

**ASSESSMENT REPORT**

**WOODJAM SOUTH  
PROPERTY**

**Including  
Geological Mapping  
And  
Soil and Stream Geochemistry**

**MTO Events 4791151  
September 8, 2010**

**CARIBOO MINING DIVISION,  
British Columbia  
NTS: 93A/3, 93A/6  
Latitude 52.1764°N, Longitude 121.3178°W**

**Prepared for**

**Operator:  
Fjordland Exploration Inc.  
1100-1111 Melville Street  
Vancouver, B.C., Canada V6E 3V6**

**Optionee:  
Gold Fields Horsefly Exploration Corp  
400-1155 Robson Street  
Vancouver B.C. V6E 1B5**

**By:**

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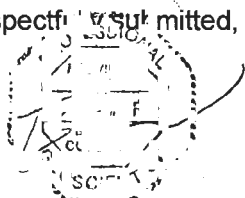
**December 2010  
Vancouver, B.C.**

**BC Geological Survey  
Assessment Report  
31893**

## Introduction and Terms of Reference

Between June 6, 2010 and August 14, 2010 a program of geological mapping, stream sediment and soil sampling was conducted on the Woodjam South Property. Mapping and sampling was conducted by Gold Fields Horsefly Exploration personnel and the author and supervised in the field by the author.

Respectfully submitted,



Bruce L. Laird, PGeo.  
Mincord Exploration Consultants Ltd

Bruce  
Laird P.  
Geo.

Digitally signed by  
Bruce Laird P. Geo.  
DN: CN = Bruce Laird  
P. Geo., C = CA, O =  
Mincord Exploration  
Consultants  
Date: 2010.12.07  
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## **1.0 SUMMARY**

This report covers MTO Event Number 4791151 dated 08 September 2010.

Located 50 kilometres east of Williams Lake, B.C. in the Cariboo Mining District, the Woodjam South Property consists of 6 claims with a total area of 2,577.2 hectares. The property is owned 60:40 by Fjordland Exploration Inc (Fjordland) and Cariboo Rose Resources Ltd (Cariboo Rose) respectively and has been optioned to Gold Fields Horsefly Exploration Corp (Gold Fields). Fjordland/Cariboo Rose are the operators during the option period with Gold Fields providing technical oversight. Elsewhere on the Woodjam South claims, is the porphyry Cu-Au-Mo Southeast Zone. The focus of the 2010 activities included geological mapping, steam sediment sampling and soil sampling. Property location is shown on Figure 1.

The property is located within the Quesnel Trough, a large regional depositional belt extending 2000 kilometres from the U.S. border in the south to the Stikine River in the north. The belt hosts several large tonnage copper-gold “porphyry type” deposits including Afton, Imperial Metals’ Mount Polley Mine, Taseko’s Gibraltar Mine, Thompson Creek Metals’ Mt. Milligan deposit and Northgate’s Kemess Mine.

In 2009 the Woodjam property was split into Woodjam North and Woodjam South to facilitate optioning the Woodjam North portion to Gold Fields. In 2010, Gold Fields exercised its right of first refusal and optioned Woodjam South property.

Outside of the Southeast Zone, little historical work has been reported on the Woodjam South claims.

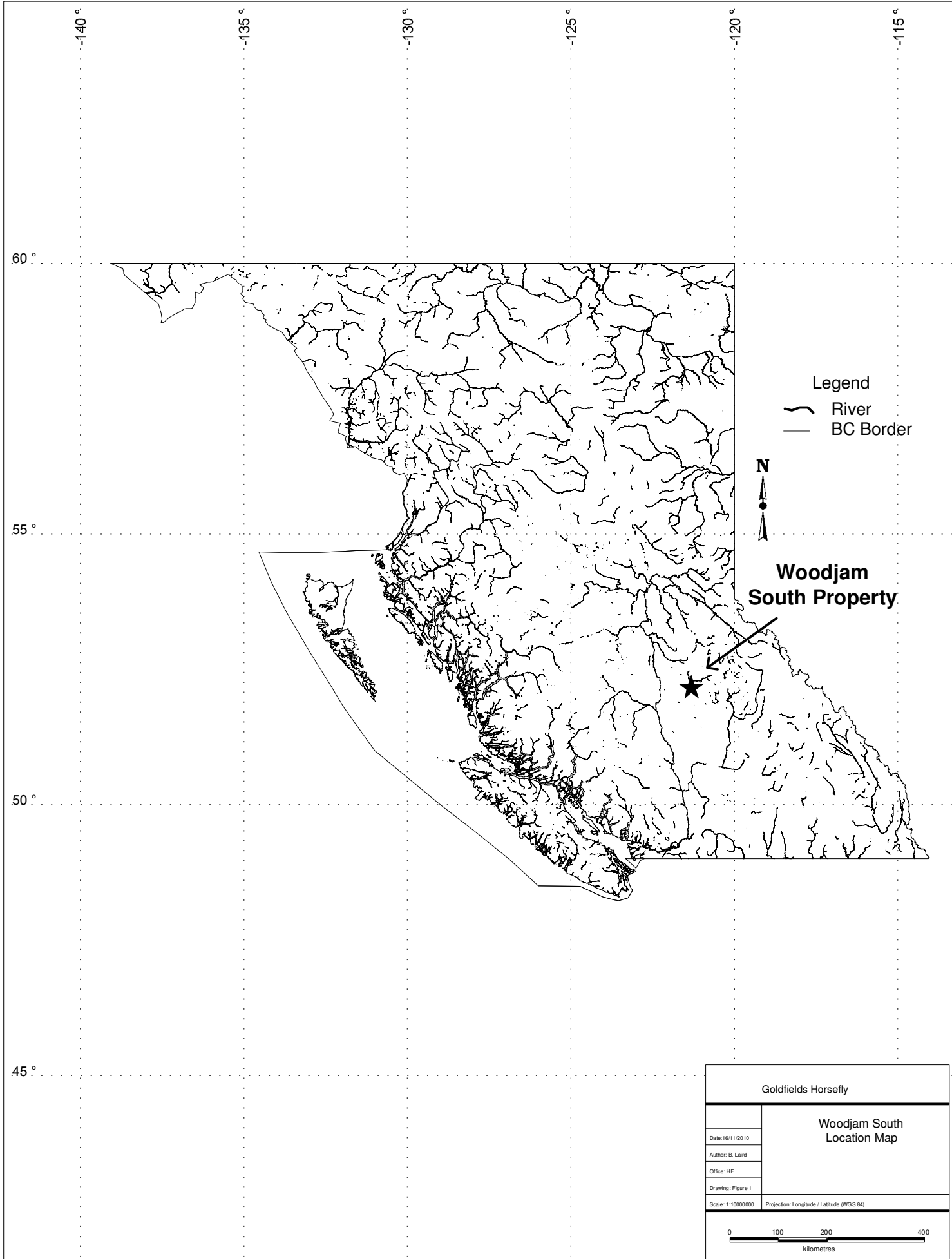
The Southeast Zone was discovered in 2007 while drilling to follow up an IP chargeability anomaly. Highlights of drilling to date on the Southeast Zone include hole WJ08-84 where 200.76m averaged 1.01% Cu and 0.44g/t Au.

This report details work on a non contiguous six claim block of the Woodjam South project.

Due to the lack of out crop a reconnaissance IP chargeability resistivity survey is recommended at 400 metre line spacing with follow up 200 metre lines and detailed ground magnetic survey covering any newly discovered anomalies. The cost of the next phase of exploration is estimated to be \$300,000.

## **2.0 PROPERTY LOCATION, ACCESS AND PHYSIOGRAPHY**

The Woodjam Property is located in the Cariboo Mining Division of central British Columbia, NTS map sheet 93A/3 and 93A/6 at geographic coordinates; latitude 52.1764° N, longitude 121.3178° W as shown on Figure 1. The Property is located south of the village of Horsefly, approximately 50 kilometres east of the City of Williams Lake.



