

**BC Geological Survey  
Assessment Report  
38701**



**ASSESSMENT REPORT TITLE PAGE AND SUMMARY**

**TITLE OF REPORT: Geochemical Report on the K9 Property**

**TOTAL COST: 24,680.75**

AUTHOR(S): David Keenan

SIGNATURE(S): *David Keenan*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S) : 5767408 / 2019/Jun/04 – 2019/Jun/07

YEAR OF WORK: 2019

PROPERTY NAME: K9

CLAIM NAME(S) (on which work was done): 511209, 504359

COMMODITIES SOUGHT: Cu, Pb, Zn, Ag, Cd, Fe, As

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Fort Steele

NTS / BCGS: 82F09, 82F16

LATITUDE: \_\_\_\_\_ 49 ° 47' N \_\_\_\_\_ 116 ° 26W' \_\_\_\_\_ "

LONGITUDE: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " (at centre of work)

UTM Zone: 11 \_\_\_\_\_ EASTING: 540587 NORTHING: 5513532

OWNER(S): Eagle Plains Resources Ltd.

MAILING ADDRESS: Suite 200, 44-12<sup>th</sup> Ave S. Cranbrook, BC. V1C 2R7

OPERATOR(S) [who paid for the work]: Eagle Plains Resources Ltd.

MAILING ADDRESS: Eagle Plains Resources Ltd.

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

| TYPE OF WORK IN THIS REPORT                                      | EXTENT OF WORK (in metric units) | ON WHICH CLAIMS   | PROJECT COSTS APPORTIONED (incl. support) |
|------------------------------------------------------------------|----------------------------------|-------------------|-------------------------------------------|
| GEOLOGICAL (scale, area)                                         |                                  |                   |                                           |
| Ground, mapping                                                  |                                  |                   |                                           |
| Photo interpretation                                             |                                  |                   |                                           |
| GEOPHYSICAL (line-kilometres)                                    |                                  |                   |                                           |
| Ground                                                           |                                  |                   |                                           |
| Magnetic                                                         |                                  |                   |                                           |
| Electromagnetic                                                  |                                  |                   |                                           |
| Induced Polarization                                             |                                  |                   |                                           |
| Radiometric                                                      |                                  |                   |                                           |
| Seismic                                                          |                                  |                   |                                           |
| Other                                                            |                                  |                   |                                           |
| Airborne                                                         |                                  |                   |                                           |
| GEOCHEMICAL (number of samples analysed for ...)                 |                                  |                   |                                           |
| Soil                                                             |                                  | 511209,<br>504359 | 24,680.75                                 |
| Silt                                                             |                                  |                   |                                           |
| Rock                                                             |                                  |                   |                                           |
| Other                                                            |                                  |                   |                                           |
| DRILLING (total metres, number of holes, size, storage location) |                                  |                   |                                           |
| Core                                                             |                                  |                   |                                           |
| Non-core                                                         |                                  |                   |                                           |
| RELATED TECHNICAL                                                |                                  |                   |                                           |
| Sampling / Assaying                                              |                                  |                   |                                           |
| Petrographic                                                     |                                  |                   |                                           |
| Mineralographic                                                  |                                  |                   |                                           |
| Metallurgic                                                      |                                  |                   |                                           |
| PROSPECTING (scale/area)                                         |                                  |                   |                                           |
| PREPATORY / PHYSICAL                                             |                                  |                   |                                           |
| Line/grid (km)                                                   |                                  |                   |                                           |
| Topo/Photogrammetric (scale, area)                               |                                  |                   |                                           |
| Legal Surveys (scale, area)                                      |                                  |                   |                                           |
| Road, local access (km)/trail                                    |                                  |                   |                                           |
| Trench (number/metres)                                           |                                  |                   |                                           |
| Underground development (metres)                                 |                                  |                   |                                           |
| Other                                                            |                                  |                   |                                           |
|                                                                  |                                  | <b>TOTAL COST</b> | 24,680.75                                 |

# **GEOCHEMICAL REPORT**

on the

## **K9 PROPERTY**

Fort Steele Mining Division, Southeastern British Columbia

N.T.S. 82F16, 82F09

Latitude 49°47' N, Longitude 116° 26' W

Prepared for

**EAGLE PLAINS RESOURCES LTD.**

Suite 200, 44-12<sup>th</sup> Ave.S

Cranbrook, B.C. V1C 2R7

V1C 2R7

by

David Keenan, B. Sc.

TerraLogic Exploration Inc.

Suite 200, 44-12<sup>th</sup> Ave.S

Cranbrook, B.C. V1C 2R7

December, 3 2019

## SUMMARY

The K-9 property is located 50 km west of Cranbrook, BC and consists of 7 contiguous MTO claims totaling 1961 hectares. The original claims were located in March, 1996 by Tim Termuende. The claims are owned 100% by Eagle Plains Resources Ltd. and carry no underlying royalties or encumbrances. Three active Crown Grants exist on the property, located over the Great Dane adit and surrounding area, covering an area approximately 600 m by 400 m.

Regionally the area is underlain by rocks of the Purcell Supergroup on the western flank of the Purcell Anticlinorium, a broad, north-plunging arch-like structure in Helikian and Hadrynian aged rocks (Figure 3). The anticlinorium is allocthonous, carried eastward and onto the underlying cratonic basement by generally north trending thrusts throughout the Laramide orogeny during late Mesozoic and early Tertiary time (Price, 1981).

The K9 claims extend along a steeply dipping package of Middle Proterozoic rocks that strike north and intersect the White Creek Batholith. Middle Proterozoic rocks consist of wackes, silty argillite, siltstone, phyllitic quartzites and dolomitic limestones belonging to the Proterozoic Middle to Upper Aldridge, Creston and Kitchener Formations, respectively. Within the property, a number of thick gabbroic sills (Figure 5; Mp-b and Mp-M) are present, and may be related to the shear zone that dominates the centre of the property. Jurassic ultramafic rocks, consisting of serpentinized peridotite are also documented in the northern portion of the property.

Target mineralization on the K9 property is structurally controlled vein and replacement Cu-Ag-Pb-Zn mineralization hosted within quartzites and phyllitic quartzites of the Creston Formation. The vast majority of occurrences on the property are focused along the "K9 Shear Zone", a metamorphic zone that falls between the St. Mary's River to the south and Dewar Creek to the north. This shear zone has seen at least two deformation events. One event is characterized by the dominant schistosity/foliation in the mafic sills as well as the sedimentary rocks, metamorphosing the units to orthoschists, orthogneisses, phyllite, psammite and meta-siltstone. This ductile event is characterized by dolomite/ankerite alteration. Following this ductile event was a brittle deformation event characterized by quartz and Fe-oxide infill along with ore forming minerals, such as chalcopyrite, galena and sphalerite.

Historical work on the property dates back to the turn of the century, with minor mining operations completed on the Great Dane Adit and Purina Shaft. Workings on the Great Dane includes driving a 20 m adit into the steeply dipping high grade quartz vein along with nearby trenching operations while a 7 m shaft was sunk into the Purina replacement zone. These operations are thought to have halted when the St. Eugene mine and smelter shut down operations.

The property lay dormant until July 1986, when a minor exploration program of access trail rehab, claim location verification, geologic mapping and sampling was conducted by Agincourt Explorations Inc. of Vancouver, BC on the Great Dane prospect. A follow up program of trenching, soil geochemistry, geologic mapping and an EM orientation survey were recommended but was never executed. Total expenditures were in the order of \$24,000.

The next recorded work on the property was completed by Eagle Plains Resources Ltd in 1996 and 1997. This program consisted of a comprehensive stream-sediment and contour soil geochemical program, resulting in the collection of 1050 soil, 103 rock, and 26 silt samples. This geochemical survey defined a pronounced geochemical anomaly over 1.3km of strike length (Termuende, 1998). During the course of the program, a previously undocumented shaft was discovered, blasted into a 2.7 m-thick massive pyrrhotite/copper replacement zone (Purina Shaft), along with a number of new mineral occurrences.

Further work, including trenching and diamond drilling, was recommended for the property and total cost of the two exploration programs was \$22,525.47.

In 2006, Eagle Plains carried out a helicopter borne time domain magnetic and electromagnetic geophysical survey on the project. A total of 154 line km at 200m spacing was flown between April 20<sup>th</sup> - 28<sup>th</sup> 2006. Initial results from the survey indicate that the survey imaged the known mineralized structures and has also identified areas for further follow up. The total cost of the 2006 program was \$52,272.99.

The 2011 exploration on the K-9 property by Bluefire Mining Corp. consisted of a 364.2 line km VTEM airborne geophysical survey. The survey was flown in conjunction with four other properties in the Purcell Basin. The survey was flown by GeoTech Limited, a geophysical contractor based in Aurora, Ontario. Total cost of the 2011 airborne survey was \$102,077.61.

The 2013 exploration program consisted of soil and silt geochemical surveys, geological mapping and prospecting. The work was executed out of two base camps, one 10 day fly camp located near the Alpo showing and the rest of the work based out of an outfitter cabin on the St. Mary's River on the very southern part of the property.

Highlights from the 2013 program include the discovery of a new mineralized occurrence, named the Canis, which consists of Cu mineralization in an Fe-oxide-silica replacement zone that is open to the east and west. Initial continuous chip samples from this showing returned ~0.2% Cu and 2.5 g/t Ag over 4.1 m (AHK9R004-007) and one grab sample sent in for whole rock analysis returned 0.97% Cu and 18.5 g/t Ag (AHK9R015). This showing is located just 110 m to the southeast of the Purina Shaft.

The soil sampling from the 2013 program confirmed and expanded on the historic results, better defining a broad multi-element anomaly in the northern portion of the property that now has dimensions of up to 2300 m by 300 m. This anomaly consists of coincident Cu-Pb-Zn-Ag-Cd-Fe-As and covers many of the known showings in the area, including the Purina, Flea, Alpo, Meatball and Pup. This is a very significant and cohesive anomaly that is highly prospective to represent extensive underlying mineralization.

In addition to these findings, anomalous soil and silt anomalies were also located just east of Morris creek on the southern slope that hosts the Great Dane adit, north of Dewar creek and in the drainage basin to the east of the K9 Shear Zone. These anomalies also warrant follow up work. Total expenditures for the 2013 exploration program came to \$195,572.28.

The 2019 work program involved 3 days of contour soil sampling. The program was a fly camp that was mobilized and demobilized by helicopter from the Saint Mary's forest service road. From camp, the property was accessed by foot every day. The field program commenced June 4<sup>th</sup> and continued through June 7<sup>th</sup> 2019. A total of 209 soil samples were taken during this program.

During the 2019 program 209 soil samples were taken in the northern extent of the property: 125 samples in claim 511209 and 84 samples in claim 504359. Most of the samples are taken in geology unit Mp-C (Figure 4). The sample lines were taken just north and on strike of the K9 shear zone where multiple historic showings are found (Figure 5). The 2019 contour soils were taken in order to infill historical anomalous soil lines a give a more detailed understanding of potential mineralization in the area.

Copper results for the 2019 program had an average value of 30.91 ppm Cu and a max value of 168.9 ppm Cu. Assay results for Pb returned an average value of 30.05 ppm Pb and a max value of 175.3 ppm Pb. The 2019 soil grid revealed north/ northwest trending anomalous values for both lead and copper

(Figure 6a, 6b). These anomalous soils are located down strike of the previously mapped K9 shear zone and mafic sills.

The K9 property contains highly prospective targets for polymetallic veining and sulphide replacement zones based on the favorable geologic and structural setting, presence of high-grade mineralization in historic as well as recent rock sampling and large broad multi-element geochemical anomalies in soil and silt. High grade historic chip samples have returned as much as 62.6 g/t Ag, 2.6% Cu, 9.6% Zn and 14% Pb over 2.0 m from the Great Dane, 8.8 g/t Ag and 0.7% Cu over 1.0 m at the Purina Shaft and 72 g/t Ag and 6.8% Pb over 1.0 m from the Meatball showing, while sampling at the newly discovered Canis showing returned 0.21% Cu and 2.5 g/t Ag over 4.1 m.

Rock exposure on the property is poor, and is especially the case in the area hosting the extensive multi-element anomaly. It is highly encouraging that where bedrock is exposed in the central zone, it is commonly mineralized. The central zone represents a highly prospective target for underlying economic scale mineralization.

Further work on the property is recommended and should focus on the following:

#### Phase I

- Further analysis of whole rock data to determine if alteration signatures can be located in soil;
- Petrophysical analysis of a select number of samples to be used to better constrain and define the results from geophysical surveys conducted to date on the property;
- Ground based Induced Polarization survey over the central portion of the property that hosts the broad multi-element soil anomaly;
- Follow up on a number of silt and soil geochemical anomalies from the 2013 and 2019 program to identify further mineralization outboard of known showing:
  1. Basin east of K9 Shear Zone that hosts historic crown grants and anomalous Pb-As-Zn-Cd
  2. Anomalous soil samples east of Morris creek
  3. Anomalous silt samples north of Dewar Creek
  4. Anomalous soil samples in the very eastern part of the property

#### Phase II

Trenching and/or diamond drilling of best targets within the Purina-Canis zone defined by soil geochemical sampling and geophysical surveys

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## INTRODUCTION

### *Location and Access*

The K9 property is located within the Fort Steele Mining Division, within NTS mapsheet 82F16, 82F09 at 49° 30' North latitude and 116° 26' West longitude (Figure 1). It is situated 37 km west-northwest of Kimberley, B.C. and is for the most part accessed by seasonally-maintained Forest Service roads.

The north-south oriented claim group consists of 1961 hectares which straddle the 2440 m ridge which divides the Dewar Creek and St. Mary's River valleys. The claims overlie the headwaters of Morris Creek, which flows southward to the St. Mary's River, and an unnamed tributary to Coppery Creek, which flows south-eastward to Dewar Creek. Access is provided from both the south and the north, along the St Mary River, and Dewar Creek roads, respectively.

Elevations within the property range from 1370 m (4500 ft) to 2440 m (8000ft). The property is subjected to moderate precipitation, and is free of snow from June to October. The property is forested for the most part, (with the exception of ridges and escarpments) with mature stands of Hemlock, Cedar, Fir and Spruce.

### *Tenure*

The property area consists of 7 contiguous MTO claims totaling 1961 hectares. The original claims were located in March, 1996 by Tim Termuende. Claim boundary locations are shown on Figure 2. Three active Crown Grants exist on the property, located over the Great Dane adit and surrounding area, covering an area approximately 600 m by 400 m. A summary of tenure information is provided in the table below:

*Table 1 – List of Tenure*

| <b>Tenure Number</b> | <b>Claim Name</b> | <b>Issue Date</b> | <b>Good To</b> | <b>Area Ha</b> | <b>Owner</b>                        |
|----------------------|-------------------|-------------------|----------------|----------------|-------------------------------------|
| 511209               |                   | 2005-04-20        | 2019-12-31     | 500.67         | EAGLE PLAINS RESOURCES LTD.<br>100% |
| 511216               |                   | 2005-04-20        | 2019-12-31     | 417.42         | EAGLE PLAINS RESOURCES LTD.<br>100% |
| 504359               | K9-3              | 2005-01-20        | 2019-12-31     | 417.29         | EAGLE PLAINS RESOURCES LTD.<br>100% |
| 515831               | K9-B              | 2005-07-02        | 2019-12-31     | 83.51          | EAGLE PLAINS RESOURCES LTD.<br>100% |
| 1026133              | K9                | 2010-12-19        | 2019-12-31     | 166.86         | EAGLE PLAINS RESOURCES LTD.<br>100% |
| 1026135              | K9                | 2010-12-19        | 2019-12-31     | 208.66         | EAGLE PLAINS RESOURCES LTD.<br>100% |
| 1026137              | K9                | 2010-12-19        | 2019-12-31     | 166.98         | EAGLE PLAINS RESOURCES LTD.<br>100% |
| <b>Total</b>         |                   |                   |                | <b>1961.38</b> |                                     |

-600000 -400000 -200000 0 200000 400000 600000



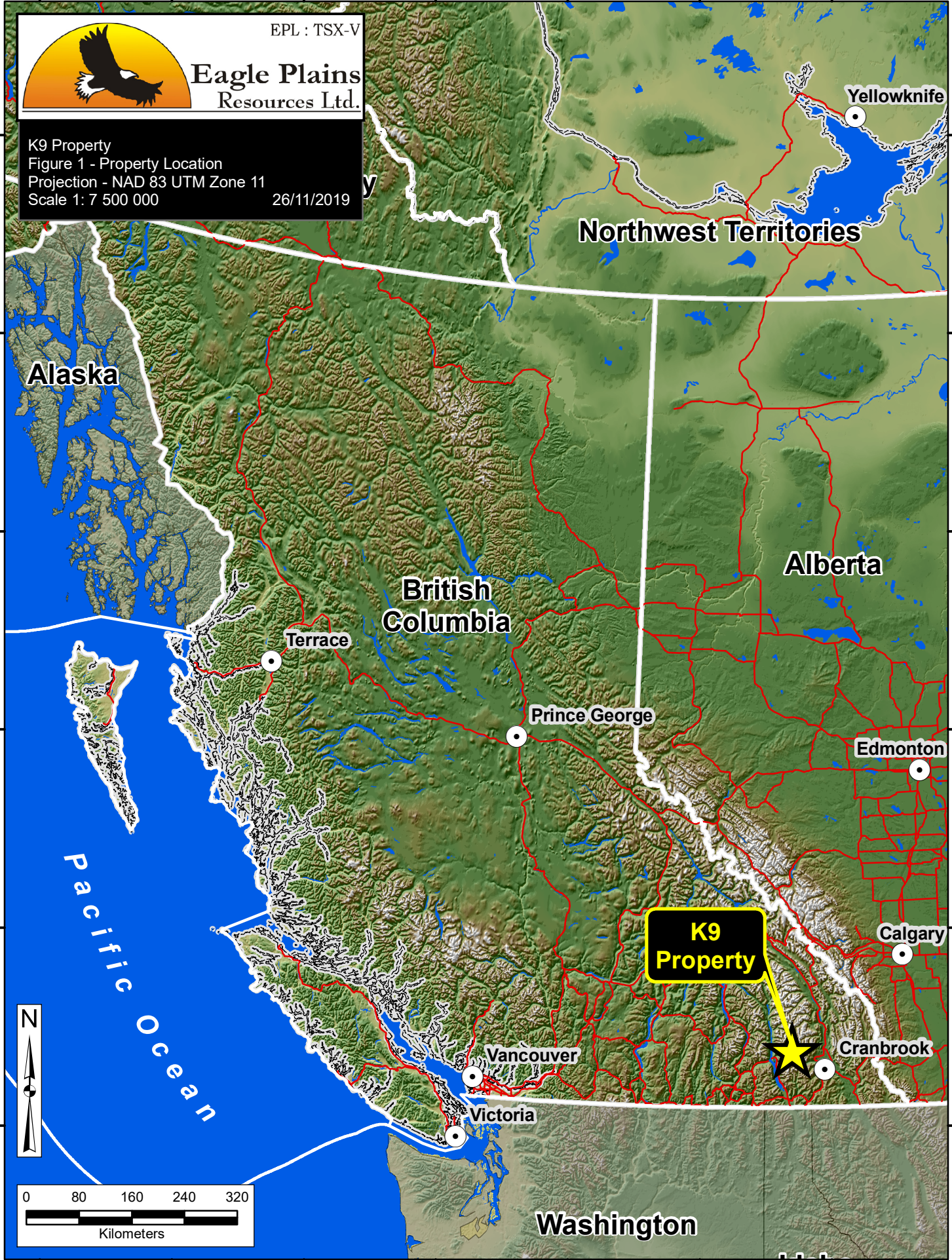
EPL : TSX-V

**Eagle Plains Resources Ltd.**

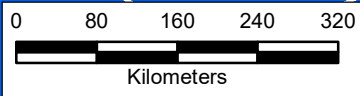
K9 Property  
Figure 1 - Property Location  
Projection - NAD 83 UTM Zone 11  
Scale 1: 7 500 000  
26/11/2019

6900000  
6600000  
6300000  
6000000  
5700000  
5400000

6900000  
6600000  
6300000  
6000000  
5700000  
5400000



**K9 Property**



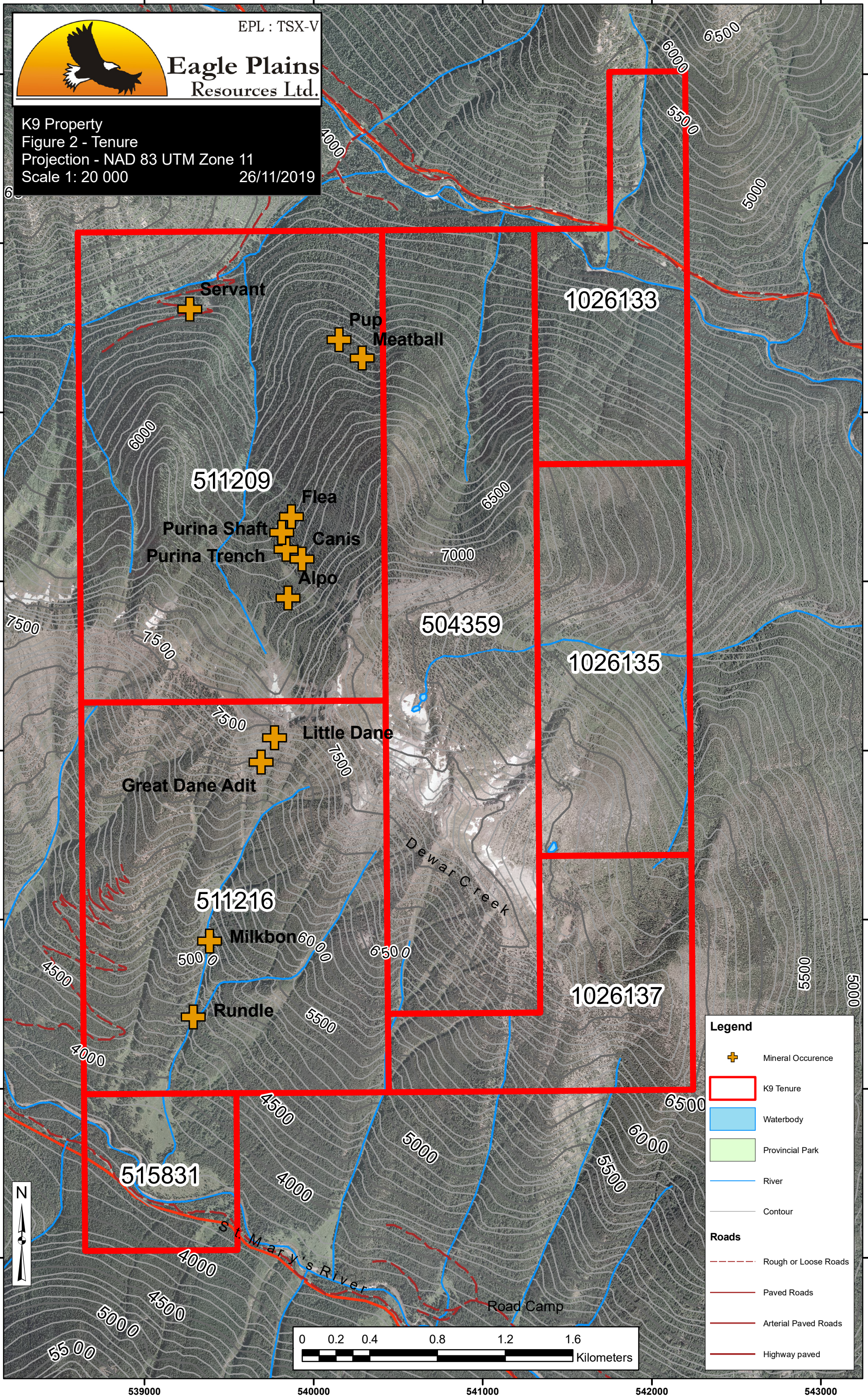
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EPL : TSX-V

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Resources Ltd.

K9 Property  
Figure 2 - Tenure  
Projection - NAD 83 UTM Zone 11  
Scale 1: 20 000  
26/11/2019

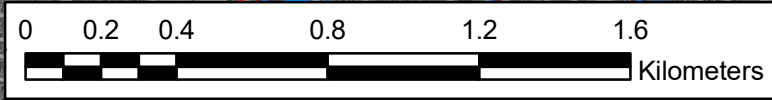


**Legend**

- Mineral Occurrence
- K9 Tenure
- Waterbody
- Provincial Park
- River
- Contour

**Roads**

- Rough or Loose Roads
- Paved Roads
- Arterial Paved Roads
- Highway paved



### ***Property History***

The East Kootenay area has long been known as a mineral resource-rich area, with numerous mineral showings documented over the years. The turn of the century discovery of Cominco's world-class Sullivan deposit near the present-day city of Kimberley put the area into focus with mineral explorers world-wide. The Sullivan massive sulphide ore body hosted 180,000,000 tons of ore averaging 6.5% zinc, 6.4% lead and 1.90 oz/t silver, with a mine life of over 100 years, and a contained metal value in present dollars estimated to be in excess of 25 billion dollars.

Numerous other past-producers in the area reflect the excellent mineral potential of the region. These include:

- 1) St. Eugene Mine (1899-1929) - 1.63 million tons grading approximately 8% lead, 1% zinc, 4.4 oz/t silver;
- 2) Estella Mine (1951-1967) - 120,000 tons grading 4.8% lead, 9.0% zinc, 6.4 oz/t silver;
- 3) Kootenay King Mine (1952-1953) - 14,616 tons grading 5.3% lead, 15.1% zinc, 1.94 oz/t silver;

The area is also well known for the presence of once-rich placer gold deposits, though no economic hard-rock gold concentrations have yet been located. The Wildhorse River saw frenzied placer mining activity beginning in 1864, with over 1,500,000 ounces of gold extracted from its gravels. Placer mining operations are still in place along the river.

Contained within the claim boundaries are three crown-grants, first surveyed in 1901, which cover the Great Dane prospect, a structurally controlled massive sulphide vein occurrence located near the turn of the century. At the Great Dane an adit has been driven 20m along vertical, north-striking Creston Formation phyllitic quartzites.

In July 1986 a minor exploration program of access trail rehab, claim location verification, geologic mapping and sampling was conducted by Agincourt Explorations Inc. of Vancouver, BC on the Great Dane prospect. Preliminary exploration results were favorable and confirmed high-grade mineralization reported from the Great Dane workings. A follow up program of trenching, soil geochemistry, geologic mapping and an EM orientation survey were recommended but was never executed. Total expenditures were in the order of \$24,000.

Very little further systematic work is documented on the property until 1996, when a comprehensive stream-sediment and contour soil geochemical program was completed, consisting of 280 soil, 19 rock, and 10 silt samples. This geochemical survey defined a pronounced geochemical anomaly over 1.3km of strike length (Termuende, 1998). During the course of the program, a previously undocumented shaft was discovered, blasted into a 2.7 m-thick massive pyrrhotite/copper replacement zone (Pruina Shaft). Vegetation overgrowth indicates that the Purina workings were likely from the turn of the century. A subsequent geochemical survey in 1997 (770 soils, 84 rocks, and 16 silts) program was conducted over claim group, concentrating on the north-south shear zone that hosts the Purina and Great Dane occurrences. (Termuende, 1998).

Further work, including trenching and diamond drilling, was recommended for the property and total cost of the two exploration programs was \$22,525.47.

In 2006, Eagle Plains carried out a helicopter borne time domain magnetic and electromagnetic geophysical survey on the project. A total of 154 line km at 200m spacing was flown between April 20 - 28<sup>th</sup> 2006. Initial results from the survey indicate that the survey imaged the known mineralized structures and has also identified areas for further follow up. The total cost of the 2006 program was \$52,272.99.

The 2011 exploration on the K-9 property by Bluefire Mining Corp. consisted of a 364.2 line km VTEM airborne geophysical survey. The survey was flown in conjunction with four other properties in the Purcell Basin. The survey was flown by GeoTech Limited, a geophysical contractor based in Aurora, Ontario. Total cost of the 2011 airborne survey was \$102,077.61.

Based on the geophysical results obtained, a number of anomalous Total Electro Magnetic (TEM) anomalies are mainly identified across the K9 claims. They are considered as very low to low conductive zones that for the most part extend in the northeast to north-south direction. This can be interpreted to reflect the northeast-north-south orientation of the shear zone that controls the mineralization occurrences on the property.

The 2013 exploration program consisted of two phases completed between July 15<sup>th</sup> and October 10<sup>th</sup>, 2013. The program consisted of soil and silt geochemical surveys, geological mapping and prospecting. The work was executed out of two base camps, one 10 day fly camp located near the Alpo showing and the rest of the work based out of an outfitter cabin on the St. Mary's River on the very southern part of the property.

Highlights from the 2013 program include the discovery of a new mineralized occurrence, named the Canis, which consists of Cu mineralization in an Fe-oxide-silica replacement zone that is open to the east and west. Initial continuous chip samples from this showing returned ~0.2% Cu and 2.5 g/t Ag over 4.1 m (AHK9R004-007) and one grab sample sent in for whole rock analysis returned 0.97% Cu and 18.5 g/t Ag (AHK9R015). This showing is located just 110 m to the southeast of the Purina Shaft.

The soil sampling from the 2013 program confirmed and expanded on the historic results, better defining a broad multi-element anomaly in the northern portion of the property that now has dimensions of up to 2300 m by 300 m. This anomaly consists of coincident Cu-Pb-Zn-Ag-Cd-Fe-As and covers many of the known showings in the area, including the Purina, Flea, Alpo, Meatball and Pup. This is a very significant and cohesive anomaly that is highly prospective to represent extensive underlying mineralization.

## **GEOLOGY**

### ***Regional Geology***


Regionally the area is underlain by rocks of the Purcell Supergroup on the western flank of the Purcell Anticlinorium, a broad, north-plunging arch-like structure in Helikian and Hadrynian aged rocks (Figure 3). The anticlinorium is allocthonous, carried eastward and onto the underlying cratonic basement by generally north trending thrusts throughout the Laramide orogeny during late Mesozoic and early Tertiary time (Price, 1981).

The oldest rocks exposed in the area are greenish, rusty weathering thin bedded siltites and quartzites of the 4000+ m thick Lower Aldridge Formation, along with the facies-related, dominantly fluvial Fort Steele Formation (the base of which is unexposed). The Sullivan deposit is located some 20-30 m below the upper contact of the Lower Aldridge Formation. Overlying the Lower Aldridge is a continuous section of Middle Aldridge quartz wackes, subwackes and argillites some 3000+ m thick. Within the Middle Aldridge formation, fourteen varved marker horizons can be correlated over hundreds of kilometres. These represent the only accurate stratigraphic control. A number of aerially extensive, locally thick gabbroic sills are present within the Lower and Middle Aldridge Formations. These sills and dikes; the "Moyie Sills", locally intruded into wet, unconsolidated sediments, and have been dated to 1445 Ma, providing a minimum age for Aldridge sedimentation and formation of the Sullivan deposit. The Middle Aldridge is overlain conformably by the Upper Aldridge, 300 to 400 meters of thin, fissile, rusty weathering siltite/argillite.

Conformably overlying the Aldridge Formation is the Creston Formation, comprising approximately 1800 meters of grey, green and maroon, cross-bedded and ripple marked platformal quartzites and mudstones. The Kitchener-Siyeh Formation, which includes 1200 to 1600 meters of grey-green and buff coloured dolomitic mudstone are shallow water sediments overlying the Creston Formation. It is this sedimentary sequence which underlies the K9 property.

The upper portion of the Purcell Supergroup consists of the Dutch Creek and Mount Nelson Formations. The Dutch Creek formation consists of approximately 1200 meters of dark grey, calcareous dolomitic mudstones. Overlying the Dutch Creek formation is the Mount Nelson formation, 1000 meters of grey-green and maroon mudstone and calcareous mudstones. This unit marks the top of the Purcell Supergroup.

The Purcell Supergroup in the Sullivan area was deposited along an active tectonic basin margin. Dramatic thickness and facies variations record Purcell-age growth faults and contrast with gradual changes characteristic of most Purcell rocks elsewhere. These faults reflect deep crustal structures that modified incipient Purcell rifting, and led to the development of an intercratonic basin in middle Proterozoic time.



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K9 Property  
 Figure 3 - Regional Geology  
 Projection - NAD 83 UTM Zone 11  
 Scale 1: 125 000  
 26/11/2019

5530040

5520040

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5500040

5490040

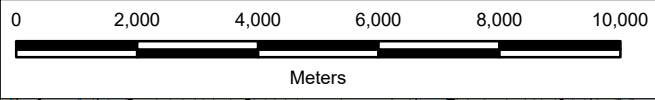
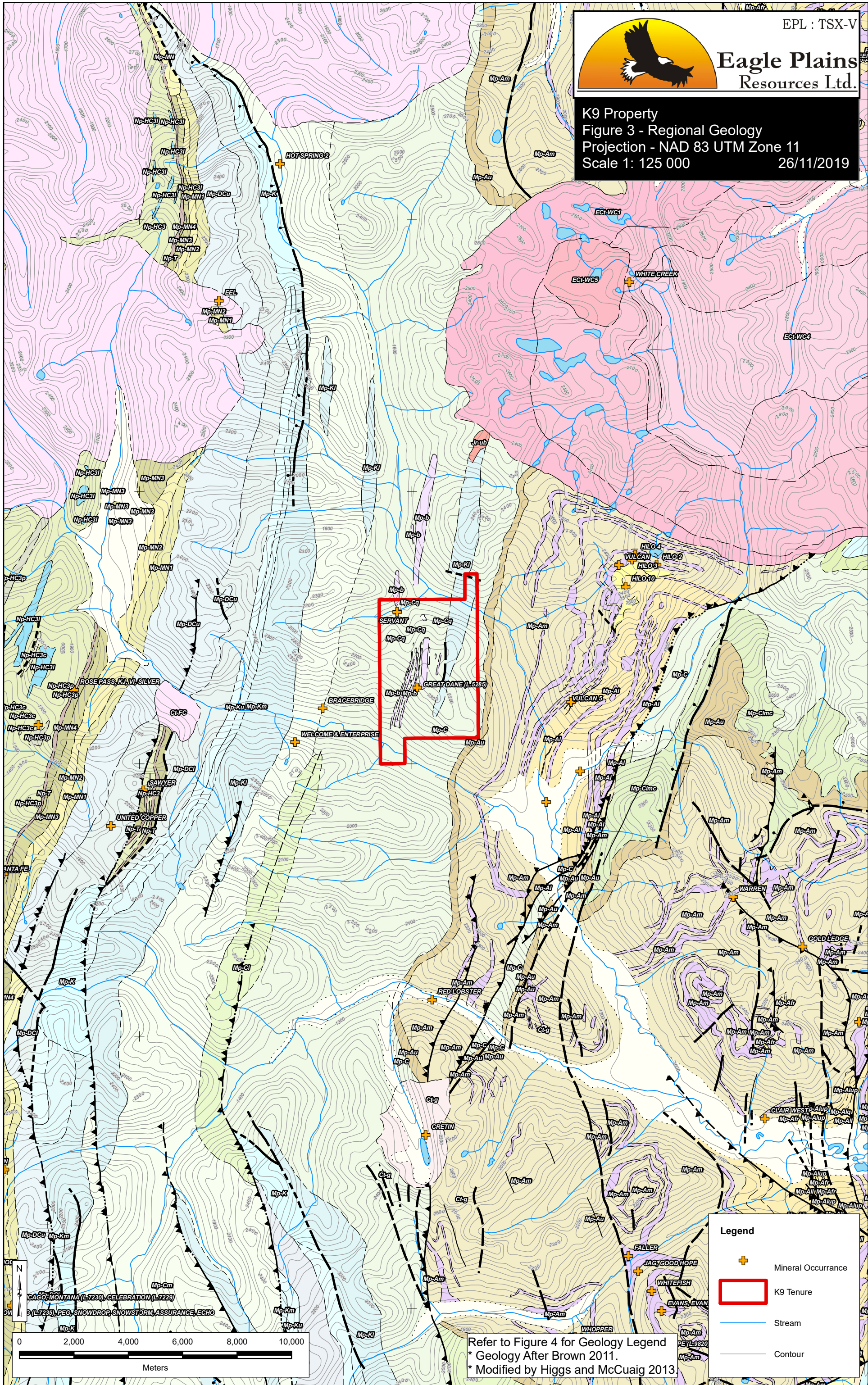
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
Refer to Figure 4 for Geology Legend  
 \* Geology After Brown 2011.  
 \* Modified by Higgs and McCuaig 2013.

