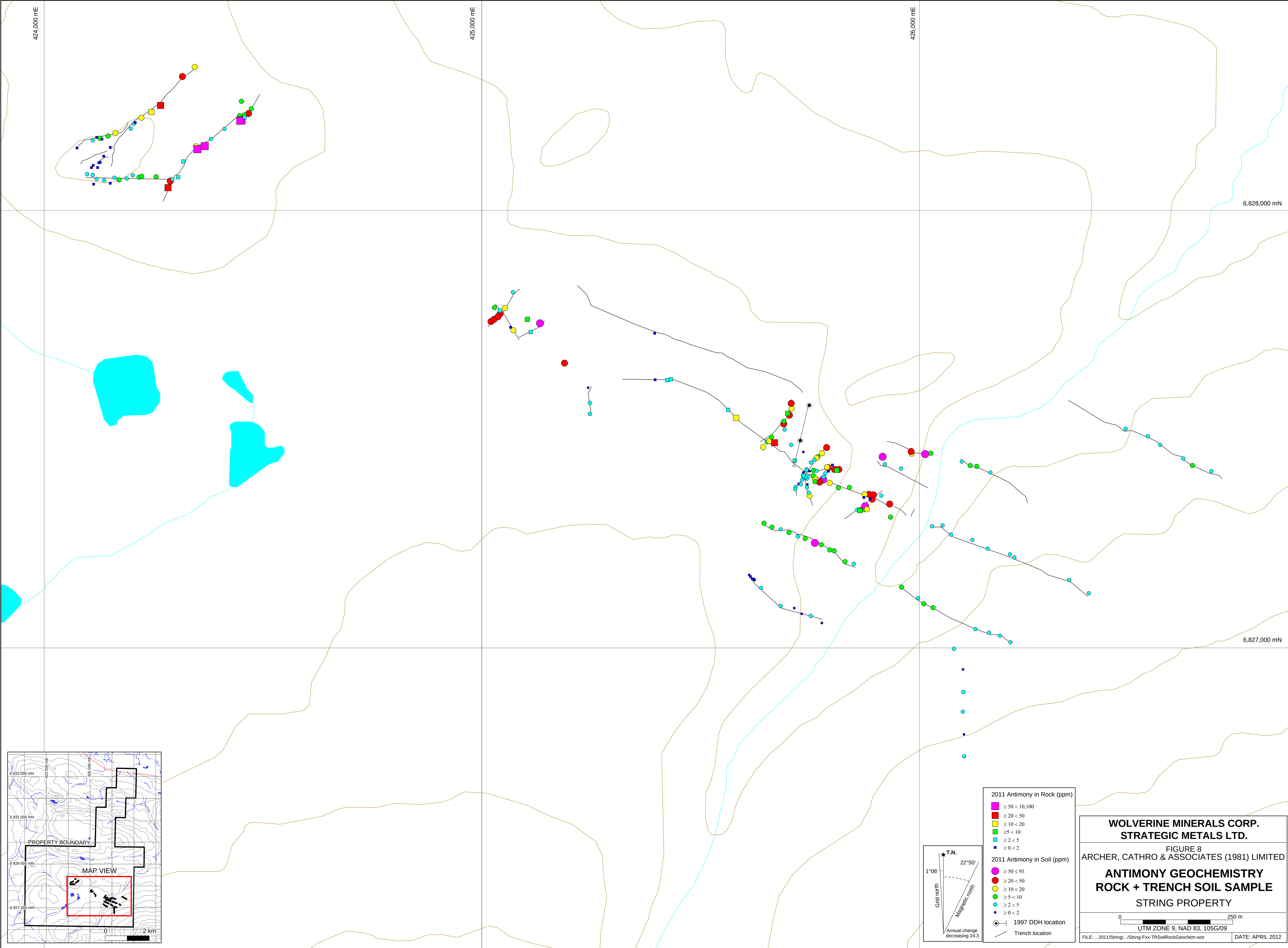
**ARSENIC GEOCHEMISTRY**  
**ROCK + TRENCH SOIL SAMPLE**  
**STRING PROPERTY**