Legend  
 ~~~~~ River  
 ——— BC Border



**Woodjam  
 South Property**

|                     |                                           |
|---------------------|-------------------------------------------|
| Goldfields Horsefly |                                           |
|                     | Woodjam South<br>Location Map             |
| Date: 16/11/2010    |                                           |
| Author: B. Laird    |                                           |
| Office: HF          |                                           |
| Drawing: Figure 1   |                                           |
| Scale: 1:1000000    | Projection: Longitude / Latitude (WGS 84) |
|                     |                                           |

The property is accessed via well serviced forestry roads from Horsefly BC by travelling south on the 108 Road, east onto the 2300 (Moffat Lakes) Road to the 2500 Road and north to the 4600 road. The 4600, 4600A and their spurs provide good access throughout the claims.

Claim information, as taken from Mineral Titles Online (28 October 2010), is listed in Table 1 and Property outlines are shown in Figure 2.

| Tenure Number | Type    | Claim Name | Good Until | Area (ha) |
|---------------|---------|------------|------------|-----------|
| 606966        | Mineral | T3         | 20110910   | 495.7045  |
| 616304        | Mineral | T17        | 20110910   | 495.7505  |
| 616305        | Mineral | T18        | 20110910   | 495.523   |
| 616308        | Mineral | T18        | 20110910   | 495.4431  |
| 616309        | Mineral | T19        | 20110910   | 495.655   |
| 616313        | Mineral | T21        | 20110910   | 99.1153   |

**Table 1 List of Claims**

Mineral Titles Online records the above claims are owned by Fjordland Exploration Inc as the recorded 100% owner. This is to expedite maintenance on the claims, as Fjordland is the Operator. Fjordland is a public company incorporated in Canada, with offices at #1100-1111 Melville Street, Vancouver, BC, Canada, V6E 3V6.

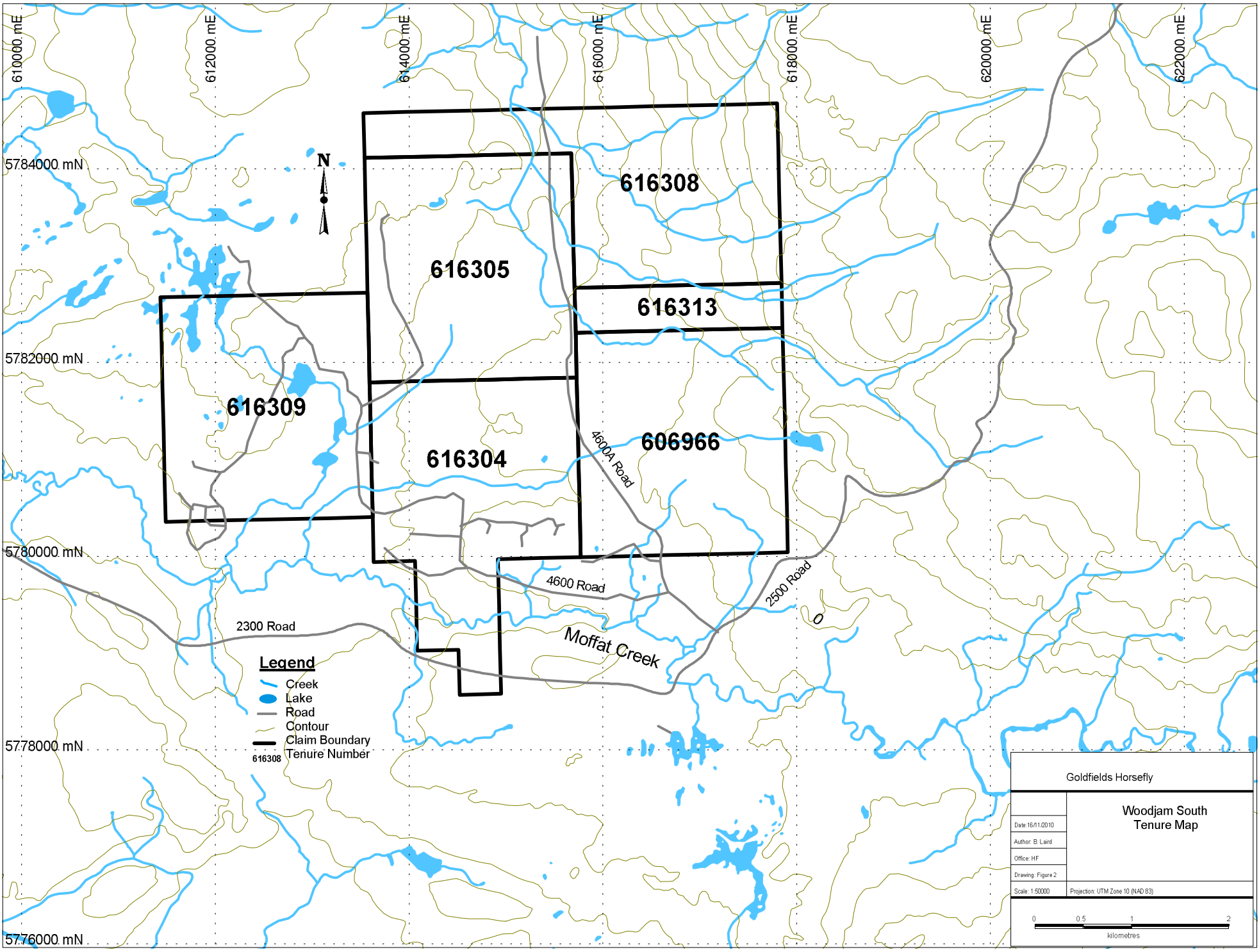
On 1 August 2001 Wildrose and Fjordland signed an agreement whereby Wildrose granted an option for Fjordland to earn a 60% interest in the Woodjam Property. After the 2005 phase of drilling, Fjordland vested it's 60% interest in the Property. During a corporate restructuring of Wildrose in 2006, Wildrose's interest was transferred to Cariboo Rose Resources. A Woodjam Joint Venture (WJV) was formed to further explore and develop the property. The participants in the WJV are Fjordland (60%) and Cariboo Rose (40%).

In July 2010, Gold Fields Horsefly Exploration Corp of 400, 1155 Robson Street Vancouver, entered into an option agreement to acquire the Woodjam South property. Fjordland remains the operator.

There are no known environmental issues or liabilities specific to the Woodjam claims known to the author other than those that relate to British Columbia in its generality. A reclamation bond for the 2010 work program was posted and work is ongoing.

The property area is flat to moderately rolling with extensive overburden. It was largely vegetated by first and second growth fir/pine forests that have been extensively clear-cut and selectively logged. The entire property lies below tree line. Elevations vary from low marshy areas at approximately 1050 metres above sea level (asl) to rolling hills at 1300 metres asl. Numerous small lakes, many beaver dammed, dot the property and streams tend to be of low gradient and do not cut to bedrock. Lower areas are usually covered by extensive glacial till and alluvium.

Climatic conditions are typical of the central interior of British Columbia. Average minimum low temperatures for January are -18°C and average maximum highs for July are +24 °C. Frost free days last on average from mid-May to mid-August. Between May and September precipitation at a low-elevation station is about 400 millimetres, almost



- Legend**
- Creek
  - Lake
  - Road
  - Contour
  - Claim Boundary
  - Tenure Number

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Goldfields Horsefly                 |                                  |
| <b>Woodjam South<br/>Tenure Map</b> |                                  |
| Date: 16/11/2010                    |                                  |
| Author: B. Laird                    |                                  |
| Office: HF                          |                                  |
| Drawing: Figure 2                   |                                  |
| Scale: 1:50000                      | Projection: UTM Zone 10 (NAD 83) |
|                                     |                                  |

twice that of Williams Lake 50 kilometres to the west. During April snow depths in the Quesnel Plateau (approx. 700 metres asl) are typically one to two metres.

The village of Horsefly is a supply centre for the local logging population and has readily available skilled labour as well as board, lodging, fuel and other supply outlets. Field operations are conducted with crews lodged in Horsefly. Year round work conditions for diamond drilling and geophysical surveys are hampered only by snow accumulation.

### 3.0 HISTORY

A Chronology of exploration activities on the Woodjam South Property is as follows:

| Year | Owner                     | Survey Type                    | Quantity                                 | Area Covered      |
|------|---------------------------|--------------------------------|------------------------------------------|-------------------|
| 2007 | Fjordland Exploration Inc | Geophysics<br>Diamond Drilling | IP/Res Ground<br>Mag<br>4 Holes (1157m)  | Southeast<br>Zone |
| 2008 | Fjordland Exploration Inc | Geophysics<br>Diamond Drilling | IP/Res Ground<br>Mag<br>14 Holes (6096m) | Southeast<br>Zone |

**Table 2 Historic Exploration Chronology – Woodjam South**

In 2007, as part of the Woodjam Property, prior to it being split into Woodjam North and Woodjam South, Fjordland/Cariboo Rose, expanded their IP Chargeability Resistivity Ground Magnetism grid to the south and outlined a large IP chargeability anomaly. Later in 2007, this was drill tested and the Southeast Zone was discovered. Hole WJ07-79, the last hole of the program, returned 203.6m of 0.34%Cu.

In 2008, a follow up IP chargeability/resistivity ground magnetism survey was conducted to infill and extend the Southeast Zone anomaly. An additional 14 hole diamond drill program expanded on the previous years discovery with hole WJ08-84 averaging 1.01% Cu and 0.44g/t Au over 200.76 meters.

In 2009 the Woodjam project was split into Woodjam North and Woodjam South to facilitate optioning the northern portion of the project to Gold Fields. During the 2009 program, Gold Fields conducted an airborne magnetic survey which overlapped onto portions of the Woodjam South claims.

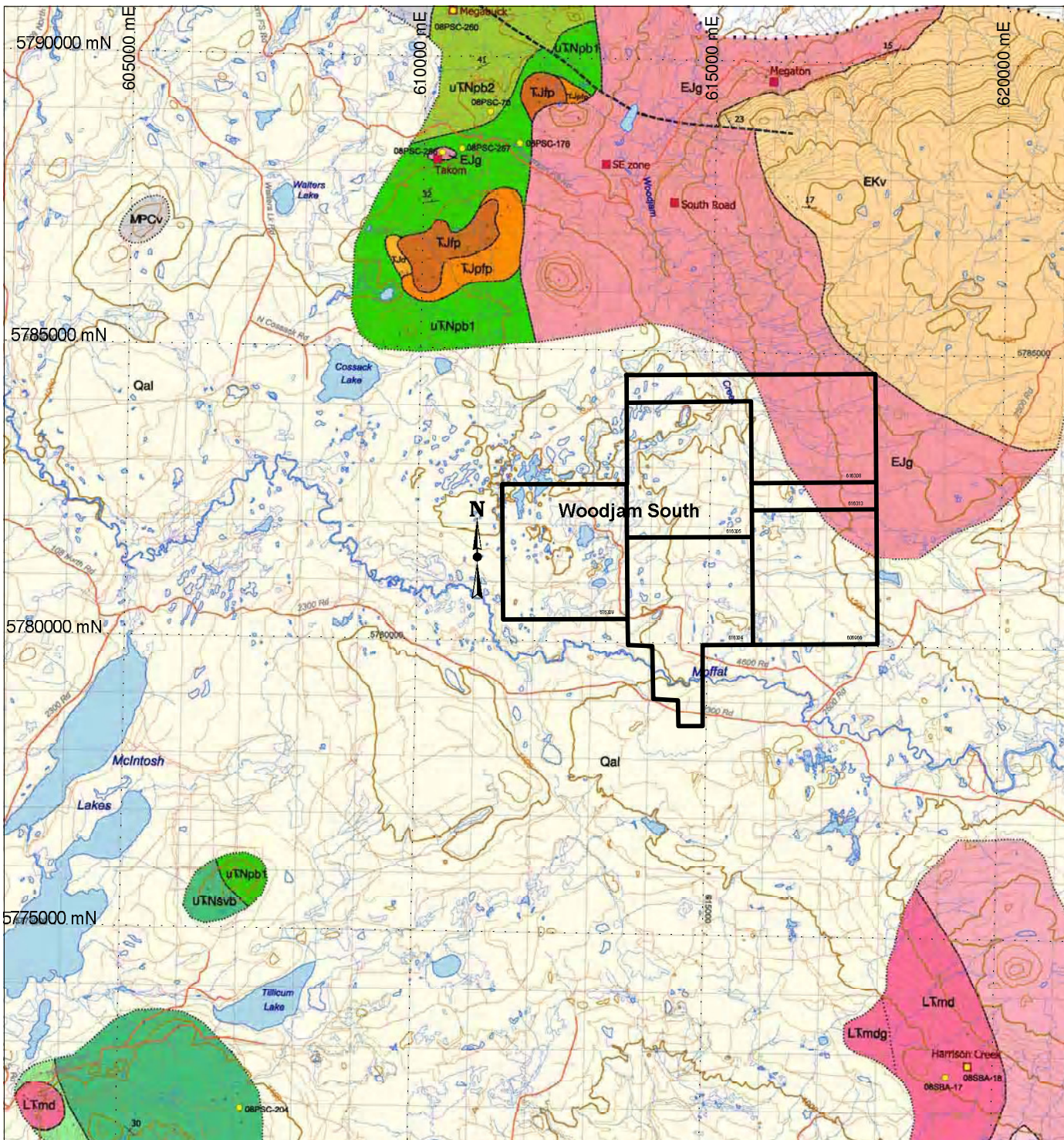
In July 2010, Gold Fields exercised its right of first refusal and optioned the Woodjam South project. No previous work has been reported in the area of this report.

### 4.0 GEOLOGICAL SETTING

The Quesnel Trough, a large regional depositional feature extending 2000 kilometres from the U.S. border in the south to the Stikine River in the north, forms a portion of the dominantly alkalic and sub-alkalic volcanic and sedimentary assemblage. The belt hosts several large tonnage copper-gold “porphyry type” deposits including Afton, Imperial Metals’ Mount Polley Mine, Taseko’s Gibraltar Mine, Thompson Creek Metals’ Mt. Milligan deposit and Northgate’s Kemess Mine.

The Quesnel Trough alkali-porphyry deposits occur in basalts and andesitic flows, fragmental rocks and alkalic intrusive complexes. They are generally gold-copper





## Geology of the Murphy Lake Area

NTS 93A/03

Geology by: Paul Schiarizza, Kimberley Bell, and Sandra Bayliss  
Digital Cartography: K. Bell and P. Schiarizza

|                                       |                                                                                                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>QUATERNARY</b>                     |                                                                                                                                                                                             |
| <b>Qal</b>                            | Unconsolidated glacial, fluvial and alluvial deposits                                                                                                                                       |
| <b>QUATERNARY(?)</b>                  |                                                                                                                                                                                             |
