

**Assessment Report on Soil Sampling and  
Ground magnetic Survey  
TLK PROPERTY, YUKON TERRITORY**

**N.T.S. 105C/06  
Whitehorse Mining District**

**60° 24'30"N - 113° 15' 10"W**

**Work performed on: July 26<sup>th</sup> -29<sup>th</sup>, 2009**

<b>Claim Number</b>	<b>Claim Name</b>	<b>Claim Number</b>	<b>Claim Name</b>
YC65581	TLK 1	YC65599	TLK 19
YC65582	TLK 2	YC65600	TLK 20
YC65583	TLK 3	YC65601	TLK 21
YC65584	TLK 4	YC65602	TLK 22
YC65585	TLK 5	YC65603	TLK 23
YC65586	TLK 6	YC65604	TLK 24
YC65587	TLK 7	YC65605	TLK 25
YC65588	TLK 8	YC65606	TLK 26
YC65589	TLK 9	YC65607	TLK 27
YC65590	TLK 10	YC65608	TLK 28
YC65591	TLK 11	YC65609	TLK 29
YC65592	TLK 12	YC65610	TLK 30
YC65593	TLK 13	YC65611	TLK 31
YC65594	TLK 14	YC65612	TLK 32
YC65595	TLK 15	YC65613	TLK 33
YC65596	TLK 16	YC65614	TLK 34
YC65597	TLK 17	YC65615	TLK 35
YC65598	TLK 18	YC65616	TLK 36

**November 08, 2009**

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## Summary

Between July 26<sup>th</sup> and July 29<sup>th</sup>, 2009, the Teslin Lake Mining Partnership contacted Aurora Geosciences Ltd. to complete a total field magnetic survey and soil geochemical survey over the TLK claims near the western shore of Teslin Lake. The TLK claims are staked over volcanic and ultramafic rocks of the Cache Creek Terrane thought to be prospective for gold (Motherlode-type) and platinum-group element mineralization.

A total of 12.6 line-kilometers of magnetic data were collected over claims TLK 13 to 17. The processed magnetic data shows western magnetic low and eastern magnetic high domains, bisected by a very high curvilinear magnetic response. This response is interpreted to represent a recessive ultramafic unit and/or sulphide mineralization associated with destructive alteration. A total of 70 B-horizon soil samples were retrieved along the claim lines. An assessment of the geochemical data in a mafic lithology context shows that ultramafic rocks are present at the northwestern corner of the property and supports an ultramafic source of the curvilinear magnetic high response that bisects the survey grid. There are anomalous gold concentrations on Line 2 coincident with the magnetic feature and at the south end of line 1. An isolated sample (DW03-18) strongly anomalous in gold (498.5 ppb) and associated arsenic halo is located near the south end of Line 3.

The results of the 2009 data warrant additional work on the property. Continued magnetic survey coverage and HLEM is recommended to further delineate the 2009 magnetic data and test for coincident sulphide mineralization. Additional soil sampling over the magnetic high response and prospecting of outcrop exposed along Line 3 is also recommended to identify mineralized targets and follow up on sample DW03-18.

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## Introduction

Between July 26<sup>th</sup> and July 29<sup>th</sup>, 2009, the Teslin Lake Mining Partnership contacted Aurora Geosciences Ltd. to complete a total field magnetic survey and soil geochemistry survey over the TLK claims near the western shore of Teslin Lake. The TLK claims are staked over volcanic and ultramafic rocks of the Cache Creek Terrane thought to be prospective for gold and platinum-group element mineralization. A two person temporary camp was established on the western shore of Teslin Lake near the southern end of the claim block. Two geologists completed a 12.6 line-kilometer total field magnetic survey, collected 70 soil samples, and tagged the TLK claim posts during the 4 day program.

## Location and Access

The TLK property includes 36 contiguous quartz claims located near the western shore of Teslin Lake, approximately 12 kilometers south of Johnson's Crossing and 40 kilometers north of Teslin along the Alaska Highway (Figure 1). In the summer months, the claims are accessible by boat from any launch point along Teslin Lake. The 2009 program was mobilized from Brook's Brook, located across the lake from the TLK claims. The claims may be accessed across the ice in the winter months.

## Climate and Physiography

*Summarized from Ecological Stratification Working Group, 1995.*

The TLK claims are located in the Boreal Cordillera ecozone which covers sections of southern Yukon and Northern British Columbia. The Teslin Lake area itself is located in the Yukon Southern Lakes ecoregion, which extends from Lake Laberge south to the BC border. The climate is cold and semiarid. Major valleys show mean annual temperatures of -2.5°C with a summer and winter mean of 10°C and -16.5°C, respectively. Mean annual precipitation is 225-300 millimeters. Boreal forests include white spruce, lodgepole pine and lesser aspen. Most of the terrain lies between 600-1500m in elevation with a few peaks above 1800 meters ASL. Representative wildlife includes mountain goat, Stone's and Dall's sheep, grizzly bear, moose, ptarmigan, wolf, coyote, ground squirrel, and caribou.

Peak elevation on the TLK claims is 1900 meters in the northwestern corner of the property. The property limits extend to the lake shore of Teslin Lake. White spruce, pine, and alder were noted during work completed in 2009. Only ptarmigan, squirrel and various birds were observed.

## Claim Status

The TLK 1-36 claims include 36 contiguous claims that cover 7.53 km<sup>2</sup> and are registered in good standing with the Yukon Mining Recorder (Figure 2). Work completed during the July program was applied to the claims upon completion to maintain the claims in good standing through August 15<sup>th</sup>, 2012. The TLK claims are summarized in Table 1.