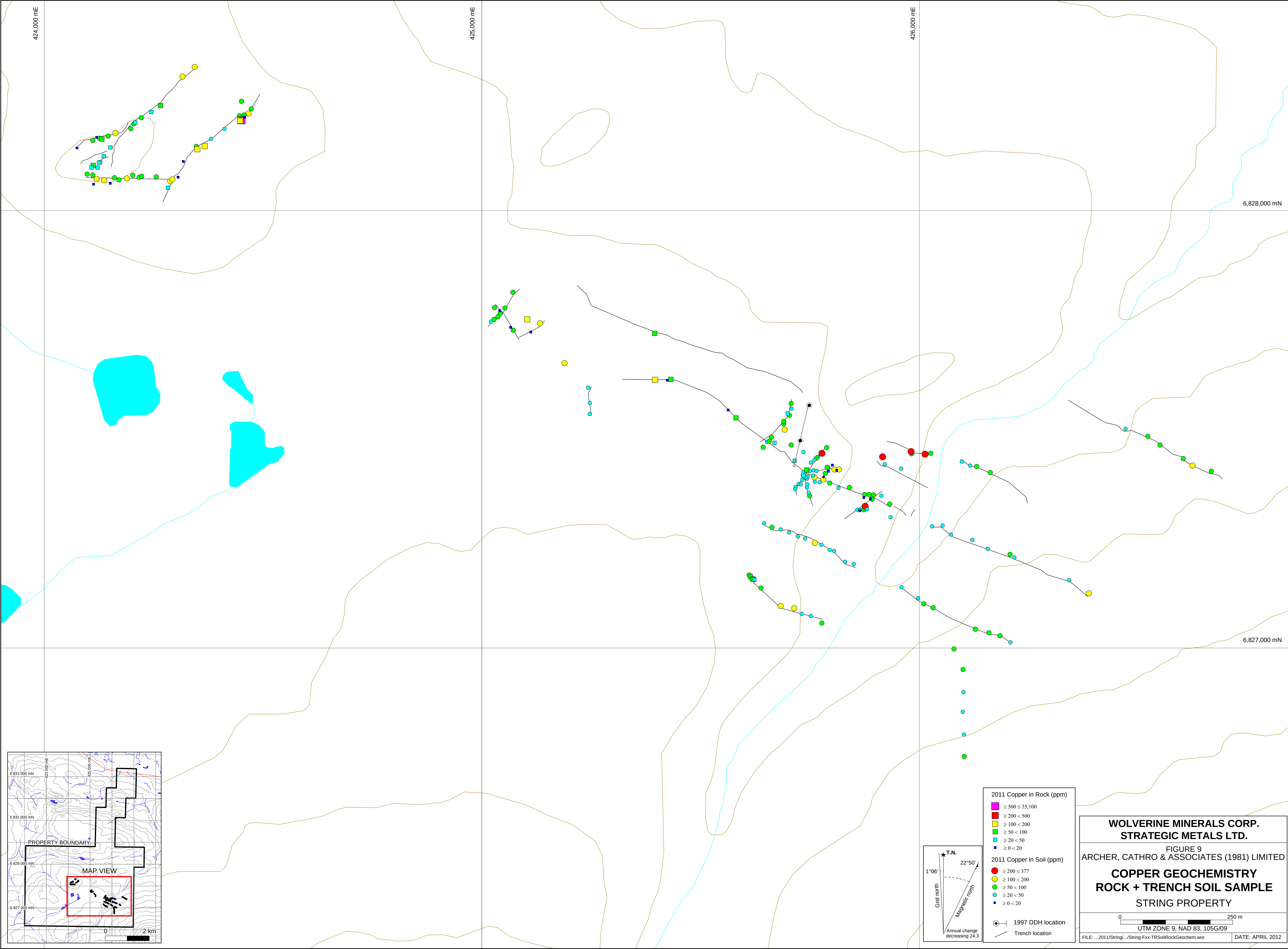
0 250 m

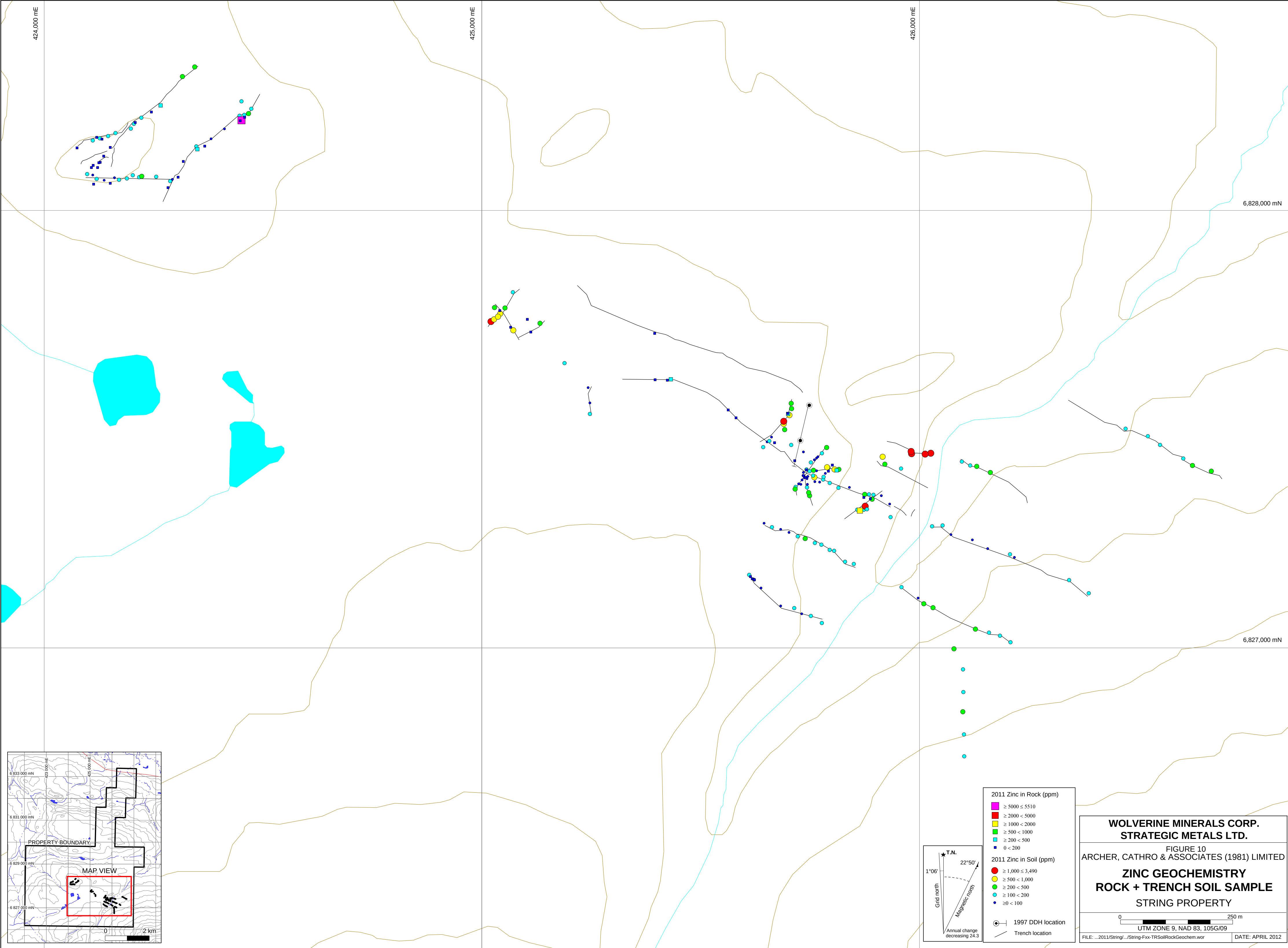
UTM ZONE 9, NAD 83, 105G/09