| <b>Qv</b>                             | Basalt, common mantle and crustal xenoliths                                                                                                                                                 |
| <b>MIOCENE - PLEISTOCENE</b>          |                                                                                                                                                                                             |
| <b>Chicoistn Group</b>                |                                                                                                                                                                                             |
| <b>MPCv</b>                           | Olivine basalt                                                                                                                                                                              |
| <b>Eocene</b>                         |                                                                                                                                                                                             |
| <b>Kamloops Group</b>                 |                                                                                                                                                                                             |
| <b>EKv</b>                            | Andesite, basalt and volcanic breccia, lesser amounts of conglomerate and sandstone                                                                                                         |
| <b>LATE TRIASSIC - JURASSIC ?</b>     |                                                                                                                                                                                             |
| <b>Tjfp</b>                           | Coarse, crowded plagioclase porphyry                                                                                                                                                        |
| <b>Tjtp</b>                           | Pyroxene-plagioclase porphyry                                                                                                                                                               |
| <b>Ljd</b>                            | Hornblende-phyric diorite                                                                                                                                                                   |
| <b>EARLY JURASSIC</b>                 |                                                                                                                                                                                             |
| <b>Ejpd</b>                           | Diorite, gabbro, hornblende clinopyroxenite, quartz diorite and intrusion breccia                                                                                                           |
| <b>Ejtp</b>                           | Takomkane batholith: quartz-feldspar porphyry                                                                                                                                               |
| <b>Ejgd</b>                           | Takomkane batholith, Schochoose Lake unit: K-feldspar megacrystic hornblende-biotite granodiorite; locally includes monzogranite and tonalite                                               |
| <b>Ejg</b>                            | Takomkane batholith, Woodjam Creek unit: hornblende biotite granodiorite, monzogranite; quartz monzonite and quartz monzodiorite                                                            |
| <b>LATE TRIASSIC - EARLY JURASSIC</b> |                                                                                                                                                                                             |
| <b>Tjmd</b>                           | Takomkane batholith, Boss Creek unit: hornblende biotite quartz monzodiorite and granodiorite; lesser amounts of quartz diorite and diorite                                                 |
| <b>LATE TRIASSIC</b>                  |                                                                                                                                                                                             |
| <b>LTmd</b>                           | Spout Lake Pluton and related rocks: pyroxene-biotite monzodiorite and monzonite; locally includes monzogabbro, diorite, syenite and clinopyroxenite; LTmdg: mainly monzogabbro and diorite |
| <b>Nicola Group</b>                   |                                                                                                                                                                                             |
| <b>uTNpb2</b>                         | Feldspathic sandstone, conglomeratic sandstone, polyolithic conglomerate and breccia                                                                                                        |
| <b>uTNpb1</b>                         | Polyolithic breccia; minor amounts of feldspathic sandstone, siltstone and conglomeratic sandstone                                                                                          |
| <b>uTNrb</b>                          | Pyroxene-feldspar phryic basalt, pillowed basalt and breccia with mainly pyroxene-phyric basalt fragments; locally includes pyroxene-feldspar sandstone, gritty sandstone and siltstone     |
| <b>uTNrb</b>                          | Volcanic breccia with feldspar and feldspar-pyroxene-phyric fragments; minor amounts of volcanic sandstone                                                                                  |

|                                                          |           |
|----------------------------------------------------------|-----------|
| <b>SYMBOLS</b>                                           |           |
| Geological contact (defined, approximate, inferred)      | —         |
| Fault (inferred)                                         | ---       |
| Ranking (pipe unknown, inclined)                         | — —       |
| Schistosity (inclined)                                   | — —       |
| Mineral occurrence (Table 2)                             | ROCO      |
| Assay sample (Table 1)                                   | OBPGC-256 |
| Field station                                            | —         |
| Limit of Quaternary cover                                | —         |
| Lines of Geological Mapping                              | —         |
| Topographic contour (20 metre intervals, 100m intervals) | —         |
| Road (major gravel trunk road, all others)               | —         |

**Gold Fields Horsefly**

|                   |                                              |
|-------------------|----------------------------------------------|
| Date: 26/11/2010  | <b>Woodjam South<br/>Regional Geology</b>    |
| Author: B Lard    |                                              |
| Office: H         |                                              |
| Drawing: figure 3 | From BCGC Open File 2009-03 Schiarizza et al |
| Scale: 1:100000   | Projection: UTM Zone 10 (NAD 83)             |

0 1 2 4  
kilometres

deposits consisting of chalcopyrite-pyrite and minor bornite sulphide mineralization. The sulphide zones are developed adjacent to concentrically-zoned alkaline plutons which are themselves seldom sulphide bearing. The regional geology from BCGS Open File 2009-03 is shown on Figure 3.

The Quesnel Trough assemblage is made up of rocks of the Nicola (south), Takla (central) and Stuhini (north) Groups consisting of a series of volcanic islands characterized by generally alkalic to sub-alkalic basalts and andesites, related sub-volcanic intrusive rocks, and derived clastic and pyroclastic sedimentary rocks.

The basalts and andesites are subaqueous fissure eruptions associated with regional faults. At a late stage in the volcanic cycle large sub-aerial volcanic centres developed. These features consist largely of pyroclastic and epiclastic rocks, complex intrusive monzonite and syenite. Commonly associated with the plutons is a late fumarolic or hydrothermal stage when large volumes of volcanic rocks were extensively altered to albite, K-feldspar, biotite, chlorite, epidote and various sulphides. The late metasomatic period involves introduction of volatiles and various metals in the vent areas and is a typical and important feature of the final stages of the volcanic cycle.