**Legend**












-  Mineral Occurrence
-  K9 Tenure
-  Stream
-  Contour

# K9 Geology Legend



## GEOUNIT

|                                                                                    |                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | ECI-WC1 - WHITE CREEK BATHOLITH: Biotite-epidote granodiorite.                                                                                                                                                                                                |
|    | ECI-WC2 - WHITE CREEK BATHOLITH: Hornblende granodiorite.                                                                                                                                                                                                     |
|    | ECI-WC3 - WHITE CREEK BATHOLITH: Biotite monzogranite with megacrysts of potassium feldspar; aplite and pegmatite.                                                                                                                                            |
|    | ECI-WC4 - WHITE CREEK BATHOLITH: Biotite -muscovite leucomonzogranite.                                                                                                                                                                                        |
|    | ECI-WC5 - WHITE CREEK BATHOLITH: Biotite monzogranite.                                                                                                                                                                                                        |
|    | Jr-ub - Ultramafic rocks, serpentized peridotite.                                                                                                                                                                                                             |
|    | Mp-AI - ALDRIDGE FORMATION: LOWER: rusty brown weathering, thin- to medium-bedded, quartz wacke, quartz arenite.                                                                                                                                              |
|    | Mp-Am - ALDRIDGE FORMATION: MIDDLE: grey to rusty weathering, thick- to thin-bedded, quartzofeldspathic wacke, intercalated argillite and siltite,                                                                                                            |
|    | Mp-Au - ALDRIDGE FORMATION: UPPER: rusty brown weathering, grey to dark grey, fissile to platy, laminated silty argillite and siltite.                                                                                                                        |
|    | Mp-C - light grey, mauve, or green siltstone and argillite; thin to medium-bedded quartz arenite, quartz wacke; lenticular bedding, ripples, cross-bedding, and mudcracks occur locally.                                                                      |
|    | Mp-CI - CRESTON FORMATION: LOWER: waxy-green to olive, tan-weathering, thin to thick-bedded to laminated argillite and siltstone; lesser fine-grained quartz wacke; wavy bedding and abundant mudcracks common.                                               |
|    | Mp-CImc - CRESTON FORMATION: Mud-cracked member                                                                                                                                                                                                               |
|    | Mp-Cm - CRESTON FORMATION: MIDDLE: light grey, mauve, or purple, thin to medium-bedded quartz arenite; quartz wacke; lesser grey siltstone and argillite; white quartzite interbeds; lenticular bedding, ripples, cross-bedding, and mudcracks occur locally. |
|  | Mp-K - KITCHENER FORMATION: Undivided meta-sedimentary rocks: thin-bedded, brown-weathering dolomitic silt stone and green argillite.                                                                                                                         |
|  | Mp-KI - KITCHENER FORMATION: LOWER: green and beige siltstone, dark grey argillite; dolomitic siltstone.                                                                                                                                                      |
|  | Mp-Km - KITCHENER FORMATION: MIDDLE: commonly buff-weathering dolomitic siltstone, dolomitic argillite, and dolomite; argillite, siltstone, quartzite; green tinged dolomitic siltstone near base.                                                            |
|  | Mp-Ku - KITCHENER FORMATION: UPPER: thin- to thick-bedded, white to grey dolomite, with interbedded white quartzite.                                                                                                                                          |
|  | Mp-M - MOYIE INTRUSIONS: "Moyie sills": dark-green to black, medium to fine-grained gabbro and hornblende quartz diorite sills and dikes; several to hundreds of metres thick.                                                                                |
|  | Mp-b - Post-Moyie Intrusions: (nicol creek feeders?) Mafic sills and rare dikes hosted in Kitchener Formation. Olive green, massive to plagioclase porphyritic.                                                                                               |
|  | Qt-al - Unconsolidated sediments: alluvium; colluvium; diamictite                                                                                                                                                                                             |

## Geological Contacts

|                                                                                     |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
|  | Contact Approx; Dikes Dash      |
|  | Contact_Assumed; Dikes          |
|  | Contact Defined; Sill Solid     |
|  | Contact Quaternary              |
|  | Contact Subdivided              |
|  | Fault Approximate               |
|  | Fault Normal Approximate        |
|  | Fault Normal Defined            |
|  | Fault_Reverse App; Fault Thrust |
|  | Fault_Reverse Assumed           |
|  | Fault Thrust Defined            |

## Folds

|                                                                                       |                       |
|---------------------------------------------------------------------------------------|-----------------------|
|    | Anticline Approximate |
|  | Syncline defined      |

\* Geology After Brown 2011.

### ***Property Geology***

The K9 claims extend along a steeply deeply package of Middle Proterozoic rocks that strike north and intersect the White Creek Batholith. Middle Proterozoic rocks consist of wackes, silty argillite, siltstone, phyllitic quartzites and dolomitic limestones belonging to the Proterozoic Middle to Upper Aldridge, Creston and Kitchener Formations, respectively. Within the property, a number of thick gabbroic sills (Figure 5; Mp-b and Mp-M) are present, and may be related to the shear zone that dominates the centre of the property. Jurassic ultramafic rocks, consisting of serpentized peridotite are also documented in the northern portion of the property (Figure 5).

Bedding throughout the property area is vertical or sub-vertical, with beds striking north/south. Beds may be overturned locally, though distinct structural relationships have not yet been ascertained.

Rocks underlying the Great Dane Adit have been deformed by at least two periods of folding. A strong northerly, sub-vertical schistosity is developed in both rock types which has obliterated primary sedimentary structures. Stereonet analysis of this early deformation indicates vertical, isoclinal folding, with axes plunging gently at 80 toward 011 degrees. Later deformation is indicated by a strong cleavage found in the more fissile rocks. This cleavage generally corresponds to the axial planes of crenulations and minor folds, with near vertical fold axes. Stereonet analysis of these cleavages produces an average attitude of strike 340 and dip 75 NE (Scott, 1986). This similar fold pattern can be seen along the entire length of what is called the “K9 Shear Zone” that dominates the centre of the property and falls on strike with nearly all of the mineral showings found to date.

538000 539000 540000 541000 542000 543000



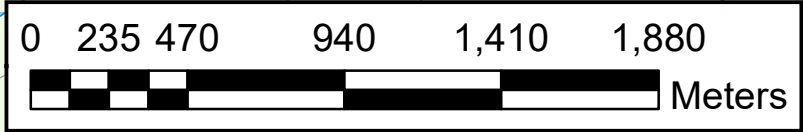
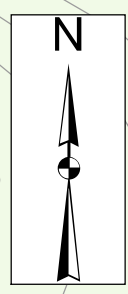
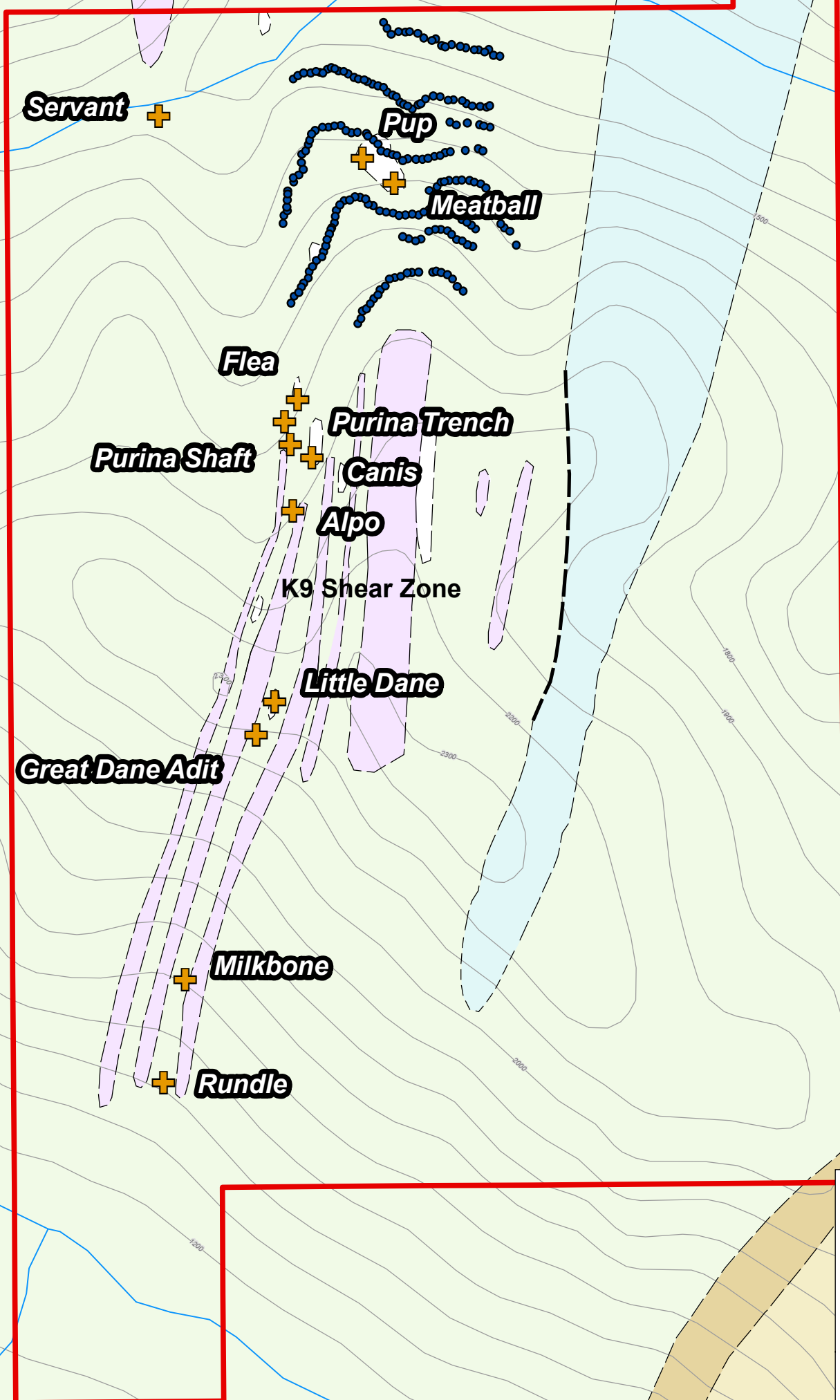
EPL : TSX-V

**Eagle Plains Resources Ltd.**

K9 Property  
Figure 5 - Property Geology and Soil Sample Locations  
Projection - NAD 83 UTM Zone 11  
Scale 1: 22 000  
26/11/2019





5518000  
5517000  
5516000  
5515000  
5514000  
5513000  
5512000  
5511000  
5510000

5518000  
5517000  
5516000  
5515000  
5514000  
5513000  
5512000  
5511000  
5510000



Refer to Figure 4 for Geology Legend  
\* Geology After Brown 2011.  
\* Modified by Higgs and McCuaig 2013.

**Legend**

-  K9 Tenure
-  2019 soils
-  Stream
-  Contour

538000 539000 540000 541000 542000 543000

## ***Property Mineralization***

Target mineralization on the K9 property is structurally controlled vein and replacement Cu-Ag-Pb-Zn mineralization hosted within quartzites and phyllitic quartzites of the Creston Formation. The vast majority of occurrences on the property are focused along the “K9 Shear Zone”, a metamorphic zone that falls between the St. Mary's River to the south and Dewar Creek to the north. This shear zone has seen at least two deformation events. One event is characterized by the dominant schistosity/foliation in the mafic sills as well as the sedimentary rocks, metamorphosing the units to orthoschists, orthogneisses, phyllite, psammite and meta-siltstone. This ductile event is characterized by dolomite/ankerite alteration. Following this ductile event was a brittle deformation event characterized by quartz and Fe-oxide infill along with ore forming minerals, such as chalcopyrite, galena and sphalerite.

At the Great Dane occurrence, mineralization consists of vein pods and stringers of chalcopyrite, pyrite, galena, and sphalerite hosted in Creston Formation quartzites. The vein pods contain metal values of up to 62.6 g/t Ag, 2.60% Cu, 9.6% Zn and 14.0% Pb. (BC MinFile 082FNE051). Sulphide mineralization at the Great Dane occurs as metre-scale prolate lobes of massive galena and lesser sphalerite, chalcopyrite, and pyrite. Secondary minerals include limonite, malachite, traces of azurite and erythrite. Coarse-grained galena typically displays significantly warped crystal faces and spiraling cleavage planes; commonly associated with high Ag values.

The Purina Shaft located 1.3 km north of the Great Dane, consists of a 7 m-deep shaft sunk into a 2.7 m wide pyrrhotite-chalcopyrite quartz replacement zone, with significant associated chalcopyrite, pyrrhotite mineralization and minor galena. No historic documentation has been found relating to the shaft.

The distribution of mineralization occurrences on the property is clearly associated with the presence of quartzite/phyllitic quartzite/silica replacement zones within the Creston Formation in conjunction with fold hinge zones of steeply plunging F2 minor folds within the K9 Shear Zone. A list of significant mineral occurrences can be found in Table 2 below:

*Table 2 – K9 Mineral Occurrence Highlights*

| <b><i>Showing</i></b> | <b><i>Type</i></b> | <b><i>Grade</i></b>                                   | <b><i>Year</i></b> |
|-----------------------|--------------------|-------------------------------------------------------|--------------------|
| Great Dane            | Chip               | 62.6 g/t Ag; 2.6% Cu; 9.6% Zn; 14% Pb over 2.0 metres | Historic           |
| Alpo                  | Grab               | 14.6 g/t Ag; 1.2% Cu                                  | 1997               |
| Milkbone              | Grab               | 288.0 g/t Ag; 38.5% Pb                                | 1997               |
| Purina                | Chip               | 8.8 g/t Ag, 0.7% Cu over 1.7 metres                   | 1996               |
| Flea                  | Grab               | 0.13% Cu                                              | 1997               |
| Meatball              | Chip               | 72.0 g/t Ag; 6.8% Pb over 1.0 metres                  | 1997               |
| Pup                   | Grab               | 1.07% Zn                                              | 1997               |
| Canis                 | Chip               | 0.21% Cu, 2.5 g/t Ag over 4.1 metres                  | 2013               |

## 2019 WORK PROGRAM

The 2019 work program involved 3 days of contour soil sampling. The program was a fly camp that was mobilized and demobilized by helicopter from the Saint Mary's forest service road. From camp, the property was accessed by foot every day. The crew for this program consisted of two geologists: Dave Keenan and James Reilly and one Geotech: Jake Marchi. The field program commenced June 4<sup>th</sup> and continued through June 7<sup>th</sup> 2019. A total of 209 soil samples were taken during this program.

## 2019 PROGRAM RESULTS AND DISCUSSION

During the 2019 program 209 soil samples were taken in the northern extent of the property on 8 contour lines with sample spacing of 25 m: 125 samples in claim 511209 and 84 samples in claim 504359. Most of the samples are taken in geology unit Mp-C, mapped as siltstone, argillite, quartz arenite, and quartz wacke (Figure 5). The geochemical survey is north of the K9 shear zone where multiple mineral showings are located (Figure 5). The 2019 soils were taken as infill lines to the historical anomalous soil lines that were outlined in the 2013 field program. The goal of infilling the historical geochemical survey was to give a more detailed understanding of potential mineralization in the area.

Copper results for the geochemical survey had an average value of 30.91 ppm Cu and a max value of 168.9 ppm Cu. Assay results for Pb returned an average value of 30.05 ppm Pb and a max value of 175.3 ppm Pb (Table 3). The 2019 soil grid revealed north/northwest trending anomalous values for both lead and copper (Figure 6a, 6b). These anomalous soils are located down strike of the previously mapped K9 shear zone and mafic sills (Figure 5).

When compared to the 2013 soil program, the 2019 results tend to show very similar or slightly higher percentile values for the elements of interest (Table 4). These results confirm the anomaly outlined in 2013 and show that this area is highly prospective for Au-Ag-Cu-Pb-Zn mineralization.

*Table 3 –2019 Soil Sample Statistics*

|                        | <b>Cu<br/>(ppm)</b> | <b>Pb<br/>(ppm)</b> | <b>Zn<br/>(ppm)</b> | <b>Ag<br/>(ppm)</b> | <b>As<br/>(ppm)</b> | <b>Au<br/>(ppb)</b> | <b>Cd<br/>(ppm)</b> | <b>Fe<br/>(pct)</b> |
|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>Count</b>           | 209                 | 209                 | 209                 | 209                 | 209                 | 209                 | 209                 | 209                 |
| <b>Min</b>             | 2                   | 5.1                 | 6                   | -0.1                | 0.8                 | -2                  | -0.1                | 0.71                |
| <b>Max</b>             | 168.9               | 175.3               | 761                 | 1.2                 | 129                 | 58                  | 3.9                 | 11.68               |
| <b>Median</b>          | 23.1                | 18.3                | 48                  | 0.1                 | 15.7                | 4                   | 0.1                 | 2.38                |
| <b>Mean</b>            | 30.91               | 30.05               | 94.73               | 0.12                | 20.13               | 5.32                | 0.21                | 2.47                |
| <b>75th percentile</b> | 36.9                | 33.5                | 90                  | 0.2                 | 26.4                | 6                   | 0.3                 | 2.74                |
| <b>90th percentile</b> | 71.02               | 70.18               | 213.2               | 0.4                 | 42.18               | 8                   | 0.6                 | 3.352               |
| <b>95th percentile</b> | 81.18               | 90.12               | 427                 | 0.56                | 52.02               | 10                  | 1                   | 3.936               |
| <b>98th percentile</b> | 101.35              | 115.39              | 572.76              | 0.70                | 72.88               | 15.52               | 1.47                | 5.0364              |
| <b>99th percentile</b> | 132.38              | 154.90              | 663.76              | 0.80                | 81.56               | 24.84               | 1.99                | 5.7384              |

*Table 4 – 2013 Soil Sample Statistics*

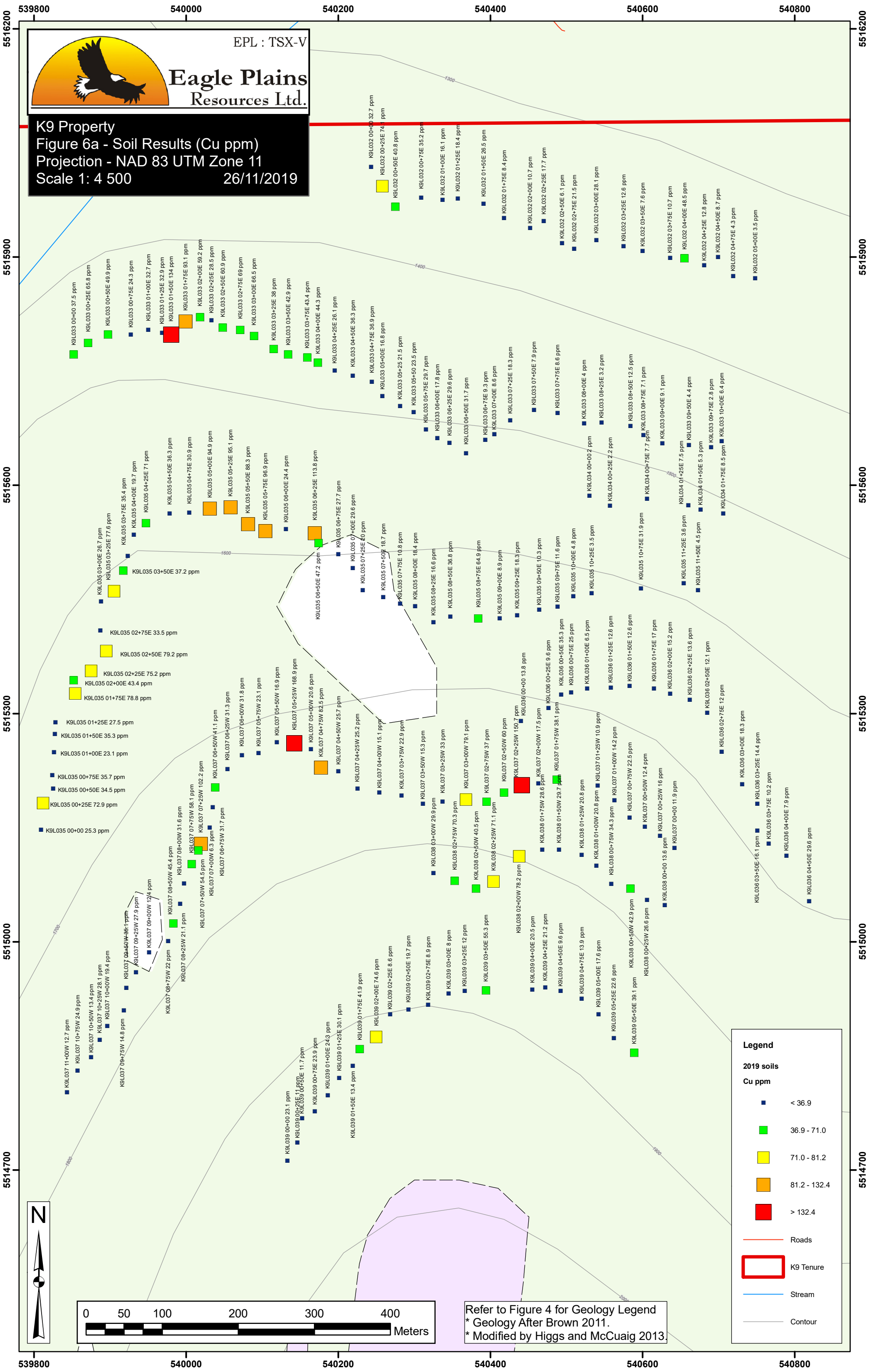
|               | Cu_ppm  | Pb_ppm  | Zn_ppm | Ag_ppm | As_ppm | Au_ppb | Cd_ppm | Fe_pct |
|---------------|---------|---------|--------|--------|--------|--------|--------|--------|
| Count         | 1326    | 1326    | 1325   | 1326   | 1326   | 940    | 940    | 1326   |
| Minimum       | 1       | 2.6     | 5      | 0.05   | 0.25   | 0.5    | 0.05   | 0.19   |
| Maximum       | 387.2   | 368     | 1666   | 1.7    | 220.5  | 121    | 4.8    | 40.1   |
| Mean          | 32.80   | 30.71   | 81.62  | 0.20   | 12.58  | 2.11   | 0.24   | 2.93   |
| Median        | 19.4    | 20.4    | 51     | 0.2    | 6.6    | 1      | 0.1    | 2.51   |
| 75 percentile | 33.5    | 35.1    | 88     | 0.25   | 16     | 1      | 0.3    | 3.31   |
| 90 percentile | 65.23   | 64.5    | 147.4  | 0.4    | 29.66  | 4      | 0.5    | 4.72   |
| 95 percentile | 113     | 92.425  | 219.4  | 0.6    | 35.965 | 5      | 0.8    | 6.36   |
| 99 percentile | 257.946 | 182.687 | 650.62 | 0.8    | 80     | 16.77  | 1.859  | 10     |



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**K9 Property**  
**Figure 6a - Soil Results (Cu ppm)**  
**Projection - NAD 83 UTM Zone 11**  
**Scale 1: 4 500**  
**26/11/2019**



**Legend**

**2019 soils**

**Cu ppm**

- < 36.9
- 36.9 - 71.0
- 71.0 - 81.2
- 81.2 - 132.4
- > 132.4

— Roads

— Stream

— Contour

K9 Tenure

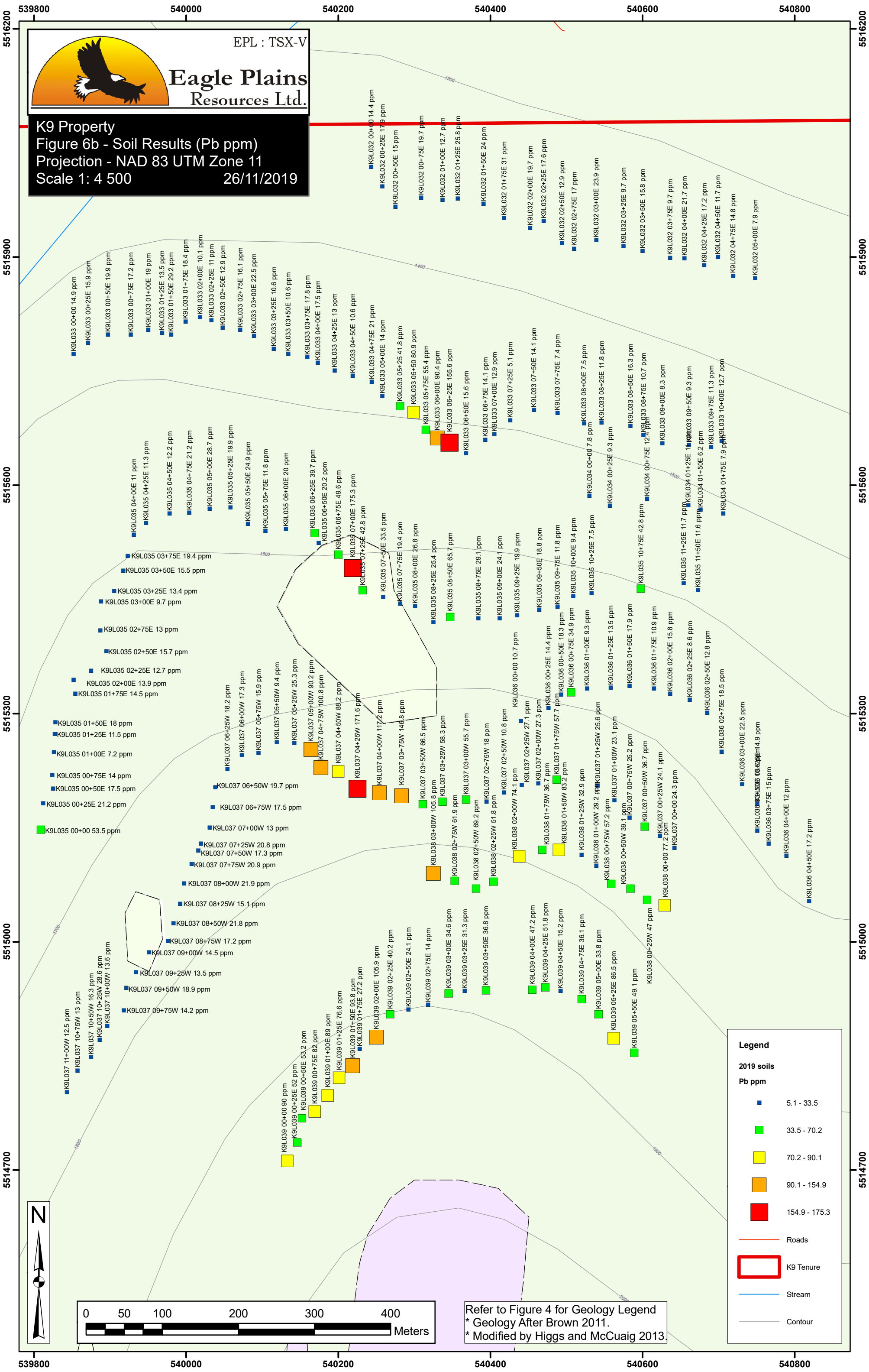
Refer to Figure 4 for Geology Legend  
\* Geology After Brown 2011.  
\* Modified by Higgs and McCuaig 2013.



EPL : TSX-V

**Eagle Plains Resources Ltd.**

**K9 Property**  
**Figure 6b - Soil Results (Pb ppm)**  
**Projection - NAD 83 UTM Zone 11**  
**Scale 1: 4 500**  
**26/11/2019**



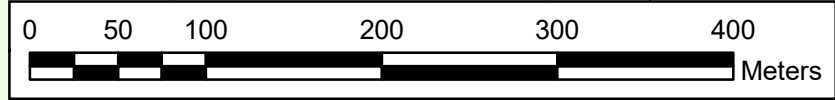
**Legend**

**2019 soils**

**Pb ppm**

- 5.1 - 33.5
- 33.5 - 70.2
- 70.2 - 90.1
- 90.1 - 154.9
- 154.9 - 175.3

- Roads
- K9 Tenure
- Stream
- Contour



Refer to Figure 4 for Geology Legend  
\* Geology After Brown 2011.  
\* Modified by Higgs and McCuaig 2013.

## CONCLUSIONS

The K9 property contains highly prospective targets for polymetallic veining and sulphide replacement zones based on the favorable geologic and structural setting, presence of high-grade mineralization in historic rock sampling and large broad multi-element geochemical anomalies in soil and silt.

The property boasts good infrastructure, with road access to much of the lower ground of the property from maintained Forest Service Roads. Access to power and services is close by with the city of Kimberley located just 37 km to the east-southeast of the property and the larger centre of Cranbrook located 50 km south of the property.

Mineralization on the property seems to be focused along what is being called the K9 Shear Zone: a north trending zone thought to extend between the St.Mary's River and Dewar Creek. This zone contains the historical workings at the Great Dane adit and Purina Shaft along with a number of other showings discovered during the 1996-97 and 2013 programs. The local geology indicates the presence of multiple deformation events resulting in the production of metamorphic rocks such as psammites, orthogneiss and paraschists. Minor steeply dipping north-northeast orientated F2 fold hinges are found along the zone and host mineralized quartz veining as seen at the Great Dane adit. It is inferred that there is a similar structural setting at the silica replacement zones at the Purina Shaft and Canis mineralized occurrences. High grade historic chip samples have returned as much as 62.6 g/t Ag, 2.6% Cu, 9.6% Zn and 14% Pb over 2.0 m from the Great Dane, 8.8 g/t Ag and 0.7% Cu over 1.0 m at the Purina Shaft and 72 g/t Ag and 6.8% Pb over 1.0 m from the Meatball showing, while recent sampling at the newly discovered Canis showing returned 0.21% Cu and 2.5 g/t Ag over 4.1 m.

A 3 day geochemical soil survey program was completed in the vicinity of the K9 Shear Zone. A total of 209 samples were taken along predetermined contour lines in order to infill the previous survey completed in 2013. Copper results for the geochemical survey had an average value of 30.91 ppm Cu and a max value of 168.9 ppm Cu. Assay results for Pb returned an average value of 30.05 ppm Pb and a max value of 175.3 ppm Pb (Table 3).

The broad geochemical anomaly in soil located in the northern portion of the property is highly prospective, covering an area up to 2300 m long and 300 m wide of anomalous values for Cu-Pb-Zn-Ag-Cd-Fe-As. This area was further defined by the 2019 geochemical infill survey. Results from 2019 (Table 3) tend to show very similar or slightly higher percentile values for the elements of interest when compared to the 2013 survey (Table 4). This anomaly falls over many of the known showings on the property, including the Purina Shaft and trench, the Alpo, Pup, Meatball, Flea and Canis.

Rock exposure on the property is poor, and is especially the case in the area hosting the extensive multi-element anomaly. It is highly encouraging that where bedrock is exposed in the central zone, it is commonly mineralized. The central zone represents a highly prospective target for underlying economic scale mineralization.

## **RECOMMENDATIONS**

Further work on the property is recommended and should focus on the following priorities:

### Phase I

- Further analysis of whole rock data to determine if alteration signatures can be located in soil;
- Petrophysical analysis of a select number of samples to be used to better constrain and define the results from geophysical surveys conducted to date on the property;
- Ground based Induced Polarization survey over the central portion of the property that hosts the broad multi-element soil anomaly;
- Follow up on a number of silt and soil geochemical anomalies from the 2013 program to identify further mineralization outboard of known showing:
  1. Basin east of K9 Shear Zone that hosts historic crown grants and anomalous Pb-As-Zn-Cd
  2. Anomalous soil samples east of Morris creek
  3. Anomalous silt samples north of Dewar Creek
  4. Anomalous soil samples in the very eastern part of the property

### Phase II

- Trenching and/or diamond drilling of best targets within the Purina-Canis zone defined by soil geochemical sampling and geophysical surveys

## REFERENCES

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- Gallagher, C.S. (2011): Geophysical Report on the K9 Property. BCEMPR Assessment Report
- Geotech, 2011. REPORT ON A HELICOPTER-BORNE VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM plus) AND AEROMAGNETIC GEOPHYSICAL SURVEY, K9 Block Crawford Bay, British Columbia For: TerraLogic Exploration Services.
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- BCMINFILE 082FNE051, 082FNE137

## **Appendix I: Statement of Qualifications**

I, David C. Keenan, in the city of Fernie in the Province of British Columbia hereby certify that:

- 1) I am currently employed as a Junior Geologist with TerraLogic Exploration Inc. with business address: suite 200, 44-12<sup>th</sup> Avenue South, Cranbrook, BC, V1C 2R7
- 2) I am a graduate of Dalhousie University with a degree of Bachelor of Science in Earth Science (2017).
- 3) This report, authored by myself, is based on personal examination of all available company and government reports pertinent to the K9 Property.
- 4) I participated and completed fieldwork on the 2019 exploration program at the Orchid Property between June 4<sup>th</sup> and June 7<sup>th</sup>, 2019.

Dated this 4<sup>th</sup> day of December 2019, in Fernie, British Columbia.