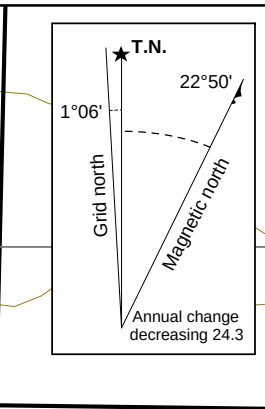
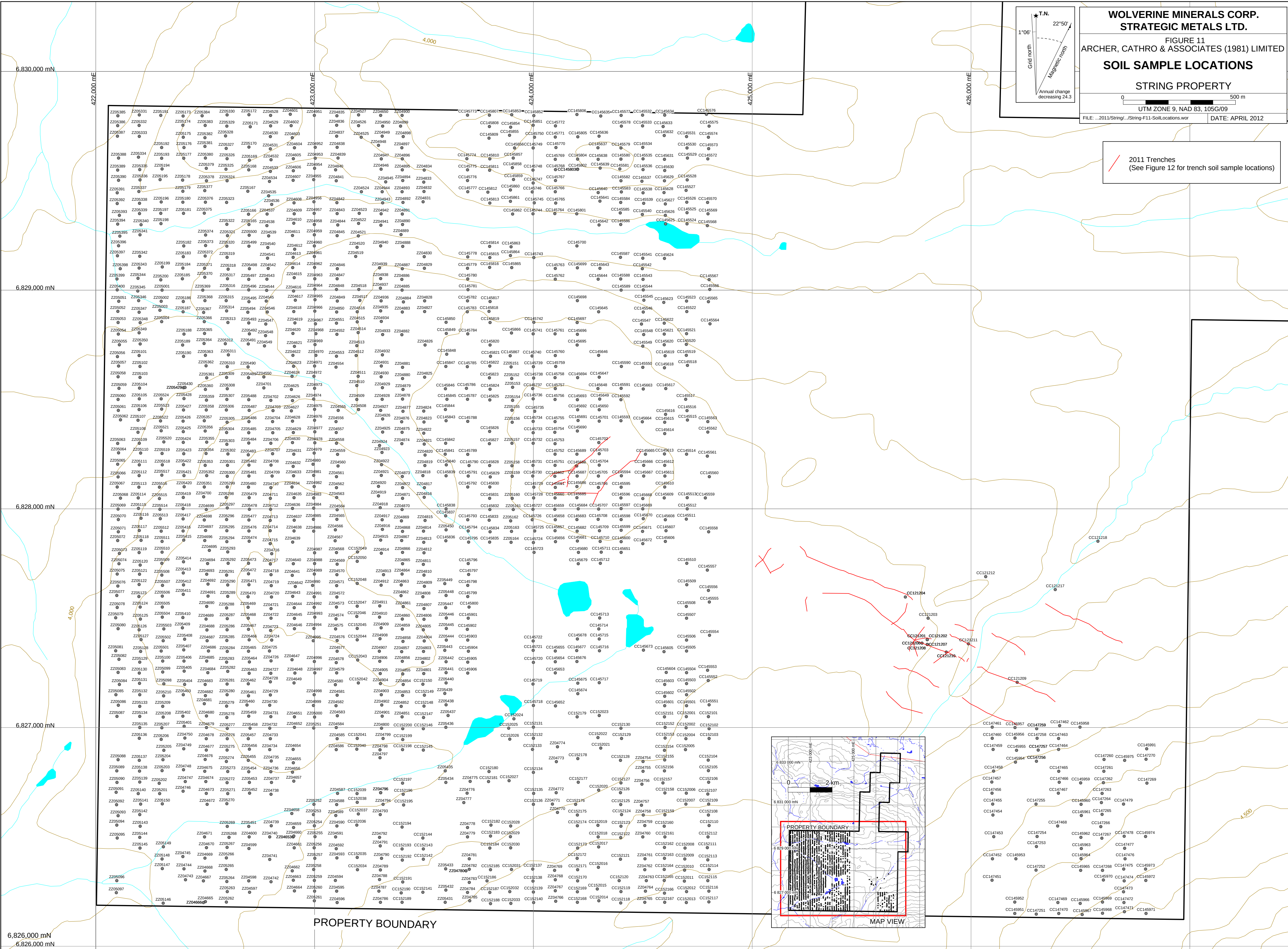
FILE: ...2011/String/.../String-Fxx-TRSoilRockGeochem.wor