The Takomkane Batholith is a large predominantly calc-alkalic intrusive with a surface expression of approximately 40 by 50 kilometres. It comprises one of a series of at least six large coeval bodies including the Guichon Batholith (hosting the Highland Valley deposits) and Granite Mountain Batholith (hosting the Gibraltar deposit). Regional magnetic trends (GSC Aeromagnetic Maps 7221 G, 5239G and Exploram ground magnetics) show a distinct northeasterly strike in the area of the Megabuck and Takom Zones as opposed to the northwesterly grain evident elsewhere in the Quesnel Trough. This apparently represents an edge effect of the Takomkane Batholith, the magnetic patterns suggesting that the Takomkane may underlie the Takla rocks at no great depth over much of the property (Peatfield, 1986).

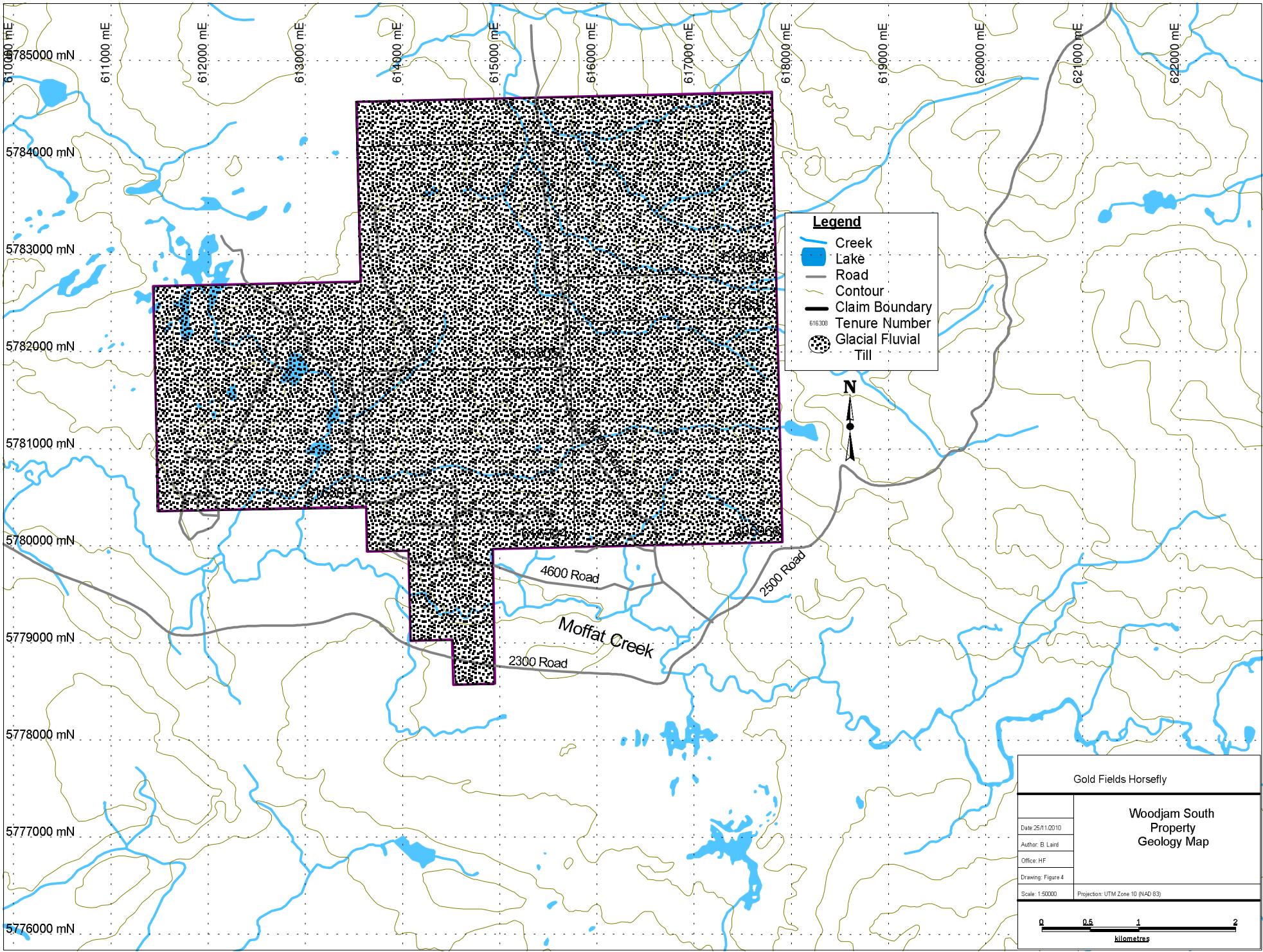
The properties covered by this report are all interpreted to be underlain by Quaternary-aged unconsolidated glacial, fluvial and alluvial deposits and Takomkane Batholith intrusives of the Woodjam Creek unit, composed of hornblende-biotite granodiorite, monzogranite, quartz monzonite and quartz monzodiorite (Schiarizza P. et al, BCGS 2008).

## **5.0 2010 EXPLORATION PROGRAM**

### **5.1 Geological Mapping**

Geological mapping undertaken as part of this report, traverses were conducted throughout the claims with attention paid to incised gullies where the chance of observing outcrop would be greater. Traverses were conducted with map, compass and gps control.

Mapping outlined extensive till cover over this entire portion of the Woodjam South property. No outcrops were located and stream channels do not cut to bedrock. Results of this mapping are shown on Figure 4.



**Legend**

- Creek
- Lake
- Road
- Contour
- Claim Boundary
- Tenure Number
- Glacial Fluvial Till



|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| Gold Fields Horsefly                              |                                  |
| <b>Woodjam South<br/>Property<br/>Geology Map</b> |                                  |
| Date: 25/11/2010                                  |                                  |
| Author: B. Laird                                  |                                  |
| Office: HF                                        |                                  |
| Drawing: Figure 4                                 |                                  |
| Scale: 1:50000                                    | Projection: UTM Zone 10 (NAD 83) |
|                                                   |                                  |

## 5.2 Stream Sediment Sampling

Six stream sediment samples were collected upstream from road crossings throughout the claims. Samples were collected in kraft bags, air dried at the project before shipping via Van Kam freight to ALS Laboratory Group in North Vancouver BC. Samples were analyzed by ME-MS41 with gold determination by Au-ICP21. Sample locations, details of sample preparation and analyses are provided in Appendix I.

There were no significant results identified. Sample locations were recorded, in the field, with a gps and are shown on Figure 5. Analytical certificates are located in Appendix II, locations of samples are noted in Table 3.

| Sample # | Northing | Easting | Elev (metres) |
|----------|----------|---------|---------------|
| 206501   | 5782526  | 615693  | 1130          |
| 206502   | 5783787  | 615472  | 1089          |
| 206503   | 5784191  | 615693  | 1096          |
| 206504   | 5784236  | 615791  | 1103          |
| 206505   | 5783271  | 617572  | 1215          |
| 206506   | 5779256  | 614674  | 1098          |

UTM NAD83 Zn10

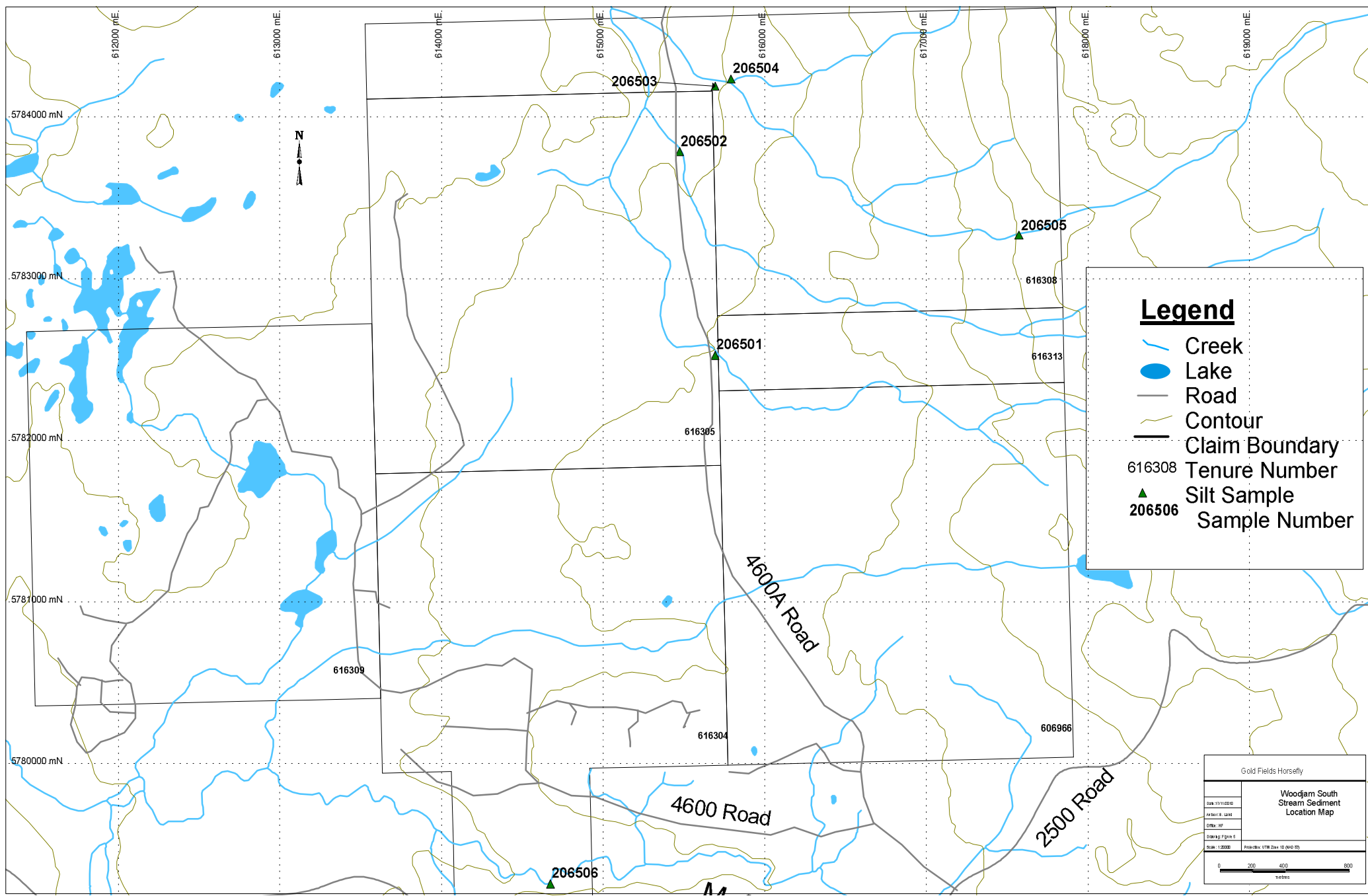
**Table 3 Stream Sediment sample Locations – Woodjam South**

## 5.3 Soil Sampling

Along a 2 kilometre line, soil samples were collected at 100m intervals in road cuts of the 4600A Road. This area was targeted as it is near the interpreted contact of Nicola rocks with the Takomkane batholith as well as it is along the trend of airborne magnetic anomalies found further north.

Samples of soils just below the organic layer were collected in kraft bags and dried at the project site before analysis with a Innov-x Omega portable XRF analyzer operated by Jeff Hamilton, a NDT certified analyzer, of Gold Fields. Analytical technique is outlined in Appendix I.

Sample locations were recorded, in the field, with a gps and are listed with sample descriptions in Table 4. Locations are plotted on Figure 6, and results are tabulated in Appendix III.



### Legend

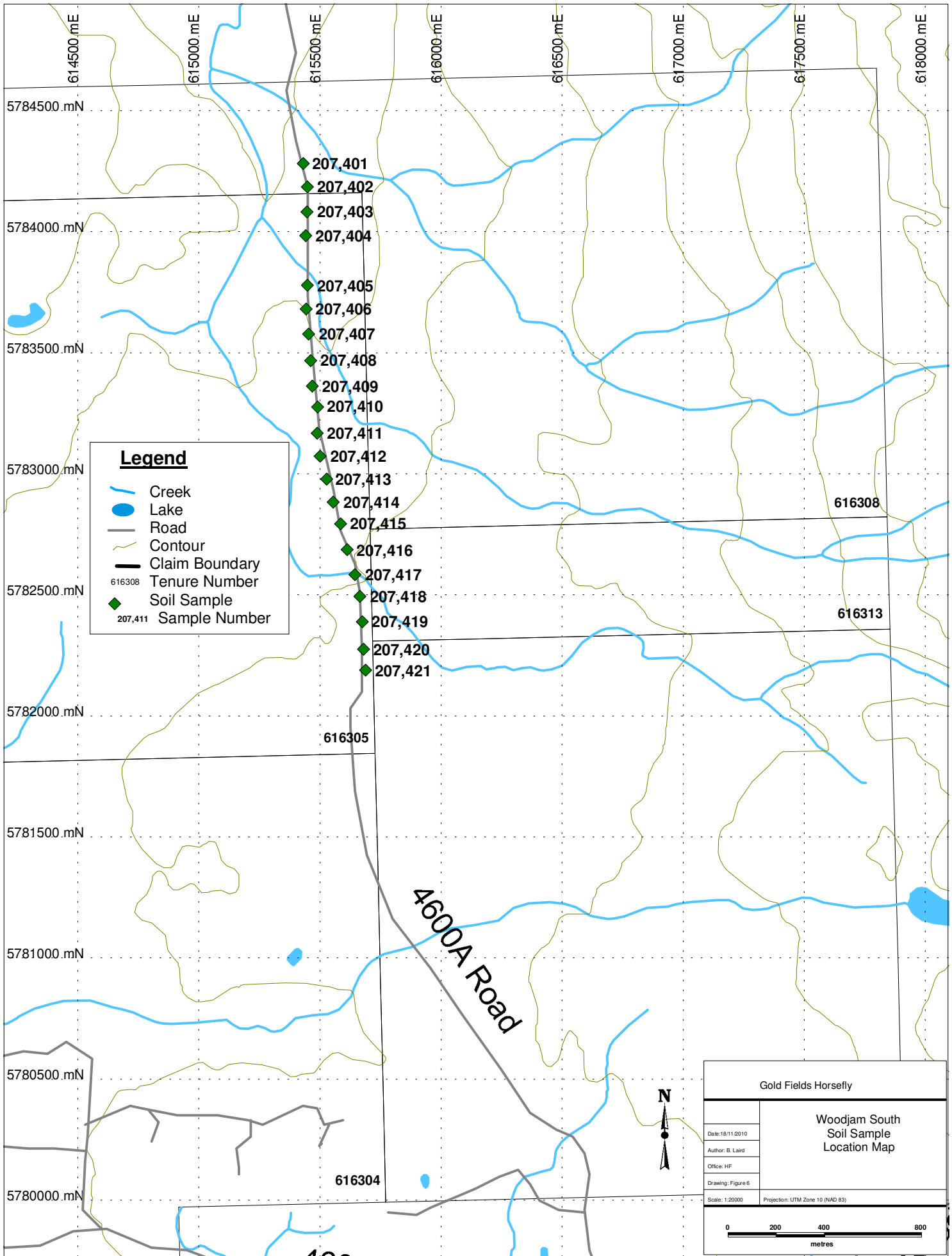
- Creek
- Lake
- Road
- Contour
- Claim Boundary
- 616308 Tenure Number
- ▲ 206506 Silt Sample
- Sample Number

|                                                                                        |                                                           |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Gold Fields Horsefly                                                                   |                                                           |
| Date: 11/15/2016<br>Author: G.M.<br>Title: WPM<br>Date Map: 12/2016<br>Scale: 1:20,000 | <b>Woodjam South<br/>Stream Sediment<br/>Location Map</b> |
|                                                                                        |                                                           |

| Sample # | Easting | Northing | Elev metres | Horizon | Colour     | Depth | Texture   | Composition | Litho-float |
|----------|---------|----------|-------------|---------|------------|-------|-----------|-------------|-------------|
| 207401   | 615431  | 5784281  | 1101        | c       | red-brown  | 30    | silt-sand | till        |             |
| 207402   | 615448  | 5784186  | 1100        | c       | grey-brown | 30    | silt-sand | till        |             |
| 207403   | 615447  | 5784082  | 1099        | c       | red-brown  | 15    | silt-sand | till        | basalt      |
| 207404   | 615441  | 5783984  | 1102        | c       | red-brown  | 15    | silt-sand | till        | basalt      |
| 207405   | 615449  | 5783779  | 1102        | c       | red-brown  | 15    | silt-sand | till        | basalt      |
| 207406   | 615444  | 5783680  | 1102        | c       | red-brown  | 15    | silt-sand | till        | basalt      |
| 207407   | 615454  | 5783577  | 1105        | c       | red-brown  | 30    | silt-sand | till        |             |
| 207408   | 615462  | 5783467  | 1112        | c       | red-brown  | 20    | silt-sand | till        |             |
| 207409   | 615469  | 5783363  | 1117        | c       | red-brown  | 20    | silt-sand | till        |             |
| 207410   | 615490  | 5783276  | 1125        | c       | grey-brown | 20    | silt-sand | till        |             |
| 207411   | 615489  | 5783167  | 1126        | c       | red-brown  | 15    | silt-sand | till        |             |
| 207412   | 615501  | 5783073  | 1128        | c       | grey       | 20    | silt-sand | till        |             |
| 207413   | 615527  | 5782978  | 1130        | c       | red-brown  | 30    | silt-sand | till        |             |
| 207414   | 615555  | 5782883  | 1130        | c       | red-brown  | 15    | silt-sand | till        |             |
| 207415   | 615584  | 5782690  | 1146        | c       | grey-brown | 20    | silt-sand | till        |             |
| 207416   | 615612  | 5782687  | 1146        | c       | grey-brown | 15    | silt-sand | till        |             |
| 207417   | 615645  | 5782584  | 1147        | c       | grey-brown | 15    | silt-sand | till        |             |
| 207418   | 615665  | 5782493  | 1147        | c       | grey       | 20    | silt-sand | till        |             |
| 207419   | 615675  | 5782389  | 1151        | c       | grey-brown | 30    | silt-sand | till        | basalt      |
| 207420   | 615681  | 5782276  | 1154        | c       | grey-brown | 20    | silt-sand | till        |             |
| 207421   | 615689  | 5782189  | 1156        | c       | grey       | 20    | silt-sand | till        |             |

UTM NAD83 Zn10

**Table 4 Soil Sample Locations and Descriptions – Woodjam South**



|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Gold Fields Horsefly                         |                                  |
| Woodjam South<br>Soil Sample<br>Location Map |                                  |
| Date: 18/11/2010                             |                                  |
| Author: B. Laird                             |                                  |
| Office: HF                                   |                                  |
| Drawing: Figure 6                            |                                  |
| Scale: 1:20000                               | Projection: UTM Zone 10 (NAD 83) |
|                                              |                                  |

## **6.0 INTERPRETATION AND CONCLUSIONS**

Geological mapping of the claims are outlined transported glacial fluvial tills with no bedrock discovered. The gentle topography and lack of outcrop in incised drainages suggest no further mapping is warranted.