## **Appendix II – Expenditures**

| Exploration Work type               | Comment                                                                 | Days        |             |                  | Totals                                               |
|-------------------------------------|-------------------------------------------------------------------------|-------------|-------------|------------------|------------------------------------------------------|
| <b>Personnel (Name)* / Position</b> | <b>Field Days (list actual days)</b>                                    | <b>Days</b> | <b>Rate</b> | <b>Subtotal*</b> |                                                      |
| David Keenan/ Junior Geologist      |                                                                         | 4           | \$437.50    | \$1,750.00       |                                                      |
| James Reilly/ Junior Geologist      |                                                                         | 4.5         | \$425.00    | \$1,912.50       |                                                      |
| Jake Marchi/ Geological Technician  |                                                                         | 4           | \$400.00    | \$1,600.00       |                                                      |
|                                     |                                                                         |             | \$0.00      | \$0.00           |                                                      |
|                                     |                                                                         |             | \$0.00      | \$0.00           |                                                      |
|                                     |                                                                         |             | \$0.00      | \$0.00           |                                                      |
|                                     |                                                                         |             | \$5,262.50  |                  | <b>\$5,262.50</b>                                    |
| <b>Office Studies</b>               | <b>List Personnel (note - Office only, do not include field days)</b>   |             |             |                  |                                                      |
| Field preparation                   | James Reilly                                                            | 7.5         | \$51.00     | \$382.50         |                                                      |
| Database preparation                | Vanessa Beach                                                           | 3.5         | \$75.00     | \$262.50         |                                                      |
| Computer modelling                  |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| General research                    | Mike McCuaig                                                            | 1.0         | \$90.00     | \$90.00          |                                                      |
| Field gear and GIS                  | Brad Robison                                                            | 9.0         | \$69.00     | \$621.00         |                                                      |
| Report preparation                  | David Keenan                                                            | 59.0        | \$52.50     | \$3,097.50       |                                                      |
| Field preparation                   | Jake Marchi                                                             | 12.0        | \$48.00     | \$576.00         |                                                      |
|                                     |                                                                         |             | \$5,029.50  |                  | <b>\$5,029.50</b>                                    |
| <b>Airborne Exploration Surveys</b> | <b>Line Kilometres / Enter total invoiced amount</b>                    |             |             |                  |                                                      |
| Aeromagnetics                       |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| Radiometrics                        |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| Electromagnetics                    |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| Gravity                             |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| Digital terrain modelling           |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| Other (specify)                     |                                                                         |             | \$0.00      | \$0.00           |                                                      |
|                                     |                                                                         |             | \$0.00      |                  | <b>\$0.00</b>                                        |
| <b>Remote Sensing</b>               | <b>Area in Hectares / Enter total invoiced amount or list personnel</b> |             |             |                  |                                                      |
| Aerial photography                  |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| LANDSAT                             |                                                                         |             | \$0.00      | \$0.00           |                                                      |
| Other (specify)                     |                                                                         |             | \$0.00      | \$0.00           |                                                      |
|                                     |                                                                         |             | \$0.00      |                  | <b>\$0.00</b>                                        |
| <b>Ground Exploration Surveys</b>   | <b>Area in Hectares/List Personnel</b>                                  |             |             |                  |                                                      |
| Geological mapping                  |                                                                         |             |             |                  |                                                      |
| Regional                            |                                                                         |             |             |                  | <i>note: expenditures here</i>                       |
| Reconnaissance                      |                                                                         |             |             |                  | <i>should be captured in Personnel</i>               |
| Prospect                            |                                                                         |             |             |                  | <i>field expenditures above</i>                      |
| Underground                         | Define by length and width                                              |             |             |                  |                                                      |
| Trenches                            | Define by length and width                                              |             |             | \$0.00           | <b>\$0.00</b>                                        |
| <b>Ground geophysics</b>            | <b>Line Kilometres / Enter total amount invoiced list personnel</b>     |             |             |                  |                                                      |
| Radiometrics                        |                                                                         |             |             |                  |                                                      |
| Magnetics                           |                                                                         |             |             |                  |                                                      |
| Gravity                             |                                                                         |             |             |                  |                                                      |
| Digital terrain modelling           |                                                                         |             |             |                  |                                                      |
| Electromagnetics                    |                                                                         |             |             |                  | <i>note: expenditures for your crew in the field</i> |
| SP/AP/EP                            |                                                                         |             |             |                  | <i>should be captured above in Personnel</i>         |
| IP                                  |                                                                         |             |             |                  | <i>field expenditures above</i>                      |
| AMT/CSAMT                           |                                                                         |             |             |                  |                                                      |
| Resistivity                         |                                                                         |             |             |                  |                                                      |
| Complex resistivity                 |                                                                         |             |             |                  |                                                      |
| Seismic reflection                  |                                                                         |             |             |                  |                                                      |

|                                 |                                              |            |             |                 |                   |
|---------------------------------|----------------------------------------------|------------|-------------|-----------------|-------------------|
| Seismic refraction              |                                              |            |             |                 |                   |
| Well logging                    | Define by total length                       |            |             |                 |                   |
| Geophysical interpretation      |                                              |            |             |                 |                   |
| Petrophysics                    |                                              |            |             |                 |                   |
| Other (specify)                 |                                              |            |             |                 |                   |
|                                 |                                              |            |             | \$0.00          | <b>\$0.00</b>     |
| <b>Geochemical Surveying</b>    | <b>Number of Samples</b>                     | <b>No.</b> | <b>Rate</b> | <b>Subtotal</b> |                   |
| Drill (cuttings, core, etc.)    |                                              |            | \$0.00      | \$0.00          |                   |
| Stream sediment                 |                                              |            | \$0.00      | \$0.00          |                   |
| Soil                            | <i>note: This is for assays or</i>           |            | \$0.00      | \$6,472.73      |                   |
| Rock                            | <i>laboratory costs</i>                      |            | \$0.00      | \$0.00          |                   |
| Water                           |                                              |            | \$0.00      | \$0.00          |                   |
| Biogeochemistry                 |                                              |            | \$0.00      | \$0.00          |                   |
| Whole rock                      |                                              |            | \$0.00      | \$0.00          |                   |
| Petrology                       |                                              |            | \$0.00      | \$0.00          |                   |
| Other (specify)                 |                                              |            | \$0.00      | \$0.00          |                   |
|                                 |                                              |            |             | \$6,472.73      | <b>\$6,472.73</b> |
| <b>Drilling</b>                 | <b>No. of Holes, Size of Core and Metres</b> | <b>No.</b> | <b>Rate</b> | <b>Subtotal</b> |                   |
| Diamond                         |                                              |            | \$0.00      | \$0.00          |                   |
| Reverse circulation (RC)        |                                              |            | \$0.00      | \$0.00          |                   |
| Rotary air blast (RAB)          |                                              |            | \$0.00      | \$0.00          |                   |
| Other (specify)                 |                                              |            | \$0.00      | \$0.00          |                   |
|                                 |                                              |            |             | \$0.00          | <b>\$0.00</b>     |
| <b>Other Operations</b>         | <b>Clarify</b>                               | <b>No.</b> | <b>Rate</b> | <b>Subtotal</b> |                   |
| Trenching                       |                                              |            | \$0.00      | \$0.00          |                   |
| Bulk sampling                   |                                              |            | \$0.00      | \$0.00          |                   |
| Underground development         |                                              |            | \$0.00      | \$0.00          |                   |
| Other (specify)                 |                                              |            | \$0.00      | \$0.00          |                   |
|                                 |                                              |            |             | \$0.00          | <b>\$0.00</b>     |
| <b>Reclamation</b>              | <b>Clarify</b>                               | <b>No.</b> | <b>Rate</b> | <b>Subtotal</b> |                   |
| After drilling                  |                                              |            | \$0.00      | \$0.00          |                   |
| Monitoring                      |                                              |            | \$0.00      | \$0.00          |                   |
| Other (specify)                 |                                              |            | \$0.00      | \$0.00          |                   |
|                                 |                                              |            |             |                 |                   |
| <b>Transportation</b>           |                                              | <b>No.</b> | <b>Rate</b> | <b>Subtotal</b> |                   |
| Airfare                         |                                              |            | \$0.00      | \$0.00          |                   |
| Taxi                            |                                              |            | \$0.00      | \$0.00          |                   |
| truck rental                    |                                              |            | \$0.00      | \$0.00          |                   |
| kilometers                      |                                              |            | \$0.00      | \$0.00          |                   |
| ATV                             |                                              |            | \$0.00      | \$0.00          |                   |
| fuel                            |                                              |            | \$0.00      | \$95.24         |                   |
| Helicopter (hours)              |                                              |            | \$0.00      | \$2,673.00      |                   |
| Fuel (litres/hour)              |                                              |            | \$0.00      | \$382.80        |                   |
| Other                           |                                              |            |             |                 |                   |
|                                 |                                              |            |             | \$3,151.04      | <b>\$3,151.04</b> |
| <b>Accommodation &amp; Food</b> | <b>Rates per day</b>                         |            |             |                 |                   |
| Hotel                           |                                              |            | \$0.00      | \$0.00          |                   |
| Camp                            |                                              |            | \$0.00      | \$0.00          |                   |
| Meals                           | day rate or actual costs-specify             |            | \$0.00      | \$1,069.06      |                   |
|                                 |                                              |            |             | \$1,069.06      | <b>\$1,069.06</b> |

|                                  |                                          |  |        |            |                    |
|----------------------------------|------------------------------------------|--|--------|------------|--------------------|
| <b>Miscellaneous</b>             |                                          |  |        |            |                    |
| Telephone                        |                                          |  | \$0.00 | \$0.00     |                    |
| Other (Specify)                  |                                          |  |        |            |                    |
|                                  |                                          |  |        | \$0.00     | <b>\$0.00</b>      |
| <b>Equipment Rentals</b>         |                                          |  |        |            |                    |
| Field Gear (Specify)             | Truck 4X4 one ton - per day Unit #09     |  | \$0.00 | \$600.00   |                    |
| Field Gear (Specify)             | Mileage per km-Unit #09                  |  | \$0.00 | \$61.20    |                    |
| Field Gear (Specify)             | Chainsaw - per day                       |  | \$0.00 | \$80.00    |                    |
| Field Gear (Specify)             | Radio wi charger - per day               |  | \$0.00 | \$240.00   |                    |
| Field Gear (Specify)             | Field kits - per day                     |  | \$0.00 | \$120.00   |                    |
| Field Gear (Specify)             | Computer wi printer - per day            |  | \$0.00 | \$40.00    |                    |
| Field Gear (Specify)             | Garmin In Reach - per day                |  | \$0.00 | \$60.00    |                    |
| Field Gear (Specify)             | Firearm (12 ga defender) - per day       |  | \$0.00 | \$40.00    |                    |
| Field Gear (Specify)             | Fire suppression tank (backpack) per day |  | \$0.00 | \$20.00    |                    |
| Field Gear (Specify)             | Field or Fly camp kit - per day          |  | \$0.00 | \$600.00   |                    |
| Field Gear (Specify)             | Fieldhouse Accommodations - per day      |  | \$0.00 | \$100.00   |                    |
| Other (Specify)                  | Handling Charges                         |  |        | \$1,620.98 |                    |
|                                  |                                          |  |        | \$3,582.18 | <b>\$3,582.18</b>  |
| <b>Freight, rock samples</b>     |                                          |  |        |            |                    |
|                                  |                                          |  | \$0.00 | \$113.74   |                    |
|                                  |                                          |  | \$0.00 | \$0.00     |                    |
|                                  |                                          |  |        | \$113.74   | <b>\$113.74</b>    |
| <b><i>TOTAL Expenditures</i></b> |                                          |  |        |            | <b>\$24,680.75</b> |

## **Appendix III – Geochemical Protocol**

## **3.0 Sampling Methods**

### **3.0.1 Soil Sampling**

Soil sampling traverses were completed along predetermined grid lines oriented along elevation contours. Each of the lines was spaced by specific elevation and samples were collected every 25 m on the line. Soil lines were navigated using a handheld GPS and compass and samples were collected using a Dutch auger. Wherever possible, the soil samples were collected from the B-horizon of the soil profile, or a layer below organic material if B-horizon could not be reached. Where there was significant thicknesses of organic material and mineral soil could not be accessed no sample was collected. Duplicate samples were collected at a rate of one per grid line. All of the sampling data are recorded in an app developed by Terralogic Exploration Inc. on ruggedized Android phones. A variety of data was collected for each sample including sample size, quality, depth, slope, soil horizon color and other. Other factors include sample size, soil development and whether or not organic matter is present in the sample. At the end of each day the sampling data was imported into a geochemical database where any sampling discrepancies could be identified and fixed.

At the end of each day, all of the samples were laid out and sample numbers were compared to those from the recorded data. Samples with damaged bags or unclear labels were re-labeled and put back into order. The samples were then placed into rice bags labeled with shipment number and shipping/receiving addresses. At the end of the program the samples were shipped to Bureau Veritas Laboratory (BV) at 9050 Shaughnessy St, Vancouver, BC V6P 6E5, via Overland West Freight Lines.

## **3.1 Analytical Methods**

### **3.1.1 Soils**

All soil samples were dried, and sieved with -80 mesh (prep code SS80). A 30 g split was then subjected to a 1:1 aqua regia digestion ICP-MS analysis(AQ 200) and fire assay fusion by ICP ES(FA330). See below for attachment of the labs analytical procedures.

## **3.2 Bureau Veritas Laboratory Analytical Procedures**

## Aqua Regia

Using a modified aqua regia digestion (1:1:1 HNO<sub>3</sub>:HCl:H<sub>2</sub>O), a partial digest can provide valuable information regarding mobile and easily soluble species, such as sulphides. Economically priced ICP-ES (AQ300) or ICP-ES/MS (AQ200) analyses are designed to complement your exploration project. Sample splits of 0.5 g, 15 g or 30 g are leached in modified aqua regia. Select a larger split size for more representative Au analysis. Refractory and graphitic samples can limit Au solubility.

| CODE         | ELEM                                         | DETECTION LIMIT | UPPER LIMIT | CAD            |
|--------------|----------------------------------------------|-----------------|-------------|----------------|
| <b>AQ300</b> | <b>Aqua Regia ICP-ES, 33 elements, 0.5 g</b> |                 |             | <b>\$10.20</b> |
|              | Ag                                           | 0.3 ppm         | 100 ppm     |                |
|              | Al                                           | 0.01 %          | 10 %        |                |
|              | As                                           | 2 ppm           | 10000 ppm   |                |
|              | B                                            | 20 ppm          | 2000 ppm    |                |
|              | Ba                                           | 1 ppm           | 10000 ppm   |                |
|              | Bi                                           | 3 ppm           | 2000 ppm    |                |
|              | Ca                                           | 0.01 %          | 40 %        |                |
|              | Cd                                           | 0.5 ppm         | 2000 ppm    |                |
|              | Co                                           | 1 ppm           | 2000 ppm    |                |
|              | Cr                                           | 1 ppm           | 10000 ppm   |                |
|              | Cu                                           | 1 ppm           | 10000 ppm   |                |
|              | Fe                                           | 0.01 %          | 40 %        |                |
|              | Ga                                           | 5 ppm           | 1000 ppm    |                |
|              | Hg                                           | 1 ppm           | 50 ppm      |                |
|              | K                                            | 0.01 %          | 10 %        |                |
|              | La                                           | 1 ppm           | 10000 ppm   |                |
|              | Mg                                           | 0.01 %          | 30 %        |                |
|              | Mn                                           | 2 ppm           | 10000 ppm   |                |
|              | Mo                                           | 1 ppm           | 2000 ppm    |                |
|              | Na                                           | 0.01 %          | 5 %         |                |
|              | Ni                                           | 1 ppm           | 10000 ppm   |                |
|              | P                                            | 0.001 %         | 5 %         |                |
|              | Pb                                           | 3 ppm           | 10000 ppm   |                |
|              | S                                            | 0.05 %          | 10 %        |                |
|              | Sb                                           | 3 ppm           | 2000 ppm    |                |
|              | Sc                                           | 5 ppm           | 100 ppm     |                |
|              | Sr                                           | 1 ppm           | 2000 ppm    |                |
|              | Th                                           | 2 ppm           | 2000 ppm    |                |
|              | Ti                                           | 0.001 %         | 5 %         |                |
|              | Tl                                           | 5 ppm           | 1000 ppm    |                |
|              | V                                            | 1 ppm           | 10000 ppm   |                |
|              | W                                            | 2 ppm           | 100 ppm     |                |
|              | Zn                                           | 1 ppm           | 10000 ppm   |                |
| <b>+ U</b>   | <b>Aqua Regia ICP-ES, add-on</b>             |                 |             | <b>\$0.60</b>  |
|              | U                                            | 8 ppm           | 2000 ppm    |                |

Aqua Regia digestion is considered a partial digestion. Solubility of some elements will be limited by mineral species present.

| CODE         | ELEM                                            | DETECTION LIMIT | UPPER LIMIT | CAD            |
|--------------|-------------------------------------------------|-----------------|-------------|----------------|
| <b>AQ200</b> | <b>Aqua Regia ICP-ES/MS, 36 elements, 0.5 g</b> |                 |             | <b>\$17.00</b> |
| <b>AQ201</b> | <b>Aqua Regia ICP-ES/MS, 36 elements, 15 g</b>  |                 |             | <b>\$21.75</b> |
| <b>AQ202</b> | <b>Aqua Regia ICP-ES/MS, 36 elements, 30 g</b>  |                 |             | <b>\$26.50</b> |
|              | Ag                                              | 0.1 ppm         | 100 ppm     |                |
|              | Al                                              | 0.01 %          | 10 %        |                |
|              | As                                              | 0.5 ppm         | 10000 ppm   |                |
|              | Au                                              | 0.5 ppb         | 100000 ppb  |                |
|              | B*                                              | 20 ppm          | 2000 ppm    |                |
|              | Ba                                              | 1 ppm           | 10000 ppm   |                |
|              | Bi                                              | 0.1 ppm         | 2000 ppm    |                |
|              | Ca                                              | 0.01 %          | 40 %        |                |
|              | Cd                                              | 0.1 ppm         | 2000 ppm    |                |
|              | Co                                              | 0.1 ppm         | 2000 ppm    |                |
|              | Cr                                              | 1 ppm           | 10000 ppm   |                |
|              | Cu                                              | 0.1 ppm         | 10000 ppm   |                |
|              | Fe                                              | 0.01 %          | 40 %        |                |
|              | Ga                                              | 1 ppm           | 1000 ppm    |                |
|              | Hg                                              | 0.01 ppm        | 50 ppm      |                |
|              | K                                               | 0.01 %          | 10 %        |                |
|              | La                                              | 1 ppm           | 10000 ppm   |                |
|              | Mg                                              | 0.01 %          | 30 %        |                |
|              | Mn                                              | 1 ppm           | 10000 ppm   |                |
|              | Mo                                              | 0.1 ppm         | 2000 ppm    |                |
|              | Na                                              | 0.001 %         | 5 %         |                |
|              | Ni                                              | 0.1 ppm         | 10000 ppm   |                |
|              | P                                               | 0.001 %         | 5 %         |                |
|              | Pb                                              | 0.1 ppm         | 10000 ppm   |                |
|              | S                                               | 0.05 %          | 10 %        |                |
|              | Sb                                              | 0.1 ppm         | 2000 ppm    |                |
|              | Sc                                              | 0.1 ppm         | 100 ppm     |                |
|              | Se                                              | 0.5 ppm         | 100 ppm     |                |
|              | Sr                                              | 1 ppm           | 2000 ppm    |                |
|              | Te                                              | 0.2 ppm         | 1000 ppm    |                |
|              | Th                                              | 0.1 ppm         | 2000 ppm    |                |
|              | Ti                                              | 0.001 %         | 5 %         |                |
|              | Tl                                              | 0.1 ppm         | 1000 ppm    |                |
|              | V**                                             | 1 ppm           | 10000 ppm   |                |
|              | W                                               | 0.1 ppm         | 100 ppm     |                |
|              | Zn                                              | 1 ppm           | 10000 ppm   |                |
| <b>+ U</b>   | <b>Aqua Regia ICP-ES, add-on</b>                |                 |             | <b>\$0.60</b>  |
|              | U                                               | 0.1 ppm         | 2000 ppm    |                |

\*Detection limit = 1 ppm for 15/30 g analysis.

\*\*Soils = 2 ppm.

## ULTRA-TRACE BY ICP-MS

ICP-MS analysis of a 0.5, 15 or 30 g sample after modified aqua regia digestion (1:1:1 HNO<sub>3</sub>:HCl:H<sub>2</sub>O) for low to ultra-low determination on soils, sediments and lean rocks. Larger splits (15 or 30 g) give a more representative analysis of elements subject to nugget effect (e.g., Au). Gold solubility can be limited in refractory and graphitic samples. The lead isotope method adds <sup>204</sup>Pb, <sup>206</sup>Pb, <sup>207</sup>Pb, <sup>208</sup>Pb. This data is suitable for geochemical exploration of U and other commodities where gross differences in non-radiogenic to radiogenic Pb ratios are of benefit.

| CODE         | ELEM                                            | DETECTION LIMIT | UPPER LIMIT | CAD            |
|--------------|-------------------------------------------------|-----------------|-------------|----------------|
| <b>AQ250</b> | <b>Aqua Regia ICP-ES/MS, 37 elements, 0.5 g</b> |                 |             | <b>\$21.00</b> |
| <b>AQ251</b> | <b>Aqua Regia ICP-ES/MS, 37 elements, 15 g</b>  |                 |             | <b>\$25.75</b> |
| <b>AQ252</b> | <b>Aqua Regia ICP-ES/MS, 37 elements, 30 g</b>  |                 |             | <b>\$30.50</b> |
|              | <b>Ag</b>                                       | 2 ppb           | 100000 ppb  |                |
|              | <b>Al</b>                                       | 0.01 %          | 10 %        |                |
|              | <b>As</b>                                       | 0.1 ppm         | 10000 ppm   |                |
|              | <b>Au</b>                                       | 0.2 ppb         | 100000 ppb  |                |
|              | <b>B*</b>                                       | 20 ppm          | 2000 ppm    |                |
|              | <b>Ba</b>                                       | 0.5 ppm         | 10000 ppm   |                |
|              | <b>Bi</b>                                       | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Ca</b>                                       | 0.01 %          | 40 %        |                |
|              | <b>Cd</b>                                       | 0.01 ppm        | 2000 ppm    |                |
|              | <b>Co</b>                                       | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Cr</b>                                       | 0.5 ppm         | 10000 ppm   |                |
|              | <b>Cu</b>                                       | 0.01 ppm        | 10000 ppm   |                |
|              | <b>Fe</b>                                       | 0.01 %          | 40 %        |                |
|              | <b>Ga</b>                                       | 0.1 ppm         | 1000 ppm    |                |
|              | <b>Hg</b>                                       | 5 ppb           | 50000 ppb   |                |
|              | <b>K</b>                                        | 0.01 %          | 10 %        |                |
|              | <b>La</b>                                       | 0.5 ppm         | 10000 ppm   |                |
|              | <b>Mg</b>                                       | 0.01 %          | 30 %        |                |
|              | <b>Mn</b>                                       | 1 ppm           | 10000 ppm   |                |
|              | <b>Mo</b>                                       | 0.01 ppm        | 2000 ppm    |                |
|              | <b>Na</b>                                       | 0.001 %         | 5 %         |                |
|              | <b>Ni</b>                                       | 0.1 ppm         | 10000 ppm   |                |
|              | <b>P</b>                                        | 0.001 %         | 5 %         |                |
|              | <b>Pb</b>                                       | 0.01 ppm        | 10000 ppm   |                |
|              | <b>S</b>                                        | 0.02 %          | 10 %        |                |
|              | <b>Sb</b>                                       | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Sc</b>                                       | 0.1 ppm         | 100 ppm     |                |
|              | <b>Se</b>                                       | 0.1 ppm         | 100 ppm     |                |
|              | <b>Sr</b>                                       | 0.5 ppm         | 2000 ppm    |                |
|              | <b>Te</b>                                       | 0.02 ppm        | 1000 ppm    |                |
|              | <b>Th</b>                                       | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Ti</b>                                       | 0.001 %         | 5 %         |                |
|              | <b>Tl</b>                                       | 0.02 ppm        | 1000 ppm    |                |
|              | <b>U</b>                                        | 0.1 ppm         | 2000 ppm    |                |
|              | <b>V</b>                                        | 1 ppm           | 10000 ppm   |                |
|              | <b>W</b>                                        | 0.1 ppm         | 100 ppm     |                |
|              | <b>Zn</b>                                       | 0.1 ppm         | 10000 ppm   |                |
| <b>+ PGM</b> | <b>Pt Pd, add-on</b>                            |                 |             | <b>\$2.35</b>  |

| CODE             | ELEM                                    | DETECTION LIMIT | UPPER LIMIT | CAD            |
|------------------|-----------------------------------------|-----------------|-------------|----------------|
| <b>AQ250-EXT</b> | <b>Extended Pkg, 53 elements, 0.5 g</b> |                 |             | <b>\$24.75</b> |
| <b>AQ251-EXT</b> | <b>Extended Pkg, 53 elements, 15 g</b>  |                 |             | <b>\$29.50</b> |
| <b>AQ252-EXT</b> | <b>Extended Pkg, 53 elements, 30 g</b>  |                 |             | <b>\$34.25</b> |
|                  | <b>Be</b>                               | 0.1 ppm         | 1000 ppm    |                |
|                  | <b>Ce</b>                               | 0.1 ppm         | 2000 ppm    |                |
|                  | <b>Cs</b>                               | 0.02 ppm        | 2000 ppm    |                |
|                  | <b>Ge</b>                               | 0.1 ppm         | 100 ppm     |                |
|                  | <b>Hf</b>                               | 0.02 ppm        | 1000 ppm    |                |
|                  | <b>In</b>                               | 0.02 ppm        | 1000 ppm    |                |
|                  | <b>Li</b>                               | 0.1 ppm         | 2000 ppm    |                |
|                  | <b>Nb</b>                               | 0.02 ppm        | 2000 ppm    |                |
|                  | <b>Pd</b>                               | 10 ppb          | 100000 ppb  |                |
|                  | <b>Pt</b>                               | 2 ppb           | 100000 ppb  |                |
|                  | <b>Rb</b>                               | 0.1 ppm         | 2000 ppm    |                |
|                  | <b>Re</b>                               | 1 ppb           | 10000 ppb   |                |
|                  | <b>Sn</b>                               | 0.1 ppm         | 100 ppm     |                |
|                  | <b>Ta</b>                               | 0.05 ppm        | 2000 ppm    |                |
|                  | <b>Y</b>                                | 0.01 ppm        | 2000 ppm    |                |
|                  | <b>Zr</b>                               | 0.1 ppm         | 2000 ppm    |                |

| CODE         | ELEM                        | DETECTION LIMIT | UPPER LIMIT | CAD            |
|--------------|-----------------------------|-----------------|-------------|----------------|
| <b>+ REE</b> | <b>Rare Earth, add-on</b>   |                 |             | <b>\$6.95</b>  |
|              | <b>Dy</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Er</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Eu</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Gd</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Ho</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Lu</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Nd</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Pr</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Sm</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Tb</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Tm</b>                   | 0.02 ppm        | 2000 ppm    |                |
|              | <b>Yb</b>                   | 0.02 ppm        | 2000 ppm    |                |
| <b>+ ISO</b> | <b>Lead Isotope, add-on</b> |                 |             | <b>\$14.35</b> |

\*Detection limit = 1 ppm for 15/30 g analysis.

## Multi-Acid

Multi-acid digestion packages are capable of dissolving most minerals. We offer a choice of ICP-ES (MA300), ICP-ES/MS (MA200) or Ultra-trace ICP-ES/MS (MA250) analysis to give near total values for most elements. A 0.25 g split is heated in HNO<sub>3</sub>, HClO<sub>4</sub> and HF to fuming and taken to dryness. The residue is dissolved in HCl.

| CODE         | ELEM                                          | DETECTION LIMIT | UPPER LIMIT | CAD            |
|--------------|-----------------------------------------------|-----------------|-------------|----------------|
| <b>MA300</b> | <b>Multi-Acid ICP-ES, 35 elements, 0.25 g</b> |                 |             | <b>\$14.35</b> |
|              | <b>Ag</b>                                     | 0.5 ppm         | 200 ppm     |                |
|              | <b>Al</b>                                     | 0.01 %          | 20 %        |                |
|              | <b>As</b>                                     | 5 ppm           | 10000 ppm   |                |
|              | <b>Ba</b>                                     | 1 ppm           | 10000 ppm   |                |
|              | <b>Be</b>                                     | 1 ppm           | 1000 ppm    |                |
|              | <b>Bi</b>                                     | 5 ppm           | 4000 ppm    |                |
|              | <b>Ca</b>                                     | 0.01 %          | 40 %        |                |
|              | <b>Cd</b>                                     | 0.4 ppm         | 4000 ppm    |                |
|              | <b>Co</b>                                     | 2 ppm           | 4000 ppm    |                |
|              | <b>Cr</b>                                     | 2 ppm           | 10000 ppm   |                |
|              | <b>Cu</b>                                     | 2 ppm           | 10000 ppm   |                |
|              | <b>Fe</b>                                     | 0.01 %          | 60 %        |                |
|              | <b>K</b>                                      | 0.01 %          | 10 %        |                |
|              | <b>La</b>                                     | 2 ppm           | 2000 ppm    |                |
|              | <b>Mg</b>                                     | 0.01 %          | 30 %        |                |
|              | <b>Mn</b>                                     | 5 ppm           | 10000 ppm   |                |
|              | <b>Mo</b>                                     | 2 ppm           | 4000 ppm    |                |
|              | <b>Na</b>                                     | 0.01 %          | 10 %        |                |
|              | <b>Nb</b>                                     | 2 ppm           | 2000 ppm    |                |
|              | <b>Ni</b>                                     | 2 ppm           | 10000 ppm   |                |
|              | <b>P</b>                                      | 0.002 %         | 5 %         |                |
|              | <b>Pb</b>                                     | 5 ppm           | 10000 ppm   |                |
|              | <b>S</b>                                      | 0.1 %           | 10 %        |                |
|              | <b>Sb</b>                                     | 5 ppm           | 4000 ppm    |                |
|              | <b>Sc</b>                                     | 1 ppm           | 200 ppm     |                |
|              | <b>Sn</b>                                     | 2 ppm           | 2000 ppm    |                |
|              | <b>Sr</b>                                     | 2 ppm           | 10000 ppm   |                |
|              | <b>Th</b>                                     | 2 ppm           | 4000 ppm    |                |
|              | <b>Ti</b>                                     | 0.01 %          | 10 %        |                |
|              | <b>U</b>                                      | 20 ppm          | 4000 ppm    |                |
|              | <b>V</b>                                      | 2 ppm           | 10000 ppm   |                |
|              | <b>W</b>                                      | 4 ppm           | 200 ppm     |                |
|              | <b>Y</b>                                      | 2 ppm           | 2000 ppm    |                |
|              | <b>Zn</b>                                     | 2 ppm           | 10000 ppm   |                |
|              | <b>Zr</b>                                     | 2 ppm           | 2000 ppm    |                |

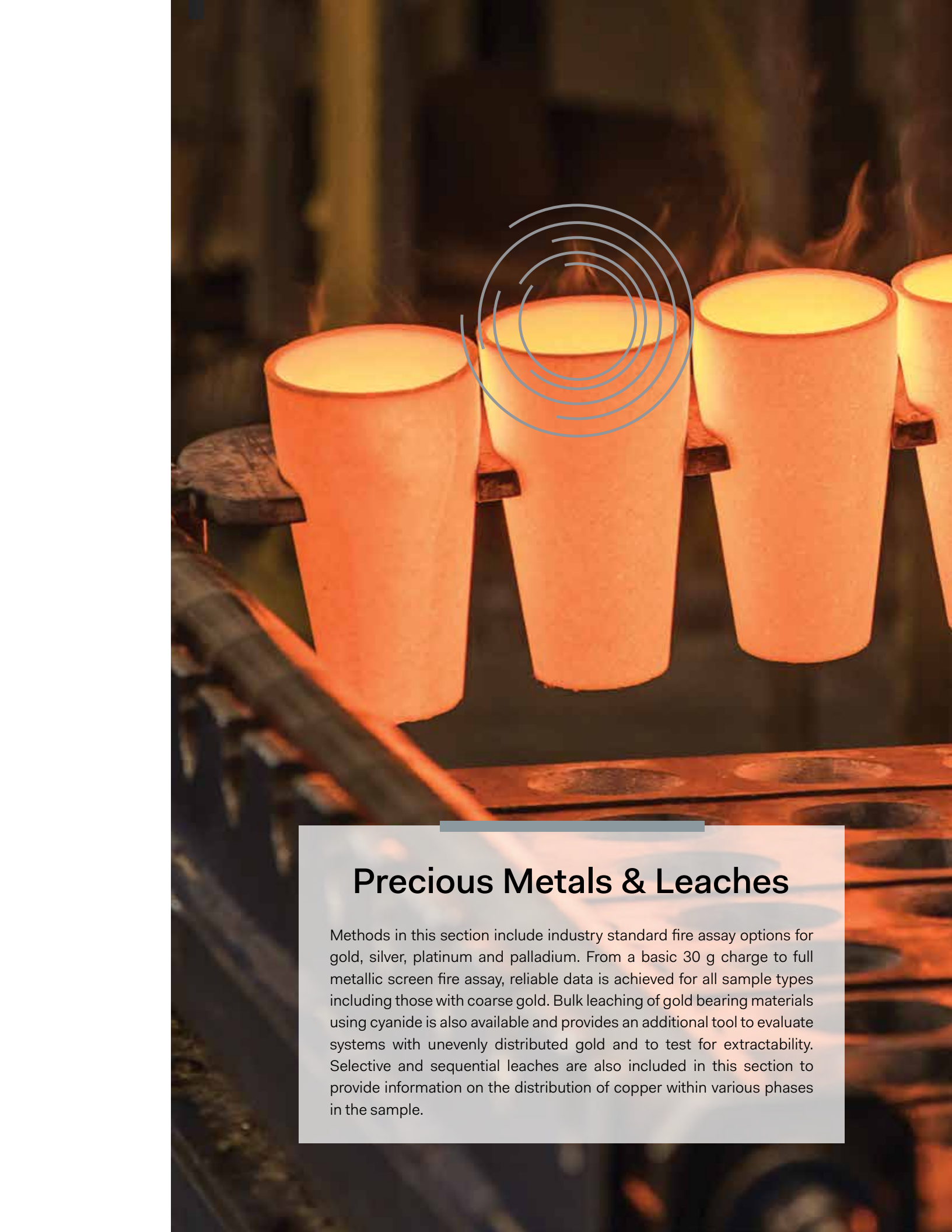
|                 |                                     |          |        |                |
|-----------------|-------------------------------------|----------|--------|----------------|
| <b>AQ200-Hg</b> | <b>Aqua Regia ICP-ES/MS, Add-on</b> |          |        | <b>\$12.50</b> |
|                 | <b>Hg</b>                           | 0.01 ppm | 50 ppm |                |

Digestion is partial for some Cr and Ba minerals and oxides of Al, Fe, Mn, Sn, Ta and Zr. Volatilization during fuming may result in loss of As, S, Se and Sb.

| CODE         | ELEM                                             | DETECTION LIMIT | UPPER LIMIT | CAD            |
|--------------|--------------------------------------------------|-----------------|-------------|----------------|
| <b>MA200</b> | <b>Multi-Acid ICP-ES/MS, 45 elements, 0.25 g</b> |                 |             | <b>\$20.25</b> |
|              | <b>Ag</b>                                        | 0.1 ppm         | 200 ppm     |                |
|              | <b>Al</b>                                        | 0.01 %          | 20 %        |                |
|              | <b>As</b>                                        | 1 ppm           | 10000 ppm   |                |
|              | <b>Ba</b>                                        | 1 ppm           | 10000 ppm   |                |
|              | <b>Be</b>                                        | 1 ppm           | 1000 ppm    |                |
|              | <b>Bi</b>                                        | 0.1 ppm         | 4000 ppm    |                |
|              | <b>Ca</b>                                        | 0.01 %          | 40 %        |                |
|              | <b>Cd</b>                                        | 0.1 ppm         | 4000 ppm    |                |
|              | <b>Ce</b>                                        | 1 ppm           | 2000 ppm    |                |
|              | <b>Co</b>                                        | 0.2 ppm         | 4000 ppm    |                |
|              | <b>Cr</b>                                        | 1 ppm           | 10000 ppm   |                |
|              | <b>Cu</b>                                        | 0.1 ppm         | 10000 ppm   |                |
|              | <b>Fe</b>                                        | 0.01 %          | 60 %        |                |
|              | <b>Hf</b>                                        | 0.1 ppm         | 1000 ppm    |                |
|              | <b>In</b>                                        | 0.05 ppm        | 1000 ppm    |                |
|              | <b>K</b>                                         | 0.01 %          | 10 %        |                |
|              | <b>La</b>                                        | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Li</b>                                        | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Mg</b>                                        | 0.01 %          | 30 %        |                |
|              | <b>Mn</b>                                        | 1 ppm           | 10000 ppm   |                |
|              | <b>Mo</b>                                        | 0.1 ppm         | 4000 ppm    |                |
|              | <b>Na</b>                                        | 0.001 %         | 10 %        |                |
|              | <b>Nb</b>                                        | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Ni</b>                                        | 0.1 ppm         | 10000 ppm   |                |
|              | <b>P</b>                                         | 0.001 %         | 5 %         |                |
|              | <b>Pb</b>                                        | 0.1 ppm         | 10000 ppm   |                |
|              | <b>Rb</b>                                        | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Re</b>                                        | 0.005 ppm       | 100 ppm     |                |
|              | <b>S</b>                                         | 0.1 %           | 10 %        |                |
|              | <b>Sb</b>                                        | 0.1 ppm         | 4000 ppm    |                |
|              | <b>Sc</b>                                        | 1 ppm           | 200 ppm     |                |
|              | <b>Se</b>                                        | 1 ppm           | 1000 ppm    |                |
|              | <b>Sn</b>                                        | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Sr</b>                                        | 1 ppm           | 10000 ppm   |                |
|              | <b>Ta</b>                                        | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Te</b>                                        | 0.5 ppm         | 1000 ppm    |                |
|              | <b>Th</b>                                        | 0.1 ppm         | 4000 ppm    |                |
|              | <b>Ti</b>                                        | 0.001 %         | 10 %        |                |
|              | <b>Tl</b>                                        | 0.5 ppm         | 10000 ppm   |                |
|              | <b>U</b>                                         | 0.1 ppm         | 4000 ppm    |                |
|              | <b>V</b>                                         | 4 ppm           | 10000 ppm   |                |
|              | <b>W</b>                                         | 0.1 ppm         | 200 ppm     |                |
|              | <b>Y</b>                                         | 0.1 ppm         | 2000 ppm    |                |
|              | <b>Zn</b>                                        | 1 ppm           | 10000 ppm   |                |
|              | <b>Zr</b>                                        | 0.1 ppm         | 2000 ppm    |                |

|                 |                                     |          |        |                |
|-----------------|-------------------------------------|----------|--------|----------------|
| <b>AQ200-Hg</b> | <b>Aqua Regia ICP-ES/MS, Add-on</b> |          |        | <b>\$12.50</b> |
|                 | <b>Hg</b>                           | 0.01 ppm | 50 ppm |                |

Digestion is partial for some Cr and Ba minerals and oxides of Al, Fe, Mn, Sn, Ta and Zr. Volatilization during fuming may result in loss of As, S, Se and Sb.

A photograph of several glowing crucibles in a furnace, with a blue circular graphic overlay. The crucibles are filled with molten metal and are arranged in a row. The background is dark and smoky, suggesting a high-temperature industrial environment. A blue circular graphic with concentric lines is overlaid on the central crucible.

## Precious Metals & Leaches

Methods in this section include industry standard fire assay options for gold, silver, platinum and palladium. From a basic 30 g charge to full metallic screen fire assay, reliable data is achieved for all sample types including those with coarse gold. Bulk leaching of gold bearing materials using cyanide is also available and provides an additional tool to evaluate systems with unevenly distributed gold and to test for extractability. Selective and sequential leaches are also included in this section to provide information on the distribution of copper within various phases in the sample.