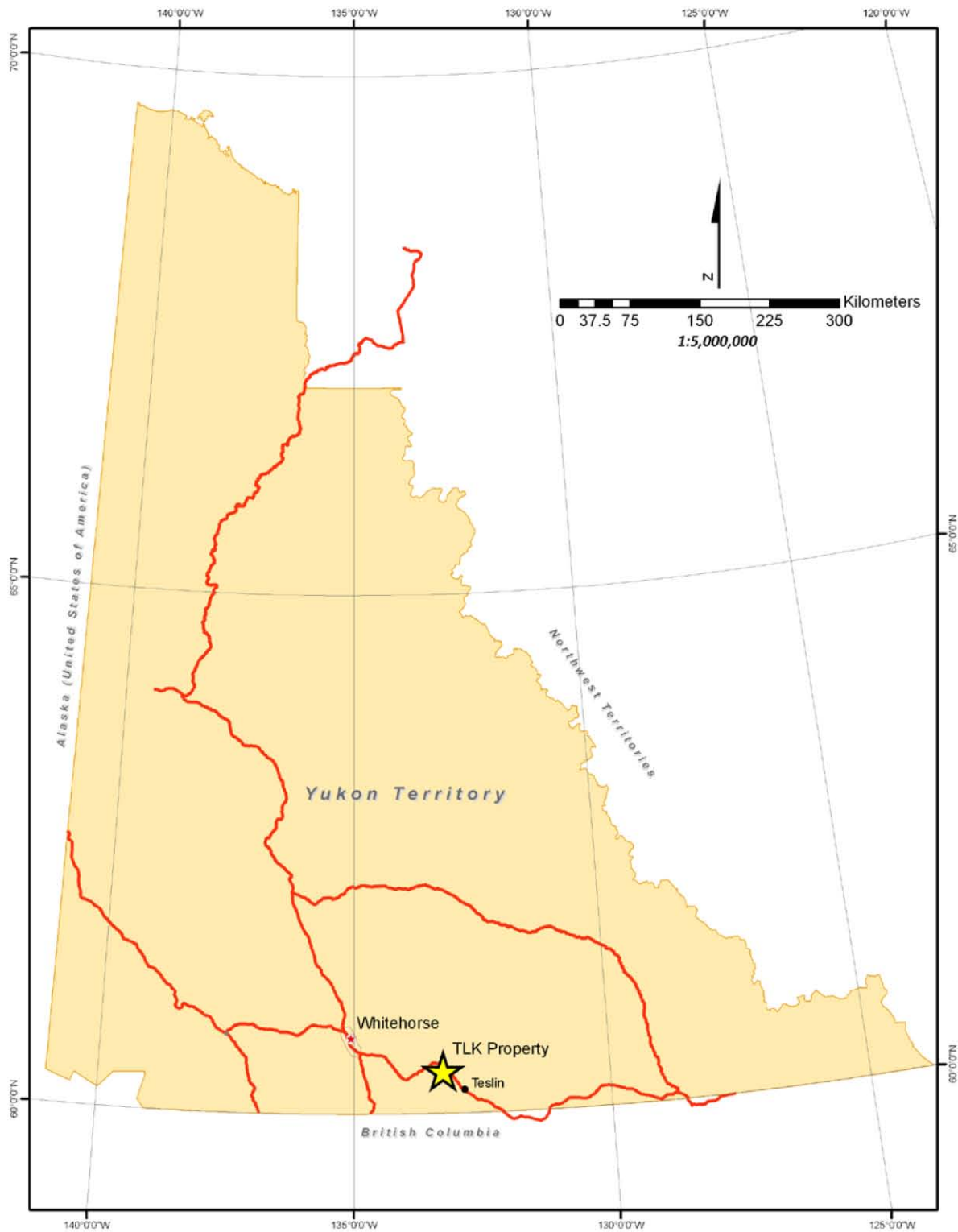


Figure 1. Property location map



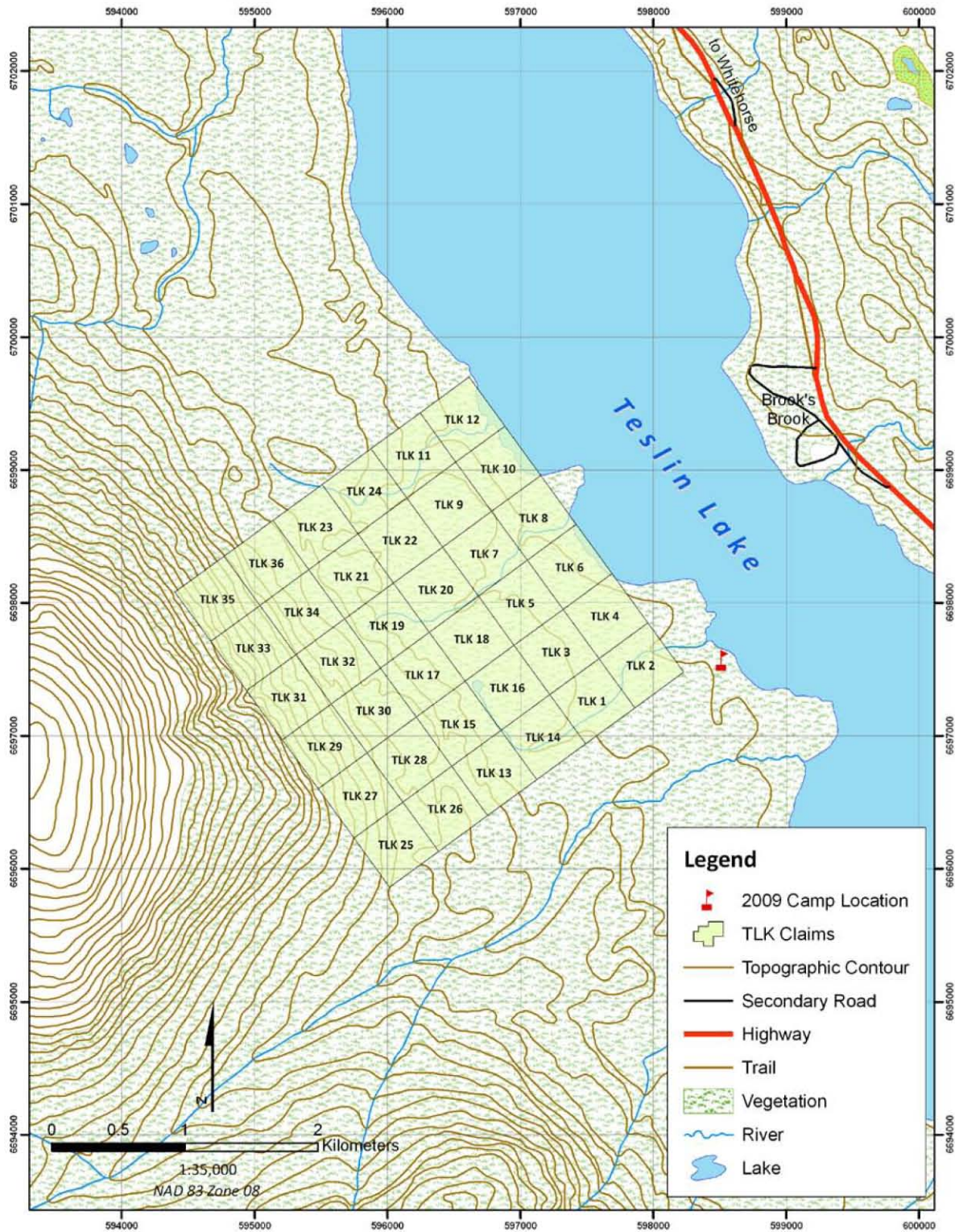


Figure 2. TLK property claims map

**Table 1. TLK claims**

Claim Number	Claim Name	Claim Type	Date Staked	Lapsing Date	STATUS
YC65581	TLK 1	Quartz	8/21/2007	8/15/2012	Active
YC65582	TLK 2	Quartz	8/21/2007	8/15/2012	Active
YC65583	TLK 3	Quartz	8/21/2007	8/15/2012	Active
YC65584	TLK 4	Quartz	8/21/2007	8/15/2012	Active
YC65585	TLK 5	Quartz	8/21/2007	8/15/2012	Active
YC65586	TLK 6	Quartz	8/21/2007	8/15/2012	Active
YC65587	TLK 7	Quartz	8/21/2007	8/15/2012	Active
YC65588	TLK 8	Quartz	8/21/2007	8/15/2012	Active
YC65589	TLK 9	Quartz	8/21/2007	8/15/2012	Active
YC65590	TLK 10	Quartz	8/21/2007	8/15/2012	Active
YC65591	TLK 11	Quartz	8/21/2007	8/15/2012	Active
YC65592	TLK 12	Quartz	8/21/2007	8/15/2012	Active
YC65593	TLK 13	Quartz	8/21/2007	8/15/2012	Active
YC65594	TLK 14	Quartz	8/21/2007	8/15/2012	Active
YC65595	TLK 15	Quartz	8/21/2007	8/15/2012	Active
YC65596	TLK 16	Quartz	8/21/2007	8/15/2012	Active
YC65597	TLK 17	Quartz	8/21/2007	8/15/2012	Active
YC65598	TLK 18	Quartz	8/21/2007	8/15/2012	Active
YC65599	TLK 19	Quartz	8/21/2007	8/15/2012	Active
YC65600	TLK 20	Quartz	8/21/2007	8/15/2012	Active
YC65601	TLK 21	Quartz	8/21/2007	8/15/2012	Active
YC65602	TLK 22	Quartz	8/21/2007	8/15/2012	Active
YC65603	TLK 23	Quartz	8/21/2007	8/15/2012	Active
YC65604	TLK 24	Quartz	8/21/2007	8/15/2012	Active
YC65605	TLK 25	Quartz	8/21/2007	8/15/2012	Active
YC65606	TLK 26	Quartz	8/21/2007	8/15/2012	Active
YC65607	TLK 27	Quartz	8/21/2007	8/15/2012	Active
YC65608	TLK 28	Quartz	8/21/2007	8/15/2012	Active
YC65609	TLK 29	Quartz	8/21/2007	8/15/2012	Active
YC65610	TLK 30	Quartz	8/21/2007	8/15/2012	Active
YC65611	TLK 31	Quartz	8/21/2007	8/15/2012	Active
YC65612	TLK 32	Quartz	8/21/2007	8/15/2012	Active
YC65613	TLK 33	Quartz	8/21/2007	8/15/2012	Active
YC65614	TLK 34	Quartz	8/21/2007	8/15/2012	Active
YC65615	TLK 35	Quartz	8/21/2007	8/15/2012	Active
YC65616	TLK 36	Quartz	8/21/2007	8/15/2012	Active



## Regional Geology

The TLK property covers Carboniferous to Jurassic rocks of the Cache Creek Terrane (Figure 3 and 4). This terrane occurs southwest of the Teslin Valley and can be summarized into four main fault-bounded assemblages (CC1 to CC4, labeled in Figure 3) as described by Gordey and Stevens, 1994. The stratigraphic relationship of these four units is not discussed here. To the west of the property massive to locally crinoidal carbonate (CC1) is mapped near Jake's Corner. The second assemblage (CC2) includes volcanic rocks divided into: 1) massive grayish-green to dark aphyric andesite/basalt showing common spherulites and well developed pillows, and 2) massive grey-green to chrome-green, highly fractured and poorly indurated rocks. Blocks of bedded chert and carbonate up to 30m in thickness are noted in CC2. To the south of the claim block an extensive assemblage of ribbon chert and greywacke with minor shale (CC3) is mapped. Ultramafic rocks of the CC4 assemblage consist of massive to foliated variably serpentinized peridotite and equivalent rocks. Irregular shaped, meter-sized massive dunite with gradational contacts are found locally. Ultramafic rocks in the Teslin area share a mineralogical and structural characteristics of mantle tectonites as described for the ultramafic bodies near Atlin, British Columbia (Ash and Arksey, 1990). Northwest of the property, rocks of the Cache Creek Terrane are overlain by Upper Triassic rocks of the Aksala Group. The Aksala Group consists of mixed clastic and carbonate rocks that are divisible into three dominant facies: calcareous greywacke; thick carbonate; and red-coloured clastics (Casselmann, 2003).