The depth of transported tills seen in drainages likely precludes a bedrock source for stream sediment and soil geochemistry and makes any interpretation of geochemical results difficult.

Reconnaissance IP chargeability and resistivity has successfully located mineralization on the nearby Woodjam North claims and the Southeast Zone on another portion of the Woodjam South claims. It is therefore recommended for additional work here.

## **7.0 RECOMMENDATIONS**

The following exploration programs are recommended for the Woodjam Project.

- Combined reconnaissance Induced Polarization Chargeability / Resistivity surveys at 400 metre line spacing.
- Infill IP Chargeability / Resistivity survey at 200m line spacing covering any anomalous areas located in the initial survey.
- Continuous detailed ground magnetic survey on 50 metre line spacings to cover any IP anomalies identified in the initial survey.

It is estimated that the next phase of exploration will cost approximately \$300,000.



## 8.0 STATEMENT OF EXPENDITURES

| Item                                      | Unit | Rate      | Cost       | Totals      | Dates                   |
|-------------------------------------------|------|-----------|------------|-------------|-------------------------|
| <b>Man Days</b>                           |      |           |            |             |                         |
| Bruce Laird                               | 1.5  | \$ 680.00 | \$1,020.00 |             | June 9, August 29, 2010 |
| Twila Skinner                             | 1    | \$ 600.00 | \$ 600.00  |             | July 26, 2010           |
| Matt Ekfeld                               | 1    | \$ 600.00 | \$ 600.00  |             | July 26, 2010           |
| Jacqueline Blackwell                      | 3    | \$ 600.00 | \$1,800.00 |             | August 12-14, 2010      |
| Michael Sep                               | 3    | \$ 400.00 | \$1,200.00 |             | August 12-14, 2011      |
| Total Man Days                            |      |           | \$5,220.00 | \$ 5,220.00 |                         |
| <b>Accommodation</b>                      | 9.5  | \$ 150.00 | \$1,425.00 | \$ 1,425.00 |                         |
| <b>Truck with fuel</b>                    | 5.5  | \$ 150.00 | \$ 825.00  | \$ 825.00   |                         |
| <b>Radios</b>                             | 5.5  | \$ 25.00  | \$ 137.50  | \$ 137.50   |                         |
| <b>Sampling</b>                           |      |           |            |             |                         |
| Stream Sediment Analysis                  | 6    | \$ 30.00  | \$ 180.00  | \$ 180.00   |                         |
| Stream Sediment Shipping                  | 2    | \$ 20.00  | \$ 20.00   | \$ 20.00    |                         |
| Soil Sample Analysis<br>(Gold Fields XRF) | 21   | \$ 20.00  | \$ 420.00  | \$ 420.00   |                         |
| <b>Field Supplies</b>                     |      |           |            | \$ 100.00   |                         |
| <b>Drafting, Compilation</b>              | 1    | \$ 600.00 | \$ 600.00  | \$ 600.00   |                         |
| <b>Report Writing</b>                     | 3    | \$ 680.00 | \$2,040.00 | \$ 2,040.00 |                         |
| <b>Total</b>                              |      |           |            | \$10,967.50 |                         |

Table 5 Statement of Expenditures

## 9.0 REFERENCES

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## **10.0 Author's Statement of Qualifications – Bruce L. Laird PGeo.**

I, **Bruce L. Laird, P.Geo** do hereby certify that:

- a. I am a consulting geologist with addresses at 7545 10<sup>th</sup> Street, Grand Forks, BC, Canada, V0H 1H0.
- b. I graduated with a Bachelor of Science degree (Geology) from the University of British Columbia in 1984.
- c. I am a Professional Geoscientist (P.Geo.) in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (#21581).
- d. I have worked as a geologist for a total of 25 years since my graduation from university.
- e. I am responsible for supervising work on the Woodjam South property between June and August 2010.

**"Bruce Laird P. Geo"**

# **Appendix I**

## **Sample Preparation and Analysis**



**Sample Preparation Package – PREP-41**  
**Standard Preparation: Dry sample and dry-sieve to –180  
micron**

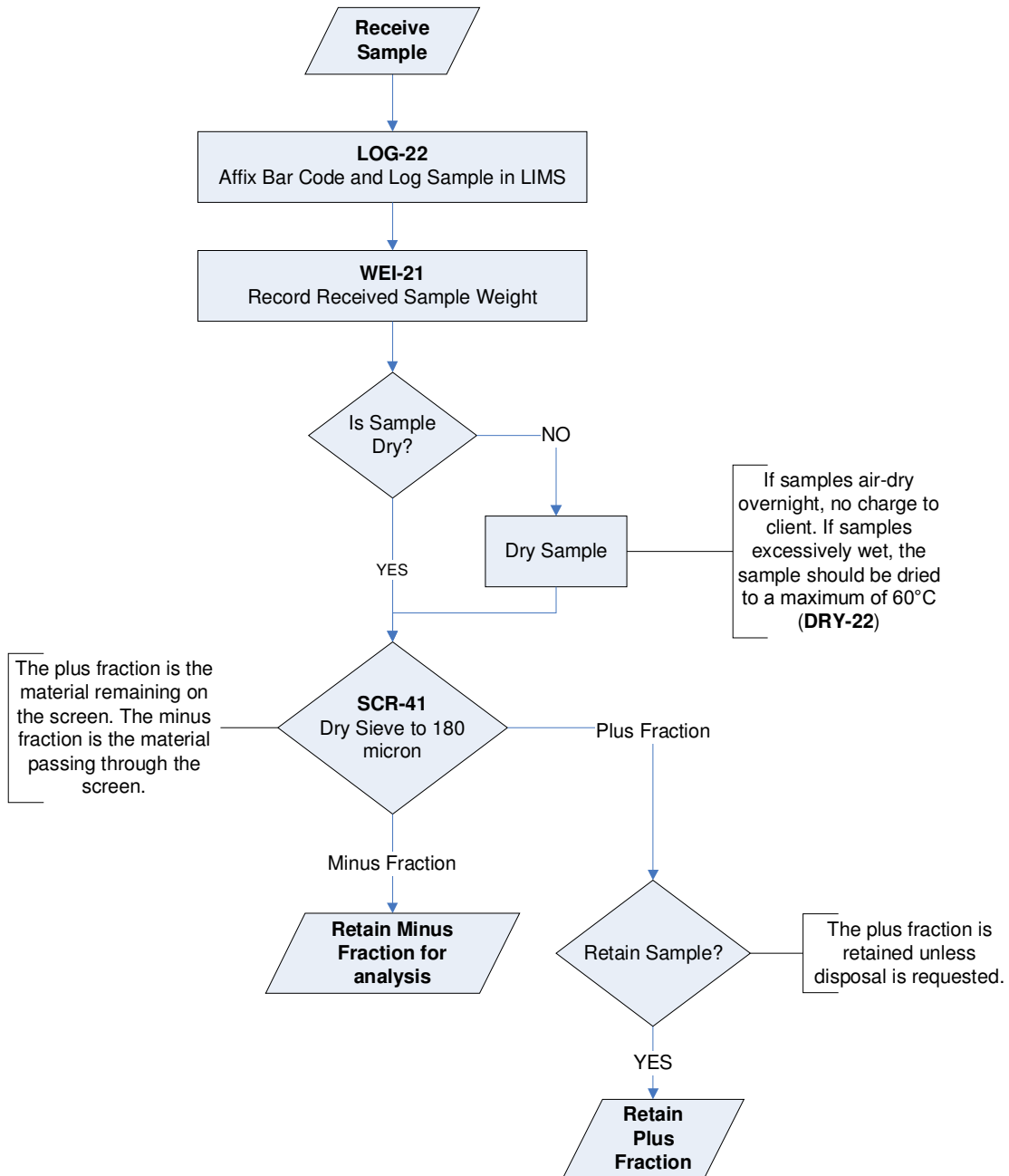
Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

An entire sample is dried and then dry-sieved using a 180 micron (Tyler 80 mesh) screen. The plus fraction is retained unless disposal is requested. This method is appropriate for soil or sediment samples up to 1 kg in weight.

| <b>Method Code</b> | <b>Description</b>                                                                                                                                                                                      |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOG-22             | Sample is logged in tracking system and a bar code label is attached.                                                                                                                                   |
| DRY-22             | Low temperature drying of excessively wet samples where the oven temperature is not to exceed 60°C. This method is suitable for more soil and sediment samples that are analyzed for volatile elements. |
| SCR-41             | Sample is dry-sieved to – 180 micron and both the plus and minus fractions are retained.                                                                                                                |



**Sample Preparation Flowchart Package –PREP-41**





**Geochemical Procedure – ME-MS41**  
**Ultra-Trace Level Methods Using ICP-MS and ICP-AES**

**Sample Decomposition:** Aqua Regia Digestion (GEO-AR01)  
**Analytical Method:** Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)  
 Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples are then analysed by ICP-MS for the remaining suite of elements. The analytical results are corrected for inter-element spectral interferences.

| <b>Element</b> | <b>Symbol</b> | <b>Units</b> | <b>Lower Limit</b> | <b>Upper Limit</b> |
|----------------|---------------|--------------|--------------------|--------------------|
| Silver         | Ag            | ppm          | 0.01               | 100                |
| Aluminum       | Al            | %            | 0.01               | 25                 |
| Arsenic        | As            | ppm          | 0.1                | 10 000             |
| Gold           | Au            | ppm          | 0.2                | 25                 |
| Boron          | B             | ppm          | 10                 | 10 000             |
| Barium         | Ba            | ppm          | 10                 | 10 000             |
| Beryllium      | Be            | ppm          | 0.05               | 1 000              |
| Bismuth        | Bi            | ppm          | 0.01               | 10 000             |
| Calcium        | Ca            | %            | 0.01               | 25                 |
| Cadmium        | Cd            | ppm          | 0.01               | 1 000              |
| Cerium         | Ce            | ppm          | 0.02               | 500                |
| Cobalt         | Co            | ppm          | 0.1                | 10 000             |





| <b>Element</b> | <b>Symbol</b> | <b>Units</b> | <b>Lower Limit</b> | <b>Upper Limit</b> |
|----------------|---------------|--------------|--------------------|--------------------|
| Chromium       | Cr            | ppm          | 1                  | 10 000             |
| Cesium         | Cs            | ppm          | 0.05               | 500                |
| Copper         | Cu            | ppm          | 0.2                | 10 000             |
| Iron           | Fe            | %            | 0.01               | 50                 |
| Gallium        | Ga            | ppm          | 0.05               | 10 000             |
| Germanium      | Ge            | ppm          | 0.05               | 500                |
| Hafnium        | Hf            | ppm          | 0.02               | 500                |
| Mercury        | Hg            | ppm          | 0.01               | 10 000             |
| Indium         | In            | ppm          | 0.005              | 500                |
| Potassium      | K             | %            | 0.01               | 10                 |
| Lanthanum      | La            | ppm          | 0.2                | 10 000             |
| Lithium        | Li            | ppm          | 0.1                | 10 000             |
| Magnesium      | Mg            | %            | 0.01               | 25                 |