## AQUA REGIA GOLD

Recommended for soils, sediments, vegetation or reconnaissance rock samples. Samples are digested in 1:1:1 aqua regia then analyzed by ICP-MS. Refractory, massive sulphide and graphitic samples can limit Au solubility.

| CODE      | ELEM | DETECTION LIMIT | UPPER LIMIT | DESCRIPTION                                                                                        | CAD            |
|-----------|------|-----------------|-------------|----------------------------------------------------------------------------------------------------|----------------|
| AQ115     |      |                 |             | 15 g Aqua regia ICP-MS                                                                             | <b>\$11.10</b> |
| AQ130     |      |                 |             | 30 g Aqua regia ICP-MS                                                                             | <b>\$15.85</b> |
| AQ115-IGN | Au   | 0.5 ppb         | 10 ppm      | Ignited 15 g Aqua regia ICP-MS<br>Rock samples are ignited at 550°C<br>before aqua regia digestion | <b>\$12.50</b> |
| AQ130-IGN |      |                 |             | Ignited 30 g Aqua regia ICP-MS<br>Rock samples are ignited at 550°C<br>before aqua regia digestion | <b>\$17.25</b> |

## Fire Assay

Lead collection fire assay fusion is a classic method for total sample decomposition. Total Au content is determined by digesting an Ag dore bead and then analysing by AAS, ICP-ES, or ICP-MS. The Lab reserves the right to reduce sample weight to 15 g or less for proper fusion.

### ICP-MS

| CODE  | ELEM | DETECTION LIMIT | UPPER LIMIT | DESCRIPTION                | CAD            |
|-------|------|-----------------|-------------|----------------------------|----------------|
|       | Au   | 1 ppb           | 1 ppm       |                            |                |
| FA130 |      |                 |             | 30 g / Fire Assay / ICP-MS | <b>\$22.30</b> |
| FA150 | Pt   | 0.1 ppb         | 1 ppm       | 50 g / Fire Assay / ICP-MS | <b>\$25.25</b> |
|       | Pd   | 0.5 ppb         | 1 ppm       |                            |                |

### ICP-ES

|           |    |       |        |                            |                |
|-----------|----|-------|--------|----------------------------|----------------|
| FA330-Au* |    |       |        | 30 g / Fire Assay / ICP-ES | <b>\$17.50</b> |
| FA350-Au* | Au | 2 ppb | 10 ppm | 50 g / Fire Assay / ICP-ES | <b>\$20.70</b> |
|           | Au | 2 ppb | 10 ppm |                            |                |
| FA330*    | Pt | 3 ppb | 10 ppm | 30 g / Fire Assay / ICP-ES | <b>\$18.75</b> |
| FA350*    |    |       |        | 50 g / Fire Assay / ICP-ES | <b>\$21.70</b> |
|           | Pd | 2 ppb | 10 ppm |                            |                |

### AAS

|        |    |           |        |                         |                |
|--------|----|-----------|--------|-------------------------|----------------|
| FA430* |    |           |        | 30 g / Fire Assay / AAS | <b>\$16.50</b> |
| FA450* | Au | 0.005 ppm | 10 ppm | 50 g / Fire Assay / AAS | <b>\$19.55</b> |

### GRAVIMETRIC

|          |        |          |  |                                 |                |
|----------|--------|----------|--|---------------------------------|----------------|
| FA530-Ag |        |          |  | 30 g / Fire Assay / gravimetric | <b>\$20.80</b> |
| FA550-Ag | Ag     | 20 ppm   |  | 50 g / Fire Assay / gravimetric | <b>\$23.80</b> |
| FA530-Au |        |          |  | 30 g / Fire Assay / gravimetric | <b>\$20.80</b> |
| FA550-Au | Au     | 0.9 ppm  |  | 50 g / Fire Assay / gravimetric | <b>\$23.80</b> |
| FA530    |        |          |  | 30 g / Fire Assay / gravimetric | <b>\$20.80</b> |
| FA550    | Au, Ag | as above |  | 50 g / Fire Assay / gravimetric | <b>\$23.80</b> |

Require at least 15 g sample weight.

\*Au>10 ppm are automatically analyzed by gravimetric method.

## **Appendix IV – Sample Locations and Descriptions**

| Sample           | UTM Zone | E (UTM) | N (UTM) | Elev (m) | Horizon | Depth (cm) | Slope | Quality | Shortnote  | Status   |
|------------------|----------|---------|---------|----------|---------|------------|-------|---------|------------|----------|
| K9L033<br>07+25E | 11N      | 540426  | 5515685 | 1477     | B       | 25         | 30    | 2       |            | complete |
| K9L033<br>07+50E | 11N      | 540457  | 5515699 | 1468     | B       | 25         | 10    | 4       |            | complete |
| K9L034<br>00+25E | 11N      | 540557  | 5515573 | 1535     | A       | 25         | 10    | 3       |            | complete |
| K9L035<br>04+75E | 11N      | 540004  | 5515564 | 1613     | B       | 25         | 30    | 4       |            | complete |
| K9L035<br>05+00E | 11N      | 540031  | 5515569 | 1616     | B       | 25         | 30    | 4       |            | complete |
| K9L036<br>02+75E | 11N      | 540704  | 5515250 | 1688     | B       | 35         | 20    | 4       |            | complete |
| K9L036<br>03+00E | 11N      | 540731  | 5515207 | 1693     | B       | 25         | 20    | 5       |            | complete |
| K9L034<br>01+25E | 11N      | 540660  | 5515574 | 1540     | B       | 35         | 30    | 3       |            | complete |
| K9L032 00+00     | 11N      | 540243  | 5516018 | 1368     | B       | 35         | 20    | 5       | line start | complete |
| K9L032<br>00+25E | 11N      | 540258  | 5515993 | 1351     | B       | 25         | 10    | 3       |            | complete |
| K9L032<br>00+50E | 11N      | 540275  | 5515966 | 1336     | B       | 35         | 20    | 4       |            | complete |
| K9L032<br>00+75E | 11N      | 540309  | 5515978 | 1342     | B       | 35         | 10    | 4       |            | complete |
| K9L032<br>01+00E | 11N      | 540337  | 5515975 | 1335     | mix     | 35         | 20    | 3       |            | complete |
| K9L032<br>01+25E | 11N      | 540357  | 5515977 | 1333     | B       | 35         | 10    | 5       |            | complete |
| K9L032<br>01+50E | 11N      | 540391  | 5515970 | 1335     | B       | 25         | 10    | 4       |            | complete |
| K9L032<br>01+75E | 11N      | 540418  | 5515951 | 1332     | B       | 25         | 20    | 3       |            | complete |
| K9L032<br>02+00E | 11N      | 540452  | 5515938 | 1339     | B       | 35         | 20    | 4       |            | complete |
| K9L032<br>02+25E | 11N      | 540470  | 5515947 | 1331     | B       | 45         | 20    | 5       |            | complete |
| K9L032<br>02+50E | 11N      | 540494  | 5515918 | 1339     | mix     | 35         | 10    | 4       |            | complete |

|                  |     |        |         |      |     |    |    |   |            |           |
|------------------|-----|--------|---------|------|-----|----|----|---|------------|-----------|
| K9L032<br>02+75E | 11N | 540510 | 5515911 | 1341 | B   | 45 | 10 | 3 |            | complete  |
| K9L032<br>03+00E | 11N | 540539 | 5515922 | 1331 | B   | 35 | 10 | 3 |            | complete  |
| K9L032<br>03+25E | 11N | 540575 | 5515914 | 1334 | B   | 15 | 20 | 4 |            | complete  |
| K9L032<br>03+50E | 11N | 540600 | 5515908 | 1343 | B   | 15 | 10 | 4 |            | complete  |
| K9L032<br>03+75E | 11N | 540636 | 5515899 | 1341 | A   | 15 | 10 | 3 |            | complete  |
| K9L032<br>04+00E | 11N | 540655 | 5515898 | 1332 | C   | 15 | 10 | 2 |            | complete  |
| K9L033<br>00+25E | 11N | 539871 | 5515787 | 1477 | B   | 35 | 20 | 3 |            | complete  |
| K9L035<br>10+00E | 11N | 540509 | 5515454 | 1614 | B   | 15 | 30 | 3 |            | complete  |
| K9L037<br>05+50W | 11N | 540119 | 5515262 | 1751 | B   | 25 | 20 |   |            | complete  |
| K9L032<br>04+25E | 11N | 540681 | 5515889 | 1336 | B   | 35 | 20 | 4 |            | complete  |
| K9L032<br>04+50E | 11N | 540699 | 5515900 | 1330 | mix | 25 | 10 | 4 |            | complete  |
| K9L033 00+00     | 11N | 539852 | 5515772 | 1476 | B   | 25 | 30 | 4 | line start | complete  |
| K9L032<br>04+75E | 11N | 540719 | 5515875 | 1340 | A   | 25 | 10 | 3 |            | complete  |
| K9L032<br>05+00E | 11N | 540748 | 5515872 | 1337 | A   | 25 | 20 | 3 | line end   | complete  |
| K9L033<br>00+50E | 11N | 539897 | 5515798 | 1472 | B   | 25 | 20 | 4 |            | complete  |
| K9L033<br>00+75E | 11N | 539927 | 5515798 | 1473 | B   | 35 | 20 | 3 |            | complete  |
| K9L033<br>09+25E | 11N | 540640 | 5515654 | 1476 |     |    |    |   | no sample  | no sample |
| K9L033<br>01+00E | 11N | 539950 | 5515804 | 1472 | B   | 25 | 20 | 4 |            | complete  |
| K9L033<br>01+25E | 11N | 539968 | 5515800 | 1476 | B   | 45 | 30 | 4 |            | complete  |
| K9L033<br>01+50E | 11N | 539980 | 5515798 | 1475 | B   | 45 | 30 | 2 |            | complete  |

|                  |     |        |         |      |   |    |    |   |           |           |
|------------------|-----|--------|---------|------|---|----|----|---|-----------|-----------|
| K9L033<br>01+75E | 11N | 539999 | 5515815 | 1480 | B | 25 | 20 | 3 |           | complete  |
| K9L033<br>02+00E | 11N | 540018 | 5515821 | 1478 | B | 25 | 20 | 4 |           | complete  |
| K9L034<br>00+50E | 11N | 540581 | 5515586 | 1538 |   |    |    |   | no sample | no sample |
| K9L033<br>02+25E | 11N | 540033 | 5515817 | 1476 | B | 25 | 30 | 4 |           | complete  |
| K9L033<br>02+50E | 11N | 540048 | 5515807 | 1478 | B | 35 | 20 | 3 |           | complete  |
| K9L033<br>02+75E | 11N | 540071 | 5515804 | 1476 | B | 25 | 20 | 3 |           | complete  |
| K9L033<br>03+00E | 11N | 540089 | 5515796 | 1472 | B | 35 | 20 | 2 |           | complete  |
| K9L033<br>03+25E | 11N | 540115 | 5515779 | 1468 | B | 25 | 30 | 4 |           | complete  |
| K9L033<br>03+50E | 11N | 540134 | 5515772 | 1475 | B | 25 | 30 | 3 |           | complete  |
| K9L033<br>03+75E | 11N | 540159 | 5515768 | 1477 | B | 25 | 30 | 3 |           | complete  |
| K9L033<br>04+00E | 11N | 540173 | 5515761 | 1476 | B | 25 | 20 | 4 |           | complete  |
| K9L033<br>04+25E | 11N | 540195 | 5515751 | 1479 | B | 25 | 20 | 4 |           | complete  |
| K9L033<br>04+50E | 11N | 540219 | 5515744 | 1476 | B | 25 | 30 | 4 |           | complete  |
| K9L033<br>05+00E | 11N | 540258 | 5515717 | 1476 | B | 25 | 20 | 3 |           | complete  |
| K9L033 05+25     | 11N | 540281 | 5515704 | 1476 | B | 25 | 30 | 4 |           | complete  |
| K9L033 05+50     | 11N | 540299 | 5515696 | 1477 | B | 25 | 30 | 4 |           | complete  |
| K9L033<br>05+75E | 11N | 540315 | 5515673 | 1476 | B | 25 | 30 | 3 |           | complete  |
| K9L033<br>06+00E | 11N | 540330 | 5515662 | 1470 | B | 25 | 30 | 4 |           | complete  |
| K9L033<br>06+25E | 11N | 540346 | 5515656 | 1477 | B | 25 | 30 | 4 |           | complete  |
| K9L033<br>06+50E | 11N | 540368 | 5515642 | 1468 | B | 25 | 30 | 3 |           | complete  |

|                  |     |        |         |      |     |    |    |   |            |          |
|------------------|-----|--------|---------|------|-----|----|----|---|------------|----------|
| K9L033<br>06+75E | 11N | 540393 | 5515660 | 1484 | B   | 35 | 30 | 3 |            | complete |
| K9L033<br>07+00E | 11N | 540405 | 5515667 | 1482 | B   | 25 | 30 | 3 |            | complete |
| K9L033<br>07+75E | 11N | 540488 | 5515695 | 1472 | B   | 25 | 20 | 3 |            | complete |
| K9L033<br>08+00E | 11N | 540523 | 5515681 | 1471 | B   | 35 | 20 | 3 |            | complete |
| K9L033<br>08+25E | 11N | 540546 | 5515682 | 1477 | B   | 25 | 20 | 1 |            | complete |
| K9L033<br>08+50E | 11N | 540584 | 5515678 | 1482 | B   | 25 | 20 | 2 |            | complete |
| K9L033<br>08+75E | 11N | 540601 | 5515666 | 1480 | B   | 25 | 20 | 3 |            | complete |
| K9L033<br>09+00E | 11N | 540626 | 5515655 | 1474 | B   | 25 | 20 | 2 |            | complete |
| K9L033<br>09+75E | 11N | 540690 | 5515650 | 1475 | B   | 35 | 20 | 3 |            | complete |
| K9L033<br>10+00E | 11N | 540704 | 5515658 | 1472 | B   | 35 | 20 | 3 | line end   | complete |
| K9L033<br>04+75E | 11N | 540244 | 5515736 | 1471 | B   | 25 | 30 | 4 |            | complete |
| K9L033<br>09+50E | 11N | 540661 | 5515653 | 1472 | B   | 25 | 20 | 2 |            | complete |
| K9L034 00+00     | 11N | 540530 | 5515586 | 1536 | mix | 35 | 10 | 4 | line start | complete |
| K9L034<br>00+75E | 11N | 540606 | 5515582 | 1536 | B   | 25 | 10 | 3 |            | complete |
| K9L034<br>01+50E | 11N | 540676 | 5515568 | 1543 | B   | 25 | 30 | 3 |            | complete |
| K9L034<br>01+75E | 11N | 540706 | 5515563 | 1543 | A   | 35 | 30 | 2 | line end   | complete |
| K9L035 00+00     | 11N | 539809 | 5515147 | 1609 | B   | 25 | 30 | 4 | line start | complete |
| K9L035<br>00+25E | 11N | 539812 | 5515182 | 1622 | B   | 15 | 30 | 4 |            | complete |
| K9L035<br>00+50E | 11N | 539825 | 5515201 | 1612 | B   | 25 | 30 | 2 |            | complete |
| K9L035<br>00+75E | 11N | 539824 | 5515219 | 1618 | B   | 15 | 30 | 3 |            | complete |

|                  |     |        |         |      |   |    |    |   |  |          |
|------------------|-----|--------|---------|------|---|----|----|---|--|----------|
| K9L035<br>01+00E | 11N | 539826 | 5515249 | 1622 | B | 15 | 30 | 3 |  | complete |
| K9L035<br>01+25E | 11N | 539827 | 5515273 | 1621 | B | 25 | 30 | 3 |  | complete |
| K9L035<br>01+50E | 11N | 539828 | 5515288 | 1609 | B | 15 | 30 | 4 |  | complete |
| K9L035<br>01+75E | 11N | 539854 | 5515326 | 1620 | B | 15 | 30 | 4 |  | complete |
| K9L035<br>02+00E | 11N | 539852 | 5515344 | 1614 | B | 25 | 20 | 3 |  | complete |
| K9L035<br>02+25E | 11N | 539875 | 5515356 | 1604 | B | 25 | 30 | 3 |  | complete |
| K9L035<br>02+50E | 11N | 539895 | 5515382 | 1609 | B | 25 | 30 | 4 |  | complete |
| K9L035<br>02+75E | 11N | 539887 | 5515409 | 1618 | B | 25 | 30 | 3 |  | complete |
| K9L035<br>03+00E | 11N | 539888 | 5515447 | 1612 | B | 25 | 40 | 3 |  | complete |
| K9L035<br>03+25E | 11N | 539905 | 5515461 | 1615 | B | 25 | 40 | 3 |  | complete |
| K9L035<br>03+50E | 11N | 539917 | 5515488 | 1613 | B | 25 | 30 | 4 |  | complete |
| K9L035<br>03+75E | 11N | 539923 | 5515507 | 1618 | B | 25 | 30 | 4 |  | complete |
| K9L035<br>04+00E | 11N | 539931 | 5515535 | 1611 | B | 15 | 30 | 4 |  | complete |
| K9L035<br>04+25E | 11N | 539947 | 5515550 | 1612 | B | 15 | 20 | 4 |  | complete |
| K9L035<br>04+50E | 11N | 539978 | 5515563 | 1617 | B | 15 | 20 | 5 |  | complete |
| K9L035<br>05+25E | 11N | 540058 | 5515571 | 1611 | B | 15 | 30 | 3 |  | complete |
| K9L035<br>05+50E | 11N | 540081 | 5515549 | 1609 | B | 25 | 30 | 3 |  | complete |
| K9L035<br>05+75E | 11N | 540104 | 5515540 | 1617 | B | 25 | 30 | 3 |  | complete |
| K9L035<br>06+00E | 11N | 540131 | 5515542 | 1623 | B | 25 | 30 | 4 |  | complete |

|                  |     |        |         |      |   |    |    |   |            |          |
|------------------|-----|--------|---------|------|---|----|----|---|------------|----------|
| K9L035<br>06+25E | 11N | 540169 | 5515537 | 1615 | B | 35 | 30 | 3 |            | complete |
| K9L035<br>06+50E | 11N | 540174 | 5515524 | 1604 | B | 25 | 30 | 3 |            | complete |
| K9L035<br>06+75E | 11N | 540200 | 5515509 | 1607 | B | 25 | 30 | 3 |            | complete |
| K9L035<br>07+00E | 11N | 540219 | 5515491 | 1613 | B | 25 | 30 | 3 |            | complete |
| K9L035<br>07+25E | 11N | 540232 | 5515462 | 1605 | B | 25 | 30 | 3 |            | complete |
| K9L035<br>07+50E | 11N | 540259 | 5515453 | 1611 | B | 55 | 40 | 3 |            | complete |
| K9L035<br>07+75E | 11N | 540281 | 5515444 | 1616 | B | 15 | 40 | 3 |            | complete |
| K9L035<br>08+00E | 11N | 540301 | 5515441 | 1616 | B | 15 | 40 | 3 |            | complete |
| K9L035<br>08+25E | 11N | 540325 | 5515420 | 1615 | B | 15 | 30 | 4 |            | complete |
| K9L035<br>08+50E | 11N | 540347 | 5515427 | 1617 | B | 25 | 40 | 2 |            | complete |
| K9L035<br>08+75E | 11N | 540384 | 5515425 | 1615 | B | 55 | 40 | 2 |            | complete |
| K9L035<br>09+00E | 11N | 540412 | 5515425 | 1611 | B | 35 | 40 | 2 |            | complete |
| K9L035<br>09+25E | 11N | 540435 | 5515429 | 1609 | B | 25 | 40 | 4 |            | complete |
| K9L035<br>09+50E | 11N | 540464 | 5515436 | 1610 | B | 25 | 30 | 3 |            | complete |
| K9L035<br>09+75E | 11N | 540488 | 5515440 | 1620 | B | 15 | 30 | 3 |            | complete |
| K9L035<br>10+25E | 11N | 540533 | 5515458 | 1615 | B | 15 | 20 | 2 |            | complete |
| K9L035<br>10+75E | 11N | 540598 | 5515464 | 1619 | B | 15 | 30 | 3 |            | complete |
| K9L035<br>11+25E | 11N | 540654 | 5515471 | 1612 | B | 15 | 40 | 2 |            | complete |
| K9L035<br>11+50E | 11N | 540673 | 5515462 | 1616 | B | 15 | 30 | 3 | line end   | complete |
| K9L036 00+00     | 11N | 540440 | 5515290 | 1686 | B | 35 | 10 | 5 | line start | complete |

|                  |     |        |         |      |     |    |    |   |            |          |
|------------------|-----|--------|---------|------|-----|----|----|---|------------|----------|
| K9L036<br>00+25E | 11N | 540476 | 5515307 | 1694 | B   | 35 | 10 | 4 |            | complete |
| K9L036<br>00+50E | 11N | 540493 | 5515325 | 1689 | B   | 45 | 10 | 5 |            | complete |
| K9L036<br>00+75E | 11N | 540506 | 5515328 | 1688 | B   | 35 | 10 | 5 |            | complete |
| K9L036<br>01+00E | 11N | 540527 | 5515333 | 1690 | B   | 35 | 20 | 3 |            | complete |
| K9L036<br>01+25E | 11N | 540558 | 5515334 | 1689 | B   | 35 | 10 | 5 |            | complete |
| K9L036<br>01+50E | 11N | 540583 | 5515336 | 1690 | B   | 25 | 10 | 5 |            | complete |
| K9L036<br>01+75E | 11N | 540615 | 5515333 | 1691 | mix | 25 | 10 | 4 |            | complete |
| K9L036<br>02+00E | 11N | 540636 | 5515326 | 1694 | B   | 25 | 10 | 4 |            | complete |
| K9L036<br>02+25E | 11N | 540662 | 5515318 | 1695 | B   | 25 | 10 | 5 |            | complete |
| K9L036<br>02+50E | 11N | 540685 | 5515301 | 1689 | B   | 25 | 10 | 5 |            | complete |
| K9L036<br>03+25E | 11N | 540751 | 5515181 | 1683 | mix | 35 | 20 | 2 |            | complete |
| K9L036<br>03+50E | 11N | 540751 | 5515146 | 1689 | B   | 45 | 30 | 3 |            | complete |
| K9L036<br>03+75E | 11N | 540766 | 5515129 | 1688 | B   | 35 | 30 | 2 |            | complete |
| K9L036<br>04+00E | 11N | 540789 | 5515113 | 1680 | C   | 35 | 30 | 2 |            | complete |
| K9L036<br>04+50E | 11N | 540819 | 5515053 | 1683 | B   | 35 | 30 | 3 | line end   | complete |
| K9L037 00+00     | 11N | 540642 | 5515123 | 1752 | B   | 25 | 20 |   | line start | complete |
| K9L037<br>00+25W | 11N | 540623 | 5515139 | 1749 | B   | 25 | 20 |   |            | complete |
| K9L037<br>00+75W | 11N | 540583 | 5515163 | 1752 | B   | 35 | 20 |   |            | complete |
| K9L037<br>01+75W | 11N | 540487 | 5515213 | 1755 | B   | 25 | 20 |   |            | complete |
| K9L037<br>02+00W | 11N | 540463 | 5515208 | 1750 | B   | 45 | 20 |   |            | complete |

|                  |     |        |         |      |   |    |    |  |  |          |
|------------------|-----|--------|---------|------|---|----|----|--|--|----------|
| K9L037<br>02+25W | 11N | 540441 | 5515206 | 1749 | B | 25 | 20 |  |  | complete |
| K9L037<br>02+50W | 11N | 540418 | 5515196 | 1746 | B | 25 | 30 |  |  | complete |
| K9L037<br>02+75W | 11N | 540395 | 5515184 | 1754 | B | 25 | 30 |  |  | complete |
| K9L037<br>03+00W | 11N | 540368 | 5515187 | 1753 | B | 35 | 30 |  |  | complete |
| K9L037<br>03+25W | 11N | 540337 | 5515184 | 1756 | B | 35 | 30 |  |  | complete |
| K9L037<br>03+50W | 11N | 540311 | 5515181 | 1743 | B | 25 | 20 |  |  | complete |
| K9L037<br>03+75W | 11N | 540283 | 5515192 | 1746 | B | 25 | 20 |  |  | complete |
| K9L037<br>04+00W | 11N | 540254 | 5515196 | 1747 | B | 25 | 20 |  |  | complete |
| K9L037<br>04+25W | 11N | 540225 | 5515201 | 1753 | B | 25 | 20 |  |  | complete |
| K9L037<br>04+50W | 11N | 540200 | 5515224 | 1752 | B | 25 | 20 |  |  | complete |
| K9L037<br>04+75W | 11N | 540177 | 5515229 | 1757 | B | 25 | 20 |  |  | complete |
| K9L037<br>05+00W | 11N | 540164 | 5515253 | 1754 | B | 25 | 20 |  |  | complete |
| K9L037<br>05+75W | 11N | 540095 | 5515248 | 1752 | B | 25 | 20 |  |  | complete |
| K9L037<br>06+00W | 11N | 540073 | 5515245 | 1757 | B | 25 | 10 |  |  | complete |
| K9L037<br>06+25W | 11N | 540054 | 5515227 | 1753 | B | 25 | 20 |  |  | complete |
| K9L037<br>06+50W | 11N | 540038 | 5515203 | 1747 | B | 25 | 20 |  |  | complete |
| K9L037<br>06+75W | 11N | 540035 | 5515177 | 1747 | B | 25 | 20 |  |  | complete |
| K9L037<br>07+00W | 11N | 540031 | 5515150 | 1749 | B | 25 | 20 |  |  | complete |
| K9L037<br>07+25W | 11N | 540019 | 5515129 | 1750 | B | 25 | 20 |  |  | complete |

|                  |     |        |         |      |   |    |    |  |           |           |
|------------------|-----|--------|---------|------|---|----|----|--|-----------|-----------|
| K9L037<br>07+50W | 11N | 540016 | 5515120 | 1755 | B | 25 | 20 |  |           | complete  |
| K9L037<br>07+75W | 11N | 540007 | 5515102 | 1752 | B | 25 | 30 |  |           | complete  |
| K9L037<br>08+00W | 11N | 539997 | 5515077 | 1750 | B | 25 | 20 |  |           | complete  |
| K9L037<br>00+50W | 11N | 540603 | 5515151 | 1752 | B | 25 | 20 |  |           | complete  |
| K9L036<br>04+25E | 11N | 540809 | 5515079 | 1682 |   |    |    |  | no sample | no sample |
| K9L037<br>01+00W | 11N | 540563 | 5515186 | 1754 | B | 35 | 20 |  |           | complete  |
| K9L037<br>05+25W | 11N | 540142 | 5515261 | 1751 | B | 25 | 20 |  |           | complete  |
| K9L037<br>01+25W | 11N | 540541 | 5515205 | 1752 | B | 25 | 20 |  |           | complete  |
| K9L037<br>08+25W | 11N | 539992 | 5515050 | 1751 | B | 25 | 20 |  |           | complete  |
| K9L037<br>08+50W | 11N | 539983 | 5515024 | 1755 | B | 25 | 20 |  |           | complete  |
| K9L037<br>08+75W | 11N | 539976 | 5515001 | 1759 | B | 25 | 20 |  |           | complete  |
| K9L037<br>09+00W | 11N | 539951 | 5514986 | 1752 | B | 25 | 20 |  |           | complete  |
| K9L037<br>09+25W | 11N | 539934 | 5514960 | 1750 | B | 25 | 20 |  |           | complete  |
| K9L037<br>09+50W | 11N | 539921 | 5514939 | 1746 | B | 25 | 20 |  |           | complete  |
| K9L037<br>09+75W | 11N | 539918 | 5514910 | 1745 | B | 25 | 20 |  |           | complete  |
| K9L037<br>10+00W | 11N | 539896 | 5514889 | 1752 | B | 25 | 20 |  |           | complete  |
| K9L037<br>10+25W | 11N | 539886 | 5514871 | 1752 | B | 25 | 20 |  |           | complete  |
| K9L037<br>10+50W | 11N | 539875 | 5514848 | 1751 | B | 25 | 20 |  |           | complete  |
| K9L037<br>11+00W | 11N | 539843 | 5514802 | 1745 | B | 25 | 20 |  | line end  | complete  |

|                  |     |        |         |      |   |    |    |   |            |          |
|------------------|-----|--------|---------|------|---|----|----|---|------------|----------|
| K9L037<br>10+75W | 11N | 539857 | 5514831 | 1746 | B | 25 | 20 |   |            | complete |
| K9L038 00+00     | 11N | 540629 | 5515048 | 1798 | B | 5  | 30 | 3 | line start | complete |
| K9L038<br>00+25W | 11N | 540606 | 5515055 | 1802 | B | 5  | 30 | 3 |            | complete |
| K9L038<br>00+50W | 11N | 540584 | 5515070 | 1804 | B | 25 | 30 | 2 |            | complete |
| K9L038<br>00+75W | 11N | 540559 | 5515076 | 1801 | B | 25 | 30 | 2 |            | complete |
| K9L038<br>01+00W | 11N | 540539 | 5515100 | 1802 | B | 25 | 30 | 3 |            | complete |
| K9L038<br>01+25W | 11N | 540520 | 5515114 | 1800 | B | 25 | 30 | 2 |            | complete |
| K9L038<br>01+50W | 11N | 540490 | 5515121 | 1799 | B | 15 | 30 | 4 |            | complete |
| K9L038<br>01+75W | 11N | 540468 | 5515121 | 1798 | B | 45 | 30 | 3 |            | complete |
| K9L038<br>02+00W | 11N | 540438 | 5515112 | 1808 | B | 25 | 30 | 4 |            | complete |
| K9L038<br>02+25W | 11N | 540404 | 5515079 | 1803 | B | 35 | 30 | 2 |            | complete |
| K9L038<br>02+50W | 11N | 540381 | 5515070 | 1811 | B | 15 | 30 | 2 |            | complete |
| K9L038<br>02+75W | 11N | 540353 | 5515080 | 1807 | B | 15 | 30 | 3 |            | complete |
| K9L038<br>03+00W | 11N | 540325 | 5515090 | 1806 | B | 25 | 30 | 1 | line end   | complete |
| K9L039<br>03+75E | 11N | 540426 | 5514940 | 1915 | B | 15 | 40 | 3 |            | complete |
| K9L039 00+00     | 11N | 540133 | 5514712 | 1913 | B | 15 | 20 | 4 | line start | complete |
| K9L039<br>00+25E | 11N | 540146 | 5514736 | 1917 | B | 15 | 20 | 3 |            | complete |
| K9L039<br>00+50E | 11N | 540152 | 5514768 | 1911 | B | 25 | 30 | 3 |            | complete |
| K9L039<br>00+75E | 11N | 540169 | 5514777 | 1912 | B | 15 | 30 | 3 |            | complete |
| K9L039<br>01+00E | 11N | 540186 | 5514798 | 1918 | B | 15 | 30 | 4 |            | complete |

|                  |     |        |         |      |   |    |    |   |           |           |
|------------------|-----|--------|---------|------|---|----|----|---|-----------|-----------|
| K9L039<br>01+25E | 11N | 540201 | 5514821 | 1914 | B | 15 | 30 | 3 |           | complete  |
| K9L039<br>01+50E | 11N | 540219 | 5514837 | 1919 | B | 25 | 30 | 3 |           | complete  |
| K9L039<br>01+75E | 11N | 540228 | 5514859 | 1917 | B | 25 | 30 | 3 |           | complete  |
| K9L039<br>02+00E | 11N | 540250 | 5514875 | 1915 | B | 25 | 30 | 4 |           | complete  |
| K9L039<br>02+25E | 11N | 540268 | 5514905 | 1917 | B | 15 | 20 | 3 |           | complete  |
| K9L039<br>02+50E | 11N | 540292 | 5514911 | 1916 | B | 15 | 30 | 3 |           | complete  |
| K9L039<br>02+75E | 11N | 540318 | 5514917 | 1920 | B | 5  | 30 | 3 |           | complete  |
| K9L039<br>03+00E | 11N | 540345 | 5514932 | 1918 | B | 5  | 40 | 3 |           | complete  |
| K9L039<br>03+25E | 11N | 540366 | 5514935 | 1915 | B | 15 | 40 | 3 |           | complete  |
| K9L039<br>03+50E | 11N | 540394 | 5514936 | 1917 | B | 15 | 40 | 3 |           | complete  |
| K9L039<br>04+00E | 11N | 540455 | 5514937 | 1917 | B | 15 | 40 | 3 |           | complete  |
| K9L039<br>04+25E | 11N | 540472 | 5514940 | 1915 | B | 15 | 40 | 3 |           | complete  |
| K9L039<br>04+50E | 11N | 540492 | 5514935 | 1920 | B | 5  | 40 | 2 |           | complete  |
| K9L039<br>04+75E | 11N | 540520 | 5514925 | 1914 | B | 25 | 40 | 4 |           | complete  |
| K9L039<br>05+00E | 11N | 540542 | 5514905 | 1910 | B | 25 | 40 | 4 |           | complete  |
| K9L039<br>05+25E | 11N | 540562 | 5514873 | 1911 | B | 15 | 30 | 4 |           | complete  |
| K9L039<br>05+50E | 11N | 540589 | 5514854 | 1907 | B | 15 | 30 | 3 | line end  | complete  |
| K9L034<br>01+00E | 11N | 540635 | 5515569 | 1538 |   |    |    |   | no sample | no sample |
| K9L035<br>10+50E | 11N | 540563 | 5515458 | 1615 |   |    | 30 |   | no sample | no sample |

|                  |     |        |         |      |  |  |    |  |           |              |
|------------------|-----|--------|---------|------|--|--|----|--|-----------|--------------|
| K9L035<br>11+00E | 11N | 540624 | 5515483 | 1615 |  |  | 50 |  | no sample | no<br>sample |
| K9L037<br>01+50W | 11N | 540513 | 5515222 | 1752 |  |  | 20 |  | no sample | no<br>sample |

## **Appendix V – Analytical Certificates**



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

Submitted By: Vanessa Beach  
Receiving Lab: Canada-Vancouver  
Received: June 14, 2019  
Report Date: July 08, 2019  
Page: 1 of 9

# CERTIFICATE OF ANALYSIS

VAN19001448.1

## CLIENT JOB INFORMATION

Project: K9  
Shipment ID: K919-001  
P.O. Number  
Number of Samples: 216

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7  
Canada

CC: Jesse Campbell

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description                                    | Test Wgt (g) | Report Status | Lab |
|----------------|-------------------|-----------------------------------------------------|--------------|---------------|-----|
| DY060          | 209               | Dry at 60C                                          |              |               | VAN |
| SS80           | 209               | Dry at 60C sieve 100g to -80 mesh                   |              |               | VAN |
| SVRJT          | 209               | Save all or part of Soil Reject                     |              |               | VAN |
| FA330          | 209               | Fire assay fusion Au Pt Pd by ICP-ES                | 30           | Completed     | VAN |
| EN002          | 209               | Environmental disposal charge-Fire assay lead waste |              |               | VAN |
| AQ200          | 209               | 1:1:1 Aqua Regia digestion ICP-MS analysis          | 0.5          | Completed     | VAN |