The Hayes Peak intrusion (K3) is mapped 2 km west of the property. This intrusion is Early Cretaceous in age and interpreted to be part of the Teslin Suite. These unfoliated, medium- to coarse-grained leucocratic, biotite granites are compositionally similar to the Seagull batholith. The Hayes Peak intrusion itself is host to abundant screens and inclusions of hornblende monzodiorite (Gordey and Stevens, 1994).

The structural geology of the area is dominated by two major sub-parallel, north-northwest trending faults that divide and define the boundaries between the Cache Creek Terrane (to the east) and the Whitehorse Trough and between the Whitehorse Trough and the Yukon-Tanana Terrane (to the west). The Nahlin Fault marks the western extent of the Cache Creek Terrane and eastern extent of the Whitehorse Trough and is the base of the thrust sheet that places the Cache Creek Terrane over the Stikine Terrane. It is a steeply dipping to vertical fault, or series of faults and has seen intermittent activity from the Late Triassic to Tertiary time. The Llewellyn fault marks the boundary between the regionally metamorphosed Yukon-Tanana Terrane and the Whitehorse Trough. It is also steeply dipping and appears to have been active from Late Triassic to Tertiary time.

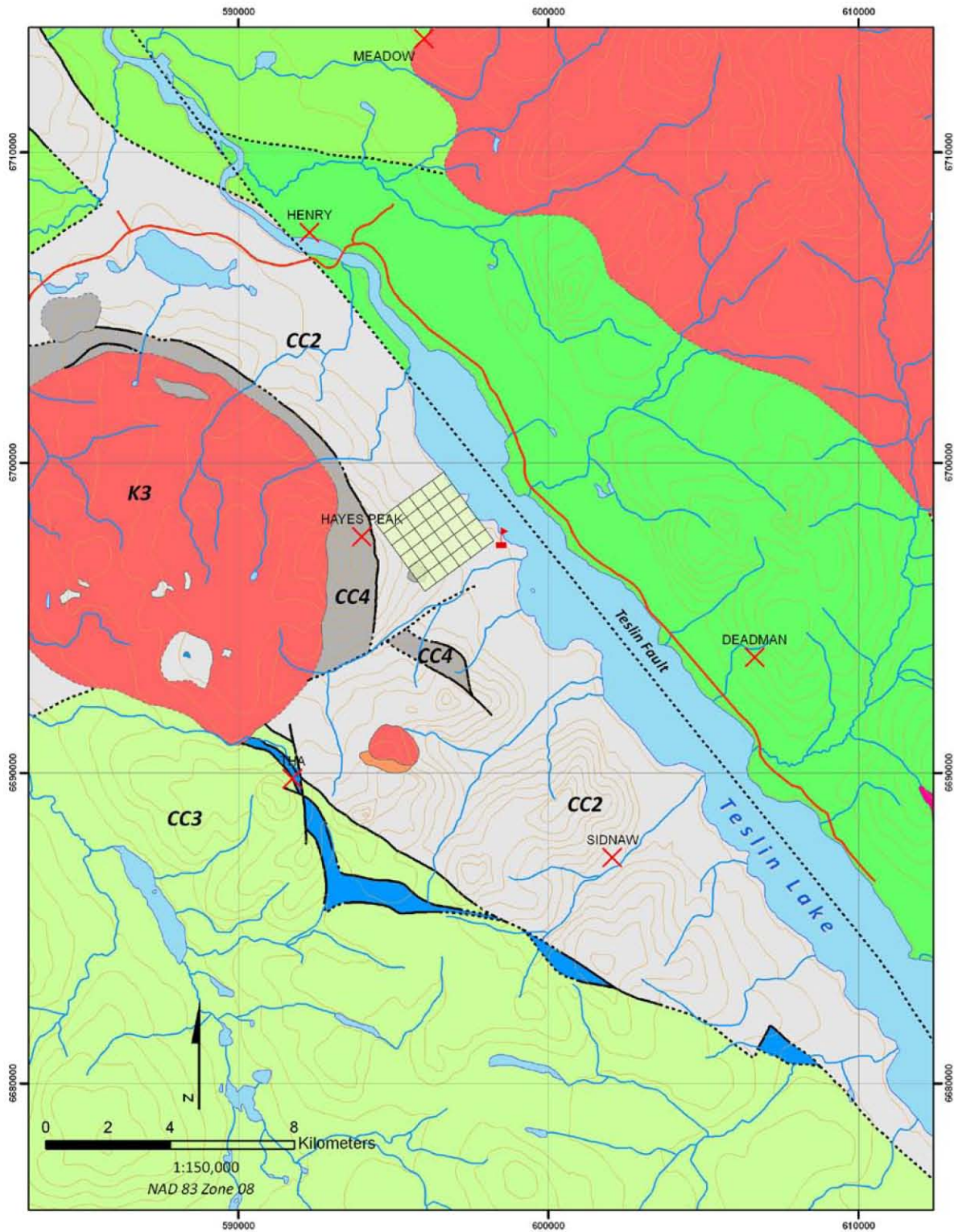



Figure 3. Regional geology (legend see Figure 4)

### Legend


-  2009 Camp Location
-  MINFILE Occurrence
-  TLK Claims
-  Highway
-  River
-  Elevation Contour
-  Lake


### Regional Geology

#### EARLY CRETACEOUS


 EKgT: TESLIN SUITE: leucocratic, fine to coarse-grained, equigranular, hornblende- biotite granite, granodiorite, quartz monzonite and quartz monzodiorite, locally with sparse grey and pink potassium feldspar phenocrysts; associated aplitic phases and dykes (Teslin Suite)

#### MID-JURASSIC

 MJqB: BRYDE SUITE: medium to fine grained, equigranular, leucocratic monzonite, syenite and granite and related dykes of dacite to andesite porphyry with euhedral andesine, hornblende and locally quartz in aphanitic greenish, or grey groundmass (Teslin Crossing Stock)

 MJgB: BRYDE SUITE: medium grained, hornblende monzodiorite, hornblende-biotite quartz monzodiorite and minor hornblendite; pink, potassium feldspar megacrystic, hornblende granite to granodiorite and associated easterly trending mafic dyke swarms (Mt. Bryde Pluton; Bennett Granite)

#### LOWER AND MIDDLE JURASSIC, HETTANGIAN TO BAJOCIAN

 JL: LABERGE: poorly sorted, medium bedded to massive arkosic sandstone and minor shale with interbeds and thick members of resistant heterolithic pebble and boulder conglomerate; recessive, dark brown weathering, thin bedded, dark brown to greenish, silty shale (Laberge Gp.)

#### LOWER JURASSIC, PLEINSBACHIAN TO TOARCIAN

 IJN: NORDENSKIOLD: resistant, reddish brown weathering, massive, khaki-green dacite tuff with fresh plagioclase, hornblende and biotite; grades locally to pale green, punky weathering, salt and pepper textured, massive sandstone; interbedded conglomerate (Nordenskiold Dacite)

#### MESOZOIC

 Mg: MESOZOIC GRANITIC ROCKS UNDIVIDED: poorly described granitic rocks of uncertain age including diorite, quartz monzonite, and monzonite


#### MIDDLE TRIASSIC TO LOWER JURASSIC

 mTrJc: CACHE CREEK: well bedded ribbon chert interbedded with shale, siltstone and greywacke (Cache Creek Gp.)


#### UPPER TRIASSIC TO LOWER JURASSIC


 uTrJs: SHONEKTAW: augite-bearing greywacke and lesser siltstone and shale, possibly resedimented pyroclastic deposits; minor(?) augite-feldspar crystal tuff; minor volcanic breccia with clasts of augite ( feldspar) porphyry (equivalent to Shonektaw, northern B.C.)