| Manganese      | Mn            | ppm          | 5                  | 50 000             |
| Molybdenum     | Mo            | ppm          | 0.05               | 10 000             |
| Sodium         | Na            | %            | 0.01               | 10                 |
| Niobium        | Nb            | ppm          | 0.05               | 500                |
| Nickel         | Ni            | ppm          | 0.2                | 10 000             |
| Phosphorus     | P             | ppm          | 10                 | 10 000             |
| Lead           | Pb            | ppm          | 0.2                | 10 000             |
| Rubidium       | Rb            | ppm          | 0.1                | 10 000             |
| Rhenium        | Re            | ppm          | 0.001              | 50                 |
| Sulphur        | S             | %            | 0.01               | 10                 |
| Antimony       | Sb            | ppm          | 0.05               | 10 000             |
| Scandium       | Sc            | ppm          | 0.1                | 10 000             |
| Selenium       | Se            | ppm          | 0.2                | 1 000              |



| Element   | Symbol | Units | Lower Limit | Upper Limit |
|-----------|--------|-------|-------------|-------------|
| Tin       | Sn     | ppm   | 0.2         | 500         |
| Strontium | Sr     | ppm   | 0.2         | 10 000      |
| Tantalum  | Ta     | ppm   | 0.01        | 500         |
| Tellurium | Te     | ppm   | 0.01        | 500         |
| Thorium   | Th     | ppm   | 0.2         | 10000       |
| Titanium  | Ti     | %     | 0.005       | 10          |
| Thallium  | Tl     | ppm   | 0.02        | 10 000      |
| Uranium   | U      | ppm   | 0.05        | 10 000      |
| Vanadium  | V      | ppm   | 1           | 10 000      |
| Tungsten  | W      | ppm   | 0.05        | 10 000      |
| Yttrium   | Y      | ppm   | 0.05        | 500         |
| Zinc      | Zn     | ppm   | 2           | 10 000      |
| Zirconium | Zr     | ppm   | 0.5         | 500         |

**NOTE:** In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.



**Fire Assay Procedure - Au-ICP21 and Au-ICP22**  
**Fire Assay Fusion ICP-AES Finish**

**Sample Decomposition:** Fire Assay Fusion (FA-FUSPG1 & FA-FUSPG2)  
**Analytical Method:** Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AES)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven. 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by inductively coupled plasma atomic emission spectrometry against matrix-matched standards.

| <b>Method Code</b> | <b>Element</b> | <b>Symbol</b> | <b>Units</b> | <b>Sample Weight (g)</b> | <b>Lower Limit</b> | <b>Upper Limit</b> | <b>Default Overlimit Method</b> |
|--------------------|----------------|---------------|--------------|--------------------------|--------------------|--------------------|---------------------------------|
| Au-ICP21           | Gold           | Au            | ppm          | 30                       | 0.001              | 10                 | Au-AA25                         |
| Au-ICP22           | Gold           | Au            | ppm          | 50                       | 0.001              | 10                 | Au-AA26                         |

## **XRF Analysis of Soil Samples**

Soil samples were collected in 2010 as part of the ongoing exploration program for porphyry Cu-Au deposits at Woodjam. The area is mostly covered by till or related material and samples were collected on regular intervals from road cuts just below the surface organic horizon. .

For the test work a certified person to operate the instrument in Canada used an Innov-X FPXRF to carry out the following: Jeffrey Hamilton, a certified NDT analyzer, of Gold Fields Horsefly Exploration performed the testing.

Air dried to reduce moisture content

Brown kraft packet shaken to homogenise the material.

Material shoot the for 1 min through the packet using the soil mode. It was found that there was normally little variation after about 40 seconds

Standards SM-2 with Cu values of close to 250 ppm was used.

### *Results*

The instrument gave readings for the following elements:

Ag, As, Ba, Co, Cr, Cu, Fe, Ni, Mo, Pb, Rb, Sb, Sr, Ti, Zn, Zr

## **Appendix II**

### **Stream Sediment Results**



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

To: GOLD FIELDS HORSEFLY EXPLORATION INC.  
 1155 ROBSON STREET, SUITE 400  
 VANCOUVER BC V6E 1B5

Page: 1  
 Finalized Date: 29- AUG- 2010  
 Account: GOFICA

**CERTIFICATE VA10108257**

Project: Woodjam South  
 P.O. No.: WJS- 2010- 009ss  
 This report is for 4 Rock samples submitted to our lab in Vancouver, BC, Canada on 5- AUG- 2010.  
 The following have access to data associated with this certificate:

|                                             |                                                  |                                                |
|---------------------------------------------|--------------------------------------------------|------------------------------------------------|
| NATE BREWER<br>BRUCE LAIRD<br>TOM SCHROETER | GLEN GARRETT<br>JULIANNE MADSEN<br>ROSS SHERLOCK | JOHN HERTEL<br>AMELIA RAINBOW<br>TWILA SKINNER |
|---------------------------------------------|--------------------------------------------------|------------------------------------------------|

| SAMPLE PREPARATION |                                |
|--------------------|--------------------------------|
| ALS CODE           | DESCRIPTION                    |
| WEI- 21            | Received Sample Weight         |
| LOG- 21            | Sample logging - ClientBarCode |
| 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- ICP21             | Au 30g FA ICP- AES Finish | ICP- AES   |
| ME- MS41              | 51 anal. aqua regia ICPMS |            |

To: GOLD FIELDS HORSEFLY EXPLORATION INC.  
 ATTN: JULIANNE MADSEN  
 1155 ROBSON STREET, SUITE 400  
 VANCOUVER BC V6E 1B5

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  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.  
 1155 ROBSON STREET, SUITE 400  
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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 29- AUG- 2010  
 Account: GOFICA

Project: Woodjam South

CERTIFICATE OF ANALYSIS VA10108257

| Sample Description | Method Analyte Units LOR | WEI- 21   | Au- ICP21 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 |    |
|--------------------|--------------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|
|                    |                          | Recvd Wt. | Au        | Ag       | Al       | As       | Au       | B        | Ba       | Be       | Bi       | Ca       | Cd       | Ce       | Co       | Cr |
|                    |                          | kg        | ppm       | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      |    |
| 206501             |                          | 0.68      | 0.001     | 0.07     | 1.27     | 23.6     | <0.2     | <10      | 240      | 0.27     | 0.43     | 0.81     | 0.08     | 35.3     | 10.5     | 35 |
| 206502             |                          | 0.50      | 0.001     | 0.07     | 1.44     | 16.6     | <0.2     | <10      | 280      | 0.34     | 0.28     | 0.80     | 0.12     | 45.1     | 13.3     | 41 |
| 206503             |                          | 0.90      | 0.001     | 0.07     | 1.86     | 8.0      | <0.2     | <10      | 480      | 0.43     | 0.19     | 0.90     | 0.15     | 59.8     | 17.0     | 50 |
| 206504             |                          | 1.04      | <0.001    | 0.07     | 1.82     | 7.3      | <0.2     | <10      | 400      | 0.39     | 0.25     | 1.09     | 0.11     | 58.0     | 14.2     | 57 |

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 29- AUG- 2010  
 Account: GOFICA

Project: Woodjam South

CERTIFICATE OF ANALYSIS VA10108257

| Sample Description | Method Analyte Units LOR | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 |      |
|--------------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|                    |                          | Cs ppm   | Cu ppm   | Fe %     | Ga ppm   | Ge ppm   | Hf ppm   | Hg ppm   | In ppm   | K %      | La ppm   | Li ppm   | Mg %     | Mn ppm   | Mo ppm   | Na % |
| 206501             |                          | 0.43     | 12.3     | 2.33     | 4.25     | 0.10     | 0.25     | 0.01     | 0.013    | 0.13     | 16.0     | 7.8      | 0.50     | 720      | 0.52     | 0.11 |
| 206502             |                          | 0.55     | 19.6     | 2.82     | 4.83     | 0.11     | 0.30     | 0.01     | 0.015    | 0.14     | 19.2     | 9.7      | 0.63     | 840      | 0.89     | 0.10 |
| 206503             |                          | 0.56     | 23.7     | 3.55     | 5.65     | 0.12     | 0.23     | 0.01     | 0.020    | 0.18     | 24.7     | 8.2      | 0.84     | 1270     | 0.81     | 0.12 |