DATE: APRIL 2012









**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

FIGURE 11  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

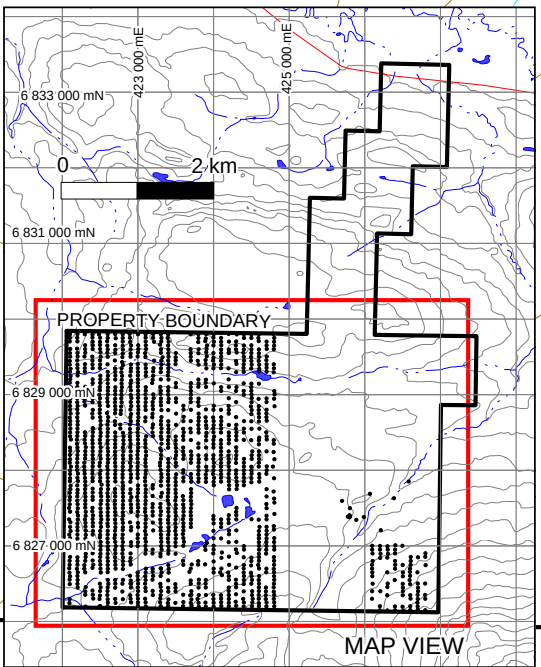
**SOIL SAMPLE LOCATIONS**

STRING PROPERTY

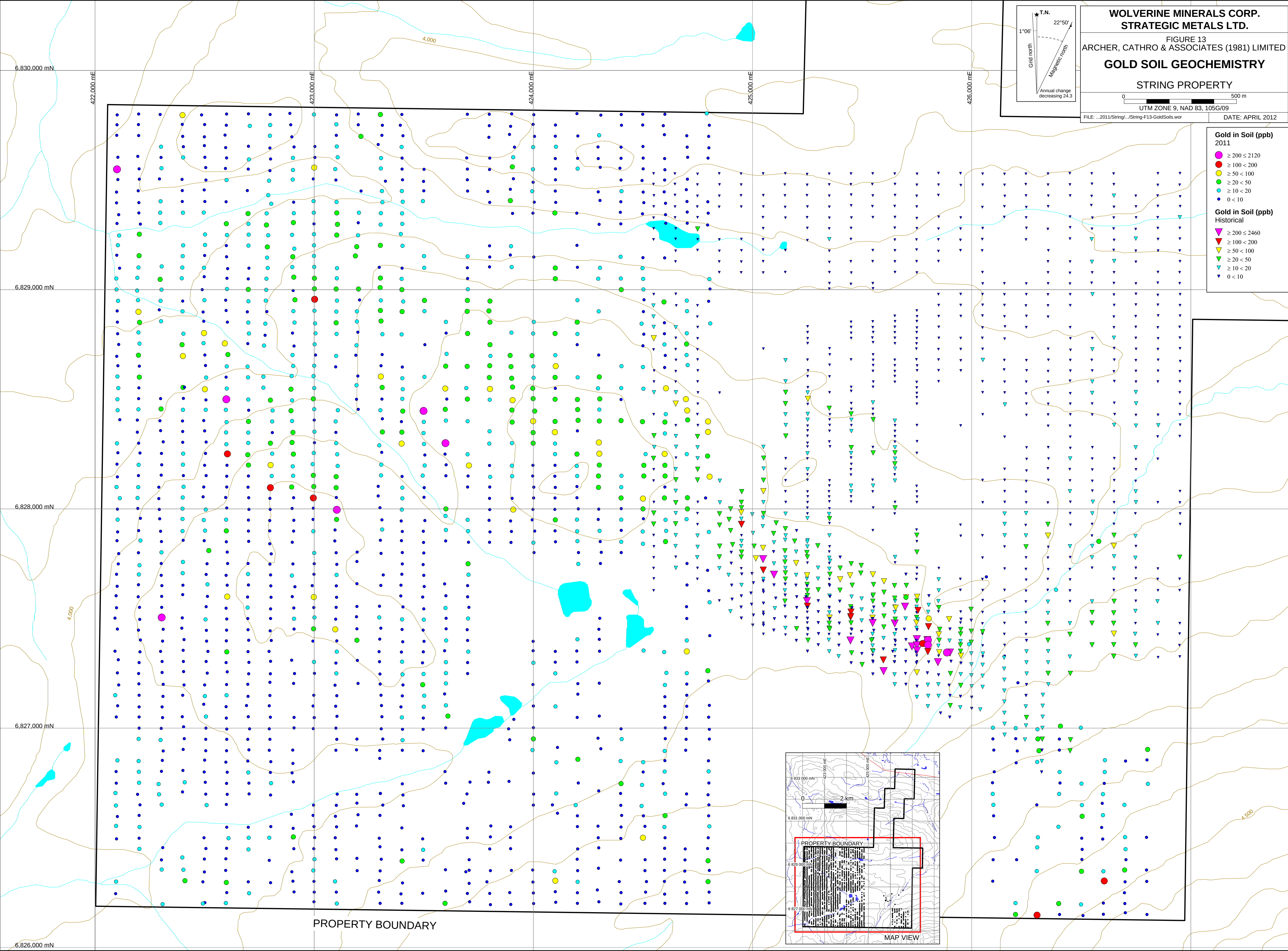
UTM ZONE 9, NAD 83, 105G/09

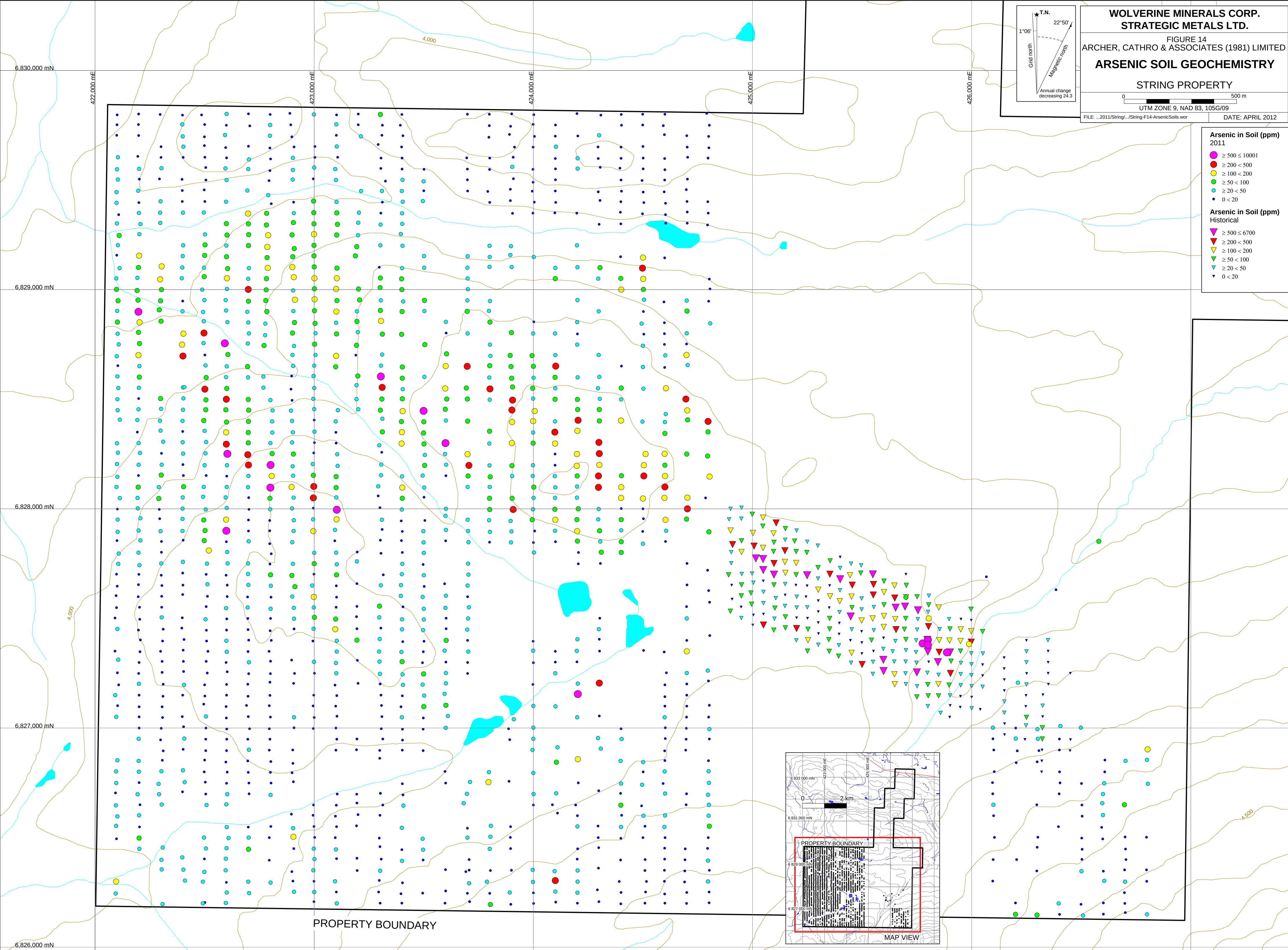
FILE: ...2011/String/...String-F11-SoilLocations.wor DATE: APRIL 2012