#### CARBONIFEROUS TO JURASSIC

 CTrC: CACHE CREEK: oceanic assemblage of ultramafic rocks (1), volcanics (2), carbonate (3) and ribbon chert (4)

 CTrC1: CACHE CREEK: dark rusty to dun brown weathering, strongly magnetic, variably tectonized, serpentized and chloritized ultramafic rocks including medium to coarse grained hornblende-pyroxene diorite gabbro, peridotite, dunite, serpentinite, and pyroxenite (Cache Creek)

 CTrC2: CACHE CREEK: andesitic and basaltic spherulitic greenstone, locally pillowed; aphanitic, tuffaceous(?) greenstone with clasts of limestone and chert; altered volcanic rocks with numerous serpentine bodies; massive, fine-grained metabasite and hornblende diorite (Cache Creek)

 CTrC3: CACHE CREEK: massive, finely crystalline, locally crinoidal and fusiline grey limestone; limestone, limestone breccia; massive to poorly bedded, medium-grained, recrystallized white to pale yellow limestone and crinoidal bioclastic limestone; rare dolostone (Cache Creek)


 CTrC4: CACHE CREEK: resistant, well-bedded, thin bedded, grey, black, red and brown chert, with lesser cherty sandstone and siltstone; minor thin limestone beds and pillow lava (Cache Creek Gp., Kedahda)

Figure 4. Regional geology legend (Figure 3)



## Property Geology

Geologic mapping was not conducted during the 2009 program. There is little reported property-scale mapping for the area covered by the TLK claims, therefore the property geology is poorly understood.

A prominent ridge traverses the western third of the property and was crossed at the western end of the magnetic survey lines. Four rock samples (MW03-18, 19, 23, 24) were collected along Line 3 of the soil survey (Figure 1, Appendix III). These samples were submitted for geochemical analysis with the soil survey samples, but whole rock geochemistry was not completed. The samples are described as highly silicified fine-grained light-green equigranular volcanic rocks, proposed to be likely of basaltic composition. The samples show weakly disseminated (<2%) pyrite mineralization.

Observed outcrop of volcanic rocks is consistent with regional mapping and lithologic framework and is interpreted to be part of the CC2 assemblage rocks as mapped by Gordey and Stevens in 1994. Detailed mapping to the north of the property in 1981 by Dupont of Canada Exploration Limited (Dupont) revealed variably altered and metamorphosed basalt and peridotite adjacent to the Hayes Peak intrusion (Neelands, 1982).

Geochemical analysis of soil samples collected during this program support unexposed (or unobserved) more mafic to ultramafic rocks near the northwestern corner of the property. This observation is consistent with the CC4 unit mapped by Gordey and Stevens in 1994.

## Exploration History

*As summarized from MINFILE occurrence 105C 013.*

Conwest initially staked and trenched the Hayes Peak chrysotile showing in 1952. The showing was then re-staked in 1957 as the Jean claims, again, by Conwest. Can Johns-Manville re-staked the claims in 1961 and subsequently conducted further trenching and mapping over the property. The showing was staked again in 1968 as the Eagle claims by R.G. Hilker. In 1981, Dupont staked the showing and the ground to the north as the Sayah claims. Dupont conducted stream sediment sampling and mapping to follow up a reconnaissance stream sediment survey that returned an anomalous gold value (205 ppb Au) from a creek draining in to Teslin Lake. Grab samples of malachite stained peridotite and quartz vein in peridotite collected during mapping returned 0.184% Cu, 0.1% Pb, and 0.11 oz/t Ag and 0.006% Cu, 0.18% Pb, and 0.10 oz/t, respectively (Neelands, 1982). This work was not targeted at the existing chrysotile showing. The area was staked once again in 1987 by Tha Resources Ltd. No work was reported from this staking. The TLK claims were staked in 2007 for the Teslin Lake Mining Partnership.

## Mineralization

Two terrane specific deposit types may be present on, or adjacent to, the TLK property. Ultramafic bodies in the Cache Creek terrane locally host asbestos, as reported at the Hayes Peak showing, and small podiform dunite occurrences may host concentrations of chromite. Carbonate alteration zones (listwanite) may be associated with gold-bearing quartz veins similar to the Motherlode-type deposits.

A historic asbestos showing called Hayes Peak (105C 013) is located 500 meters to the west of the western limit of the TLK property. This showing is listed in the Yukon MINFILE, but was not examined during this program. The Yukon MINFILE shows three other showings, the THA (105C 015), SIDNAW (105C 006), and TOG (105C 028), within 20 km of the TLK property. Only a location is provided for the SIDNAW and THA showings. The TOG showing has been explored since the early 1970's and is reported to cover chromite and Motherlode-type gold occurrences. Historic assays as high 31.651 oz/ton Au and 49.4% Cr have been reported (Casselman, 2003).

Base or precious metal mineralization was not observed on the property during the 2009 program.

## 2009 Exploration Program

Two geologists completed work on the TLK claims between July 26<sup>th</sup> and 29<sup>th</sup>, 2009. This work included tagging claim posts, a ground-based total field magnetic survey, and soil sampling for geochemical analysis. This program was designed as a preliminary assessment of the potential for anomalous gold, or platinum-group metal occurrences. The program was mobilized out of Whitehorse on July 26<sup>th</sup> by truck to Brook's Brook. Gear and personnel were mobilized to a beach site on the southwestern side of Teslin Lake where camp was established. The 4 day program was based out of this temporary camp.

### Soil Sampling Program and Sample Methods

A total of 70 soil samples were collected at 100 meter intervals along the TLK claim lines. This survey was conducted on July 26<sup>th</sup> and 27<sup>th</sup> while tagging the claim posts staked in 2007 (Figure 1; Appendix III). Hand held Garmin 76Cxmap non-differential GPS units were used to locate each sample location. Some of the predetermined locations were not sampled as suitable material could not be located. If suitable material could not be located within 20 meters of the proposed location, no sample was collected.

The survey was conducted using mattocks for digging. Samples were collected from B-horizon material at an average depth of 20 centimeters below the vegetated horizon. Special care was taken to ensure volcanic ash material was not included in the collected sample. Small boulders and coarse gravel material was also removed from the sample. Sample locations were marked with flagging to document the sample number, the same sample number was written on the kraft bag used to collect the sample. Attributes of the collected sample, including grain size, texture, grain shape, colour, depth, and moisture content, were recorded at each station.

Soil sampling maps are presented in Appendix III, data is presented in Appendix IV.

### Ground Total Field Magnetic Survey

The magnetic survey was conducted on July 28<sup>th</sup> and 29<sup>th</sup>. The survey was oriented to identify structure that could be associated with mineralization as interpreted from the soil geochemical survey.

**Instruments and Equipment:** The crew was equipped with the following instruments and equipment.

Magnetometers:

GSM-19TGW	4121472	Proton Precession
GSM-19TGW	4111460	Proton Precession
GSM-19TGW	4121471	Proton Precession as Base Station

Other: 2 GPS Map76Cx handheld NDGPS receivers

**Survey Location:** The survey described in this memo is centered about approximately 133°14'40"West / 60°23'59" North (596713E 6697241N, NAD 83 zone 08) and covers the south central portion of the TLK claim block (TLK 13 - 18). A total of 12.6 line kilometers were completed over 14x900 meter long lines. These lines were oriented at 135° and assumed to be roughly perpendicular to the predominant structural trend of the area (Figure 5).

**Survey:** The survey employed GEM magnetometers to collect total field magnetic data. Static readings of the total magnetic field were collected at 12.5 meter intervals along predetermined lines with 100 meters line spacing. Lines were established using GPS receivers which also tracked the locations of the readings. Prior to surveying the operators divested themselves of any non-critical magnetic materials or sources. A 'leveling course', consisting of 12 common measuring stations on two orthogonal survey lines was completed each day prior to surveying. These data were used to level all magnetic readings to one common operator.

The total magnetic field survey was completed according to the following specifications.