| 206504             |                          | 0.53     | 27.0     | 3.46     | 5.98     | 0.14     | 0.26     | 0.01     | 0.021    | 0.20     | 27.1     | 9.9      | 0.95     | 618      | 0.71     | 0.17 |

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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

To: GOLD FIELDS HORSEFLY EXPLORATION INC.  
 1155 ROBSON STREET, SUITE 400  
 VANCOUVER BC V6E 1B5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 29- AUG- 2010  
 Account: GOFICA

Project: Woodjam South

CERTIFICATE OF ANALYSIS VA10108257

| Sample Description | Method Analyte Units LOR | ME- MS41  | ME- MS41  | ME- MS41 | ME- MS41  | ME- MS41  | ME- MS41  | ME- MS41 | ME- MS41  | ME- MS41  | ME- MS41  | ME- MS41  | ME- MS41  | ME- MS41  | ME- MS41  |           |
|--------------------|--------------------------|-----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |                          | Nb<br>ppm | Ni<br>ppm | P<br>ppm | Pb<br>ppm | Rb<br>ppm | Re<br>ppm | S<br>%   | Sb<br>ppm | Sc<br>ppm | Se<br>ppm | Sn<br>ppm | Sr<br>ppm | Ta<br>ppm | Te<br>ppm | Th<br>ppm |
| 206501             |                          | 1.07      | 22.1      | 1160     | 3.5       | 6.7       | 0.001     | 0.02     | 0.24      | 3.9       | 0.4       | 0.4       | 97.6      | <0.01     | 0.01      | 2.2       |
| 206502             |                          | 0.88      | 36.6      | 1160     | 5.2       | 8.8       | 0.001     | 0.01     | 0.22      | 4.2       | 0.3       | 0.5       | 116.5     | <0.01     | 0.01      | 2.7       |
| 206503             |                          | 1.12      | 46.2      | 1490     | 5.4       | 10.4      | 0.001     | 0.01     | 0.16      | 5.4       | 0.4       | 0.5       | 178.5     | <0.01     | 0.01      | 3.2       |
| 206504             |                          | 0.66      | 51.1      | 1660     | 4.9       | 10.2      | 0.001     | 0.01     | 0.20      | 6.1       | 0.4       | 0.6       | 168.5     | <0.01     | 0.01      | 3.5       |

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: GOLD FIELDS HORSEFLY EXPLORATION INC.  
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 Account: GOFICA

Project: Woodjam South

CERTIFICATE OF ANALYSIS VA10108257

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME- MS41 | ME- MS41  | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41  | ME- MS41  |
|--------------------|-----------------------------------|----------|-----------|----------|----------|----------|----------|-----------|-----------|
|                    |                                   | Ti<br>%  | Ti<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Y<br>ppm | Zn<br>ppm | Zr<br>ppm |
|                    |                                   | 0.005    | 0.02      | 0.05     | 1        | 0.05     | 0.05     | 2         | 0.5       |
| 206501             |                                   | 0.153    | 0.07      | 0.71     | 57       | 0.26     | 8.10     | 44        | 13.3      |
| 206502             |                                   | 0.156    | 0.09      | 0.62     | 75       | 0.20     | 8.52     | 42        | 17.4      |
| 206503             |                                   | 0.199    | 0.10      | 0.86     | 92       | 0.14     | 10.45    | 47        | 16.0      |
| 206504             |                                   | 0.227    | 0.09      | 0.75     | 95       | 0.17     | 11.55    | 54        | 18.1      |

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Project: Woodjam South

CERTIFICATE OF ANALYSIS VA10108257

| Method   | CERTIFICATE COMMENTS                                                                                  |
|----------|-------------------------------------------------------------------------------------------------------|
| ME- MS41 | Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). |



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**CERTIFICATE VA10114515**

Project: Woodjam South  
 P.O. No.: WJS- 2010- 014ss  
 This report is for 2 Sediment samples submitted to our lab in Vancouver, BC, Canada on 17- AUG- 2010.  
 The following have access to data associated with this certificate:

|                                             |                                                  |                                                |
|---------------------------------------------|--------------------------------------------------|------------------------------------------------|
| NATE BREWER<br>BRUCE LAIRD<br>TOM SCHROETER | GLEN GARRETT<br>JULIANNE MADSEN<br>ROSS SHERLOCK | JOHN HERTEL<br>AMELIA RAINBOW<br>TWILA SKINNER |
|---------------------------------------------|--------------------------------------------------|------------------------------------------------|

| SAMPLE PREPARATION |                                |
|--------------------|--------------------------------|
| ALS CODE           | DESCRIPTION                    |
| WEI- 21            | Received Sample Weight         |
| LOG- 21            | Sample logging - ClientBarCode |
| 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- ICP21             | Au 30g FA ICP- AES Finish | ICP- AES   |
| ME- MS41              | 51 anal. aqua regia ICPMS |            |

To: GOLD FIELDS HORSEFLY EXPLORATION INC.  
 ATTN: JULIANNE MADSEN  
 1155 ROBSON STREET, SUITE 400  
 VANCOUVER BC V6E 1B5

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: Woodjam South

CERTIFICATE OF ANALYSIS VA10114515

| Sample Description | Method Analyte Units LOR | WEI- 21      | Au- ICP21 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 | ME- MS41 |
|--------------------|--------------------------|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |                          | Recvd Wt. kg | Au ppm    | Ag ppm   | Al %     | As ppm   | Au ppm   | B ppm    | Ba ppm   | Be ppm   | Bi ppm   | Ca %     | Cd ppm   | Ce ppm   | Co ppm   | Cr ppm   |
| 206505             |                          | 2.10         | 0.002     | 0.10     | 1.67     | 4.1      | <0.2     | <10      | 410      | 0.49     | 0.06     | 0.85     | 0.32     | 62.3     | 17.3     | 52       |
| 206506             |                          | 1.36         | 0.003     | 0.09     | 1.62     | 2.9      | <0.2     | <10      | 240      | 0.45     | 0.08     | 0.76     | 0.17     | 37.0     | 13.8     | 47       |

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Project: Woodjam South

CERTIFICATE OF ANALYSIS VA10114515

| Sample Description | Method Analyte Units LOR | ME- MS41          | ME- MS41         | ME- MS41        | ME- MS41          | ME- MS41          | ME- MS41          | ME- MS41          | ME- MS41           | ME- MS41       | ME- MS41         | ME- MS41         | ME- MS41        | ME- MS41       | ME- MS41          | ME- MS41        |
|--------------------|--------------------------|-------------------|------------------|-----------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------|------------------|------------------|-----------------|----------------|-------------------|-----------------|
|                    |                          | Cs<br>ppm<br>0.05 | Cu<br>ppm<br>0.2 | Fe<br>%<br>0.01 | Ga<br>ppm<br>0.05 | Ge<br>ppm<br>0.05 | Hf<br>ppm<br>0.02 | Hg<br>ppm<br>0.01 | In<br>ppm<br>0.005 | K<br>%<br>0.01 | La<br>ppm<br>0.2 | Li<br>ppm<br>0.1 | Mg<br>%<br>0.01 | Mn<br>ppm<br>5 | Mo<br>ppm<br>0.05 | Na<br>%<br>0.01 |
| 206505             |                          | 0.73              | 30.7             | 3.07            | 5.42              | 0.10              | 0.32              | 0.02              | 0.025              | 0.16           | 24.0             | 10.1             | 0.82            | 798            | 0.68              | 0.11            |
| 206506             |                          | 0.99              | 29.6             | 2.76            | 5.66              | 0.08              | 0.32              | 0.02              | 0.022              | 0.18           | 16.1             | 9.3              | 0.57            | 411            | 0.53              | 0.10            |

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Project: Woodjam South

CERTIFICATE OF ANALYSIS VA10114515

| Sample Description | Method Analyte Units LOR | ME- MS41 Nb ppm | ME- MS41 Ni ppm | ME- MS41 P ppm | ME- MS41 Pb ppm | ME- MS41 Rb ppm | ME- MS41 Re ppm | ME- MS41 S % | ME- MS41 Sb ppm | ME- MS41 Sc ppm | ME- MS41 Se ppm | ME- MS41 Sn ppm | ME- MS41 Sr ppm | ME- MS41 Ta ppm | ME- MS41 Te ppm | ME- MS41 Th ppm |
|--------------------|--------------------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 206505             |                          | 0.72            | 54.6            | 1450           | 20.7            | 13.0            | <0.001          | 0.01         | 0.55            | 5.9             | 0.4             | 0.5             | 142.5           | <0.01           | 0.02            | 3.4             |