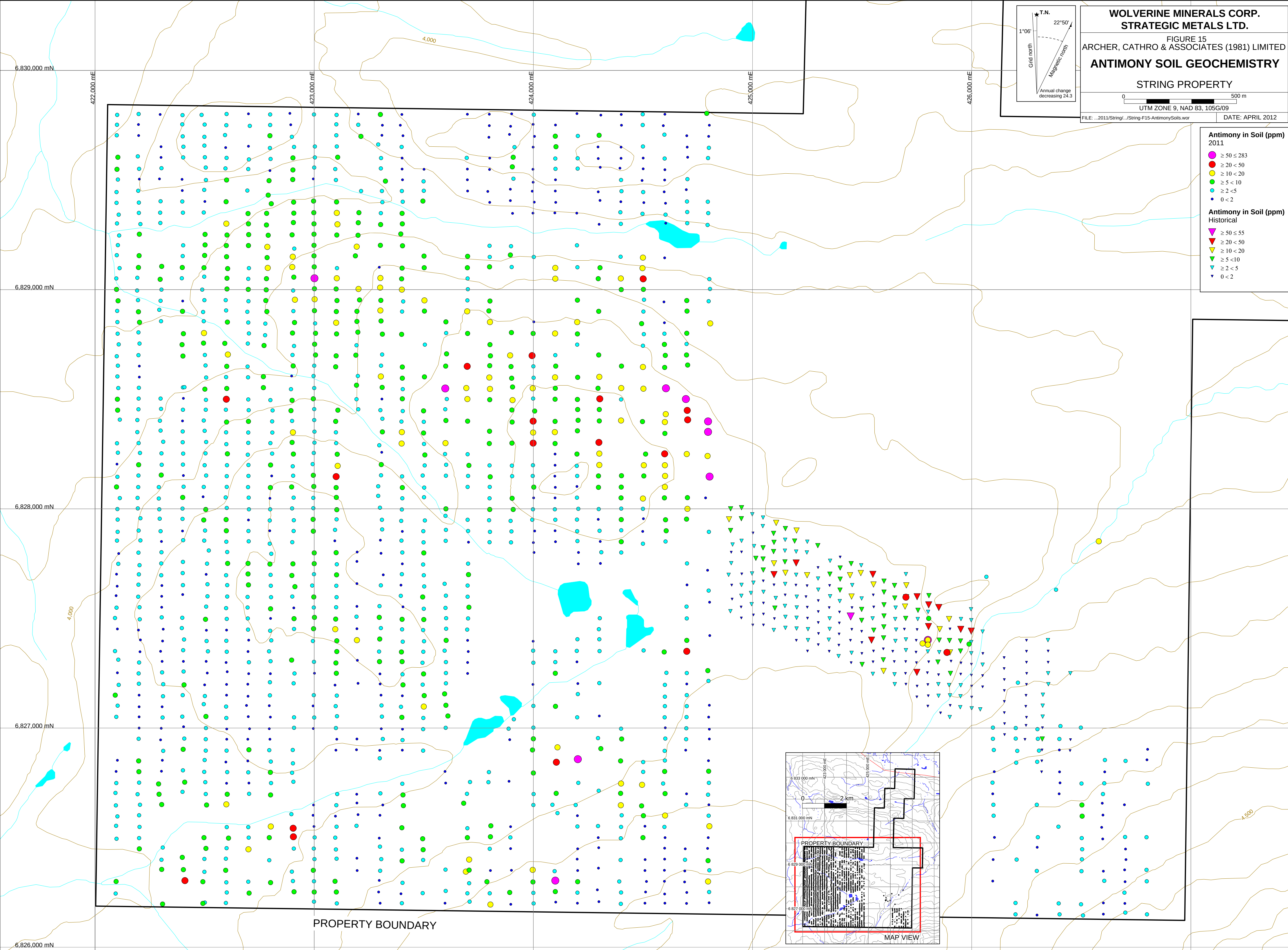
2011 Trenches  
(See Figure 12 for trench soil sample locations)