Survey type:	Static magnetometer
Sample/Station spacing:	12.5 meters
Line spacing:	100 meters
Survey grid:	A pre-established route was followed by NDGPS
Base station:	Installed in camp away from any cultural magnetic influence. The unit was cycled at a 5 second interval throughout the survey. The base station and roving magnetometers were synchronized to GPS time daily.
Corrections:	Temporal geomagnetic variation was removed by linear interpolation of drift from the base station magnetometer
Leveling:	All operators leveled themselves daily and all readings were reduced to a common datum



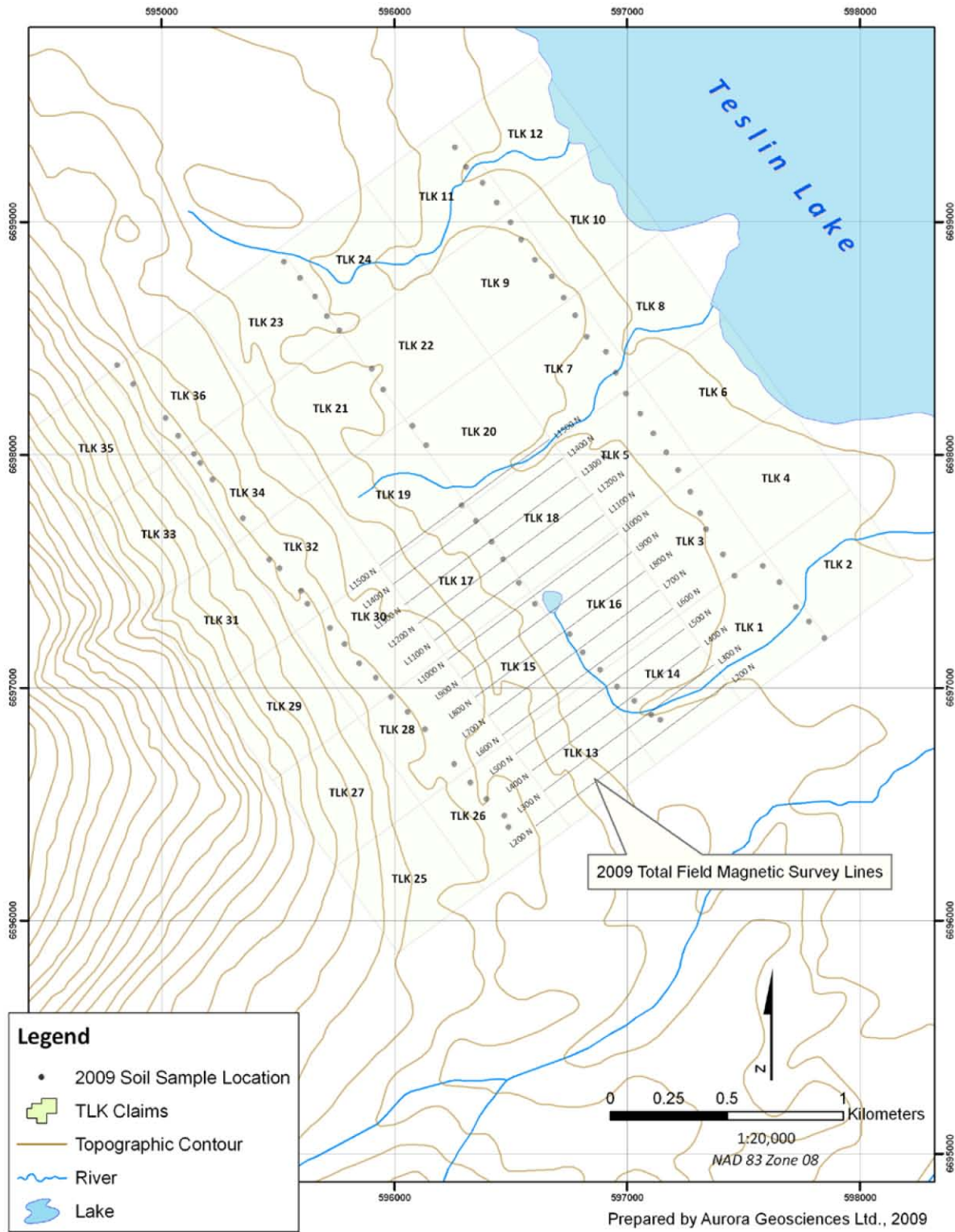


Figure 5. 2009 Total field magnetic survey grid location

**Data processing:** All total magnetic field data were corrected for temporal geomagnetic variation by linear interpolation and subtraction of the base station total field drift from the raw field measurements. The corrected data collected by the multiple operators were leveled by calculating the apparent static level shift between operators. Geo referenced coordinates, as NAD83 UTM zone 08, were assigned to readings according to NDGPS measurements collected concurrently. The reduced data were imported into GEOSOFT databases such that images of the total magnetic field could be produced using standard GEOSOFT gridding techniques.

**Products:** the following are included in this report (as presented to the client, not necessarily in the report submitted for assessment to the Yukon Mining Recorder):

- Geosoft database (.gdb) file
- Gridded image (.grd)
- Paper maps as required to communicate the results of the total field magnetic survey

## **Geochemical Analytical Methods**

All samples were submitted to Acme Analytical Laboratories in Vancouver via the Yellowknife sample prep lab. Acme is ISO 9002 accredited.

Rock samples were crushed and split at the Yellowknife preparation facility. The samples were then shipped to the Vancouver facility where they were pulverized to 85% passing 200 mesh, per 250 grams of material. The samples were then analyzed by: 1) Group 1D, 0.5 grams of material is leached in hot Aqua Regia and analyzed by ICP-ES, and 2) Group 3A, 15 grams are digested in Aqua Regia then analyzed by ICP-MS.

Soil samples were dried at 60°C, sieved (up to) 100 grams to -80 mesh in Yellowknife before shipping the pulps to Vancouver. The pulps were then processed by the same Group 1D and Group 3A procedures as discussed above.

Geochemical Analytical Certificates for the 2009 program are included in Appendix V.

## **Results and Discussion**

### **Magnetic Survey**

The magnetic survey data shows two domains: a relatively higher magnetic response on the eastern side of the grid, and a relatively lower magnetic response on the western side of the grid. The contact of these two domains is marked by a prominent magnetic high response that bisects the grid and trends parallel to the contact at approximately 330° azm (Figure 6). The magnetic high is not coincident with any outcrop exposure, but is coincident with the base of the topographic ridge which traverses the