| 206506             |                          | 0.94            | 37.0            | 910            | 14.3            | 16.5            | <0.001          | 0.02         | 0.49            | 6.4             | 0.3             | 0.5             | 127.5           | <0.01           | 0.01            | 3.8             |

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CERTIFICATE OF ANALYSIS VA10114515

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|--------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |                                   | Tl      | Tl      | U       | V       | W       | Y       | Zn      | Zr      |
|                    |                                   | %       | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| 206505             |                                   | 0.176   | 0.10    | 0.71    | 88      | 0.29    | 12.35   | 64      | 25.1    |
| 206506             |                                   | 0.165   | 0.11    | 0.76    | 78      | 0.18    | 11.15   | 50      | 18.0    |

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CERTIFICATE OF ANALYSIS VA10114515

| Method   | CERTIFICATE COMMENTS                                                                                  |
|----------|-------------------------------------------------------------------------------------------------------|
| ME- MS41 | Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). |

## **Appendix III**

### **Soil Sample Results**

| Mode            | Field 1 | Ti   | Ti +/- | Cr  | Cr +/- | Fe    | Fe +/- | Co  | Co +/- | Ni  | Ni +/- | Cu  | Cu +/- | Zn | Zn +/- | As | As +/- | Rb | Rb +/- | Sr  | Sr +/- | Zr  | Zr +/- | Mo | Mo +/- | Ag  | Ag +/- | Sb  | Sb +/- | Ba  | Ba +/- | Pb | Pb +/- |  |
|-----------------|---------|------|--------|-----|--------|-------|--------|-----|--------|-----|--------|-----|--------|----|--------|----|--------|----|--------|-----|--------|-----|--------|----|--------|-----|--------|-----|--------|-----|--------|----|--------|--|
| Standardization |         |      |        |     |        |       |        |     |        |     |        |     |        |    |        |    |        |    |        |     |        |     |        |    |        |     |        |     |        |     |        |    |        |  |
| Soil            | SM2     | 5416 | 370    | 51  | 34     | 30077 | 361    | 343 | 33     | -26 | 15     | 263 | 13     | 63 | 6      | 3  | 2      | 31 | 2      | 435 | 7      | 85  | 3      | 2  | 3      | -5  | 11     | 12  | 23     | -84 | 84     | 10 | 3      |  |
| Soil            | 206509  | 2120 | 290    | 88  | 32     | 18802 | 229    | 287 | 26     | -9  | 13     | 16  | 7      | 88 | 6      | 3  | 2      | 39 | 2      | 347 | 6      | 162 | 4      | 5  | 3      | 8   | 10     | 21  | 21     | 255 | 76     | 9  | 3      |  |
| Soil            | 206510  | 2282 | 275    | 75  | 30     | 16295 | 201    | 193 | 23     | -12 | 12     | 21  | 7      | 73 | 5      | 1  | 2      | 46 | 2      | 264 | 5      | 168 | 4      | 9  | 3      | -12 | 10     | -1  | 21     | 113 | 70     | 16 | 3      |  |
| Soil            | 207401  | 2660 | 314    | 109 | 34     | 19976 | 246    | 165 | 26     | 31  | 14     | 25  | 8      | 42 | 5      | 2  | 2      | 42 | 2      | 440 | 7      | 119 | 3      | 7  | 3      | 17  | 11     | -5  | 22     | 305 | 81     | 8  | 3      |  |
| Soil            | 207402  | 1199 | 239    | -2  | 26     | 10205 | 141    | 173 | 19     | -21 | 11     | 59  | 8      | 41 | 4      | 0  | 2      | 44 | 2      | 382 | 6      | 380 | 6      | 9  | 3      | 15  | 10     | -7  | 21     | 54  | 64     | 13 | 3      |  |
| Soil            | 207403  | 1766 | 287    | 45  | 32     | 17614 | 232    | 255 | 26     | -6  | 14     | 36  | 8      | 37 | 5      | 1  | 2      | 39 | 2      | 458 | 7      | 238 | 5      | 8  | 3      | -31 | 11     | -36 | 22     | 105 | 75     | 12 | 3      |  |
| Soil            | 207404  | 3346 | 342    | 112 | 37     | 27232 | 328    | 344 | 32     | -4  | 15     | 35  | 8      | 52 | 5      | 3  | 2      | 44 | 2      | 403 | 6      | 177 | 4      | 4  | 3      | -5  | 11     | 13  | 23     | 240 | 86     | 16 | 3      |  |
| Soil            | 207405  | 3405 | 339    | 155 | 37     | 25677 | 307    | 339 | 30     | 19  | 15     | 10  | 7      | 55 | 5      | 0  | 2      | 45 | 2      | 420 | 7      | 172 | 4      | 6  | 3      | 14  | 11     | -4  | 22     | 271 | 86     | 19 | 3      |  |
| Soil            | 207406  | 2697 | 354    | 85  | 38     | 26106 | 331    | 349 | 33     | -1  | 16     | 29  | 8      | 45 | 5      | -1 | 2      | 50 | 2      | 561 | 9      | 184 | 4      | 3  | 3      | 13  | 11     | 8   | 24     | 413 | 93     | 18 | 3      |  |
| Soil            | 207407  | 1132 | 261    | 3   | 29     | 16792 | 211    | 264 | 24     | -12 | 13     | 17  | 7      | 62 | 5      | 3  | 2      | 46 | 2      | 359 | 6      | 278 | 5      | 8  | 3      | 8   | 10     | -26 | 21     | 186 | 71     | 15 | 3      |  |
| Soil            | 207408  | 1304 | 263    | 72  | 31     | 15024 | 196    | 258 | 24     | -18 | 13     | 39  | 8      | 41 | 5      | 2  | 2      | 42 | 2      | 385 | 6      | 333 | 5      | 8  | 3      | -9  | 11     | -20 | 21     | 120 | 71     | 10 | 3      |  |
| Soil            | 207409  | 3144 | 331    | 83  | 34     | 22283 | 274    | 246 | 28     | -16 | 14     | 35  | 8      | 36 | 4      | 2  | 2      | 50 | 2      | 565 | 8      | 149 | 4      | 0  | 3      | -4  | 11     | 1   | 23     | 276 | 84     | 14 | 3      |  |
| Soil            | 207410  | 2665 | 345    | 133 | 39     | 28168 | 343    | 319 | 32     | 27  | 16     | 43  | 9      | 44 | 5      | 2  | 2      | 48 | 2      | 520 | 8      | 133 | 4      | 4  | 3      | -9  | 11     | 9   | 23     | 403 | 91     | 12 | 3      |  |
| Soil            | 207411  | 1007 | 256    | 41  | 31     | 18478 | 228    | 298 | 26     | -4  | 13     | 26  | 8      | 49 | 5      | 1  | 2      | 40 | 2      | 369 | 6      | 303 | 5      | 5  | 3      | -2  | 10     | 30  | 21     | 145 | 71     | 16 | 3      |  |
| Soil            | 207412  | 1709 | 276    | 86  | 33     | 20768 | 254    | 310 | 27     | -12 | 14     | 28  | 8      | 45 | 5      | -1 | 2      | 40 | 2      | 423 | 6      | 326 | 5      | 9  | 3      | -10 | 11     | -5  | 22     | 67  | 73     | 15 | 3      |  |
| Soil            | 207413  | 1691 | 283    | 85  | 33     | 18897 | 237    | 309 | 27     | 13  | 14     | 28  | 8      | 37 | 4      | -1 | 2      | 46 | 2      | 465 | 7      | 168 | 4      | 6  | 3      | 10  | 11     | 30  | 22     | 185 | 76     | 12 | 3      |  |
| Soil            | 207414  | 1639 | 277    | 63  | 32     | 16227 | 210    | 195 | 24     | 18  | 13     | 37  | 8      | 40 | 5      | 2  | 2      | 45 | 2      | 504 | 7      | 230 | 4      | 9  | 3      | -1  | 11     | 37  | 22     | 158 | 74     | 12 | 3      |  |
| Soil            | 207415  | 1081 | 263    | 82  | 32     | 16368 | 210    | 247 | 24     | 13  | 14     | 26  | 8      | 53 | 5      | 1  | 2      | 44 | 2      | 402 | 6      | 240 | 4      | 8  | 3      | 1   | 11     | 10  | 22     | 181 | 72     | 15 | 3      |  |
| Soil            | 207416  | 1030 | 265    | 72  | 32     | 17912 | 226    | 339 | 26     | -17 | 13     | 27  | 8      | 49 | 5      | 1  | 2      | 48 | 2      | 427 | 7      | 277 | 5      | 9  | 3      | 7   | 11     | 19  | 22     | 184 | 73     | 14 | 3      |  |
| Soil            | 207417  | 1281 | 262    | 86  | 32     | 16755 | 211    | 307 | 25     | -13 | 13     | 24  | 7      | 37 | 4      | -3 | 2      | 46 | 2      | 434 | 6      | 271 | 5      | 11 | 3      | 14  | 10     | 11  | 21     | 143 | 71     | 16 | 3      |  |
| Soil            | SM2     | 4123 | 366    | 37  | 35     | 30096 | 366    | 362 | 34     | -13 | 16     | 241 | 13     | 54 | 6      | 4  | 2      | 27 | 2      | 436 | 7      | 93  | 3      | 15 | 3      | 19  | 11     | 7   | 23     | 189 | 89     | 13 | 3      |  |
| Soil            | 207419  | 1499 | 279    | 73  | 33     | 20738 | 252    | 388 | 28     | 4   | 14     | 27  | 8      | 43 | 5      | 2  | 2      | 46 | 2      | 344 | 6      | 217 | 4      | 6  | 3      | -7  | 10     | 10  | 21     | 218 | 75     | 12 | 3      |  |
| Soil            | 207420  | 1141 | 254    | 68  | 31     | 13656 | 179    | 212 | 22     | -23 | 12     | 10  | 7      | 27 | 4      | 2  | 2      | 44 | 2      | 460 | 7      | 221 | 4      | 5  | 3      | 2   | 10     | 21  | 21     | 147 | 69     | 14 | 3      |  |
| Soil            | 207421  | 1711 | 293    | 105 | 34     | 15000 | 203    | 219 | 24     | -6  | 13     | 26  | 8      | 30 | 4      | 3  | 2      | 48 | 2      | 441 | 7      | 147 | 4      | 13 | 3      | 6   | 11     | -16 | 22     | 265 | 79     | 12 | 3      |  |