## ADDITIONAL COMMENTS

  
JEFFREY CANNON  
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

**Page:** 2 of 9

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19001448.1

| Method Analyte | Unit | MDL | FA330 | FA330 | FA330 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                |      |     | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     |
|                |      |     | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                |      |     | 2     | 3     | 2     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     |
| K9L032 00+00   | Soil |     | 11    | <3    | <2    | 0.8   | 32.7  | 14.4  | 54    | 0.1   | 13.4  | 9.5   | 396   | 2.40  | 10.2  | 1.6   | 6.0   | 6     | 0.3   | 0.1   | 0.7   | 26    |
| K9L032 00+25E  | Soil |     | 8     | <3    | <2    | 0.8   | 74.1  | 17.9  | 67    | 0.1   | 16.7  | 10.7  | 292   | 2.42  | 17.5  | 1.5   | 5.5   | 3     | 0.2   | 0.2   | 0.8   | 20    |
| K9L032 00+50E  | Soil |     | 7     | <3    | <2    | 0.8   | 40.8  | 15.0  | 42    | <0.1  | 11.9  | 7.7   | 136   | 2.47  | 9.6   | 4.0   | 5.0   | 4     | 0.1   | 0.1   | 0.7   | 22    |
| K9L032 00+75E  | Soil |     | 6     | <3    | <2    | 0.6   | 35.2  | 19.7  | 64    | 0.2   | 21.7  | 12.2  | 187   | 2.75  | 12.4  | 0.9   | 7.4   | 3     | 0.1   | 0.1   | 0.6   | 25    |
| K9L032 01+00E  | Soil |     | 8     | <3    | <2    | 0.5   | 16.1  | 12.7  | 42    | 0.1   | 7.4   | 4.4   | 99    | 1.58  | 7.2   | 0.9   | 3.9   | 3     | 0.2   | 0.1   | 0.6   | 25    |
| K9L032 01+25E  | Soil |     | 5     | <3    | <2    | 0.8   | 18.4  | 25.8  | 83    | 0.2   | 12.7  | 8.5   | 267   | 2.51  | 11.3  | 0.7   | 6.4   | 6     | 0.1   | 0.1   | 0.5   | 24    |
| K9L032 01+50E  | Soil |     | 6     | <3    | <2    | 1.0   | 26.5  | 24.0  | 51    | <0.1  | 12.4  | 8.2   | 129   | 3.35  | 14.1  | <0.5  | 7.5   | 3     | 0.1   | 0.2   | 1.0   | 29    |
| K9L032 01+75E  | Soil |     | 5     | <3    | <2    | 0.9   | 8.4   | 31.0  | 70    | 0.1   | 7.3   | 4.3   | 84    | 2.30  | 10.9  | <0.5  | 3.8   | 5     | 0.2   | 0.1   | 0.5   | 33    |
| K9L032 02+00E  | Soil |     | 5     | <3    | <2    | 0.6   | 10.7  | 19.7  | 49    | 0.1   | 7.4   | 5.4   | 134   | 2.04  | 6.7   | <0.5  | 4.8   | 3     | 0.1   | 0.2   | 0.5   | 27    |
| K9L032 02+25E  | Soil |     | 7     | <3    | <2    | 0.6   | 17.7  | 17.6  | 72    | <0.1  | 9.8   | 7.5   | 113   | 2.20  | 9.1   | 1.7   | 6.6   | 2     | <0.1  | 0.1   | 0.5   | 26    |
| K9L032 02+50E  | Soil |     | 4     | <3    | <2    | 0.4   | 6.1   | 12.9  | 35    | 0.2   | 7.2   | 5.3   | 108   | 1.49  | 3.1   | <0.5  | 4.3   | 4     | 0.1   | <0.1  | 0.4   | 29    |
| K9L032 02+75E  | Soil |     | 11    | <3    | <2    | 0.5   | 21.5  | 17.0  | 43    | <0.1  | 11.2  | 9.3   | 127   | 1.96  | 6.2   | <0.5  | 5.0   | 4     | 0.1   | 0.1   | 0.5   | 26    |
| K9L032 03+00E  | Soil |     | 5     | <3    | <2    | 0.4   | 28.1  | 23.9  | 50    | <0.1  | 16.6  | 13.4  | 239   | 1.98  | 6.0   | 0.7   | 7.8   | 2     | <0.1  | 0.1   | 0.4   | 20    |
| K9L032 03+25E  | Soil |     | 5     | <3    | <2    | 0.6   | 12.6  | 9.7   | 30    | 0.1   | 6.3   | 4.8   | 141   | 1.99  | 3.6   | <0.5  | 4.8   | 6     | 0.2   | 0.2   | 0.2   | 31    |
| K9L032 03+50E  | Soil |     | 5     | <3    | <2    | 0.5   | 7.6   | 15.8  | 29    | 0.1   | 6.1   | 4.1   | 215   | 1.68  | 3.1   | 0.5   | 3.4   | 4     | 0.2   | 0.2   | 0.3   | 26    |
| K9L032 03+75E  | Soil |     | 6     | <3    | <2    | 0.6   | 10.7  | 9.7   | 28    | 0.1   | 5.1   | 5.0   | 545   | 1.24  | 2.1   | 0.5   | 2.5   | 14    | 0.2   | <0.1  | 0.2   | 23    |
| K9L032 04+00E  | Soil |     | 5     | <3    | 3     | 0.6   | 48.5  | 21.7  | 41    | 0.1   | 11.7  | 9.0   | 1444  | 1.72  | 2.5   | 0.6   | 1.1   | 22    | 0.5   | 0.2   | 0.4   | 37    |
| K9L032 04+25E  | Soil |     | 5     | <3    | 5     | 0.7   | 12.8  | 17.2  | 25    | <0.1  | 5.9   | 5.8   | 198   | 1.54  | 1.9   | <0.5  | 2.7   | 7     | <0.1  | 0.1   | 0.4   | 36    |
| K9L032 04+50E  | Soil |     | 5     | <3    | <2    | 0.4   | 8.7   | 11.7  | 50    | <0.1  | 6.4   | 8.3   | 911   | 1.94  | 2.8   | 0.6   | 3.0   | 9     | 0.2   | 0.2   | 0.4   | 39    |
| K9L032 04+75E  | Soil |     | 4     | <3    | <2    | 0.5   | 4.3   | 14.8  | 21    | 0.2   | 3.7   | 3.1   | 114   | 1.45  | 2.8   | <0.5  | 1.9   | 4     | <0.1  | 0.3   | 0.3   | 27    |
| K9L032 05+00E  | Soil |     | 5     | <3    | <2    | 0.3   | 3.5   | 7.9   | 18    | <0.1  | 4.3   | 2.6   | 61    | 0.84  | 0.8   | <0.5  | 2.4   | 4     | <0.1  | 0.2   | 0.3   | 28    |
| K9L038 00+00   | Soil |     | 5     | <3    | <2    | 1.2   | 13.6  | 77.2  | 122   | 0.3   | 10.9  | 5.2   | 133   | 3.15  | 39.4  | <0.5  | 6.9   | 3     | 0.2   | 0.3   | 1.0   | 43    |
| K9L038 00+25W  | Soil |     | 6     | <3    | 5     | 0.8   | 26.6  | 47.0  | 94    | 0.4   | 13.3  | 7.3   | 300   | 2.47  | 29.1  | <0.5  | 5.1   | 16    | 0.6   | 0.1   | 0.7   | 28    |
| K9L038 00+50W  | Soil |     | 9     | <3    | 4     | 1.1   | 42.9  | 39.1  | 71    | 0.4   | 20.0  | 15.1  | 815   | 3.33  | 28.2  | 2.0   | 1.0   | 42    | 0.9   | 0.1   | 0.6   | 43    |
| K9L038 00+75W  | Soil |     | 5     | <3    | <2    | 1.4   | 34.3  | 57.2  | 90    | 0.3   | 17.3  | 17.3  | 1962  | 3.20  | 17.7  | 0.6   | 1.4   | 27    | 1.0   | <0.1  | 0.6   | 53    |
| K9L038 01+00W  | Soil |     | 5     | <3    | <2    | 1.2   | 20.8  | 29.2  | 86    | <0.1  | 14.7  | 10.1  | 311   | 2.93  | 11.4  | <0.5  | 4.7   | 13    | 0.5   | 0.1   | 0.6   | 41    |
| K9L038 01+25W  | Soil |     | 5     | <3    | <2    | 1.0   | 20.8  | 32.9  | 82    | <0.1  | 16.0  | 11.3  | 447   | 3.49  | 12.8  | 1.0   | 6.0   | 9     | 0.3   | 0.3   | 0.6   | 68    |
| K9L038 01+50W  | Soil |     | 5     | <3    | 2     | 1.4   | 29.7  | 83.2  | 106   | 0.2   | 18.2  | 12.1  | 166   | 3.87  | 17.8  | <0.5  | 8.8   | 6     | 0.4   | 0.2   | 0.5   | 63    |
| K9L038 01+75W  | Soil |     | 4     | <3    | <2    | 1.4   | 28.6  | 36.7  | 72    | 0.2   | 16.6  | 10.5  | 116   | 3.85  | 28.1  | 1.0   | 6.4   | 13    | 0.9   | <0.1  | 0.7   | 49    |
| K9L038 02+00W  | Soil |     | 5     | <3    | 5     | 0.9   | 78.2  | 74.1  | 140   | 0.2   | 33.4  | 20.2  | 338   | 4.12  | 33.0  | 0.9   | 7.9   | 8     | 0.6   | 0.3   | 0.6   | 83    |

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

## VAN19001448.1

| Method        | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte       | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |       |
| Unit          | %     | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |       |
| MDL           | 0.01  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   | 0.5   | 0.2   |       |
| K9L032 00+00  | Soil  | 0.06  | 0.022 | 14    | 14    | 0.20  | 48    | 0.027 | <20   | 1.25  | 0.005 | 0.03  | 0.2   | 0.03  | 1.7   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| K9L032 00+25E | Soil  | 0.03  | 0.031 | 15    | 12    | 0.22  | 44    | 0.026 | <20   | 0.90  | 0.004 | 0.05  | 0.2   | 0.02  | 1.4   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L032 00+50E | Soil  | 0.04  | 0.036 | 15    | 11    | 0.17  | 39    | 0.019 | <20   | 0.64  | 0.002 | 0.04  | 0.1   | 0.02  | 1.2   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L032 00+75E | Soil  | 0.03  | 0.042 | 17    | 22    | 0.36  | 42    | 0.026 | <20   | 1.20  | 0.002 | 0.05  | 0.2   | 0.04  | 2.1   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L032 01+00E | Soil  | 0.04  | 0.036 | 14    | 10    | 0.14  | 43    | 0.021 | <20   | 0.71  | 0.003 | 0.04  | 0.1   | 0.02  | 1.0   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| K9L032 01+25E | Soil  | 0.09  | 0.072 | 16    | 16    | 0.21  | 76    | 0.024 | <20   | 1.46  | 0.003 | 0.07  | 0.1   | 0.04  | 1.6   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L032 01+50E | Soil  | 0.03  | 0.030 | 15    | 15    | 0.28  | 22    | 0.034 | <20   | 0.84  | 0.003 | 0.04  | 0.2   | 0.03  | 1.2   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| K9L032 01+75E | Soil  | 0.05  | 0.033 | 11    | 15    | 0.13  | 60    | 0.055 | <20   | 1.91  | 0.008 | 0.04  | 0.2   | 0.06  | 1.6   | <0.1  | <0.05 | 8     | <0.5  | <0.2  |
| K9L032 02+00E | Soil  | 0.03  | 0.031 | 11    | 11    | 0.16  | 46    | 0.040 | <20   | 1.11  | 0.005 | 0.04  | 0.2   | 0.03  | 1.3   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| K9L032 02+25E | Soil  | 0.02  | 0.024 | 18    | 12    | 0.22  | 47    | 0.025 | <20   | 0.83  | 0.004 | 0.05  | 0.1   | 0.03  | 1.2   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| K9L032 02+50E | Soil  | 0.07  | 0.021 | 13    | 10    | 0.17  | 54    | 0.043 | <20   | 1.05  | 0.004 | 0.04  | 0.1   | 0.04  | 1.1   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| K9L032 02+75E | Soil  | 0.05  | 0.033 | 14    | 14    | 0.28  | 49    | 0.023 | <20   | 1.06  | 0.005 | 0.04  | 0.2   | 0.03  | 1.4   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L032 03+00E | Soil  | 0.05  | 0.039 | 14    | 14    | 0.32  | 28    | 0.020 | <20   | 0.84  | 0.003 | 0.05  | 0.2   | 0.02  | 1.9   | <0.1  | <0.05 | 2     | <0.5  | <0.2  |
| K9L032 03+25E | Soil  | 0.06  | 0.084 | 6     | 9     | 0.12  | 60    | 0.112 | <20   | 4.89  | 0.019 | 0.03  | 0.2   | 0.11  | 1.9   | <0.1  | <0.05 | 10    | <0.5  | <0.2  |
| K9L032 03+50E | Soil  | 0.05  | 0.056 | 9     | 11    | 0.12  | 42    | 0.067 | <20   | 2.10  | 0.010 | 0.03  | 0.2   | 0.07  | 1.4   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| K9L032 03+75E | Soil  | 0.27  | 0.031 | 15    | 10    | 0.14  | 79    | 0.060 | <20   | 2.03  | 0.010 | 0.06  | 0.1   | 0.04  | 1.7   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| K9L032 04+00E | Soil  | 0.65  | 0.065 | 32    | 14    | 0.40  | 77    | 0.033 | <20   | 1.24  | 0.007 | 0.06  | 0.1   | 0.07  | 1.6   | 0.1   | 0.06  | 4     | <0.5  | <0.2  |
| K9L032 04+25E | Soil  | 0.12  | 0.022 | 14    | 10    | 0.15  | 83    | 0.066 | <20   | 0.73  | 0.007 | 0.05  | 0.2   | 0.03  | 1.0   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| K9L032 04+50E | Soil  | 0.15  | 0.131 | 10    | 12    | 0.17  | 78    | 0.064 | <20   | 1.22  | 0.010 | 0.04  | 0.1   | 0.04  | 1.3   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| K9L032 04+75E | Soil  | 0.03  | 0.105 | 5     | 7     | 0.07  | 44    | 0.112 | <20   | 1.76  | 0.013 | 0.03  | <0.1  | 0.06  | 1.2   | <0.1  | <0.05 | 11    | <0.5  | <0.2  |
| K9L032 05+00E | Soil  | 0.07  | 0.009 | 15    | 8     | 0.15  | 32    | 0.038 | <20   | 0.41  | 0.005 | 0.02  | <0.1  | 0.01  | 1.2   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| K9L038 00+00  | Soil  | 0.03  | 0.069 | 18    | 14    | 0.30  | 46    | 0.035 | <20   | 1.43  | 0.005 | 0.05  | 0.2   | 0.02  | 1.8   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| K9L038 00+25W | Soil  | 0.27  | 0.043 | 16    | 13    | 0.21  | 84    | 0.036 | <20   | 2.04  | 0.013 | 0.06  | 0.2   | 0.04  | 1.9   | <0.1  | <0.05 | 8     | <0.5  | <0.2  |
| K9L038 00+50W | Soil  | 0.88  | 0.078 | 20    | 15    | 0.39  | 91    | 0.047 | <20   | 2.24  | 0.016 | 0.05  | 0.2   | 0.07  | 2.0   | 0.1   | 0.06  | 9     | <0.5  | <0.2  |
| K9L038 00+75W | Soil  | 0.47  | 0.055 | 21    | 17    | 0.38  | 95    | 0.054 | <20   | 2.12  | 0.011 | 0.07  | 0.2   | 0.03  | 2.5   | 0.1   | <0.05 | 10    | <0.5  | <0.2  |
| K9L038 01+00W | Soil  | 0.20  | 0.026 | 19    | 13    | 0.35  | 76    | 0.029 | <20   | 1.29  | 0.009 | 0.07  | 0.1   | 0.02  | 2.1   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| K9L038 01+25W | Soil  | 0.15  | 0.029 | 16    | 15    | 0.51  | 91    | 0.035 | <20   | 1.54  | 0.006 | 0.07  | 0.2   | 0.02  | 3.9   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| K9L038 01+50W | Soil  | 0.07  | 0.036 | 16    | 19    | 0.44  | 52    | 0.056 | <20   | 3.58  | 0.014 | 0.06  | 0.2   | 0.06  | 4.1   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| K9L038 01+75W | Soil  | 0.25  | 0.020 | 18    | 15    | 0.38  | 40    | 0.025 | <20   | 2.14  | 0.010 | 0.06  | 0.2   | 0.04  | 3.2   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| K9L038 02+00W | Soil  | 0.12  | 0.027 | 20    | 30    | 0.72  | 40    | 0.084 | <20   | 2.71  | 0.011 | 0.07  | 0.2   | 0.04  | 5.0   | 0.1   | <0.05 | 6     | 0.5   | <0.2  |



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

**Page:** 3 of 9 **Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19001448.1

| Method Analyte | Unit | MDL | FA330 | FA330 | FA330 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |     |
|----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|                |      |     | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V   |
|                |      |     | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |     |
|                |      |     | 2     | 3     | 2     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   |     |
| K9L038 02+25W  | Soil |     | 5     | <3    | 10    | 0.9   | 71.1  | 51.8  | 120   | 0.3   | 21.3  | 23.8  | 601   | 5.07  | 23.1  | 2.1   | 1.4   | 40    | 1.1   | 0.4   | 0.4   | 144 |
| K9L038 02+50W  | Soil |     | 28    | <3    | 7     | 1.1   | 40.5  | 69.2  | 140   | 0.9   | 18.7  | 13.1  | 565   | 2.51  | 49.3  | 1.5   | 1.7   | 39    | 1.2   | 0.1   | 0.6   | 29  |
| K9L038 02+75W  | Soil |     | 8     | <3    | 11    | 1.2   | 70.3  | 61.9  | 450   | 1.2   | 62.8  | 34.6  | 1639  | 2.88  | 75.4  | 2.5   | 2.0   | 37    | 2.5   | 0.2   | 0.8   | 37  |
| K9L038 03+00W  | Soil |     | 5     | <3    | 3     | 1.7   | 29.9  | 105.8 | 592   | 0.6   | 15.0  | 11.4  | 1769  | 1.88  | 53.5  | 1.4   | 0.6   | 47    | 3.9   | 0.4   | 0.6   | 30  |
| K9L033 00+00   | Soil |     | 5     | <3    | 5     | 1.3   | 37.5  | 14.9  | 46    | 0.1   | 18.3  | 10.9  | 892   | 2.38  | 18.2  | 1.9   | 5.3   | 8     | 0.2   | <0.1  | 0.7   | 24  |
| K9L033 00+25E  | Soil |     | 23    | <3    | 4     | 1.1   | 65.8  | 15.9  | 45    | 0.2   | 23.9  | 11.9  | 252   | 2.46  | 19.3  | 0.8   | 7.3   | 6     | 0.2   | 0.1   | 0.6   | 24  |
| K9L033 00+50E  | Soil |     | 4     | 5     | 4     | 1.0   | 49.9  | 19.9  | 54    | <0.1  | 20.4  | 11.6  | 194   | 2.75  | 19.2  | 1.2   | 6.5   | 4     | 0.1   | 0.1   | 0.7   | 29  |
| K9L033 00+75E  | Soil |     | 5     | <3    | 2     | 1.0   | 24.3  | 17.2  | 60    | 0.2   | 10.8  | 9.2   | 913   | 2.09  | 15.0  | 1.2   | 3.0   | 5     | 0.3   | 0.1   | 0.5   | 21  |
| K9L033 01+00E  | Soil |     | 6     | <3    | 4     | 1.2   | 32.7  | 19.0  | 57    | 0.1   | 17.7  | 10.4  | 308   | 2.39  | 19.9  | 12.5  | 5.5   | 7     | 0.2   | 0.1   | 0.6   | 21  |
| K9L033 01+25E  | Soil |     | 7     | <3    | <2    | 0.8   | 32.9  | 13.5  | 48    | 0.3   | 11.6  | 8.0   | 425   | 2.18  | 14.4  | 1.1   | 2.5   | 4     | 0.3   | 0.2   | 0.5   | 21  |
| K9L033 01+50E  | Soil |     | 9     | <3    | 3     | 1.5   | 134.0 | 29.2  | 47    | 0.2   | 24.7  | 12.2  | 696   | 2.41  | 25.4  | 3.1   | 4.6   | 9     | 0.3   | <0.1  | 0.8   | 21  |
| K9L033 01+75E  | Soil |     | 6     | <3    | <2    | 0.9   | 93.1  | 18.4  | 40    | 0.1   | 21.1  | 10.6  | 333   | 2.25  | 12.1  | 0.9   | 5.1   | 8     | 0.2   | 0.1   | 0.7   | 17  |
| K9L033 02+00E  | Soil |     | 6     | <3    | 4     | 0.8   | 59.2  | 10.1  | 35    | <0.1  | 12.8  | 6.3   | 194   | 2.13  | 8.8   | 0.9   | 3.9   | 4     | <0.1  | 0.2   | 0.6   | 18  |
| K9L033 02+25E  | Soil |     | 4     | <3    | 5     | 0.6   | 28.5  | 11.0  | 61    | <0.1  | 9.3   | 6.8   | 729   | 2.06  | 9.2   | <0.5  | 1.4   | 3     | 0.2   | 0.2   | 0.5   | 23  |
| K9L033 02+50E  | Soil |     | 8     | <3    | 2     | 0.9   | 60.9  | 12.9  | 35    | 0.1   | 19.1  | 9.9   | 496   | 2.02  | 12.7  | 0.8   | 3.3   | 9     | 0.2   | 0.1   | 0.6   | 18  |
| K9L033 02+75E  | Soil |     | 5     | <3    | 6     | 1.2   | 69.0  | 16.1  | 48    | 0.2   | 18.0  | 13.9  | 411   | 2.89  | 13.5  | 6.8   | 2.6   | 10    | 0.6   | 0.2   | 0.8   | 19  |
| K9L033 03+00E  | Soil |     | 6     | <3    | 5     | 1.3   | 66.5  | 22.5  | 81    | 0.4   | 15.4  | 9.6   | 718   | 2.91  | 32.6  | 18.9  | 2.2   | 15    | 0.7   | 0.1   | 0.8   | 23  |
| K9L033 03+25E  | Soil |     | 6     | <3    | 3     | 0.9   | 38.0  | 10.6  | 42    | 0.1   | 11.0  | 8.4   | 288   | 2.63  | 16.8  | 15.9  | 3.3   | 3     | <0.1  | 0.1   | 0.7   | 20  |
| K9L033 03+50E  | Soil |     | 6     | <3    | 5     | 0.8   | 42.9  | 10.6  | 27    | <0.1  | 8.7   | 5.3   | 113   | 2.14  | 7.4   | 4.3   | 2.5   | 5     | 0.2   | <0.1  | 0.7   | 14  |
| K9L033 03+75E  | Soil |     | 6     | <3    | 3     | 0.7   | 43.4  | 17.8  | 27    | 0.1   | 9.0   | 5.2   | 154   | 2.25  | 10.2  | 1.0   | 2.3   | 8     | 0.2   | 0.1   | 0.7   | 14  |
| K9L033 04+00E  | Soil |     | 10    | <3    | 3     | 0.6   | 44.3  | 17.5  | 103   | 0.3   | 12.2  | 7.6   | 776   | 2.11  | 9.7   | 1.7   | 3.1   | 13    | 0.3   | 0.1   | 0.8   | 20  |
| K9L033 04+25E  | Soil |     | 8     | <3    | 5     | 0.7   | 26.1  | 13.0  | 45    | 0.2   | 10.3  | 6.8   | 302   | 2.25  | 11.9  | 2.0   | 4.5   | 4     | 0.1   | 0.1   | 0.6   | 19  |
| K9L033 04+50E  | Soil |     | 5     | <3    | 4     | 1.3   | 36.3  | 10.6  | 41    | 0.1   | 16.2  | 6.5   | 132   | 2.43  | 18.8  | <0.5  | 3.4   | 3     | 0.1   | 0.1   | 0.7   | 17  |
| K9L033 04+75E  | Soil |     | 4     | <3    | 3     | 0.8   | 36.9  | 21.0  | 101   | 0.2   | 16.4  | 9.8   | 298   | 2.50  | 15.8  | 0.9   | 5.3   | 9     | 0.4   | 0.2   | 0.6   | 17  |
| K9L033 05+00E  | Soil |     | 5     | <3    | 4     | 0.8   | 16.8  | 14.0  | 60    | 0.1   | 8.1   | 6.5   | 178   | 1.59  | 11.3  | <0.5  | 2.9   | 6     | 0.3   | <0.1  | 0.6   | 21  |
| K9L033 05+25   | Soil |     | 4     | <3    | 2     | 1.0   | 21.5  | 41.8  | 137   | 0.1   | 12.1  | 5.6   | 120   | 2.24  | 22.9  | 0.6   | 3.9   | 3     | 0.2   | 0.1   | 0.7   | 17  |
| K9L033 05+50   | Soil |     | 4     | <3    | 2     | 1.1   | 23.5  | 80.9  | 304   | 0.4   | 14.8  | 9.9   | 216   | 2.52  | 39.5  | <0.5  | 4.7   | 3     | 0.5   | 0.1   | 0.7   | 17  |
| K9L033 05+75E  | Soil |     | 5     | <3    | 2     | 0.8   | 29.7  | 55.4  | 234   | 0.1   | 19.3  | 9.8   | 258   | 2.31  | 30.4  | <0.5  | 4.2   | 3     | 0.3   | 0.1   | 0.7   | 14  |
| K9L033 06+00E  | Soil |     | 6     | <3    | 3     | 0.6   | 17.8  | 90.4  | 521   | 0.7   | 15.4  | 9.4   | 297   | 2.58  | 49.7  | 0.5   | 6.8   | 8     | 1.9   | 0.1   | 0.5   | 25  |
| K9L033 06+25E  | Soil |     | 4     | <3    | 3     | 0.9   | 29.6  | 155.6 | 429   | 0.4   | 22.0  | 13.8  | 230   | 2.65  | 49.8  | 1.2   | 8.8   | 3     | 0.6   | 0.1   | 0.7   | 14  |

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

# VAN19001448.1

| Method        | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte       | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |       |
| Unit          | %     | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |       |
| MDL           | 0.01  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   | 0.2   |       |       |
| K9L038 02+25W | Soil  | 1.18  | 0.052 | 12    | 30    | 0.85  | 46    | 0.078 | <20   | 2.03  | 0.012 | 0.08  | 0.1   | 0.08  | 7.1   | 0.1   | 0.07  | 7     | 1.4   | <0.2  |
| K9L038 02+50W | Soil  | 1.03  | 0.072 | 33    | 17    | 0.39  | 42    | 0.045 | <20   | 2.26  | 0.015 | 0.08  | 0.1   | 0.10  | 1.9   | 0.2   | 0.07  | 4     | 1.8   | <0.2  |
| K9L038 02+75W | Soil  | 1.03  | 0.083 | 22    | 45    | 0.36  | 40    | 0.050 | <20   | 2.35  | 0.016 | 0.07  | 0.1   | 0.10  | 2.7   | 0.1   | 0.07  | 4     | 1.6   | <0.2  |
| K9L038 03+00W | Soil  | 1.49  | 0.081 | 19    | 9     | 0.22  | 51    | 0.025 | <20   | 1.47  | 0.010 | 0.05  | 0.1   | 0.11  | 1.0   | 0.1   | 0.12  | 4     | 1.6   | <0.2  |
| K9L033 00+00  | Soil  | 0.12  | 0.029 | 22    | 17    | 0.37  | 47    | 0.029 | <20   | 1.08  | 0.006 | 0.09  | 0.2   | 0.03  | 1.4   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| K9L033 00+25E | Soil  | 0.11  | 0.033 | 17    | 20    | 0.37  | 49    | 0.030 | <20   | 1.25  | 0.003 | 0.09  | 0.2   | 0.03  | 1.9   | 0.2   | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 00+50E | Soil  | 0.05  | 0.033 | 13    | 19    | 0.42  | 65    | 0.038 | <20   | 1.25  | 0.003 | 0.07  | 0.2   | 0.02  | 2.2   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L033 00+75E | Soil  | 0.05  | 0.036 | 12    | 11    | 0.16  | 82    | 0.054 | <20   | 1.47  | 0.007 | 0.05  | 0.2   | 0.03  | 1.2   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| K9L033 01+00E | Soil  | 0.13  | 0.127 | 11    | 15    | 0.24  | 80    | 0.050 | <20   | 2.32  | 0.007 | 0.08  | 0.2   | 0.04  | 1.4   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| K9L033 01+25E | Soil  | 0.05  | 0.045 | 10    | 12    | 0.21  | 69    | 0.039 | <20   | 1.66  | 0.006 | 0.06  | 0.2   | 0.04  | 1.0   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L033 01+50E | Soil  | 0.23  | 0.035 | 18    | 19    | 0.37  | 36    | 0.034 | <20   | 1.26  | 0.005 | 0.09  | 0.2   | 0.03  | 2.2   | 0.2   | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 01+75E | Soil  | 0.16  | 0.037 | 12    | 13    | 0.26  | 57    | 0.033 | <20   | 1.47  | 0.006 | 0.07  | 0.7   | 0.04  | 1.3   | 0.1   | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 02+00E | Soil  | 0.07  | 0.030 | 12    | 13    | 0.19  | 32    | 0.028 | <20   | 0.63  | 0.003 | 0.05  | 0.2   | 0.01  | 0.9   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 02+25E | Soil  | 0.04  | 0.045 | 10    | 10    | 0.15  | 82    | 0.036 | <20   | 1.18  | 0.005 | 0.05  | 0.2   | 0.03  | 0.8   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| K9L033 02+50E | Soil  | 0.23  | 0.033 | 13    | 18    | 0.27  | 40    | 0.028 | <20   | 1.05  | 0.004 | 0.08  | 0.1   | 0.04  | 1.4   | 0.1   | <0.05 | 2     | <0.5  | <0.2  |
| K9L033 02+75E | Soil  | 0.18  | 0.052 | 17    | 11    | 0.16  | 55    | 0.046 | <20   | 2.38  | 0.007 | 0.05  | 0.2   | 0.08  | 1.5   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| K9L033 03+00E | Soil  | 0.34  | 0.040 | 14    | 12    | 0.13  | 46    | 0.039 | <20   | 1.89  | 0.005 | 0.05  | 0.2   | 0.07  | 1.6   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| K9L033 03+25E | Soil  | 0.03  | 0.027 | 12    | 9     | 0.15  | 70    | 0.029 | <20   | 1.07  | 0.005 | 0.05  | 0.2   | 0.03  | 1.1   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| K9L033 03+50E | Soil  | 0.06  | 0.021 | 11    | 6     | 0.08  | 37    | 0.014 | <20   | 0.59  | 0.004 | 0.03  | 0.2   | 0.02  | 0.6   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 03+75E | Soil  | 0.12  | 0.026 | 12    | 8     | 0.10  | 41    | 0.026 | <20   | 0.83  | 0.005 | 0.04  | 0.1   | 0.03  | 0.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 04+00E | Soil  | 0.21  | 0.026 | 11    | 9     | 0.11  | 97    | 0.025 | <20   | 1.16  | 0.007 | 0.05  | 0.2   | 0.05  | 0.9   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| K9L033 04+25E | Soil  | 0.04  | 0.032 | 11    | 9     | 0.11  | 88    | 0.027 | <20   | 0.84  | 0.005 | 0.06  | 0.2   | 0.02  | 0.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| K9L033 04+50E | Soil  | 0.04  | 0.031 | 14    | 24    | 0.18  | 70    | 0.021 | <20   | 0.66  | 0.002 | 0.05  | 0.2   | 0.02  | 1.0   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 04+75E | Soil  | 0.15  | 0.032 | 10    | 13    | 0.15  | 69    | 0.048 | <20   | 1.61  | 0.011 | 0.06  | 0.2   | 0.08  | 1.3   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| K9L033 05+00E | Soil  | 0.08  | 0.013 | 12    | 10    | 0.13  | 70    | 0.027 | <20   | 0.90  | 0.003 | 0.05  | 0.2   | 0.02  | 0.8   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| K9L033 05+25  | Soil  | 0.02  | 0.020 | 14    | 16    | 0.14  | 25    | 0.030 | <20   | 0.66  | 0.004 | 0.07  | 0.2   | 0.02  | 0.8   | 0.1   | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 05+50  | Soil  | 0.04  | 0.040 | 15    | 12    | 0.17  | 50    | 0.026 | <20   | 1.19  | 0.004 | 0.07  | 0.2   | 0.03  | 1.1   | 0.1   | <0.05 | 3     | <0.5  | <0.2  |
| K9L033 05+75E | Soil  | 0.04  | 0.034 | 16    | 16    | 0.20  | 43    | 0.026 | <20   | 0.75  | 0.005 | 0.10  | 0.2   | 0.02  | 1.0   | 0.2   | <0.05 | 2     | <0.5  | <0.2  |
| K9L033 06+00E | Soil  | 0.09  | 0.037 | 20    | 11    | 0.15  | 85    | 0.099 | <20   | 2.65  | 0.012 | 0.11  | 0.2   | 0.07  | 2.2   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| K9L033 06+25E | Soil  | 0.05  | 0.031 | 20    | 13    | 0.22  | 24    | 0.042 | <20   | 1.08  | 0.003 | 0.13  | 0.3   | 0.04  | 1.2   | 0.2   | <0.05 | 2     | <0.5  | <0.2  |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

## VAN19001448.1

| Method Analyte | Unit | MDL | FA330  | FA330  | FA330  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  |        |
|----------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                |      |     | Au     | Pt     | Pd     | Mo     | Cu     | Pb     | Zn     | Ag     | Ni     | Co     | Mn     | Fe     | As     | Au     | Th     | Sr     | Cd     | Sb     | Bi     | V      |
|                |      |     | ppb    | ppb    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |        |
|                |      |     | 2      | 3      | 2      | 0.1    | 0.1    | 0.1    | 1      | 0.1    | 0.1    | 0.1    | 0.01   | 0.5    | 0.5    | 0.1    | 1      | 0.1    | 0.1    | 0.1    | 0.1    |        |
| K9L033 06+50E  | Soil |     | 4      | <3     | 3      | 0.9    | 31.7   | 15.6   | 50     | 0.1    | 15.5   | 12.7   | 353    | 2.90   | 7.7    | 0.9    | 2.8    | 7      | 0.3    | 0.2    | 0.5    | 45     |
| K9L033 06+75E  | Soil |     | 4      | <3     | 4      | 1.0    | 9.3    | 14.1   | 23     | <0.1   | 16.0   | 13.6   | 114    | 2.45   | 8.5    | <0.5   | 5.0    | 10     | 0.1    | 0.1    | 0.5    | 26     |
| K9L033 07+00E  | Soil |     | 5      | <3     | 5      | 0.7    | 8.6    | 12.9   | 16     | 0.1    | 10.0   | 9.3    | 50     | 1.99   | 3.3    | <0.5   | 6.0    | 4      | <0.1   | 0.2    | 0.3    | 24     |
| K9L033 07+25E  | Soil |     | 5      | <3     | 3      | 0.4    | 18.3   | 5.1    | 17     | <0.1   | 10.8   | 11.8   | 138    | 1.19   | 3.3    | 0.5    | 8.0    | 3      | <0.1   | <0.1   | 0.4    | 11     |
| K9L033 07+50E  | Soil |     | 4      | <3     | 5      | 0.6    | 7.9    | 14.1   | 22     | <0.1   | 10.2   | 8.5    | 100    | 1.99   | 2.1    | <0.5   | 6.0    | 7      | <0.1   | 0.2    | 0.4    | 26     |
| K9L033 07+75E  | Soil |     | 4      | <3     | 7      | 0.5    | 8.6    | 7.4    | 20     | <0.1   | 7.8    | 5.8    | 59     | 1.55   | 3.3    | <0.5   | 7.1    | 2      | <0.1   | 0.2    | 0.3    | 14     |
| K9L033 08+00E  | Soil |     | 4      | <3     | <2     | 0.4    | 4.0    | 7.5    | 13     | <0.1   | 6.2    | 5.7    | 98     | 1.41   | 3.1    | <0.5   | 5.9    | 3      | <0.1   | 0.2    | 0.2    | 18     |
| K9L033 08+25E  | Soil |     | 3      | <3     | 4      | 0.5    | 3.2    | 11.8   | 20     | <0.1   | 6.0    | 4.3    | 127    | 1.55   | 1.4    | <0.5   | 7.4    | 5      | <0.1   | 0.2    | 0.3    | 30     |
| K9L033 08+50E  | Soil |     | 4      | <3     | 7      | 0.4    | 12.5   | 16.3   | 18     | <0.1   | 14.2   | 7.1    | 482    | 1.78   | 2.6    | <0.5   | 9.4    | 13     | 0.1    | 0.2    | 0.4    | 25     |
| K9L033 08+75E  | Soil |     | 4      | <3     | 7      | 0.5    | 7.1    | 10.7   | 12     | <0.1   | 5.6    | 4.8    | 279    | 1.67   | 2.5    | <0.5   | 7.2    | 16     | 0.1    | 0.2    | 0.2    | 24     |
| K9L033 09+00E  | Soil |     | 3      | <3     | 3      | 0.4    | 9.1    | 8.3    | 32     | <0.1   | 10.6   | 7.0    | 183    | 1.84   | 2.7    | <0.5   | 6.9    | 6      | <0.1   | 0.1    | 0.4    | 31     |
| K9L033 09+25E  | Soil |     | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   |
| K9L033 09+50E  | Soil |     | 5      | <3     | 5      | 0.6    | 4.4    | 9.3    | 15     | <0.1   | 4.8    | 2.9    | 54     | 1.33   | 2.0    | <0.5   | 4.9    | 4      | <0.1   | 0.2    | 0.6    | 27     |
| K9L033 09+75E  | Soil |     | 3      | <3     | <2     | 0.6    | 2.8    | 11.3   | 18     | <0.1   | 6.8    | 4.0    | 44     | 1.34   | 1.0    | 1.0    | 7.7    | 3      | <0.1   | <0.1   | 0.4    | 23     |
| K9L033 10+00E  | Soil |     | 3      | <3     | <2     | 0.5    | 6.4    | 12.7   | 28     | <0.1   | 8.4    | 5.4    | 240    | 1.36   | 1.4    | 1.0    | 5.5    | 7      | 0.1    | 0.1    | 0.4    | 24     |
| K9L034 00+00   | Soil |     | 3      | <3     | 3      | 0.4    | 2.0    | 7.8    | 6      | <0.1   | 2.6    | 1.4    | 23     | 1.00   | 1.2    | 0.7    | 6.3    | 4      | <0.1   | <0.1   | 0.3    | 19     |
| K9L034 00+25E  | Soil |     | 5      | 6      | 6      | 0.4    | 2.2    | 9.3    | 12     | <0.1   | 2.9    | 1.5    | 184    | 0.71   | 0.9    | 0.6    | 2.9    | 4      | <0.1   | 0.2    | 0.3    | 20     |
| K9L034 00+50E  | Soil |     | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L034 00+75E  | Soil |     | 5      | <3     | 3      | 0.4    | 7.7    | 12.4   | 12     | 0.1    | 11.8   | 8.6    | 139    | 1.79   | 2.0    | 1.3    | 5.0    | 14     | <0.1   | 0.1    | 0.4    | 20     |
| K9L034 01+00E  | Soil |     | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L034 01+25E  | Soil |     | 3      | 9      | <2     | 0.5    | 7.5    | 11.0   | 18     | 0.1    | 4.2    | 2.3    | 138    | 1.23   | 2.6    | 1.0    | 3.0    | 9      | 0.2    | 0.2    | 0.4    | 26     |
| K9L034 01+50E  | Soil |     | 3      | <3     | 6      | 0.6    | 5.3    | 6.2    | 19     | <0.1   | 7.2    | 4.3    | 50     | 1.69   | 2.2    | <0.5   | 5.6    | 4      | <0.1   | 0.2    | 0.3    | 32     |
| K9L034 01+75E  | Soil |     | 4      | <3     | <2     | 0.5    | 8.5    | 7.9    | 17     | <0.1   | 9.0    | 5.1    | 55     | 1.74   | 1.9    | 0.5    | 4.4    | 6      | <0.1   | 0.2    | 0.3    | 29     |
| K9L035 00+00   | Soil |     | 5      | <3     | 7      | 1.2    | 25.3   | 53.5   | 56     | 0.4    | 11.7   | 5.5    | 98     | 2.56   | 28.2   | <0.5   | 5.7    | 4      | 0.2    | 0.4    | 0.7    | 28     |
| K9L035 00+25E  | Soil |     | 8      | <3     | 6      | 2.0    | 72.9   | 21.2   | 50     | <0.1   | 26.1   | 9.9    | 114    | 2.61   | 25.7   | 0.9    | 9.6    | 2      | <0.1   | 0.1    | 0.7    | 18     |
| K9L035 00+50E  | Soil |     | 5      | <3     | <2     | 1.5    | 34.5   | 17.5   | 49     | 0.2    | 14.9   | 5.3    | 92     | 1.98   | 23.0   | 1.8    | 6.0    | 3      | <0.1   | 0.3    | 0.7    | 20     |
| K9L035 00+75E  | Soil |     | 11     | <3     | 5      | 2.0    | 35.7   | 14.0   | 23     | <0.1   | 15.1   | 4.9    | 69     | 2.23   | 22.6   | 0.8    | 6.5    | 2      | <0.1   | 0.2    | 0.6    | 18     |
| K9L035 01+00E  | Soil |     | 5      | <3     | 6      | 1.5    | 23.1   | 7.2    | 17     | <0.1   | 9.3    | 3.5    | 54     | 1.43   | 13.5   | 0.6    | 5.7    | 1      | <0.1   | 0.1    | 0.5    | 18     |
| K9L035 01+25E  | Soil |     | 3      | <3     | <2     | 1.4    | 27.5   | 11.5   | 29     | 0.1    | 11.5   | 5.1    | 68     | 1.88   | 13.4   | 0.6    | 6.7    | 2      | <0.1   | 0.2    | 0.5    | 20     |
| K9L035 01+50E  | Soil |     | 5      | <3     | <2     | 2.4    | 35.3   | 18.0   | 31     | 0.2    | 19.6   | 6.7    | 76     | 3.29   | 26.2   | 1.0    | 7.3    | 2      | <0.1   | 0.2    | 0.8    | 23     |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