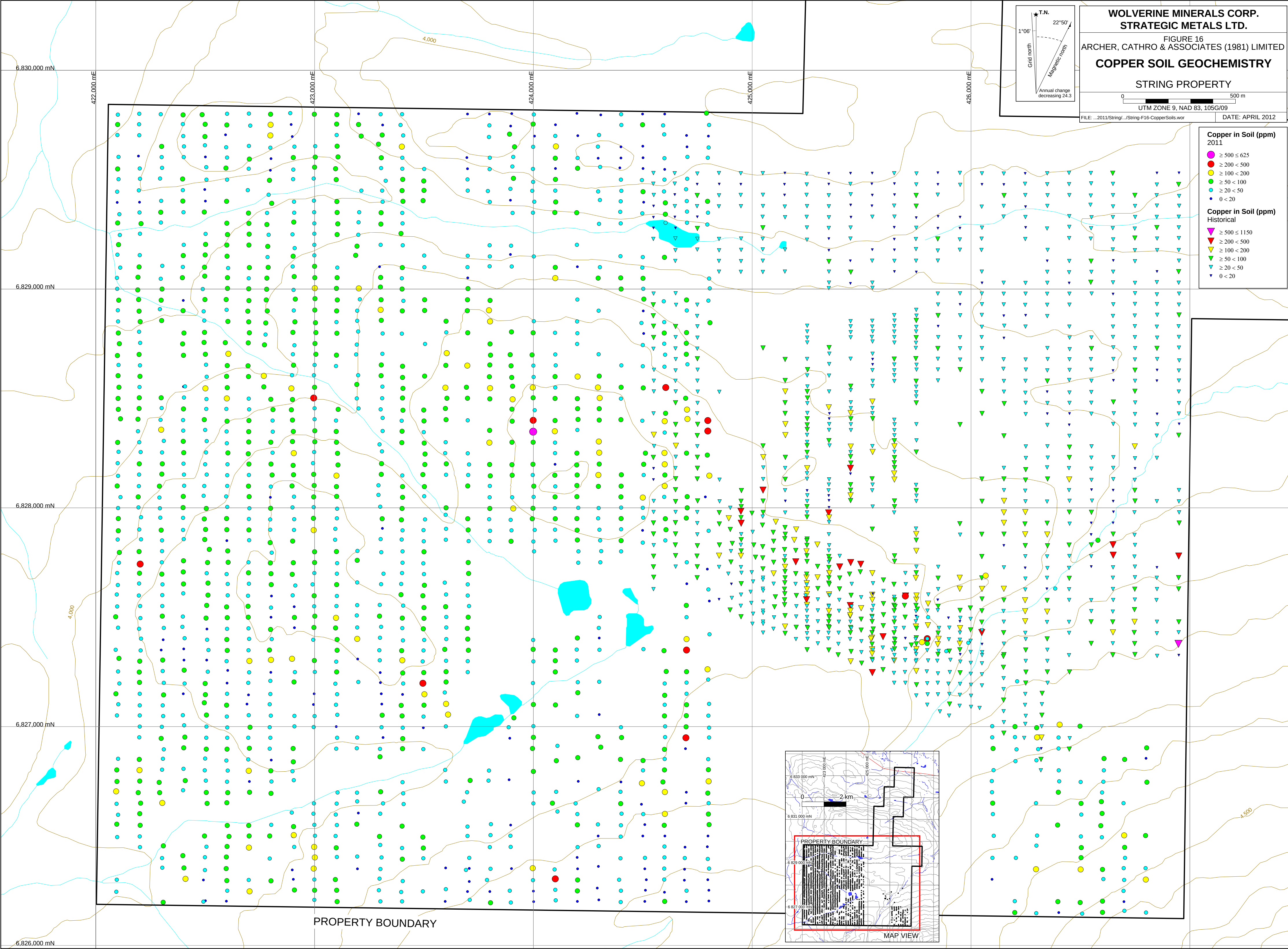


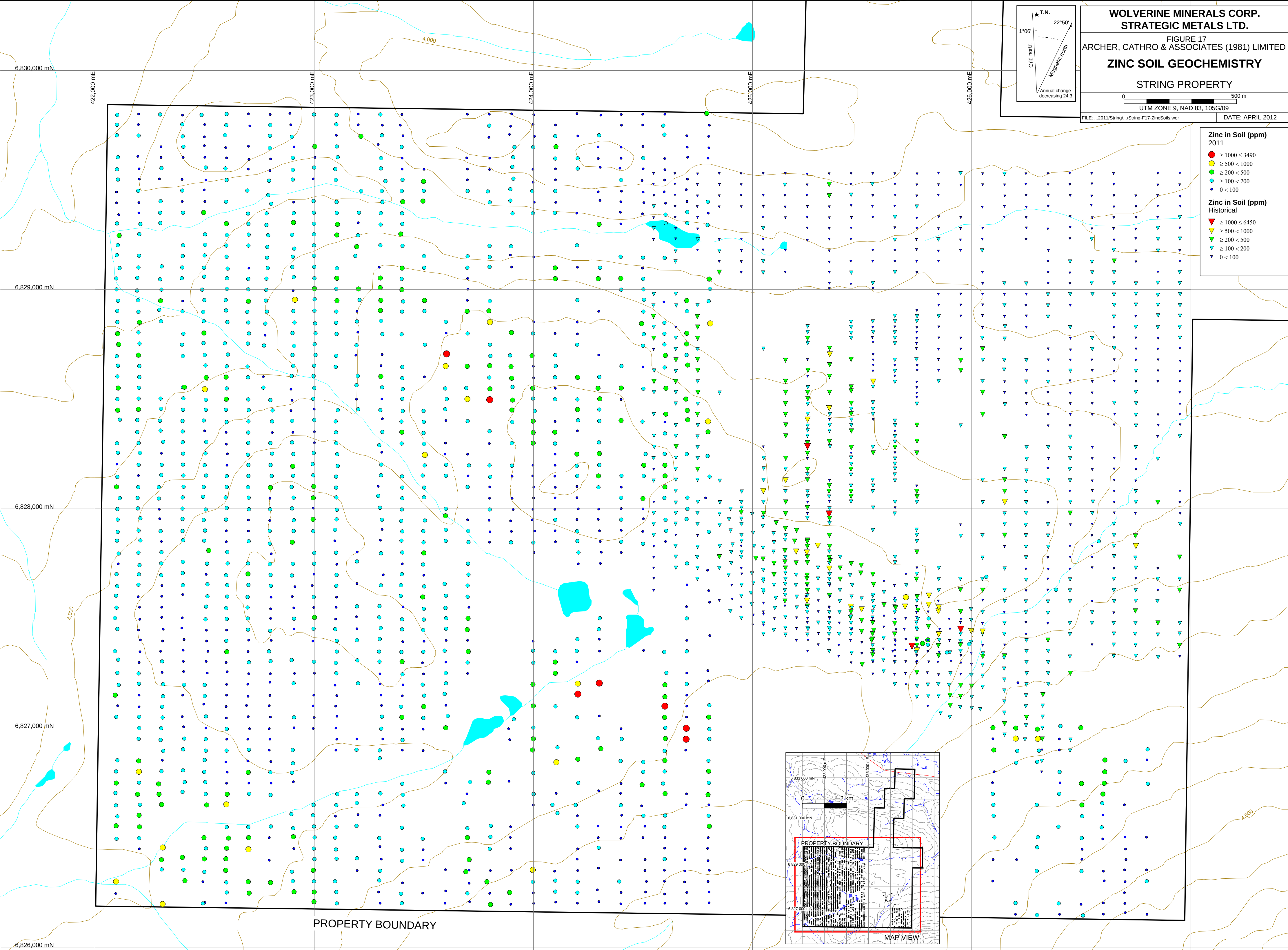












WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.

FIGURE 17  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC SOIL GEOCHEMISTRY

STRING PROPERTY

0500 m

UTM ZONE 9, NAD 83, 105G/09

FILE: ...2011\String\...String-F17-ZincSoils.wor

DATE: APRIL 2012

Zinc in Soil (ppm)  
2011

●

≥ 1000 ≤ 3490

●

≥ 500 < 1000

●

≥ 200 < 500

●

≥ 100 < 200

●

0 < 100

Zinc in Soil (ppm)  
Historical

▼

≥ 1000 ≤ 6450

▼

≥ 500 < 1000

▼

≥ 200 < 500

▼

≥ 100 < 200

▼

0 < 100

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 West Hastings Street  
Vancouver, B.C. V6B 1L8

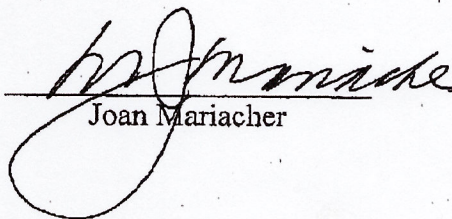
Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

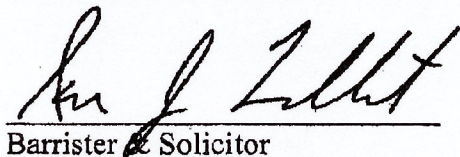
I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of  
Expenditures for exploration work on the String 1-108 mineral claims  
on claim sheet 105G/9 is accurate.

  
Joan Mariacher

Sworn before me at Vancouver, B.C.

this 18th day of October 2011.

  
Barrister & Solicitor

**IAN J. TALBOT**  
Barrister & Solicitor  
281 East 5th Street  
North Vancouver  
British Columbia  
Canada V7L 1L8

Statement of Expenditures  
String 1-108 Mineral Claims  
October 18, 2011

Labour

J. Dawson (P. Eng.) September 2011 – 5 days @ \$650/day \$ 3,640.00

Expenses (including management fee)

|                                        |                 |
|----------------------------------------|-----------------|
| 15317 Yukon Inc.                       | 106,698.06      |
| ALS Chemex – August 18 to September 24 | 15,225.51       |
| ALS Chemex – September 26 to October 4 | 23,092.84       |
| PhotoSat Information Ltd. – October    | <u>2,447.63</u> |
|                                        | 147,464.04      |

Total \$151,104.04