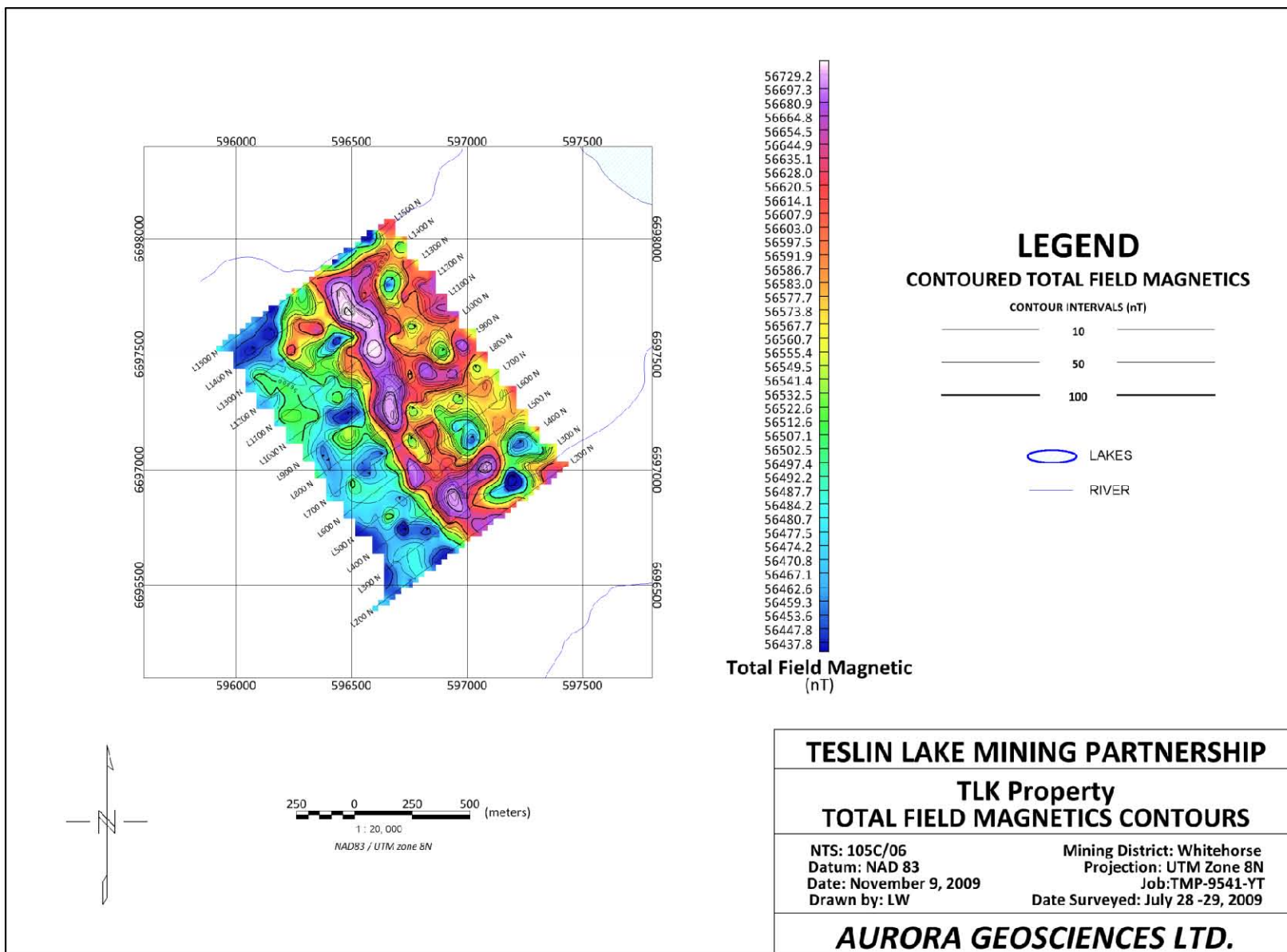


Figure 6. Total field magnetic survey results

property at a similar trend. The magnetic high response is almost exclusively constrained to the topographic low and associated wetland and swamp. Although more work is required to definitively identify the lithologic source of this magnetic response, it is proposed to map a recessive altered mafic body and associated sulphide mineralization or an ultramafic body. The narrow and linear to curvilinear shape of this body may indicate that it is steeply dipping. This magnetic response is open along strike to the north and south of the completed survey.

Outcrop exposures and the four samples of silicified chloritized volcanic rock collected are coincident with the area of lower magnetic response and the prominent 300°-trending ridge. As a result, the western half of the property is inferred to be this unit. There is zero bedrock exposure from the base of the ridge to Teslin Lake. The author cannot speculate on the underlying lithology(ies).

### **Soil Sampling Survey**

Due to budget constraints the soil survey was oriented along strike of the regional structural trend and therefore is not ideally oriented to test the geochemical character of the TLK claims. It is however, sufficient to give a first-order assessment of the underlying geology, and perhaps anomalous underlying economic mineralization.

Because there is very little bedrock exposure over much of the property, the geochemical data are considered in a lithochemical perspective to infer the composition of unexposed bedrock. Volcanic (CC2, andesite to basalt) and ultramafic rocks (CC4) are mapped to underlie the claims; therefore elements with a mafic affiliation (Fe, Mg, Cu, Ni, Co) are plotted on ternary diagrams to infer changes in bedrock lithology. Figure 7 shows a Mg, Fe, Ni ternary diagram. Relatively Mg±Ni-rich samples are concentrated at the western and northwestern corner of the property along Line 3 and are proposed to be the expression of underlying, or down slope from, ultramafic rocks as mapped to the west by Gordey and Stevens (1994). The  $Mg \geq Ni > Fe$  values on the property may indicate that ultramafic rocks are more prolific than previously indicated. Line 2 shows elevated Fe and  $Mg = Fe$  values in the absence of Ni and is interpreted to be an expression of the mafic volcanic rocks observed in outcrop. The elevated Fe trend becomes more pronounced at the south end of the grid. At the northeast end of Line 1 all three elements are depressed in this analysis. Such a trend may represent a unique lithology, an increase in depth to bedrock, or a change in the overburden material, all of which may attenuate the relative geochemical response.

Samples DW02-01 to 09 at the south end of Line 2 are sampled along strike of the anomalous magnetic high response discussed above and show a trend of elevated  $Mg + Ni > Fe$  similar to the northern end of Line 3. These samples are elevated in Mg, Ni, Cu, and Cr (Figures 4, 5, 6, 7; Appendix III). There is a decrease in concentration of these elements as the sample line continues off strike of the magnetic high. The author proposes that this geochemical response supports the interpretation that the magnetic linear magnetic high is a recessive ultramafic body. Samples 01-01 to 01-13 on Line 1 show similar character to the anomalous values on Line 2. The total field magnetic survey was not conducted over this line, but the geochemistry supports a similar feature at depth. Both of these trends remain open along strike to the southwest.



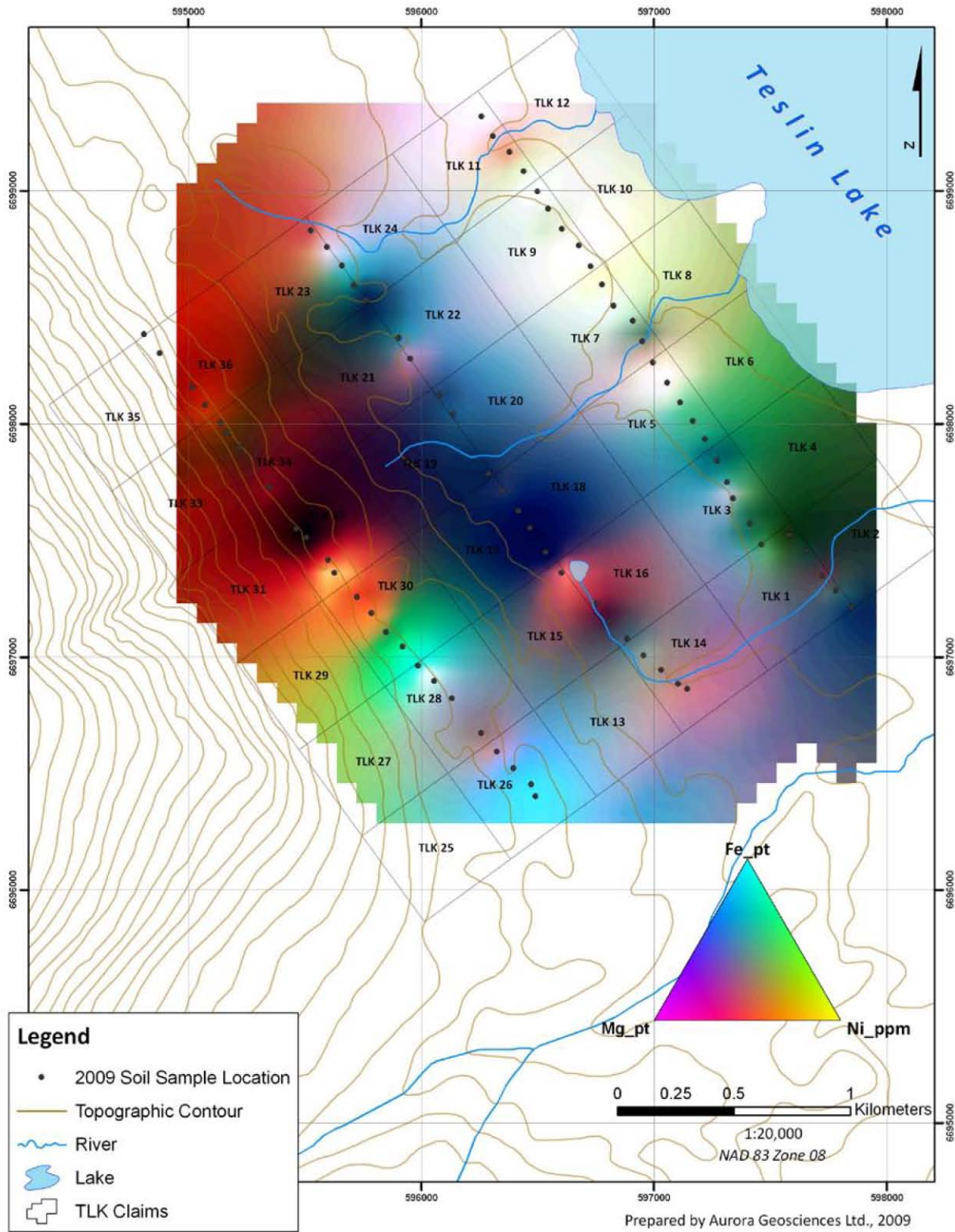


Figure 7. Mg, Fe, Ni ternary diagram

To identify outliers in the sample population, Q-Q and P-P plots are utilized. Figures 8 and 9 show such plots for mafic/ultramafic associated elements. Figure 10 shows similar plots for Au and As. Outliers in the Figures 8 and 9 are identified by a circle in the P-P plot and a line indicating a ‘break’ in the population in the Q-Q plot. The distribution of the P-P plots supports two prominent populations in the data as shown by the prominent ‘step’ in the curve. The distinct population is circled. This population also correlates to the outliers in the Q-Q plots. Values above the orange line are considered outliers because of the break in the slope of the curve and the distance between these values and the bulk of the population.

The majority of the circled population is correlative with samples collected on Line 3 and is interpreted to be a function of depth of overburden to bedrock and proximity to outcrop exposure. Analysis from this line artificially skew the dataset when considered as a whole; therefore the geochemical analysis will be considered on a per line basis.