# VAN19001448.1

| Method        | AQ200 | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  |
|---------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte       | Ca    | P      | La     | Cr     | Mg     | Ba     | Ti     | B      | Al     | Na     | K      | W      | Hg     | Sc     | Tl     | S      | Ga     | Se     | Te     |        |
| Unit          | %     | %      | ppm    | ppm    | %      | ppm    | %      | ppm    | %      | %      | %      | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    |        |
| MDL           | 0.01  | 0.001  | 1      | 1      | 0.01   | 1      | 0.001  | 20     | 0.01   | 0.001  | 0.01   | 0.1    | 0.01   | 0.1    | 0.05   | 1      | 0.5    | 0.2    |        |        |
| K9L033 06+50E | Soil  | 0.09   | 0.053  | 10     | 20     | 0.28   | 62     | 0.060  | <20    | 2.26   | 0.006  | 0.06   | 0.2    | 0.06   | 2.5    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |
| K9L033 06+75E | Soil  | 0.18   | 0.028  | 14     | 16     | 0.26   | 66     | 0.030  | <20    | 1.52   | 0.005  | 0.05   | 0.2    | 0.03   | 1.4    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L033 07+00E | Soil  | 0.04   | 0.042  | 8      | 10     | 0.15   | 54     | 0.065  | <20    | 4.02   | 0.013  | 0.04   | 0.2    | 0.07   | 1.8    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |
| K9L033 07+25E | Soil  | 0.06   | 0.022  | 17     | 9      | 0.17   | 54     | 0.007  | <20    | 0.53   | 0.001  | 0.05   | <0.1   | 0.01   | 1.0    | <0.1   | <0.05  | <1     | <0.5   | <0.2   |
| K9L033 07+50E | Soil  | 0.12   | 0.034  | 11     | 12     | 0.21   | 92     | 0.048  | <20    | 2.01   | 0.009  | 0.08   | 0.3    | 0.03   | 1.5    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |
| K9L033 07+75E | Soil  | 0.02   | 0.024  | 17     | 11     | 0.16   | 30     | 0.017  | <20    | 0.67   | 0.002  | 0.05   | 0.2    | 0.01   | 0.8    | <0.1   | <0.05  | 3      | <0.5   | <0.2   |
| K9L033 08+00E | Soil  | 0.03   | 0.036  | 10     | 9      | 0.12   | 60     | 0.041  | <20    | 2.14   | 0.007  | 0.05   | 0.2    | 0.05   | 1.4    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L033 08+25E | Soil  | 0.07   | 0.043  | 18     | 10     | 0.16   | 92     | 0.037  | <20    | 1.48   | 0.007  | 0.06   | 0.2    | 0.02   | 1.0    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L033 08+50E | Soil  | 0.18   | 0.025  | 17     | 13     | 0.19   | 83     | 0.066  | <20    | 2.73   | 0.010  | 0.06   | 0.2    | 0.04   | 1.9    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L033 08+75E | Soil  | 0.28   | 0.048  | 10     | 9      | 0.08   | 56     | 0.072  | <20    | 2.69   | 0.015  | 0.05   | 0.2    | 0.06   | 1.4    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L033 09+00E | Soil  | 0.08   | 0.040  | 18     | 13     | 0.30   | 93     | 0.040  | <20    | 1.16   | 0.006  | 0.08   | 0.2    | 0.02   | 1.6    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L033 09+25E | Soil  | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   | I.S.   |
| K9L033 09+50E | Soil  | 0.06   | 0.020  | 15     | 8      | 0.13   | 51     | 0.041  | <20    | 0.70   | 0.005  | 0.05   | 0.2    | 0.02   | 0.8    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L033 09+75E | Soil  | 0.05   | 0.017  | 16     | 10     | 0.15   | 49     | 0.038  | <20    | 0.76   | 0.004  | 0.05   | 0.2    | 0.03   | 1.1    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L033 10+00E | Soil  | 0.12   | 0.056  | 14     | 11     | 0.18   | 67     | 0.042  | <20    | 1.76   | 0.008  | 0.06   | 0.1    | 0.03   | 1.5    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L034 00+00  | Soil  | 0.06   | 0.013  | 19     | 6      | 0.08   | 29     | 0.035  | <20    | 0.65   | 0.002  | 0.04   | 0.1    | 0.02   | 0.6    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L034 00+25E | Soil  | 0.06   | 0.012  | 16     | 6      | 0.11   | 63     | 0.037  | <20    | 0.60   | 0.005  | 0.04   | 0.1    | 0.01   | 0.6    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L034 00+50E | Soil  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L034 00+75E | Soil  | 0.32   | 0.040  | 15     | 11     | 0.16   | 89     | 0.036  | <20    | 2.29   | 0.006  | 0.06   | 0.2    | 0.06   | 1.5    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L034 01+00E | Soil  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L034 01+25E | Soil  | 0.14   | 0.032  | 8      | 6      | 0.09   | 66     | 0.071  | <20    | 0.98   | 0.012  | 0.05   | 0.1    | 0.03   | 0.9    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |
| K9L034 01+50E | Soil  | 0.06   | 0.028  | 17     | 10     | 0.21   | 44     | 0.041  | <20    | 0.63   | 0.004  | 0.06   | 0.2    | 0.02   | 0.9    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L034 01+75E | Soil  | 0.08   | 0.028  | 11     | 13     | 0.20   | 61     | 0.044  | <20    | 1.13   | 0.006  | 0.06   | 0.2    | 0.03   | 1.3    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L035 00+00  | Soil  | 0.04   | 0.088  | 8      | 19     | 0.14   | 51     | 0.072  | <20    | 2.70   | 0.010  | 0.06   | 0.3    | 0.08   | 1.6    | 0.1    | <0.05  | 7      | <0.5   | <0.2   |
| K9L035 00+25E | Soil  | 0.02   | 0.023  | 16     | 25     | 0.31   | 27     | 0.029  | <20    | 0.97   | 0.001  | 0.12   | 0.1    | 0.01   | 1.2    | 0.2    | <0.05  | 2      | <0.5   | <0.2   |
| K9L035 00+50E | Soil  | 0.04   | 0.019  | 17     | 12     | 0.18   | 22     | 0.027  | <20    | 0.59   | 0.001  | 0.08   | 0.1    | 0.02   | 1.0    | 0.2    | <0.05  | 3      | <0.5   | <0.2   |
| K9L035 00+75E | Soil  | <0.01  | 0.024  | 15     | 21     | 0.26   | 28     | 0.043  | <20    | 0.88   | 0.003  | 0.11   | 0.1    | 0.02   | 1.0    | 0.2    | <0.05  | 4      | <0.5   | <0.2   |
| K9L035 01+00E | Soil  | <0.01  | 0.014  | 18     | 10     | 0.13   | 20     | 0.019  | <20    | 0.68   | <0.001 | 0.05   | 0.1    | 0.02   | 0.7    | 0.1    | <0.05  | 4      | <0.5   | <0.2   |
| K9L035 01+25E | Soil  | 0.01   | 0.023  | 14     | 12     | 0.18   | 35     | 0.048  | <20    | 1.17   | 0.005  | 0.11   | 0.2    | 0.03   | 1.2    | 0.2    | <0.05  | 4      | <0.5   | <0.2   |
| K9L035 01+50E | Soil  | 0.01   | 0.052  | 13     | 26     | 0.26   | 46     | 0.042  | <20    | 1.88   | 0.004  | 0.10   | 0.2    | 0.06   | 1.6    | 0.2    | <0.05  | 5      | <0.5   | <0.2   |



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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# CERTIFICATE OF ANALYSIS

VAN19001448.1

| Method Analyte | Unit | MDL | FA330 | FA330 | FA330 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |     |
|----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|                |      |     | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V   |
|                |      |     | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |     |
|                |      |     | 2     | 3     | 2     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   |     |
| K9L035 01+75E  | Soil |     | 6     | <3    | 4     | 3.7   | 78.8  | 14.5  | 35    | 0.1   | 30.3  | 10.5  | 106   | 3.13  | 54.4  | 1.0   | 9.5   | 2     | <0.1  | 0.2   | 1.0   | 14  |
| K9L035 02+00E  | Soil |     | 4     | <3    | <2    | 2.4   | 43.4  | 13.9  | 28    | <0.1  | 21.4  | 8.2   | 98    | 2.55  | 31.2  | 0.6   | 6.7   | 3     | <0.1  | 0.2   | 0.7   | 17  |
| K9L035 02+25E  | Soil |     | 5     | 6     | 12    | 2.7   | 75.2  | 12.7  | 31    | 0.2   | 22.4  | 7.8   | 114   | 2.67  | 36.0  | 0.9   | 7.6   | 2     | <0.1  | 0.1   | 0.8   | 10  |
| K9L035 02+50E  | Soil |     | 11    | <3    | <2    | 2.7   | 79.2  | 15.7  | 29    | 0.1   | 15.3  | 6.2   | 103   | 2.52  | 44.8  | 1.4   | 7.2   | 2     | <0.1  | 0.1   | 0.7   | 11  |
| K9L035 02+75E  | Soil |     | 6     | <3    | 4     | 1.9   | 33.5  | 13.0  | 19    | 0.3   | 8.7   | 3.3   | 73    | 1.67  | 22.2  | 3.9   | 5.1   | 2     | <0.1  | 0.3   | 0.7   | 16  |
| K9L035 03+00E  | Soil |     | 6     | <3    | 4     | 1.9   | 26.7  | 9.7   | 27    | 0.1   | 11.1  | 5.7   | 71    | 1.94  | 23.8  | 28.6  | 5.1   | 2     | <0.1  | <0.1  | 0.8   | 28  |
| K9L035 03+25E  | Soil |     | 5     | 6     | 11    | 3.4   | 77.6  | 13.4  | 40    | 0.2   | 22.5  | 9.5   | 130   | 3.32  | 38.8  | 0.7   | 8.1   | 3     | <0.1  | 0.1   | 0.9   | 19  |
| K9L035 03+50E  | Soil |     | 4     | 6     | 14    | 2.7   | 37.2  | 15.5  | 46    | 0.4   | 22.2  | 11.5  | 96    | 2.74  | 36.4  | 0.6   | 5.6   | 3     | <0.1  | 0.1   | 0.5   | 22  |
| K9L035 03+75E  | Soil |     | 6     | 14    | 25    | 1.6   | 35.4  | 19.4  | 31    | <0.1  | 19.0  | 6.8   | 100   | 2.47  | 39.1  | 5.1   | 6.4   | 2     | <0.1  | 0.2   | 0.7   | 26  |
| K9L035 04+00E  | Soil |     | 5     | 7     | 18    | 1.0   | 19.7  | 11.0  | 45    | 0.1   | 14.2  | 8.9   | 131   | 2.29  | 22.7  | <0.5  | 5.6   | 2     | <0.1  | 0.1   | 0.4   | 23  |
| K9L035 04+25E  | Soil |     | 5     | 5     | 6     | 1.5   | 71.0  | 11.3  | 44    | <0.1  | 20.3  | 8.1   | 105   | 2.33  | 45.0  | 1.1   | 8.3   | 1     | <0.1  | 0.1   | 0.7   | 15  |
| K9L035 04+50E  | Soil |     | 7     | 13    | 13    | 1.0   | 36.3  | 12.2  | 46    | 0.2   | 14.4  | 8.1   | 199   | 2.22  | 28.8  | <0.5  | 6.5   | 3     | <0.1  | 0.1   | 0.5   | 19  |
| K9L035 04+75E  | Soil |     | 5     | <3    | 13    | 0.9   | 30.9  | 21.2  | 44    | 0.2   | 8.9   | 8.3   | 661   | 2.04  | 14.7  | <0.5  | 3.7   | 2     | 0.1   | 0.2   | 0.4   | 20  |
| K9L035 05+00E  | Soil |     | 10    | <3    | 10    | 1.2   | 94.9  | 28.7  | 61    | 0.2   | 16.3  | 11.0  | 213   | 2.13  | 23.1  | 0.8   | 7.4   | 2     | 0.1   | 0.1   | 0.7   | 15  |
| K9L035 05+25E  | Soil |     | 6     | <3    | 10    | 1.0   | 95.1  | 19.9  | 44    | 0.1   | 40.2  | 19.2  | 443   | 3.06  | 23.6  | <0.5  | 6.5   | 2     | 0.1   | 0.1   | 1.0   | 10  |
| K9L035 05+50E  | Soil |     | 6     | 12    | 28    | 0.9   | 88.3  | 24.9  | 131   | 0.1   | 11.2  | 6.9   | 219   | 2.28  | 41.8  | <0.5  | 4.1   | 5     | 0.2   | 0.1   | 0.6   | 20  |
| K9L035 05+75E  | Soil |     | 8     | <3    | <2    | 0.7   | 96.9  | 11.8  | 26    | <0.1  | 10.9  | 5.5   | 160   | 1.91  | 12.8  | 0.7   | 5.7   | 2     | <0.1  | 0.2   | 0.5   | 15  |
| K9L035 06+00E  | Soil |     | 4     | 5     | 12    | 1.2   | 24.4  | 20.0  | 46    | 0.1   | 11.5  | 5.3   | 162   | 3.07  | 28.9  | <0.5  | 4.1   | 4     | 0.1   | 0.2   | 0.6   | 21  |
| K9L035 06+25E  | Soil |     | 8     | 21    | 26    | 1.2   | 113.8 | 39.7  | 670   | 0.7   | 36.2  | 11.9  | 503   | 2.66  | 49.2  | 2.4   | 12.4  | 11    | 1.3   | 0.1   | 0.7   | 25  |
| K9L035 06+50E  | Soil |     | 5     | 11    | 17    | 0.7   | 47.2  | 20.2  | 155   | 0.4   | 13.1  | 7.1   | 348   | 2.18  | 29.9  | 1.6   | 4.8   | 6     | 0.5   | 0.1   | 0.5   | 24  |
| K9L035 06+75E  | Soil |     | 4     | 6     | 10    | 0.8   | 27.7  | 49.6  | 169   | 0.2   | 12.5  | 7.1   | 160   | 2.38  | 20.8  | 0.5   | 3.4   | 4     | 0.5   | 0.1   | 0.6   | 17  |
| K9L035 07+00E  | Soil |     | 10    | <3    | <2    | 1.2   | 29.6  | 175.3 | 534   | 0.1   | 13.6  | 9.4   | 170   | 2.43  | 47.4  | 1.2   | 7.8   | 4     | 0.4   | 0.2   | 1.0   | 10  |
| K9L035 07+25E  | Soil |     | 4     | <3    | <2    | 0.6   | 20.0  | 42.8  | 299   | <0.1  | 13.9  | 7.0   | 76    | 2.10  | 31.0  | <0.5  | 8.1   | 3     | 0.3   | 0.2   | 0.5   | 12  |
| K9L035 07+50E  | Soil |     | 5     | <3    | <2    | 1.0   | 18.7  | 33.5  | 200   | 0.2   | 19.7  | 19.7  | 178   | 2.56  | 36.1  | 1.3   | 6.6   | 7     | 0.5   | 0.1   | 0.8   | 14  |
| K9L035 07+75E  | Soil |     | 4     | <3    | <2    | 0.6   | 10.8  | 19.4  | 103   | <0.1  | 10.4  | 5.1   | 85    | 2.31  | 17.3  | <0.5  | 5.8   | 3     | 0.2   | 0.1   | 0.5   | 16  |
| K9L035 08+00E  | Soil |     | 5     | <3    | 3     | 0.6   | 18.4  | 26.8  | 146   | <0.1  | 12.2  | 10.5  | 213   | 2.25  | 25.5  | <0.5  | 6.3   | 3     | 0.4   | 0.2   | 0.5   | 17  |
| K9L035 08+25E  | Soil |     | 4     | <3    | 4     | 0.8   | 16.6  | 25.4  | 257   | 0.1   | 9.9   | 4.4   | 104   | 2.53  | 19.8  | 0.6   | 5.9   | 3     | 0.4   | 0.1   | 0.6   | 12  |
| K9L035 08+50E  | Soil |     | 4     | <3    | 3     | 0.9   | 36.8  | 65.7  | 213   | 0.6   | 12.8  | 4.8   | 125   | 1.75  | 27.8  | 0.6   | 2.8   | 9     | 2.0   | 0.2   | 0.6   | 15  |
| K9L035 08+75E  | Soil |     | 4     | <3    | 3     | 0.8   | 64.9  | 29.1  | 62    | <0.1  | 18.1  | 18.5  | 265   | 4.12  | 7.3   | <0.5  | 4.0   | 6     | 0.2   | 0.1   | 0.4   | 117 |
| K9L035 09+00E  | Soil |     | 3     | <3    | <2    | 0.9   | 8.9   | 24.1  | 23    | <0.1  | 4.7   | 2.9   | 58    | 1.90  | 7.1   | 0.6   | 4.5   | 7     | 0.4   | 0.2   | 0.7   | 24  |

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

# VAN19001448.1

| Method        | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |      |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte       | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |      |
| Unit          | %     | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |      |
| MDL           | 0.01  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   | 0.5   | 0.2   |      |
| K9L035 01+75E | Soil  | 0.01  | 0.037 | 18    | 26    | 0.34  | 29    | 0.022 | <20   | 1.04  | 0.001 | 0.10  | 0.1   | 0.03  | 1.2   | 0.1   | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 02+00E | Soil  | 0.03  | 0.033 | 13    | 21    | 0.26  | 45    | 0.025 | <20   | 1.37  | 0.003 | 0.07  | 0.2   | 0.03  | 1.2   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 02+25E | Soil  | 0.02  | 0.039 | 14    | 10    | 0.22  | 26    | 0.009 | <20   | 0.74  | 0.003 | 0.06  | 0.1   | 0.03  | 0.9   | <0.1  | <0.05 | 2     | <0.5  | <0.2 |
| K9L035 02+50E | Soil  | <0.01 | 0.053 | 16    | 8     | 0.16  | 42    | 0.011 | <20   | 0.78  | 0.002 | 0.07  | 0.2   | 0.02  | 0.9   | 0.1   | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 02+75E | Soil  | 0.01  | 0.035 | 14    | 7     | 0.10  | 21    | 0.018 | <20   | 0.80  | 0.003 | 0.03  | 0.2   | 0.03  | 0.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 03+00E | Soil  | 0.02  | 0.024 | 14    | 9     | 0.19  | 37    | 0.017 | <20   | 1.08  | 0.003 | 0.04  | 0.1   | 0.02  | 1.4   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 03+25E | Soil  | 0.01  | 0.059 | 16    | 12    | 0.21  | 36    | 0.019 | <20   | 0.98  | 0.003 | 0.06  | 0.2   | 0.03  | 1.2   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 03+50E | Soil  | 0.02  | 0.050 | 11    | 14    | 0.25  | 54    | 0.022 | <20   | 1.75  | 0.006 | 0.05  | 0.2   | 0.04  | 2.0   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 03+75E | Soil  | 0.02  | 0.052 | 16    | 17    | 0.23  | 44    | 0.018 | <20   | 0.92  | 0.002 | 0.05  | 0.1   | 0.02  | 1.4   | 0.1   | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 04+00E | Soil  | 0.02  | 0.082 | 12    | 18    | 0.19  | 77    | 0.023 | <20   | 1.84  | 0.004 | 0.05  | 0.2   | 0.03  | 1.4   | 0.1   | <0.05 | 5     | <0.5  | <0.2 |
| K9L035 04+25E | Soil  | 0.01  | 0.032 | 17    | 12    | 0.24  | 51    | 0.017 | <20   | 0.97  | 0.002 | 0.05  | 0.2   | 0.03  | 1.5   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 04+50E | Soil  | 0.02  | 0.091 | 12    | 12    | 0.18  | 69    | 0.029 | <20   | 1.45  | 0.008 | 0.06  | 0.2   | 0.05  | 1.6   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 04+75E | Soil  | 0.02  | 0.079 | 12    | 10    | 0.14  | 61    | 0.036 | <20   | 1.47  | 0.009 | 0.05  | 0.2   | 0.05  | 1.1   | 0.1   | <0.05 | 5     | <0.5  | <0.2 |
| K9L035 05+00E | Soil  | 0.03  | 0.050 | 15    | 9     | 0.14  | 67    | 0.013 | <20   | 1.21  | 0.003 | 0.05  | 0.2   | 0.03  | 1.1   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 05+25E | Soil  | 0.02  | 0.054 | 13    | 8     | 0.13  | 44    | 0.010 | <20   | 0.68  | 0.002 | 0.05  | 0.2   | 0.02  | 1.2   | <0.1  | <0.05 | 2     | <0.5  | <0.2 |
| K9L035 05+50E | Soil  | 0.07  | 0.022 | 16    | 14    | 0.20  | 55    | 0.013 | <20   | 1.04  | 0.003 | 0.07  | 0.2   | 0.03  | 1.2   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 05+75E | Soil  | 0.02  | 0.050 | 14    | 10    | 0.18  | 21    | 0.013 | <20   | 0.56  | 0.003 | 0.05  | 0.1   | 0.02  | 0.8   | <0.1  | <0.05 | 2     | <0.5  | <0.2 |
| K9L035 06+00E | Soil  | 0.05  | 0.040 | 15    | 13    | 0.25  | 52    | 0.040 | <20   | 0.83  | 0.004 | 0.08  | 0.2   | 0.02  | 0.9   | <0.1  | <0.05 | 5     | <0.5  | <0.2 |
| K9L035 06+25E | Soil  | 0.13  | 0.035 | 52    | 18    | 0.24  | 76    | 0.071 | <20   | 2.69  | 0.010 | 0.11  | 0.2   | 0.07  | 3.3   | 0.3   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 06+50E | Soil  | 0.06  | 0.043 | 24    | 13    | 0.15  | 60    | 0.067 | <20   | 2.76  | 0.012 | 0.08  | 0.2   | 0.07  | 1.9   | 0.2   | <0.05 | 6     | <0.5  | <0.2 |
| K9L035 06+75E | Soil  | 0.06  | 0.029 | 16    | 9     | 0.13  | 41    | 0.025 | <20   | 1.02  | 0.005 | 0.07  | 0.1   | 0.04  | 0.8   | 0.2   | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 07+00E | Soil  | 0.06  | 0.022 | 18    | 8     | 0.18  | 50    | 0.017 | <20   | 0.69  | 0.003 | 0.08  | 0.1   | 0.03  | 0.9   | 0.2   | <0.05 | 2     | <0.5  | <0.2 |
| K9L035 07+25E | Soil  | 0.04  | 0.020 | 17    | 13    | 0.25  | 31    | 0.027 | <20   | 0.79  | 0.003 | 0.10  | 0.1   | 0.02  | 1.0   | 0.2   | <0.05 | 2     | <0.5  | <0.2 |
| K9L035 07+50E | Soil  | 0.08  | 0.027 | 16    | 10    | 0.22  | 45    | 0.043 | <20   | 1.42  | 0.007 | 0.06  | 0.1   | 0.04  | 1.6   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 07+75E | Soil  | 0.03  | 0.024 | 12    | 10    | 0.20  | 45    | 0.035 | <20   | 1.10  | 0.005 | 0.11  | 0.2   | 0.03  | 1.0   | 0.2   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 08+00E | Soil  | 0.04  | 0.032 | 12    | 9     | 0.21  | 43    | 0.042 | <20   | 1.58  | 0.006 | 0.08  | 0.2   | 0.06  | 1.4   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| K9L035 08+25E | Soil  | 0.03  | 0.021 | 13    | 7     | 0.15  | 35    | 0.020 | <20   | 0.69  | 0.002 | 0.05  | 0.1   | 0.02  | 0.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 08+50E | Soil  | 0.24  | 0.024 | 14    | 6     | 0.10  | 36    | 0.021 | <20   | 0.63  | 0.006 | 0.05  | 0.1   | 0.04  | 0.8   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| K9L035 08+75E | Soil  | 0.09  | 0.027 | 12    | 7     | 0.68  | 36    | 0.041 | <20   | 1.71  | 0.005 | 0.04  | 0.1   | 0.05  | 7.1   | <0.1  | <0.05 | 6     | <0.5  | <0.2 |
| K9L035 09+00E | Soil  | 0.11  | 0.013 | 13    | 5     | 0.08  | 45    | 0.037 | <20   | 0.95  | 0.006 | 0.04  | 0.1   | 0.04  | 1.2   | <0.1  | <0.05 | 6     | <0.5  | <0.2 |



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

# VAN19001448.1

| Method Analyte | Unit | MDL | FA330  | FA330  | FA330  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  |        |
|----------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                |      |     | Au     | Pt     | Pd     | Mo     | Cu     | Pb     | Zn     | Ag     | Ni     | Co     | Mn     | Fe     | As     | Au     | Th     | Sr     | Cd     | Sb     | Bi     | V      |
|                |      |     | ppb    | ppb    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |        |
|                |      |     | 2      | 3      | 2      | 0.1    | 0.1    | 0.1    | 1      | 0.1    | 0.1    | 0.1    | 0.01   | 0.5    | 0.5    | 0.1    | 1      | 0.1    | 0.1    | 0.1    | 0.1    |        |
| K9L035 09+25E  | Soil |     | 3      | <3     | <2     | 0.8    | 18.3   | 19.9   | 44     | <0.1   | 11.9   | 5.9    | 79     | 2.70   | 22.1   | <0.5   | 8.7    | 6      | 0.1    | 0.3    | 0.5    | 13     |
| K9L035 09+50E  | Soil |     | 3      | <3     | <2     | 0.8    | 10.3   | 18.8   | 32     | 0.2    | 8.2    | 5.0    | 98     | 2.03   | 5.6    | <0.5   | 4.9    | 5      | 0.1    | 0.4    | 0.5    | 27     |
| K9L035 09+75E  | Soil |     | 4      | <3     | <2     | 0.8    | 11.6   | 11.8   | 18     | 0.1    | 10.0   | 5.6    | 64     | 1.71   | 3.4    | <0.5   | 5.7    | 4      | <0.1   | 0.1    | 0.5    | 20     |
| K9L035 10+00E  | Soil |     | 4      | <3     | <2     | 0.4    | 4.8    | 9.4    | 13     | 0.2    | 5.2    | 3.9    | 38     | 1.51   | 2.3    | <0.5   | 6.9    | 3      | 0.1    | 0.2    | 0.2    | 17     |
| K9L035 10+25E  | Soil |     | 3      | <3     | <2     | 0.2    | 3.5    | 7.5    | 18     | <0.1   | 4.6    | 2.6    | 77     | 0.80   | 1.8    | <0.5   | 6.4    | 3      | <0.1   | 0.1    | 0.3    | 8      |
| K9L035 10+50E  | Soil |     | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L035 10+75E  | Soil |     | 3      | <3     | <2     | 0.6    | 31.9   | 42.8   | 35     | 0.2    | 32.6   | 10.6   | 152    | 2.44   | 7.2    | <0.5   | 10.1   | 7      | 0.2    | 0.2    | 0.6    | 27     |
| K9L035 11+00E  | Soil |     | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L035 11+25E  | Soil |     | 3      | <3     | 2      | 0.4    | 3.6    | 11.7   | 23     | <0.1   | 5.1    | 3.2    | 252    | 1.22   | 2.8    | 1.8    | 3.7    | 14     | 0.1    | 0.2    | 0.4    | 21     |
| K9L035 11+50E  | Soil |     | 4      | <3     | <2     | 0.8    | 4.5    | 11.6   | 17     | 0.1    | 4.8    | 3.3    | 72     | 2.38   | 4.6    | <0.5   | 5.6    | 14     | <0.1   | 0.3    | 0.4    | 30     |
| K9L036 00+00   | Soil |     | 4      | <3     | <2     | 1.5    | 13.8   | 10.7   | 31     | <0.1   | 7.9    | 4.0    | 68     | 1.69   | 6.3    | <0.5   | 4.1    | 3      | 0.2    | 0.2    | 0.5    | 16     |
| K9L036 00+25E  | Soil |     | 3      | <3     | <2     | 0.7    | 9.6    | 14.4   | 33     | 0.4    | 6.8    | 4.4    | 66     | 1.88   | 4.7    | <0.5   | 5.4    | 2      | 0.1    | 0.1    | 0.5    | 32     |
| K9L036 00+50E  | Soil |     | 4      | <3     | <2     | 1.1    | 35.3   | 18.3   | 60     | <0.1   | 16.4   | 9.1    | 131    | 3.01   | 18.9   | <0.5   | 9.3    | 2      | <0.1   | 0.1    | 0.6    | 34     |
| K9L036 00+75E  | Soil |     | 3      | <3     | <2     | 0.8    | 25.0   | 34.9   | 54     | 0.1    | 20.2   | 8.4    | 88     | 2.02   | 28.8   | 4.0    | 7.7    | 6      | 0.2    | 0.1    | 0.5    | 20     |
| K9L036 01+00E  | Soil |     | 4      | <3     | <2     | 0.5    | 6.5    | 9.3    | 24     | 0.1    | 3.0    | 1.6    | 33     | 1.03   | 4.2    | <0.5   | 4.1    | 4      | 0.1    | <0.1   | 0.3    | 13     |
| K9L036 01+25E  | Soil |     | 3      | <3     | 5      | 0.8    | 12.6   | 13.5   | 57     | <0.1   | 25.0   | 9.4    | 128    | 2.67   | 5.8    | <0.5   | 7.3    | 4      | <0.1   | 0.2    | 0.4    | 39     |
| K9L036 01+50E  | Soil |     | 3      | <3     | <2     | 0.7    | 12.6   | 17.9   | 35     | 0.1    | 16.5   | 8.3    | 192    | 2.69   | 9.8    | <0.5   | 5.1    | 13     | <0.1   | 0.2    | 0.4    | 32     |
| K9L036 01+75E  | Soil |     | 3      | <3     | <2     | 0.6    | 17.0   | 10.9   | 46     | <0.1   | 24.6   | 10.1   | 692    | 2.33   | 5.8    | <0.5   | 4.3    | 6      | 0.1    | <0.1   | 0.4    | 28     |
| K9L036 02+00E  | Soil |     | 4      | <3     | <2     | 0.9    | 15.2   | 15.8   | 38     | <0.1   | 12.3   | 6.9    | 73     | 2.70   | 10.2   | <0.5   | 6.1    | 4      | <0.1   | <0.1   | 0.5    | 21     |
| K9L036 02+25E  | Soil |     | <2     | <3     | 3      | 0.7    | 13.6   | 8.6    | 31     | <0.1   | 11.7   | 5.2    | 90     | 2.06   | 5.9    | <0.5   | 5.4    | 4      | <0.1   | 0.1    | 0.4    | 19     |
| K9L036 02+50E  | Soil |     | 3      | <3     | <2     | 0.6    | 12.1   | 12.8   | 51     | <0.1   | 12.2   | 5.8    | 106    | 1.89   | 5.4    | <0.5   | 3.7    | 11     | <0.1   | <0.1   | 0.4    | 20     |
| K9L036 02+75E  | Soil |     | 7      | <3     | <2     | 0.7    | 12.0   | 18.5   | 76     | <0.1   | 11.3   | 11.0   | 264    | 2.37   | 8.2    | <0.5   | 6.6    | 4      | <0.1   | 0.2    | 0.5    | 24     |
| K9L036 03+00E  | Soil |     | 4      | <3     | <2     | 0.9    | 18.3   | 22.5   | 70     | 0.1    | 25.5   | 6.7    | 126    | 3.09   | 12.0   | <0.5   | 7.1    | 2      | 0.1    | 0.3    | 0.6    | 38     |
| K9L036 03+25E  | Soil |     | 4      | <3     | <2     | 0.6    | 14.4   | 14.9   | 58     | <0.1   | 12.4   | 6.5    | 441    | 1.81   | 7.2    | <0.5   | 8.3    | 7      | 0.1    | 0.2    | 0.5    | 19     |
| K9L036 03+50E  | Soil |     | 6      | <3     | <2     | 0.9    | 16.1   | 18.5   | 46     | 0.1    | 13.0   | 8.3    | 92     | 2.57   | 10.5   | 0.8    | 8.1    | 3      | <0.1   | 0.3    | 0.7    | 28     |
| K9L036 03+75E  | Soil |     | 3      | <3     | <2     | 0.9    | 10.2   | 15.0   | 37     | <0.1   | 21.3   | 7.8    | 124    | 2.12   | 6.9    | 2.0    | 2.5    | 8      | 0.1    | 0.1    | 0.5    | 33     |
| K9L036 04+00E  | Soil |     | <2     | <3     | <2     | 0.7    | 7.9    | 12.0   | 30     | <0.1   | 7.9    | 6.2    | 103    | 1.95   | 4.1    | <0.5   | 4.4    | 9      | <0.1   | 0.2    | 0.6    | 26     |
| K9L036 04+25E  | Soil |     | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L036 04+50E  | Soil |     | 3      | <3     | <2     | 0.8    | 29.6   | 17.2   | 48     | 0.1    | 23.8   | 15.5   | 241    | 2.68   | 7.5    | <0.5   | 6.1    | 14     | 0.1    | 0.2    | 0.6    | 21     |
| K9L037 00+00   | Soil |     | 3      | <3     | <2     | 1.0    | 11.9   | 24.3   | 57     | <0.1   | 12.1   | 6.7    | 144    | 3.20   | 10.9   | <0.5   | 4.7    | 6      | 0.1    | 0.2    | 0.8    | 43     |