**Line 3:** This line shows elevated concentrations in nearly all elements. Increased proximity to bedrock may be inferred from the increased frequency of sulfur (sulphide) in the analysis. Gold values are relatively elevated at the north end of this line. The strongly anomalous Au+As sample (DW03-18) is a singular anomaly near the south end of the line (Figure 2, 3; Appendix III). Sample DW03-18 is strongly anomalous in Au, As, Cu, Co and S as shown in the table below.

Sample ID	Au (ppb) /(mean)	As (ppm) /(mean)	Cu (ppm) /(mean)	Co (ppm) /(mean)	S (%)/(mean)
DW03-18	498.5 / (1.98)	2545 / (8.94)	91 / (30.41)	33 / (12.81)	0.07 / (~0)

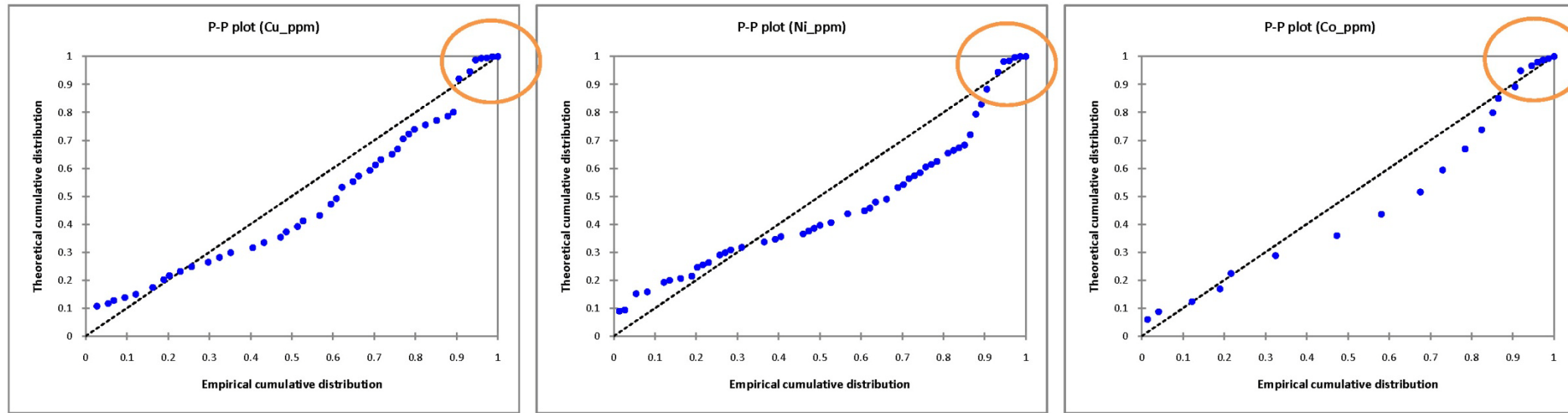
These Au and As values are an order of magnitude greater than the remaining Au+As analysis. Metal content is considered to be associated with sulphide because of the presence of sulfur in the analysis. Samples DW03-17 to DW03-21 show an elevated As response surrounding sample DW03-18 and may indicate an alteration zone.

**Line2:** This line is oriented over consistent physiography in the absence of outcrop. There is a small lake surrounded by swamp that resulted in a hole in the sampling. Samples DW02-01 to DW02-09 are spatially coincident with the magnetic high response. As mentioned above, these samples support an ultramafic lithology at depth. Samples DW02-01 and DW02-07 show anomalous Au values of 3.7 and 4.0 ppb, respectively. At the northern end of the line samples MW02-17 and MW02-13 returned 3.3 ppb Au and 3.9 ppb Au. These samples are not supported by magnetic data, but may indicate that the magnetic feature along strike to the north.

**Line 1:** Line 1 shows a depressed and homogenous geochemical response from sample 01-12 to the north end of the line. Samples 01-01 to 01-11 do show variable response in the elements of interest. Samples 01-11 and 01-01 at the margins of this trend show gold values of 4.2 ppb and 5.1 ppb, respectively.



P-P plots: Characteristic mafic elements



Q-Q plots: Characteristic mafic elements

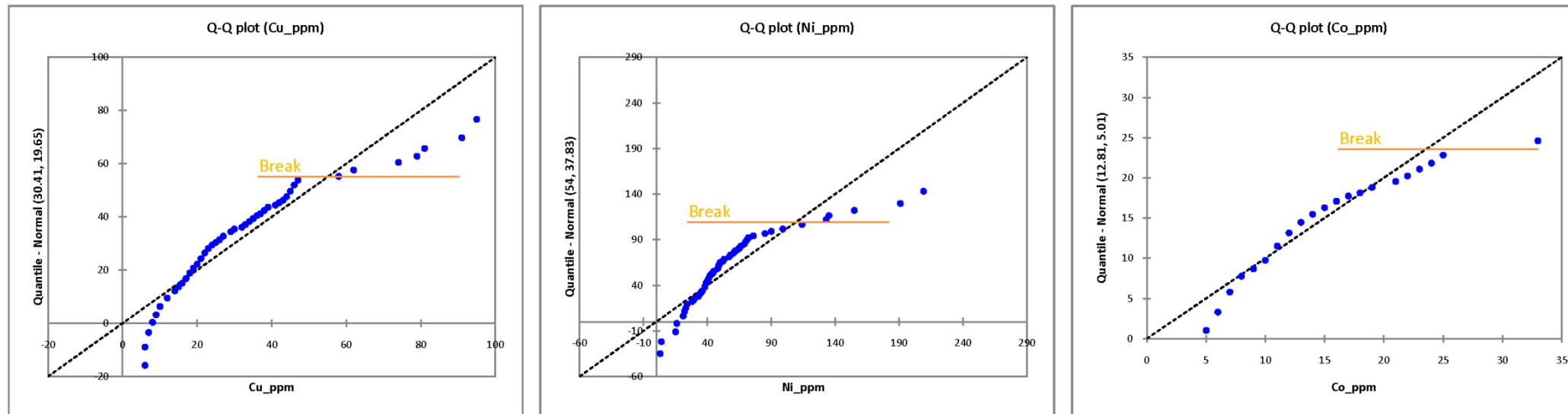
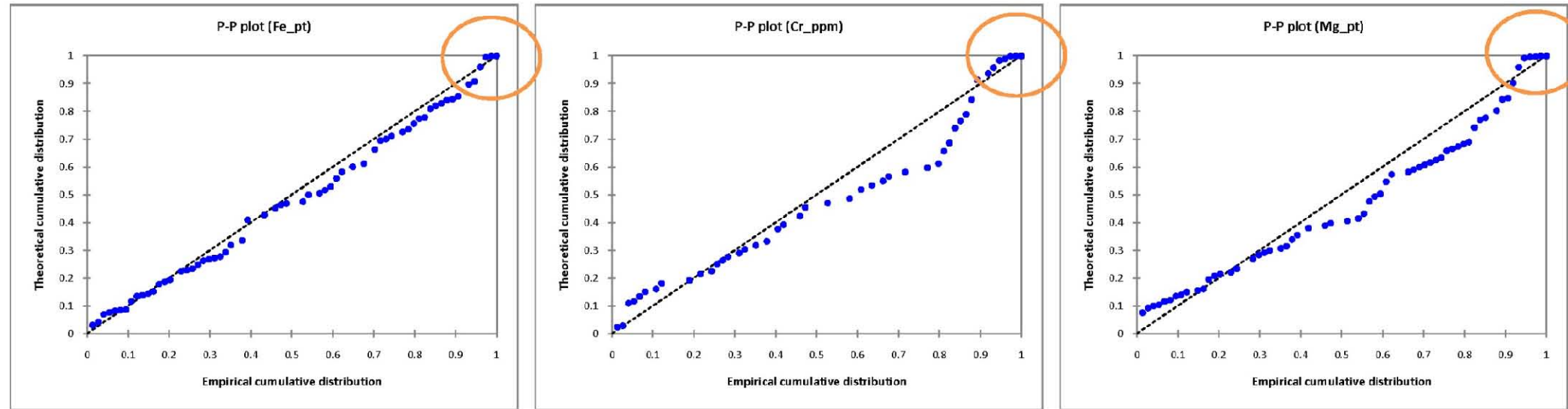


Figure 8. P-P and Q-Q plots showing outlier samples (Cu, Ni, Co)