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

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**Report Date:** July 08, 2019

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

## VAN19001448.1

| Method Analyte Unit MDL | AQ200 | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  |        |
|-------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                         | Ca    | P      | La     | Cr     | Mg     | Ba     | Ti     | B      | Al     | Na     | K      | W      | Hg     | Sc     | Tl     | S      | Ga     | Se     | Te     |        |
|                         | %     | %      | ppm    | ppm    | %      | ppm    | %      | ppm    | %      | %      | %      | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    |        |
|                         | 0.01  | 0.001  | 1      | 1      | 0.01   | 1      | 0.001  | 20     | 0.01   | 0.001  | 0.01   | 0.1    | 0.01   | 0.1    | 0.05   | 1      | 0.5    | 0.2    |        |        |
| K9L035 09+25E           | Soil  | 0.08   | 0.017  | 20     | 8      | 0.19   | 44     | 0.018  | <20    | 0.72   | 0.003  | 0.05   | 0.1    | 0.02   | 0.9    | <0.1   | <0.05  | 3      | <0.5   | <0.2   |
| K9L035 09+50E           | Soil  | 0.06   | 0.040  | 9      | 13     | 0.12   | 59     | 0.059  | <20    | 1.92   | 0.012  | 0.04   | 0.2    | 0.05   | 1.3    | <0.1   | <0.05  | 9      | <0.5   | <0.2   |
| K9L035 09+75E           | Soil  | 0.03   | 0.040  | 15     | 9      | 0.14   | 56     | 0.032  | <20    | 1.60   | 0.007  | 0.04   | 0.1    | 0.02   | 1.1    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L035 10+00E           | Soil  | 0.04   | 0.066  | 9      | 7      | 0.09   | 33     | 0.051  | <20    | 1.85   | 0.011  | 0.03   | 0.1    | 0.08   | 1.1    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |
| K9L035 10+25E           | Soil  | 0.03   | 0.029  | 20     | 6      | 0.14   | 34     | 0.007  | <20    | 0.36   | 0.002  | 0.05   | <0.1   | 0.01   | 0.5    | <0.1   | <0.05  | 2      | <0.5   | <0.2   |
| K9L035 10+50E           | Soil  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L035 10+75E           | Soil  | 0.08   | 0.026  | 23     | 27     | 0.33   | 84     | 0.038  | <20    | 2.62   | 0.008  | 0.08   | 0.2    | 0.04   | 2.7    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L035 11+00E           | Soil  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L035 11+25E           | Soil  | 0.31   | 0.039  | 11     | 7      | 0.14   | 54     | 0.039  | <20    | 0.54   | 0.007  | 0.06   | 0.2    | 0.02   | 0.6    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L035 11+50E           | Soil  | 0.09   | 0.147  | 6      | 8      | 0.10   | 71     | 0.114  | <20    | 2.98   | 0.012  | 0.04   | 0.3    | 0.05   | 1.5    | <0.1   | <0.05  | 11     | <0.5   | <0.2   |
| K9L036 00+00            | Soil  | 0.03   | 0.018  | 12     | 4      | 0.09   | 48     | 0.010  | <20    | 0.65   | 0.003  | 0.03   | 0.2    | 0.02   | 0.6    | <0.1   | <0.05  | 3      | <0.5   | <0.2   |
| K9L036 00+25E           | Soil  | 0.02   | 0.018  | 12     | 7      | 0.15   | 50     | 0.025  | <20    | 1.44   | 0.007  | 0.04   | 0.1    | 0.04   | 1.6    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L036 00+50E           | Soil  | 0.02   | 0.025  | 22     | 9      | 0.32   | 26     | 0.015  | <20    | 0.96   | 0.001  | 0.05   | <0.1   | 0.01   | 2.3    | <0.1   | <0.05  | 3      | <0.5   | <0.2   |
| K9L036 00+75E           | Soil  | 0.09   | 0.017  | 23     | 9      | 0.22   | 42     | 0.011  | <20    | 1.12   | 0.004  | 0.06   | 0.1    | 0.02   | 1.3    | <0.1   | <0.05  | 3      | <0.5   | <0.2   |
| K9L036 01+00E           | Soil  | 0.04   | 0.016  | 20     | 5      | 0.11   | 41     | 0.012  | <20    | 0.77   | 0.004  | 0.04   | <0.1   | 0.02   | 0.6    | <0.1   | <0.05  | 3      | <0.5   | <0.2   |
| K9L036 01+25E           | Soil  | 0.05   | 0.044  | 13     | 53     | 0.59   | 60     | 0.025  | <20    | 2.26   | 0.004  | 0.05   | 0.2    | 0.03   | 2.9    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L036 01+50E           | Soil  | 0.23   | 0.045  | 11     | 26     | 0.30   | 57     | 0.046  | <20    | 2.49   | 0.010  | 0.04   | 0.2    | 0.03   | 2.0    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |
| K9L036 01+75E           | Soil  | 0.15   | 0.043  | 14     | 37     | 0.89   | 68     | 0.007  | <20    | 1.55   | 0.003  | 0.07   | 0.1    | 0.02   | 2.3    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L036 02+00E           | Soil  | 0.09   | 0.022  | 15     | 19     | 0.28   | 70     | 0.009  | <20    | 1.39   | 0.003  | 0.05   | 0.2    | 0.02   | 1.5    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L036 02+25E           | Soil  | 0.09   | 0.026  | 14     | 19     | 0.29   | 60     | 0.010  | <20    | 0.92   | 0.002  | 0.07   | 0.2    | 0.01   | 1.1    | <0.1   | <0.05  | 3      | <0.5   | <0.2   |
| K9L036 02+50E           | Soil  | 0.14   | 0.025  | 16     | 15     | 0.27   | 57     | 0.018  | <20    | 1.00   | 0.004  | 0.07   | 0.1    | 0.01   | 1.2    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L036 02+75E           | Soil  | 0.05   | 0.077  | 12     | 19     | 0.23   | 71     | 0.025  | <20    | 2.07   | 0.004  | 0.07   | 0.2    | 0.05   | 1.8    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L036 03+00E           | Soil  | 0.02   | 0.077  | 16     | 50     | 0.35   | 42     | 0.018  | <20    | 1.28   | 0.002  | 0.06   | 0.2    | 0.03   | 2.2    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L036 03+25E           | Soil  | 0.08   | 0.068  | 22     | 18     | 0.27   | 78     | 0.014  | <20    | 0.81   | 0.003  | 0.04   | 0.2    | 0.02   | 1.2    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L036 03+50E           | Soil  | 0.02   | 0.048  | 16     | 19     | 0.24   | 44     | 0.030  | <20    | 1.37   | 0.003  | 0.05   | 0.2    | 0.04   | 1.7    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L036 03+75E           | Soil  | 0.18   | 0.029  | 15     | 34     | 0.37   | 35     | 0.016  | <20    | 0.86   | 0.002  | 0.05   | 0.1    | <0.01  | 1.7    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L036 04+00E           | Soil  | 0.19   | 0.021  | 13     | 11     | 0.23   | 44     | 0.016  | <20    | 0.77   | 0.004  | 0.05   | 0.2    | 0.01   | 1.5    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L036 04+25E           | Soil  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L036 04+50E           | Soil  | 0.33   | 0.063  | 16     | 26     | 0.51   | 90     | 0.018  | <20    | 2.31   | 0.003  | 0.06   | 0.1    | 0.04   | 2.4    | <0.1   | <0.05  | 4      | <0.5   | <0.2   |
| K9L037 00+00            | Soil  | 0.07   | 0.031  | 12     | 21     | 0.25   | 87     | 0.050  | <20    | 1.38   | 0.005  | 0.05   | 0.2    | 0.02   | 1.8    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

# VAN19001448.1

| Method Analyte | Unit | MDL | FA330  | FA330  | FA330  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  |        |
|----------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                |      |     | Au     | Pt     | Pd     | Mo     | Cu     | Pb     | Zn     | Ag     | Ni     | Co     | Mn     | Fe     | As     | Au     | Th     | Sr     | Cd     | Sb     | Bi     | V      |
|                |      |     | ppb    | ppb    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |        |
|                |      |     | 2      | 3      | 2      | 0.1    | 0.1    | 0.1    | 1      | 0.1    | 0.1    | 0.1    | 0.01   | 0.5    | 0.5    | 0.1    | 1      | 0.1    | 0.1    | 0.1    | 0.1    |        |
| K9L037 00+25W  | Soil |     | 3      | <3     | <2     | 1.0    | 16.0   | 24.1   | 59     | 0.1    | 10.8   | 8.0    | 235    | 2.49   | 19.8   | 1.5    | 10.4   | 6      | 0.1    | 0.3    | 0.6    | 34     |
| K9L037 00+50W  | Soil |     | 3      | <3     | <2     | 1.0    | 12.4   | 36.7   | 85     | <0.1   | 11.0   | 8.5    | 442    | 3.05   | 10.8   | <0.5   | 3.8    | 9      | 0.3    | 0.2    | 0.6    | 46     |
| K9L037 00+75W  | Soil |     | 3      | <3     | <2     | 1.3    | 22.5   | 25.2   | 76     | <0.1   | 14.6   | 10.8   | 235    | 4.33   | 12.5   | <0.5   | 5.4    | 9      | 0.2    | 0.2    | 0.6    | 60     |
| K9L037 01+00W  | Soil |     | 3      | <3     | <2     | 1.1    | 14.2   | 23.1   | 52     | <0.1   | 9.9    | 8.7    | 225    | 2.65   | 7.6    | 0.7    | 2.7    | 6      | 0.2    | 0.2    | 0.6    | 38     |
| K9L037 01+25W  | Soil |     | 3      | <3     | <2     | 1.1    | 10.9   | 25.6   | 43     | 0.1    | 7.2    | 5.3    | 143    | 2.80   | 8.1    | 0.9    | 3.8    | 4      | <0.1   | 0.1    | 0.7    | 32     |
| K9L037 01+50W  | Soil |     | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L037 01+75W  | Soil |     | 2      | <3     | <2     | 1.0    | 38.1   | 57.7   | 57     | 0.1    | 34.4   | 19.2   | 179    | 3.66   | 14.2   | 1.0    | 7.6    | 9      | 0.3    | 0.2    | 0.8    | 55     |
| K9L037 02+00W  | Soil |     | 4      | <3     | 2      | 0.9    | 17.5   | 27.3   | 31     | 0.2    | 11.1   | 9.5    | 92     | 2.73   | 19.9   | <0.5   | 4.3    | 28     | 0.3    | 0.1    | 0.7    | 22     |
| K9L037 02+25W  | Soil |     | 13     | <3     | <2     | 0.5    | 150.7  | 27.1   | 106    | <0.1   | 36.9   | 37.7   | 817    | 6.67   | 11.0   | 1.5    | 4.5    | 11     | 0.4    | 0.1    | 0.2    | 265    |
| K9L037 02+50W  | Soil |     | 7      | 4      | <2     | 0.5    | 60.0   | 10.8   | 107    | 0.1    | 2.0    | 36.0   | 1401   | 11.68  | 3.1    | 0.6    | 0.9    | 30     | 0.2    | 0.3    | <0.1   | 71     |
| K9L037 02+75W  | Soil |     | 2      | <3     | <2     | 1.1    | 37.0   | 18.0   | 99     | 0.2    | 11.9   | 14.1   | 401    | 3.48   | 5.7    | 0.5    | 6.3    | 5      | 0.4    | 0.3    | 0.3    | 64     |
| K9L037 03+00W  | Soil |     | 5      | <3     | 7      | 1.2    | 79.1   | 55.7   | 153    | 0.8    | 24.1   | 17.8   | 422    | 3.38   | 39.4   | 1.9    | 5.1    | 18     | 1.1    | 0.2    | 0.9    | 23     |
| K9L037 03+25W  | Soil |     | 6      | <3     | <2     | 1.0    | 33.0   | 58.3   | 575    | 0.8    | 26.2   | 16.7   | 409    | 2.72   | 82.1   | 2.0    | 4.1    | 18     | 1.5    | 0.2    | 0.7    | 14     |
| K9L037 03+50W  | Soil |     | 3      | <3     | <2     | 1.1    | 15.3   | 66.5   | 292    | 0.1    | 8.2    | 6.2    | 108    | 2.04   | 73.9   | <0.5   | 4.5    | 4      | 0.8    | 0.1    | 0.6    | 19     |
| K9L037 03+75W  | Soil |     | 3      | <3     | <2     | 1.0    | 22.9   | 146.8  | 561    | 0.2    | 12.2   | 17.9   | 210    | 2.83   | 67.0   | 0.6    | 9.1    | 8      | 1.3    | 0.1    | 0.7    | 20     |
| K9L037 04+00W  | Soil |     | 4      | <3     | 3      | 1.2    | 15.1   | 117.2  | 391    | 0.2    | 7.9    | 7.0    | 127    | 2.74   | 37.8   | <0.5   | 5.8    | 7      | 0.7    | 0.1    | 0.6    | 27     |
| K9L037 04+25W  | Soil |     | 3      | <3     | <2     | 0.8    | 25.2   | 171.6  | 725    | 0.2    | 16.6   | 14.7   | 864    | 2.85   | 40.8   | 0.8    | 8.2    | 6      | 0.9    | 0.1    | 0.6    | 34     |
| K9L037 04+50W  | Soil |     | 3      | <3     | <2     | 1.0    | 25.7   | 88.2   | 424    | 0.3    | 11.6   | 7.5    | 126    | 2.79   | 37.5   | 0.5    | 4.7    | 9      | 0.6    | 0.2    | 0.6    | 38     |
| K9L037 04+75W  | Soil |     | 6      | <3     | 3      | 1.0    | 82.5   | 100.8  | 761    | 0.3    | 30.6   | 20.3   | 468    | 3.44   | 61.7   | 0.6    | 4.1    | 15     | 0.8    | 0.3    | 0.8    | 55     |
| K9L037 05+00W  | Soil |     | 3      | <3     | <2     | 1.1    | 20.6   | 90.2   | 484    | 0.6    | 12.5   | 8.1    | 177    | 2.81   | 107.4  | <0.5   | 5.4    | 6      | 1.0    | 0.2    | 0.6    | 37     |
| K9L037 05+25W  | Soil |     | 58     | 5      | 3      | 0.8    | 168.9  | 25.3   | 121    | 0.3    | 20.2   | 12.4   | 312    | 3.43   | 23.5   | 1.0    | 5.1    | 9      | 0.2    | 0.2    | 0.5    | 48     |
| K9L037 05+50W  | Soil |     | 7      | <3     | <2     | 0.8    | 16.9   | 9.4    | 35     | <0.1   | 8.0    | 3.8    | 121    | 2.11   | 17.6   | 4.3    | 5.0    | 1      | <0.1   | 0.2    | 0.6    | 25     |
| K9L037 05+75W  | Soil |     | 4      | <3     | 2      | 1.0    | 23.1   | 15.9   | 55     | 0.2    | 12.0   | 7.7    | 141    | 2.18   | 17.9   | 0.6    | 5.4    | 3      | <0.1   | 0.1    | 0.6    | 24     |
| K9L037 06+00W  | Soil |     | 25     | 5      | <2     | 0.8    | 31.8   | 17.3   | 28     | 0.2    | 8.1    | 3.9    | 52     | 2.38   | 15.7   | 1.1    | 6.7    | 2      | <0.1   | 0.2    | 0.5    | 27     |
| K9L037 06+25W  | Soil |     | 6      | <3     | 3      | 1.0    | 31.3   | 18.2   | 43     | 0.1    | 12.5   | 6.8    | 75     | 2.67   | 19.0   | 2.9    | 6.9    | 2      | <0.1   | 0.2    | 0.6    | 32     |
| K9L037 06+50W  | Soil |     | 5      | <3     | <2     | 0.7    | 41.1   | 19.7   | 40     | 0.2    | 11.7   | 5.8    | 72     | 2.15   | 14.6   | <0.5   | 7.9    | 3      | <0.1   | 0.2    | 0.5    | 22     |
| K9L037 06+75W  | Soil |     | 5      | <3     | <2     | 0.8    | 31.7   | 17.5   | 47     | 0.1    | 12.1   | 6.2    | 112    | 2.59   | 18.6   | <0.5   | 7.6    | 3      | <0.1   | 0.1    | 0.6    | 25     |
| K9L037 07+00W  | Soil |     | 3      | <3     | <2     | 0.5    | 6.3    | 13.0   | 17     | <0.1   | 3.4    | 1.5    | 32     | 1.40   | 10.1   | <0.5   | 4.2    | 1      | <0.1   | 0.2    | 0.5    | 21     |
| K9L037 07+25W  | Soil |     | 5      | 20     | <2     | 1.2    | 102.2  | 20.8   | 64     | <0.1   | 147.2  | 28.9   | 469    | 5.78   | 129.0  | 1.0    | 6.6    | 4      | <0.1   | 0.2    | 0.7    | 139    |
| K9L037 07+50W  | Soil |     | 5      | <3     | <2     | 0.7    | 54.5   | 17.3   | 36     | 0.2    | 10.3   | 4.6    | 62     | 1.88   | 13.0   | 1.3    | 5.3    | 2      | <0.1   | 0.2    | 0.4    | 22     |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

## VAN19001448.1

| Method Analyte | Unit | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  | AQ200  |        |
|----------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                |      | Ca     | P      | La     | Cr     | Mg     | Ba     | Ti     | B      | Al     | Na     | K      | W      | Hg     | Sc     | Tl     | S      | Ga     | Se     | Te     |
| MDL            |      | %      | %      | ppm    | ppm    | %      | ppm    | %      | ppm    | %      | %      | ppm    | ppm    | ppm    | ppm    | %      | ppm    | ppm    | ppm    |        |
|                |      | 0.01   | 0.001  | 1      | 1      | 0.01   | 1      | 0.001  | 20     | 0.01   | 0.001  | 0.01   | 0.1    | 0.01   | 0.1    | 0.05   | 1      | 0.5    | 0.2    |        |
| K9L037 00+25W  | Soil | 0.09   | 0.055  | 9      | 13     | 0.23   | 68     | 0.052  | <20    | 2.84   | 0.008  | 0.05   | 0.2    | 0.05   | 2.2    | <0.1   | <0.05  | 7      | <0.5   | <0.2   |
| K9L037 00+50W  | Soil | 0.11   | 0.032  | 14     | 12     | 0.29   | 90     | 0.043  | <20    | 1.25   | 0.006  | 0.04   | 0.2    | 0.02   | 1.9    | 0.1    | <0.05  | 7      | <0.5   | <0.2   |
| K9L037 00+75W  | Soil | 0.16   | 0.054  | 14     | 14     | 0.43   | 76     | 0.055  | <20    | 1.47   | 0.005  | 0.08   | 0.2    | 0.02   | 2.9    | 0.1    | <0.05  | 7      | <0.5   | <0.2   |
| K9L037 01+00W  | Soil | 0.08   | 0.036  | 13     | 9      | 0.27   | 54     | 0.031  | <20    | 1.01   | 0.004  | 0.05   | 0.1    | 0.02   | 1.5    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 01+25W  | Soil | 0.04   | 0.032  | 11     | 9      | 0.17   | 62     | 0.015  | <20    | 1.45   | 0.004  | 0.03   | 0.2    | 0.04   | 1.3    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 01+50W  | Soil | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| K9L037 01+75W  | Soil | 0.15   | 0.035  | 17     | 23     | 0.47   | 63     | 0.028  | <20    | 1.99   | 0.004  | 0.06   | 0.2    | 0.02   | 3.7    | <0.1   | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 02+00W  | Soil | 0.58   | 0.038  | 11     | 9      | 0.24   | 36     | 0.041  | <20    | 2.89   | 0.011  | 0.03   | 0.1    | 0.06   | 1.7    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L037 02+25W  | Soil | 0.28   | 0.055  | 11     | 12     | 1.54   | 85     | 0.134  | <20    | 3.32   | 0.003  | 0.24   | 0.1    | 0.03   | 24.7   | 0.2    | <0.05  | 12     | <0.5   | <0.2   |
| K9L037 02+50W  | Soil | 0.81   | 0.145  | 5      | 2      | 1.79   | 356    | 0.356  | <20    | 4.41   | 0.006  | 0.85   | 0.2    | 0.02   | 21.9   | 0.5    | <0.05  | 23     | <0.5   | <0.2   |
| K9L037 02+75W  | Soil | 0.04   | 0.033  | 12     | 12     | 0.35   | 81     | 0.106  | <20    | 2.88   | 0.012  | 0.09   | 0.2    | 0.10   | 4.0    | 0.1    | <0.05  | 10     | <0.5   | <0.2   |
| K9L037 03+00W  | Soil | 0.43   | 0.050  | 27     | 20     | 0.22   | 35     | 0.043  | <20    | 2.53   | 0.008  | 0.06   | 0.1    | 0.09   | 2.7    | 0.1    | <0.05  | 5      | 1.0    | <0.2   |
| K9L037 03+25W  | Soil | 0.53   | 0.053  | 17     | 13     | 0.33   | 24     | 0.023  | <20    | 1.49   | 0.004  | 0.06   | <0.1   | 0.06   | 1.8    | 0.1    | <0.05  | 3      | 0.6    | <0.2   |
| K9L037 03+50W  | Soil | 0.04   | 0.020  | 15     | 9      | 0.12   | 67     | 0.023  | <20    | 1.10   | 0.005  | 0.05   | 0.2    | 0.03   | 1.0    | <0.1   | <0.05  | 5      | <0.5   | <0.2   |
| K9L037 03+75W  | Soil | 0.11   | 0.034  | 11     | 11     | 0.13   | 64     | 0.060  | <20    | 3.11   | 0.011  | 0.05   | 0.2    | 0.09   | 2.2    | <0.1   | <0.05  | 6      | 0.5    | <0.2   |
| K9L037 04+00W  | Soil | 0.13   | 0.028  | 12     | 9      | 0.12   | 73     | 0.037  | <20    | 1.95   | 0.009  | 0.05   | 0.2    | 0.05   | 1.7    | 0.1    | <0.05  | 7      | <0.5   | <0.2   |
| K9L037 04+25W  | Soil | 0.07   | 0.027  | 16     | 15     | 0.25   | 132    | 0.053  | <20    | 1.96   | 0.006  | 0.12   | 0.3    | 0.04   | 2.6    | 0.3    | <0.05  | 7      | <0.5   | <0.2   |
| K9L037 04+50W  | Soil | 0.17   | 0.030  | 12     | 14     | 0.25   | 70     | 0.048  | <20    | 1.58   | 0.006  | 0.09   | 0.2    | 0.04   | 2.2    | 0.1    | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 04+75W  | Soil | 0.35   | 0.053  | 15     | 24     | 0.45   | 66     | 0.069  | <20    | 1.47   | 0.004  | 0.09   | 0.2    | 0.06   | 4.1    | 0.1    | <0.05  | 5      | <0.5   | <0.2   |
| K9L037 05+00W  | Soil | 0.07   | 0.022  | 15     | 13     | 0.18   | 74     | 0.041  | <20    | 1.71   | 0.008  | 0.08   | 0.2    | 0.04   | 1.9    | 0.2    | <0.05  | 8      | <0.5   | <0.2   |
| K9L037 05+25W  | Soil | 0.16   | 0.035  | 14     | 22     | 0.38   | 96     | 0.069  | <20    | 1.94   | 0.008  | 0.17   | 0.3    | 0.05   | 3.5    | 0.2    | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 05+50W  | Soil | <0.01  | 0.020  | 17     | 9      | 0.16   | 27     | 0.033  | <20    | 0.80   | 0.003  | 0.09   | 0.2    | 0.01   | 0.9    | 0.2    | <0.05  | 4      | <0.5   | <0.2   |
| K9L037 05+75W  | Soil | 0.02   | 0.068  | 10     | 12     | 0.19   | 70     | 0.054  | <20    | 1.95   | 0.010  | 0.10   | 0.2    | 0.04   | 1.9    | 0.2    | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 06+00W  | Soil | 0.01   | 0.059  | 11     | 15     | 0.15   | 61     | 0.036  | <20    | 2.01   | 0.006  | 0.10   | 0.2    | 0.08   | 1.8    | 0.2    | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 06+25W  | Soil | 0.02   | 0.085  | 10     | 16     | 0.19   | 67     | 0.045  | <20    | 2.60   | 0.008  | 0.11   | 0.2    | 0.05   | 2.5    | 0.2    | <0.05  | 6      | <0.5   | <0.2   |
| K9L037 06+50W  | Soil | 0.02   | 0.062  | 11     | 15     | 0.19   | 62     | 0.038  | <20    | 1.91   | 0.006  | 0.11   | 0.2    | 0.05   | 2.0    | 0.2    | <0.05  | 5      | <0.5   | <0.2   |
| K9L037 06+75W  | Soil | 0.03   | 0.060  | 12     | 16     | 0.18   | 58     | 0.045  | <20    | 1.66   | 0.004  | 0.15   | 0.2    | 0.03   | 1.6    | 0.2    | <0.05  | 5      | <0.5   | <0.2   |
| K9L037 07+00W  | Soil | <0.01  | 0.026  | 14     | 6      | 0.07   | 26     | 0.030  | <20    | 0.79   | 0.004  | 0.06   | 0.1    | 0.02   | 0.6    | 0.2    | <0.05  | 5      | <0.5   | <0.2   |
| K9L037 07+25W  | Soil | 0.06   | 0.065  | 15     | 320    | 1.09   | 91     | 0.089  | <20    | 2.11   | 0.004  | 0.26   | 0.2    | 0.02   | 16.1   | 0.4    | <0.05  | 7      | <0.5   | <0.2   |
| K9L037 07+50W  | Soil | 0.02   | 0.077  | 9      | 14     | 0.13   | 46     | 0.045  | <20    | 2.46   | 0.008  | 0.08   | 0.2    | 0.10   | 2.0    | 0.1    | <0.05  | 6      | <0.5   | <0.2   |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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# CERTIFICATE OF ANALYSIS

## VAN19001448.1

| Method Analyte | Unit | MDL | FA330 | FA330 | FA330 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |     |
|----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|                |      |     | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V   |
|                |      |     | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |     |
| K9L037 07+75W  | Soil |     | 9     | <3    | 2     | 1.5   | 58.1  | 20.9  | 65    | 0.2   | 12.4  | 5.2   | 99    | 2.58  | 43.7  | 0.6   | 6.5   | 1     | 0.1   | 0.2   | 0.9   | 13  |
| K9L037 08+00W  | Soil |     | 4     | <3    | <2    | 1.4   | 31.6  | 21.9  | 40    | 0.4   | 13.7  | 6.3   | 90    | 2.23  | 20.3  | 1.4   | 6.1   | 1     | <0.1  | 0.2   | 0.6   | 19  |
| K9L037 08+25W  | Soil |     | 7     | 4     | <2    | 1.0   | 21.1  | 15.1  | 28    | 0.3   | 6.5   | 2.6   | 53    | 1.54  | 17.2  | 3.7   | 3.9   | 2     | 0.1   | 0.2   | 0.5   | 16  |
| K9L037 08+50W  | Soil |     | 16    | <3    | <2    | 1.2   | 45.4  | 21.8  | 38    | 0.1   | 13.3  | 6.2   | 81    | 2.26  | 20.3  | 3.3   | 6.5   | 2     | <0.1  | 0.1   | 0.6   | 17  |
| K9L037 08+75W  | Soil |     | 4     | <3    | 3     | 1.5   | 22.0  | 17.2  | 38    | <0.1  | 21.0  | 6.0   | 80    | 2.40  | 30.2  | 1.1   | 4.6   | 2     | <0.1  | 0.2   | 0.6   | 32  |
| K9L037 09+00W  | Soil |     | <2    | <3    | <2    | 2.7   | 12.4  | 14.5  | 16    | <0.1  | 4.7   | 1.8   | 29    | 1.75  | 28.1  | <0.5  | 4.0   | 2     | <0.1  | 0.2   | 1.0   | 18  |
| K9L037 09+25W  | Soil |     | 3     | <3    | <2    | 2.5   | 27.9  | 13.5  | 29    | 0.1   | 11.4  | 4.8   | 94    | 2.71  | 39.9  | <0.5  | 6.8   | 4     | <0.1  | 0.2   | 0.8   | 16  |
| K9L037 09+50W  | Soil |     | 2     | <3    | 4     | 2.8   | 35.1  | 18.9  | 36    | 0.1   | 12.6  | 5.4   | 67    | 2.44  | 22.4  | 1.2   | 8.8   | 2     | <0.1  | 0.2   | 0.7   | 17  |
| K9L037 09+75W  | Soil |     | 6     | <3    | 7     | 1.4   | 14.8  | 14.2  | 22    | 0.1   | 6.5   | 2.9   | 62    | 2.03  | 17.2  | 0.9   | 5.9   | 3     | <0.1  | 0.2   | 1.0   | 16  |
| K9L037 10+00W  | Soil |     | 4     | <3    | <2    | 1.2   | 19.4  | 13.6  | 36    | 0.1   | 16.9  | 4.3   | 76    | 2.41  | 20.8  | <0.5  | 6.2   | 3     | <0.1  | 0.1   | 0.6   | 32  |
| K9L037 10+25W  | Soil |     | 6     | <3    | 8     | 1.8   | 28.1  | 28.6  | 52    | 0.2   | 38.1  | 8.3   | 133   | 4.41  | 67.5  | 0.7   | 6.1   | 5     | 0.1   | 0.3   | 1.2   | 54  |
| K9L037 10+50W  | Soil |     | 3     | <3    | <2    | 1.3   | 13.4  | 16.3  | 40    | 0.1   | 11.1  | 4.6   | 70    | 2.37  | 18.1  | 0.6   | 4.6   | 3     | 0.2   | 0.1   | 0.7   | 29  |
| K9L037 10+75W  | Soil |     | 4     | <3    | 3     | 1.2   | 24.9  | 13.0  | 48    | <0.1  | 11.6  | 5.5   | 93    | 2.19  | 26.4  | <0.5  | 6.3   | 2     | <0.1  | 0.1   | 0.7   | 23  |
| K9L037 11+00W  | Soil |     | 4     | <3    | 3     | 0.7   | 12.7  | 12.5  | 32    | <0.1  | 6.2   | 2.9   | 96    | 1.29  | 16.1  | <0.5  | 5.3   | 1     | <0.1  | <0.1  | 0.5   | 18  |
| K9L039 00+00   | Soil |     | 3     | <3    | 4     | 0.7   | 23.1  | 90.0  | 214   | 0.6   | 8.5   | 4.4   | 76    | 2.16  | 34.3  | <0.5  | 8.3   | 3     | 0.1   | 0.3   | 0.7   | 25  |
| K9L039 00+25E  | Soil |     | 3     | <3    | 2     | 0.8   | 11.0  | 52.0  | 100   | 0.2   | 5.1   | 2.8   | 89    | 2.77  | 15.4  | <0.5  | 7.1   | 2     | <0.1  | 0.2   | 0.6   | 40  |
| K9L039 00+50E  | Soil |     | 3     | <3    | <2    | 0.5   | 11.7  | 53.2  | 98    | 0.3   | 4.7   | 1.9   | 33    | 1.26  | 13.8  | <0.5  | 5.8   | 2     | <0.1  | <0.1  | 0.4   | 18  |
| K9L039 00+75E  | Soil |     | 3     | <3    | <2    | 1.6   | 23.9  | 82.0  | 148   | 0.4   | 8.8   | 3.3   | 56    | 2.04  | 64.4  | 6.7   | 7.6   | 3     | 0.2   | 0.5   | 0.9   | 23  |
| K9L039 01+00E  | Soil |     | 3     | <3    | 4     | 0.8   | 24.3  | 89.0  | 171   | 0.5   | 12.3  | 4.3   | 71    | 2.62  | 44.3  | 0.5   | 9.9   | 2     | 0.1   | 0.2   | 0.7   | 28  |
| K9L039 01+25E  | Soil |     | 3     | 4     | <2    | 0.7   | 30.1  | 76.6  | 254   | 0.4   | 15.7  | 7.2   | 119   | 2.82  | 47.0  | <0.5  | 9.0   | 1     | 0.1   | 0.2   | 0.8   | 31  |
| K9L039 01+50E  | Soil |     | 9     | <3    | <2    | 0.7   | 13.4  | 93.8  | 208   | 0.2   | 27.2  | 7.3   | 136   | 2.54  | 35.6  | <0.5  | 6.7   | 2     | 0.2   | 0.1   | 1.3   | 34  |
| K9L039 01+75E  | Soil |     | 4     | <3    | 2     | 0.8   | 41.9  | 27.2  | 91    | <0.1  | 16.3  | 10.4  | 159   | 3.26  | 19.7  | 0.6   | 4.6   | 2     | 0.1   | 0.2   | 0.8   | 121 |
| K9L039 02+00E  | Soil |     | 3     | <3    | 6     | 0.6   | 74.6  | 105.9 | 271   | 0.7   | 21.5  | 17.4  | 231   | 3.84  | 13.2  | <0.5  | 4.5   | 3     | 0.2   | 0.2   | 0.3   | 105 |
| K9L039 02+25E  | Soil |     | 4     | <3    | 3     | 0.9   | 8.6   | 40.2  | 64    | 0.4   | 6.1   | 2.9   | 102   | 2.68  | 15.8  | <0.5  | 5.2   | 3     | 0.2   | 0.3   | 0.5   | 44  |
| K9L039 02+50E  | Soil |     | 3     | 4     | <2    | 1.1   | 19.7  | 24.1  | 101   | 0.2   | 15.4  | 9.2   | 190   | 4.86  | 16.8  | 4.3   | 3.6   | 2     | 0.2   | 0.3   | 0.5   | 164 |
| K9L039 02+75E  | Soil |     | 2     | <3    | 4     | 0.6   | 8.9   | 14.0  | 43    | 0.2   | 6.3   | 3.1   | 76    | 1.39  | 16.5  | <0.5  | 6.9   | 2     | 0.2   | 0.2   | 0.5   | 25  |
| K9L039 03+00E  | Soil |     | 3     | 3     | 7     | 0.8   | 8.0   | 34.6  | 73    | 0.2   | 11.1  | 4.7   | 160   | 2.12  | 15.1  | 1.1   | 4.2   | 4     | 0.1   | 0.2   | 0.5   | 34  |
| K9L039 03+25E  | Soil |     | 3     | <3    | 8     | 0.7   | 12.0  | 31.3  | 37    | 0.2   | 4.5   | 2.8   | 87    | 2.08  | 8.5   | <0.5  | 4.8   | 3     | 0.2   | 0.2   | 0.5   | 28  |
| K9L039 03+50E  | Soil |     | 3     | 8     | 5     | 0.7   | 55.3  | 36.8  | 117   | 0.2   | 36.9  | 26.2  | 720   | 5.26  | 9.0   | <0.5  | 3.3   | 9     | 0.4   | 0.4   | 0.3   | 139 |
| K9L039 04+00E  | Soil |     | 3     | <3    | 4     | 1.9   | 20.5  | 47.2  | 110   | 0.3   | 12.7  | 8.7   | 221   | 3.13  | 17.0  | <0.5  | 2.8   | 14    | 0.7   | 0.3   | 0.8   | 18  |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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# CERTIFICATE OF ANALYSIS

# VAN19001448.1

| Method        | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte       | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |       |
| Unit          | %     | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |       |
| MDL           | 0.01  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   | 0.5   | 0.2   |       |
| K9L037 07+75W | Soil  | 0.01  | 0.045 | 15    | 7     | 0.09  | 34    | 0.011 | <20   | 0.99  | 0.002 | 0.05  | 0.2   | 0.04  | 0.9   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| K9L037 08+00W | Soil  | 0.01  | 0.046 | 14    | 14    | 0.14  | 41    | 0.020 | <20   | 1.26  | 0.004 | 0.06  | 0.2   | 0.05  | 1.4   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 08+25W | Soil  | 0.03  | 0.034 | 12    | 8     | 0.12  | 20    | 0.018 | <20   | 0.67  | 0.003 | 0.05  | 0.1   | 0.04  | 0.7   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 08+50W | Soil  | 0.03  | 0.039 | 11    | 14    | 0.15  | 33    | 0.027 | <20   | 1.29  | 0.004 | 0.08  | 0.2   | 0.04  | 1.1   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 08+75W | Soil  | 0.03  | 0.020 | 11    | 46    | 0.25  | 25    | 0.044 | <20   | 0.80  | 0.004 | 0.08  | 0.2   | 0.02  | 1.4   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| K9L037 09+00W | Soil  | <0.01 | 0.030 | 13    | 6     | 0.11  | 22    | 0.037 | <20   | 0.59  | 0.003 | 0.07  | 0.1   | 0.02  | 0.5   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 09+25W | Soil  | 0.02  | 0.050 | 13    | 9     | 0.11  | 33    | 0.035 | <20   | 0.82  | 0.004 | 0.06  | 0.2   | 0.02  | 0.8   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 09+50W | Soil  | <0.01 | 0.035 | 20    | 12    | 0.22  | 31    | 0.045 | <20   | 1.04  | 0.003 | 0.14  | 0.2   | 0.03  | 1.1   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 09+75W | Soil  | 0.02  | 0.029 | 18    | 9     | 0.14  | 27    | 0.036 | <20   | 0.83  | 0.003 | 0.10  | 0.2   | 0.03  | 0.7   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 10+00W | Soil  | 0.02  | 0.024 | 19    | 40    | 0.32  | 28    | 0.060 | <20   | 0.98  | 0.006 | 0.10  | 0.2   | 0.02  | 1.6   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| K9L037 10+25W | Soil  | 0.08  | 0.031 | 16    | 100   | 0.27  | 58    | 0.083 | <20   | 1.39  | 0.009 | 0.11  | 0.2   | 0.06  | 2.4   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| K9L037 10+50W | Soil  | 0.02  | 0.017 | 16    | 23    | 0.20  | 48    | 0.053 | <20   | 1.07  | 0.006 | 0.07  | 0.2   | 0.03  | 1.3   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| K9L037 10+75W | Soil  | 0.01  | 0.036 | 19    | 13    | 0.18  | 27    | 0.035 | <20   | 0.60  | 0.001 | 0.08  | 0.2   | 0.01  | 0.9   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| K9L037 11+00W | Soil  | <0.01 | 0.018 | 19    | 8     | 0.12  | 25    | 0.029 | <20   | 0.76  | 0.005 | 0.06  | 0.1   | 0.03  | 0.9   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| K9L039 00+00  | Soil  | 0.03  | 0.041 | 12    | 10    | 0.12  | 46    | 0.045 | <20   | 2.61  | 0.013 | 0.07  | 0.2   | 0.08  | 2.2   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| K9L039 00+25E | Soil  | 0.02  | 0.030 | 9     | 11    | 0.10  | 37    | 0.077 | <20   | 2.29  | 0.009 | 0.07  | 0.1   | 0.04  | 1.9   | 0.2   | <0.05 | 10    | <0.5  | <0.2  |
| K9L039 00+50E | Soil  | 0.02  | 0.024 | 17    | 6     | 0.09  | 21    | 0.027 | <20   | 1.04  | 0.005 | 0.08  | 0.1   | 0.03  | 0.7   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| K9L039 00+75E | Soil  | 0.02  | 0.056 | 23    | 9     | 0.12  | 19    | 0.031 | <20   | 0.82  | 0.005 | 0.07  | 0.2   | 0.04  | 0.9   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| K9L039 01+00E | Soil  | 0.01  | 0.035 | 22    | 19    | 0.16  | 24    | 0.018 | <20   | 1.36  | 0.003 | 0.07  | 0.2   | 0.03  | 1.5   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| K9L039 01+25E | Soil  | 0.01  | 0.028 | 23    | 20    | 0.20  | 24    | 0.020 | <20   | 1.17  | 0.003 | 0.08  | 0.2   | 0.04  | 2.0   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| K9L039 01+50E | Soil  | 0.02  | 0.028 | 17    | 54    | 0.15  | 39    | 0.035 | <20   | 1.60  | 0.005 | 0.09  | 0.1   | 0.03  | 1.9   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| K9L039 01+75E | Soil  | 0.02  | 0.029 | 15    | 23    | 0.56  | 35    | 0.094 | <20   | 1.43  | 0.004 | 0.15  | 0.1   | 0.01  | 7.2   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| K9L039 02+00E | Soil  | 0.04  | 0.041 | 7     | 33    | 0.78  | 81    | 0.132 | <20   | 3.49  | 0.010 | 0.16  | 0.2   | 0.08  | 10.7  | 0.3   | <0.05 | 11    | <0.5  | <0.2  |
| K9L039 02+25E | Soil  | 0.03  | 0.043 | 6     | 19    | 0.09  | 34    | 0.090 | <20   | 2.60  | 0.014 | 0.04  | <0.1  | 0.08  | 1.8   | 0.1   | <0.05 | 11    | <0.5  | <0.2  |
| K9L039 02+50E | Soil  | 0.02  | 0.046 | 11    | 24    | 0.60  | 35    | 0.185 | <20   | 1.69  | 0.006 | 0.05  | 0.1   | 0.03  | 6.3   | 0.1   | <0.05 | 14    | <0.5  | <0.2  |
| K9L039 02+75E | Soil  | 0.01  | 0.022 | 29    | 8     | 0.15  | 23    | 0.017 | <20   | 0.79  | 0.006 | 0.04  | <0.1  | 0.03  | 1.2   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| K9L039 03+00E | Soil  | 0.04  | 0.037 | 14    | 29    | 0.22  | 44    | 0.062 | <20   | 1.52  | 0.009 | 0.10  | 0.1   | 0.04  | 1.7   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| K9L039 03+25E | Soil  | 0.02  | 0.025 | 16    | 9     | 0.22  | 39    | 0.030 | <20   | 1.45  | 0.008 | 0.03  | <0.1  | 0.06  | 1.6   | <0.1  | <0.05 | 9     | <0.5  | <0.2  |
| K9L039 03+50E | Soil  | 0.14  | 0.081 | 9     | 110   | 1.17  | 127   | 0.216 | <20   | 3.55  | 0.016 | 0.14  | 0.2   | 0.05  | 10.5  | 0.2   | <0.05 | 14    | <0.5  | <0.2  |
| K9L039 04+00E | Soil  | 0.30  | 0.057 | 17    | 8     | 0.21  | 58    | 0.013 | <20   | 1.54  | 0.007 | 0.05  | 0.1   | 0.05  | 1.2   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

Project: K9  
Report Date: July 08, 2019

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Part: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN19001448.1

| Method        | Analyte | FA330 | FA330 | FA330 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               |         | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     |
| Unit          |         | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
| MDL           |         | 2     | 3     | 2     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     |
| K9L039 04+25E | Soil    | 4     | <3    | 2     | 1.4   | 21.2  | 51.8  | 76    | 0.3   | 14.2  | 6.8   | 115   | 2.42  | 23.1  | <0.5  | 6.0   | 9     | 0.4   | 0.2   | 1.0   | 30    |
| K9L039 04+50E | Soil    | 2     | <3    | 2     | 0.9   | 9.6   | 15.2  | 34    | <0.1  | 5.1   | 2.8   | 66    | 2.30  | 12.6  | <0.5  | 6.1   | 4     | 0.1   | 0.1   | 0.5   | 24    |
| K9L039 04+75E | Soil    | 3     | <3    | 5     | 1.5   | 13.9  | 36.1  | 57    | 0.1   | 8.7   | 4.7   | 137   | 3.22  | 15.1  | <0.5  | 9.0   | 3     | 0.1   | 0.2   | 0.7   | 24    |
| K9L039 05+00E | Soil    | 3     | <3    | 4     | 1.2   | 17.6  | 33.8  | 66    | 0.2   | 10.9  | 6.3   | 184   | 3.98  | 17.5  | <0.5  | 10.5  | 4     | 0.1   | 0.3   | 0.8   | 30    |
| K9L039 05+25E | Soil    | 4     | <3    | 5     | 1.5   | 22.6  | 86.5  | 90    | <0.1  | 13.6  | 25.5  | 563   | 2.54  | 12.4  | <0.5  | 1.5   | 10    | 0.3   | 0.2   | 0.8   | 29    |
| K9L039 05+50E | Soil    | 3     | <3    | <2    | 2.0   | 39.1  | 49.1  | 102   | <0.1  | 26.1  | 8.1   | 146   | 3.36  | 17.8  | <0.5  | 9.6   | 5     | 0.2   | 0.2   | 0.9   | 32    |



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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

Project: K9  
Report Date: July 08, 2019

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Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN19001448.1

| Method        | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte       | Ca    | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |       |
| Unit          | %     | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |       |
| MDL           | 0.01  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |       |
| K9L039 04+25E | Soil  | 0.17  | 0.027 | 22    | 18    | 0.19  | 75    | 0.012 | <20   | 1.70  | 0.008 | 0.06  | 0.2   | 0.04  | 1.8   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| K9L039 04+50E | Soil  | 0.06  | 0.036 | 21    | 7     | 0.16  | 40    | 0.025 | <20   | 0.96  | 0.007 | 0.04  | 0.2   | 0.01  | 0.9   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| K9L039 04+75E | Soil  | 0.03  | 0.049 | 15    | 11    | 0.22  | 54    | 0.043 | <20   | 1.99  | 0.007 | 0.04  | 0.2   | 0.05  | 1.6   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| K9L039 05+00E | Soil  | 0.03  | 0.053 | 13    | 13    | 0.21  | 60    | 0.073 | <20   | 2.65  | 0.010 | 0.05  | 0.2   | 0.06  | 2.1   | <0.1  | <0.05 | 9     | <0.5  | <0.2  |
| K9L039 05+25E | Soil  | 0.13  | 0.034 | 21    | 12    | 0.31  | 73    | 0.016 | <20   | 1.18  | 0.006 | 0.06  | 0.1   | 0.01  | 1.3   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| K9L039 05+50E | Soil  | 0.04  | 0.028 | 21    | 14    | 0.35  | 45    | 0.038 | <20   | 1.54  | 0.005 | 0.07  | 0.2   | 0.04  | 1.9   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

**Project:** K9  
**Report Date:** July 08, 2019

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

# QUALITY CONTROL REPORT

VAN19001448.1

| Method              | FA330    | FA330 | FA330 | AQ200 | AQ200 | AQ200  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------------------|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte             | Au       | Pt    | Pd    | Mo    | Cu    | Pb     | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     |       |
| Unit                | ppb      | ppb   | ppb   | ppm   | ppm   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |       |
| MDL                 | 2        | 3     | 2     | 0.1   | 0.1   | 0.1    | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     |       |
| Pulp Duplicates     |          |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L032 04+50E       | Soil     | 5     | <3    | <2    | 0.4   | 8.7    | 11.7  | 50    | <0.1  | 6.4   | 8.3   | 911   | 1.94  | 2.8   | 0.6   | 3.0   | 9     | 0.2   | 0.2   | 0.4   | 39    |
| REP K9L032 04+50E   | QC       | 11    | <3    | <2    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L038 00+00        | Soil     | 5     | <3    | <2    | 1.2   | 13.6   | 77.2  | 122   | 0.3   | 10.9  | 5.2   | 133   | 3.15  | 39.4  | <0.5  | 6.9   | 3     | 0.2   | 0.3   | 1.0   | 43    |
| REP K9L038 00+00    | QC       |       |       |       | 1.3   | 12.4   | 77.0  | 119   | 0.3   | 11.0  | 4.8   | 142   | 3.01  | 39.8  | 0.6   | 7.0   | 3     | 0.3   | 0.3   | 1.1   | 44    |
| K9L033 01+00E       | Soil     | 6     | <3    | 4     | 1.2   | 32.7   | 19.0  | 57    | 0.1   | 17.7  | 10.4  | 308   | 2.39  | 19.9  | 12.5  | 5.5   | 7     | 0.2   | 0.1   | 0.6   | 21    |
| REP K9L033 01+00E   | QC       | 5     | <3    | 4     |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L033 05+00E       | Soil     | 5     | <3    | 4     | 0.8   | 16.8   | 14.0  | 60    | 0.1   | 8.1   | 6.5   | 178   | 1.59  | 11.3  | <0.5  | 2.9   | 6     | 0.3   | <0.1  | 0.6   | 21    |
| REP K9L033 05+00E   | QC       | 4     | <3    | 4     |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L033 05+75E       | Soil     | 5     | <3    | 2     | 0.8   | 29.7   | 55.4  | 234   | 0.1   | 19.3  | 9.8   | 258   | 2.31  | 30.4  | <0.5  | 4.2   | 3     | 0.3   | 0.1   | 0.7   | 14    |
| REP K9L033 05+75E   | QC       |       |       |       | 0.8   | 27.7   | 55.6  | 247   | 0.1   | 19.1  | 10.2  | 279   | 2.37  | 30.1  | 0.6   | 4.1   | 3     | 0.4   | 0.2   | 0.7   | 15    |
| K9L035 02+50E       | Soil     | 11    | <3    | <2    | 2.7   | 79.2   | 15.7  | 29    | 0.1   | 15.3  | 6.2   | 103   | 2.52  | 44.8  | 1.4   | 7.2   | 2     | <0.1  | 0.1   | 0.7   | 11    |
| REP K9L035 02+50E   | QC       | 6     | <3    | 14    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L035 03+25E       | Soil     | 5     | 6     | 11    | 3.4   | 77.6   | 13.4  | 40    | 0.2   | 22.5  | 9.5   | 130   | 3.32  | 38.8  | 0.7   | 8.1   | 3     | <0.1  | 0.1   | 0.9   | 19    |
| REP K9L035 03+25E   | QC       |       |       |       | 3.3   | 74.4   | 13.2  | 40    | 0.2   | 23.2  | 9.8   | 128   | 3.30  | 38.9  | 0.8   | 8.0   | 3     | <0.1  | 0.1   | 0.9   | 17    |
| K9L036 00+25E       | Soil     | 3     | <3    | <2    | 0.7   | 9.6    | 14.4  | 33    | 0.4   | 6.8   | 4.4   | 66    | 1.88  | 4.7   | <0.5  | 5.4   | 2     | 0.1   | 0.1   | 0.5   | 32    |
| REP K9L036 00+25E   | QC       | 3     | <3    | <2    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L036 01+00E       | Soil     | 4     | <3    | <2    | 0.5   | 6.5    | 9.3   | 24    | 0.1   | 3.0   | 1.6   | 33    | 1.03  | 4.2   | <0.5  | 4.1   | 4     | 0.1   | <0.1  | 0.3   | 13    |
| REP K9L036 01+00E   | QC       |       |       |       | 0.5   | 6.4    | 9.1   | 24    | 0.1   | 3.2   | 1.7   | 33    | 1.02  | 3.8   | <0.5  | 4.1   | 4     | <0.1  | <0.1  | 0.3   | 13    |
| K9L037 05+00W       | Soil     | 3     | <3    | <2    | 1.1   | 20.6   | 90.2  | 484   | 0.6   | 12.5  | 8.1   | 177   | 2.81  | 107.4 | <0.5  | 5.4   | 6     | 1.0   | 0.2   | 0.6   | 37    |
| REP K9L037 05+00W   | QC       | 3     | <3    | <2    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L037 05+75W       | Soil     | 4     | <3    | 2     | 1.0   | 23.1   | 15.9  | 55    | 0.2   | 12.0  | 7.7   | 141   | 2.18  | 17.9  | 0.6   | 5.4   | 3     | <0.1  | 0.1   | 0.6   | 24    |
| REP K9L037 05+75W   | QC       |       |       |       | 1.0   | 22.6   | 16.0  | 56    | 0.2   | 11.8  | 8.2   | 147   | 2.29  | 18.1  | 1.0   | 5.5   | 3     | <0.1  | 0.1   | 0.6   | 25    |
| K9L039 03+00E       | Soil     | 3     | 3     | 7     | 0.8   | 8.0    | 34.6  | 73    | 0.2   | 11.1  | 4.7   | 160   | 2.12  | 15.1  | 1.1   | 4.2   | 4     | 0.1   | 0.2   | 0.5   | 34    |
| REP K9L039 03+00E   | QC       | 3     | <3    | <2    |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| K9L039 03+50E       | Soil     | 3     | 8     | 5     | 0.7   | 55.3   | 36.8  | 117   | 0.2   | 36.9  | 26.2  | 720   | 5.26  | 9.0   | <0.5  | 3.3   | 9     | 0.4   | 0.4   | 0.3   | 139   |
| REP K9L039 03+50E   | QC       |       |       |       | 0.7   | 55.1   | 35.7  | 117   | 0.2   | 36.4  | 26.4  | 717   | 5.33  | 9.3   | <0.5  | 3.3   | 9     | 0.4   | 0.4   | 0.3   | 142   |
| Reference Materials |          |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD BVGE001         | Standard |       |       |       | 10.0  | 4214.2 | 187.0 | 1653  | 2.4   | 175.4 | 25.0  | 706   | 3.74  | 118.5 | 215.9 | 15.0  | 52    | 6.2   | 3.2   | 23.9  | 83    |



# QUALITY CONTROL REPORT

VAN19001448.1

| Method              | AQ200    | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |      |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte             | Ca       | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |      |
| Unit                | %        | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |      |
| MDL                 | 0.01     | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   | 0.2   |       |      |
| Pulp Duplicates     |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L032 04+50E       | Soil     | 0.15  | 0.131 | 10    | 12    | 0.17  | 78    | 0.064 | <20   | 1.22  | 0.010 | 0.04  | 0.1   | 0.04  | 1.3   | <0.1  | <0.05 | 7     | <0.5  | <0.2 |
| REP K9L032 04+50E   | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L038 00+00        | Soil     | 0.03  | 0.069 | 18    | 14    | 0.30  | 46    | 0.035 | <20   | 1.43  | 0.005 | 0.05  | 0.2   | 0.02  | 1.8   | 0.1   | <0.05 | 8     | <0.5  | <0.2 |
| REP K9L038 00+00    | QC       | 0.03  | 0.067 | 18    | 14    | 0.30  | 46    | 0.037 | <20   | 1.33  | 0.006 | 0.05  | 0.2   | 0.02  | 2.0   | 0.1   | <0.05 | 8     | <0.5  | <0.2 |
| K9L033 01+00E       | Soil     | 0.13  | 0.127 | 11    | 15    | 0.24  | 80    | 0.050 | <20   | 2.32  | 0.007 | 0.08  | 0.2   | 0.04  | 1.4   | 0.1   | <0.05 | 5     | <0.5  | <0.2 |
| REP K9L033 01+00E   | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L033 05+00E       | Soil     | 0.08  | 0.013 | 12    | 10    | 0.13  | 70    | 0.027 | <20   | 0.90  | 0.003 | 0.05  | 0.2   | 0.02  | 0.8   | 0.1   | <0.05 | 5     | <0.5  | <0.2 |
| REP K9L033 05+00E   | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L033 05+75E       | Soil     | 0.04  | 0.034 | 16    | 16    | 0.20  | 43    | 0.026 | <20   | 0.75  | 0.005 | 0.10  | 0.2   | 0.02  | 1.0   | 0.2   | <0.05 | 2     | <0.5  | <0.2 |
| REP K9L033 05+75E   | QC       | 0.04  | 0.030 | 17    | 17    | 0.23  | 43    | 0.026 | <20   | 0.75  | 0.004 | 0.11  | 0.2   | 0.02  | 1.0   | 0.2   | <0.05 | 2     | <0.5  | <0.2 |
| K9L035 02+50E       | Soil     | <0.01 | 0.053 | 16    | 8     | 0.16  | 42    | 0.011 | <20   | 0.78  | 0.002 | 0.07  | 0.2   | 0.02  | 0.9   | 0.1   | <0.05 | 3     | <0.5  | <0.2 |
| REP K9L035 02+50E   | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L035 03+25E       | Soil     | 0.01  | 0.059 | 16    | 12    | 0.21  | 36    | 0.019 | <20   | 0.98  | 0.003 | 0.06  | 0.2   | 0.03  | 1.2   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| REP K9L035 03+25E   | QC       | 0.01  | 0.060 | 16    | 12    | 0.20  | 36    | 0.019 | <20   | 0.98  | 0.003 | 0.07  | 0.2   | 0.02  | 1.2   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| K9L036 00+25E       | Soil     | 0.02  | 0.018 | 12    | 7     | 0.15  | 50    | 0.025 | <20   | 1.44  | 0.007 | 0.04  | 0.1   | 0.04  | 1.6   | <0.1  | <0.05 | 6     | <0.5  | <0.2 |
| REP K9L036 00+25E   | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L036 01+00E       | Soil     | 0.04  | 0.016 | 20    | 5     | 0.11  | 41    | 0.012 | <20   | 0.77  | 0.004 | 0.04  | <0.1  | 0.02  | 0.6   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| REP K9L036 01+00E   | QC       | 0.04  | 0.016 | 19    | 5     | 0.12  | 42    | 0.012 | <20   | 0.81  | 0.003 | 0.04  | <0.1  | 0.02  | 0.6   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| K9L037 05+00W       | Soil     | 0.07  | 0.022 | 15    | 13    | 0.18  | 74    | 0.041 | <20   | 1.71  | 0.008 | 0.08  | 0.2   | 0.04  | 1.9   | 0.2   | <0.05 | 8     | <0.5  | <0.2 |
| REP K9L037 05+00W   | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L037 05+75W       | Soil     | 0.02  | 0.068 | 10    | 12    | 0.19  | 70    | 0.054 | <20   | 1.95  | 0.010 | 0.10  | 0.2   | 0.04  | 1.9   | 0.2   | <0.05 | 6     | <0.5  | <0.2 |
| REP K9L037 05+75W   | QC       | 0.02  | 0.069 | 10    | 13    | 0.17  | 68    | 0.056 | <20   | 1.89  | 0.011 | 0.09  | 0.2   | 0.04  | 1.9   | 0.2   | <0.05 | 6     | <0.5  | <0.2 |
| K9L039 03+00E       | Soil     | 0.04  | 0.037 | 14    | 29    | 0.22  | 44    | 0.062 | <20   | 1.52  | 0.009 | 0.10  | 0.1   | 0.04  | 1.7   | 0.3   | <0.05 | 7     | <0.5  | <0.2 |
| REP K9L039 03+00E   | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| K9L039 03+50E       | Soil     | 0.14  | 0.081 | 9     | 110   | 1.17  | 127   | 0.216 | <20   | 3.55  | 0.016 | 0.14  | 0.2   | 0.05  | 10.5  | 0.2   | <0.05 | 14    | <0.5  | <0.2 |
| REP K9L039 03+50E   | QC       | 0.14  | 0.084 | 9     | 112   | 1.18  | 127   | 0.218 | <20   | 3.44  | 0.016 | 0.15  | 0.2   | 0.05  | 10.7  | 0.2   | <0.05 | 13    | <0.5  | <0.2 |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| STD BVGE001         | Standard | 1.13  | 0.081 | 26    | 167   | 1.18  | 340   | 0.233 | <20   | 2.17  | 0.194 | 0.77  | 5.0   | 0.09  | 6.6   | 0.6   | 0.72  | 7     | 4.4   | 1.0  |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client: TerraLogic Exploration Inc.**  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

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|                       |          | FA330 | FA330 | FA330 | AQ200 | AQ200  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|-----------------------|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       |          | Au    | Pt    | Pd    | Mo    | Cu     | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     |
|                       |          | ppb   | ppb   | ppb   | ppm   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                       |          | 2     | 3     | 2     | 0.1   | 0.1    | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   |
| STD BVGE001           | Standard |       |       |       | 10.9  | 4352.3 | 187.9 | 1581  | 2.5   | 162.8 | 25.7  | 730   | 3.75  | 123.3 | 215.6 | 16.2  | 55    | 6.5   | 2.4   | 26.4  | 78    |
| STD BVGE001           | Standard |       |       |       | 10.0  | 4131.0 | 184.3 | 1564  | 2.3   | 160.0 | 24.7  | 700   | 3.61  | 117.2 | 208.6 | 15.8  | 53    | 6.1   | 3.0   | 25.0  | 76    |
| STD DS11              | Standard |       |       |       | 15.0  | 147.8  | 139.8 | 339   | 1.8   | 85.5  | 14.6  | 1080  | 3.20  | 42.9  | 78.0  | 8.6   | 68    | 2.4   | 7.8   | 11.1  | 55    |
| STD DS11              | Standard |       |       |       | 14.1  | 143.8  | 139.7 | 349   | 1.6   | 82.2  | 14.7  | 1007  | 2.92  | 43.4  | 121.6 | 8.1   | 65    | 2.3   | 8.2   | 11.1  | 51    |
| STD DS11              | Standard |       |       |       | 13.0  | 153.5  | 136.9 | 324   | 1.8   | 75.0  | 13.6  | 968   | 2.92  | 42.0  | 44.4  | 8.4   | 61    | 2.3   | 9.2   | 11.7  | 47    |
| STD OREAS262          | Standard |       |       |       | 0.6   | 103.2  | 55.4  | 144   | 0.4   | 61.2  | 27.8  | 506   | 3.25  | 37.2  | 68.5  | 9.8   | 34    | 0.7   | 3.4   | 1.0   | 21    |
| STD OREAS262          | Standard |       |       |       | 0.6   | 108.4  | 53.9  | 146   | 0.4   | 61.9  | 27.1  | 523   | 3.29  | 35.0  | 72.3  | 9.6   | 31    | 0.6   | 3.9   | 0.9   | 22    |
| STD OREAS262          | Standard |       |       |       | 0.6   | 113.9  | 56.5  | 152   | 0.4   | 65.1  | 27.9  | 560   | 3.41  | 35.7  | 73.5  | 9.9   | 33    | 0.7   | 4.1   | 1.0   | 22    |
| STD OREAS262          | Standard |       |       |       | 0.7   | 116.8  | 58.7  | 141   | 0.4   | 61.4  | 27.6  | 510   | 3.12  | 36.3  | 70.4  | 9.9   | 35    | 0.6   | 3.3   | 1.1   | 21    |
| STD OREAS262          | Standard |       |       |       | 0.6   | 117.5  | 56.7  | 141   | 0.4   | 59.9  | 26.2  | 492   | 3.11  | 34.9  | 71.7  | 9.7   | 34    | 0.7   | 4.6   | 1.0   | 20    |
| STD OREAS262          | Standard |       |       |       | 0.7   | 116.1  | 56.9  | 140   | 0.4   | 61.0  | 27.1  | 504   | 3.19  | 36.0  | 72.2  | 9.5   | 35    | 0.6   | 4.7   | 1.0   | 22    |
| STD PD05              | Standard | 489   | 421   | 586   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05              | Standard | 509   | 434   | 602   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05              | Standard | 532   | 437   | 627   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05              | Standard | 512   | 425   | 593   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05              | Standard | 540   | 449   | 636   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05              | Standard | 525   | 448   | 633   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PD05              | Standard | 520   | 442   | 618   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04              | Standard | 957   | 881   | 1194  |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04              | Standard | 936   | 870   | 1176  |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04              | Standard | 1018  | 937   | 1256  |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04              | Standard | 989   | 891   | 1196  |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04              | Standard | 1013  | 925   | 1240  |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04              | Standard | 1006  | 905   | 1212  |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD PG04              | Standard | 992   | 918   | 1223  |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD DS11 Expected     |          |       |       |       | 13.9  | 149    | 138   | 345   | 1.71  | 77.7  | 14.2  | 1055  | 3.1   | 42.8  | 79    | 7.65  | 67.3  | 2.37  | 7.2   | 12.2  | 50    |
| STD BVGE001 Expected  |          |       |       |       | 10.8  | 4415   | 187   | 1741  | 2.53  | 163   | 25    | 733   | 3.7   | 121   | 219   | 14.4  | 55    | 6.5   | 2.2   | 25.6  | 73    |
| STD OREAS262 Expected |          |       |       |       | 0.68  | 118    | 56    | 154   | 0.45  | 62    | 26.9  | 530   | 3.284 | 35.8  | 65    | 9.33  | 36    | 0.61  | 3.39  | 1.03  | 22.5  |
| STD PD05 Expected     |          | 519   | 430   | 596   |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

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|                       |          | AQ200  | AQ200  | AQ200 | AQ200 | AQ200  | AQ200 | AQ200  | AQ200 | AQ200 | AQ200  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200  | AQ200 | AQ200 | AQ200 |
|-----------------------|----------|--------|--------|-------|-------|--------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
|                       |          | Ca     | P      | La    | Cr    | Mg     | Ba    | Ti     | B     | Al    | Na     | K     | W     | Hg    | Sc    | Tl    | S      | Ga    | Se    | Te    |
|                       |          | %      | %      | ppm   | ppm   | %      | ppm   | %      | ppm   | %     | %      | %     | ppm   | ppm   | ppm   | ppm   | %      | ppm   | ppm   | ppm   |
|                       |          | 0.01   | 0.001  | 1     | 1     | 0.01   | 1     | 0.001  | 20    | 0.01  | 0.001  | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1      | 0.5   | 0.5   | 0.2   |
| STD BVGEO01           | Standard | 1.29   | 0.075  | 27    | 178   | 1.26   | 340   | 0.233  | <20   | 2.16  | 0.188  | 0.89  | 3.3   | 0.10  | 6.2   | 0.6   | 0.69   | 7     | 4.9   | 1.0   |
| STD BVGEO01           | Standard | 1.26   | 0.073  | 26    | 160   | 1.22   | 336   | 0.228  | <20   | 2.12  | 0.169  | 0.82  | 3.9   | 0.09  | 5.8   | 0.6   | 0.68   | 7     | 4.7   | 1.0   |
| STD DS11              | Standard | 1.04   | 0.070  | 19    | 60    | 0.82   | 443   | 0.095  | <20   | 1.11  | 0.076  | 0.40  | 2.7   | 0.24  | 3.3   | 5.3   | 0.28   | 5     | 2.3   | 4.6   |
| STD DS11              | Standard | 0.97   | 0.081  | 17    | 60    | 0.86   | 409   | 0.088  | <20   | 1.12  | 0.074  | 0.38  | 2.5   | 0.25  | 3.2   | 5.0   | 0.29   | 5     | 1.9   | 4.7   |
| STD DS11              | Standard | 0.92   | 0.068  | 17    | 54    | 0.78   | 385   | 0.087  | <20   | 1.05  | 0.065  | 0.35  | 3.1   | 0.22  | 3.1   | 4.7   | 0.25   | 5     | 1.7   | 4.2   |
| STD OREAS262          | Standard | 2.73   | 0.038  | 17    | 44    | 1.08   | 244   | 0.003  | <20   | 1.17  | 0.068  | 0.29  | 0.1   | 0.15  | 3.9   | 0.5   | 0.25   | 4     | <0.5  | 0.2   |
| STD OREAS262          | Standard | 2.71   | 0.040  | 15    | 42    | 1.07   | 232   | 0.003  | <20   | 1.16  | 0.061  | 0.28  | 0.1   | 0.15  | 3.7   | 0.5   | 0.28   | 4     | <0.5  | 0.2   |
| STD OREAS262          | Standard | 2.99   | 0.036  | 15    | 40    | 1.14   | 243   | 0.003  | <20   | 1.13  | 0.070  | 0.30  | 0.1   | 0.15  | 3.4   | 0.4   | 0.28   | 4     | <0.5  | 0.3   |
| STD OREAS262          | Standard | 2.72   | 0.039  | 17    | 40    | 1.09   | 263   | 0.003  | <20   | 1.16  | 0.063  | 0.28  | 0.1   | 0.16  | 3.3   | 0.5   | 0.23   | 4     | <0.5  | 0.2   |
| STD OREAS262          | Standard | 2.68   | 0.039  | 15    | 38    | 1.05   | 244   | 0.003  | <20   | 1.08  | 0.061  | 0.26  | 0.2   | 0.15  | 3.1   | 0.5   | 0.22   | 3     | <0.5  | <0.2  |
| STD OREAS262          | Standard | 2.82   | 0.038  | 15    | 40    | 1.09   | 241   | 0.003  | <20   | 1.10  | 0.062  | 0.26  | 0.1   | 0.15  | 3.1   | 0.4   | 0.25   | 3     | <0.5  | 0.2   |
| STD PD05              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PD05              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PD05              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PD05              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PD05              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PD05              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PD05              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PG04              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PG04              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PG04              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PG04              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PG04              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PG04              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD PG04              | Standard |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |
| STD DS11 Expected     |          | 1.063  | 0.0701 | 18.6  | 61.5  | 0.85   | 417   | 0.0976 |       | 1.129 | 0.0694 | 0.4   | 2.9   | 0.26  | 3.1   | 4.9   | 0.2835 | 4.7   | 2.2   | 4.56  |
| STD BVGEO01 Expected  |          | 1.3219 | 0.0727 | 25.9  | 171   | 1.2963 | 340   | 0.233  |       | 2.347 | 0.1924 | 0.89  | 3.5   | 0.1   | 5.97  | 0.62  | 0.6655 | 7.37  | 5.09  | 1.07  |
| STD OREAS262 Expected |          | 2.98   | 0.04   | 15.9  | 41.7  | 1.17   | 248   | 0.003  |       | 1.204 | 0.071  | 0.312 | 0.13  | 0.17  | 3.24  | 0.47  | 0.253  | 3.73  | 0.4   | 0.23  |
| STD PD05 Expected     |          |        |        |       |       |        |       |        |       |       |        |       |       |       |       |       |        |       |       |       |



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
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# QUALITY CONTROL REPORT

VAN19001448.1

|                   |       | FA330 | FA330 | FA330 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   |       | Au    | Pt    | Pd    | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     |
|                   |       | ppb   | ppb   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                   |       | 2     | 3     | 2     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     |
| STD PG04 Expected |       | 996   | 910   | 1210  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK               | Blank |       |       |       | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | 3     |
| BLK               | Blank |       |       |       | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | 3     |
| BLK               | Blank |       |       |       | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    |
| BLK               | Blank |       |       |       | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    |
| BLK               | Blank |       |       |       | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    |
| BLK               | Blank |       |       |       | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    |
| BLK               | Blank | 4     | <3    | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK               | Blank | 2     | <3    | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK               | Blank | 4     | <3    | 8     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK               | Blank | 5     | <3    | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK               | Blank | 3     | <3    | <2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK               | Blank | 2     | <3    | <2    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK               | Blank | 3     | <3    | 5     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** TerraLogic Exploration Inc.  
Suite 200, 44 - 12th Ave. S.  
Cranbrook British Columbia V1C 2R7 Canada

Project: K9  
Report Date: July 08, 2019

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# QUALITY CONTROL REPORT

VAN19001448.1

|                   |       | AQ200 | AQ200  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200  | AQ200 | AQ200 | AQ200  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |      |  |
|-------------------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|
|                   |       | Ca    | P      | La    | Cr    | Mg    | Ba    | Ti     | B     | Al    | Na     | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te   |  |
|                   |       | %     | %      | ppm   | ppm   | %     | ppm   | %      | ppm   | %     | %      | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm  |  |
|                   |       | 0.01  | 0.001  | 1     | 1     | 0.01  | 1     | 0.001  | 20    | 0.01  | 0.001  | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2  |  |
| STD PG04 Expected |       |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |
| BLK               | Blank | <0.01 | <0.001 | <1    | <1    | <0.01 | <1    | <0.001 | <20   | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  | <0.2 |  |
| BLK               | Blank | <0.01 | <0.001 | <1    | <1    | <0.01 | <1    | <0.001 | <20   | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  | <0.2 |  |
| BLK               | Blank | <0.01 | <0.001 | <1    | <1    | <0.01 | <1    | <0.001 | <20   | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  | <0.2 |  |
| BLK               | Blank | <0.01 | <0.001 | <1    | <1    | <0.01 | <1    | <0.001 | <20   | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  | <0.2 |  |
| BLK               | Blank | <0.01 | <0.001 | <1    | <1    | <0.01 | <1    | <0.001 | <20   | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  | <0.2 |  |
| BLK               | Blank | <0.01 | <0.001 | <1    | <1    | <0.01 | <1    | <0.001 | <20   | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  | <0.2 |  |
| BLK               | Blank |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |
| BLK               | Blank |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |
| BLK               | Blank |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |
| BLK               | Blank |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |
| BLK               | Blank |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |
| BLK               | Blank |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |
| BLK               | Blank |       |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |      |  |