P-P plots: Characteristic mafic elements



Q-Q plots: Characteristic mafic elements

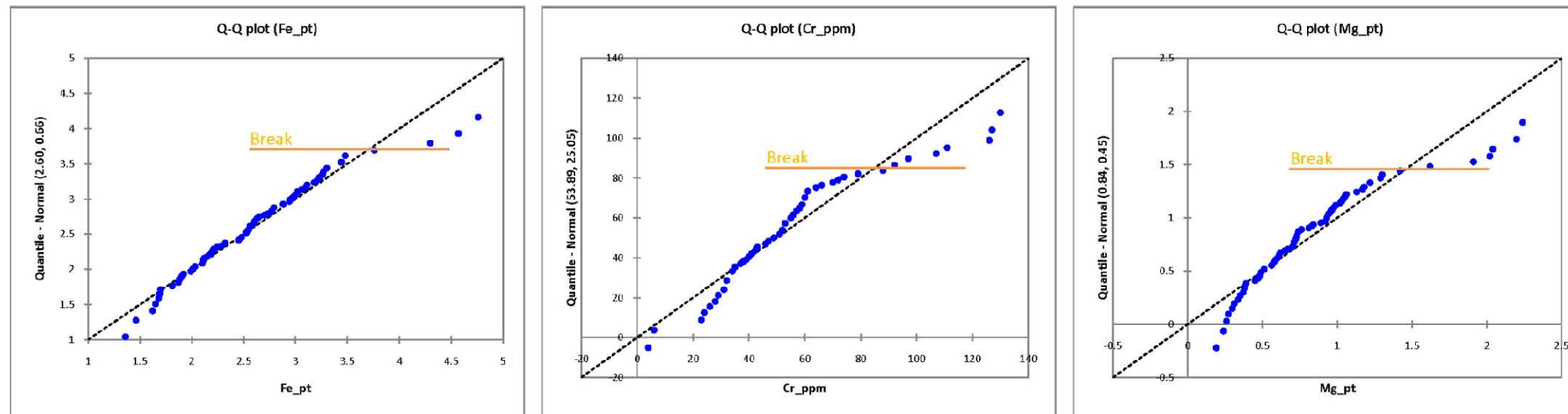
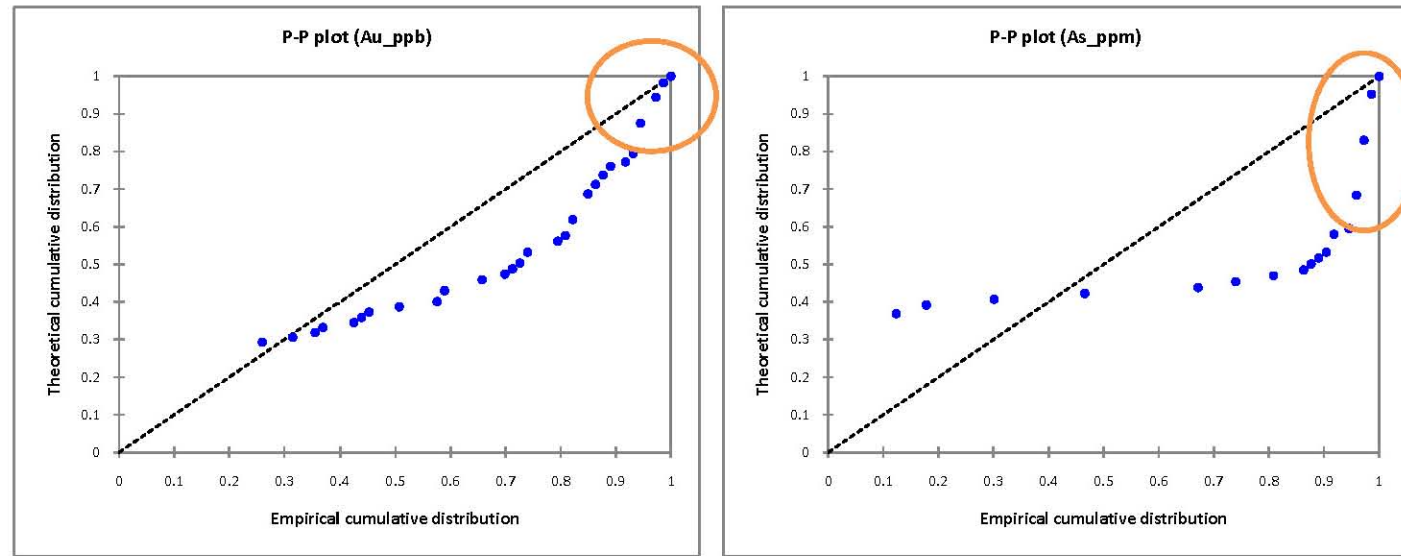


Figure 9. P-P and Q-Q plots showing outlier samples (Fe, Cr, Mg). Most outlier samples are spatially associated with the ridge on sample Line 3

P-P plots:



Q-Q plots:

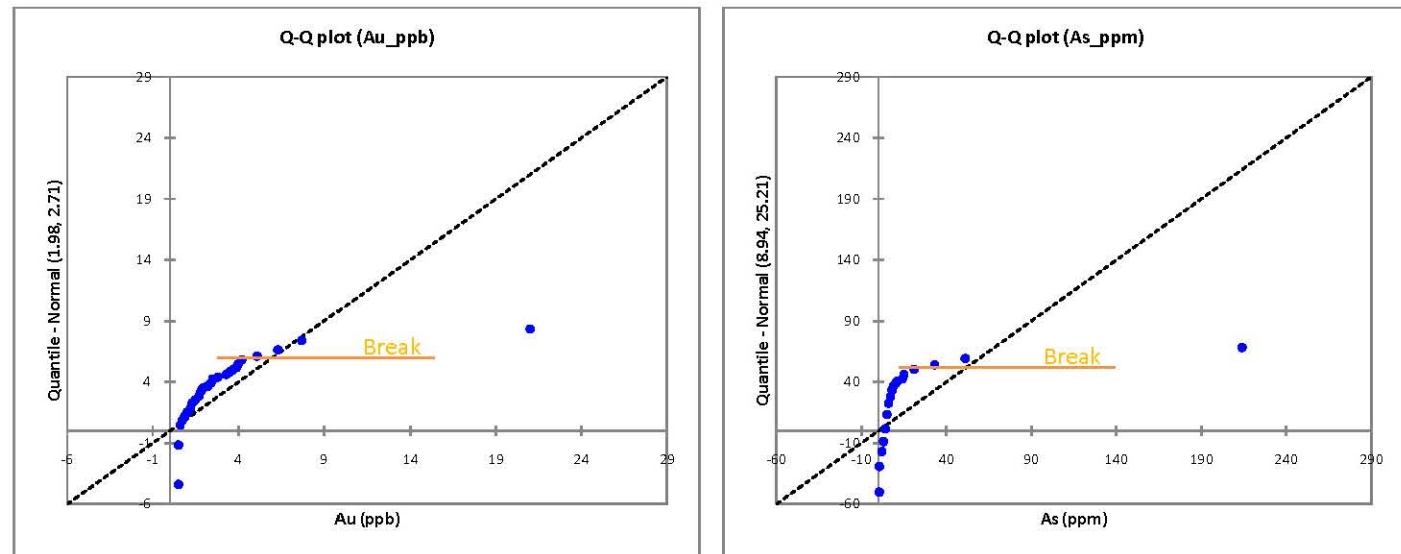


Figure 10. P-P and Q-Q plots showing outlier samples (Au and As). Sample DW03-18 has been removed from this dataset to allow for a more representative statistical analysis.

## Conclusions and Recommendations

Between July 26<sup>th</sup> and July 29<sup>th</sup>, 2009, the Teslin Lake Mining Partnership contacted Aurora Geosciences Ltd. to complete a total field magnetic survey and soil geochemical survey over the TLK claims near the western shore of Teslin Lake. The TLK claims are staked over volcanic and ultramafic rocks of the Cache Creek Terrane thought to be prospective for gold and platinum-group element mineralization.

The magnetic survey comprised of 12.6 line kilometers over claims TLK 13-18. This survey delineated a prominent curvilinear magnetic high feature that remains open to the north and south of the survey grid. The TLK claims continue to the north, however, the ground to the south remains open. This magnetic response is coincident with marshy-lowland vegetation that trends across the property and is interpreted to represent a recessive ultramafic unit, or a zone of destructive alteration and possibly sulphide mineralization.

The soil survey comprised of retrieving 70 B-horizon soil samples along claims lines at 100 meter station intervals. These samples were collected while tagging the claim posts.

In the absence of outcrop over much of the property, the geochemical data was considered in a lithochemical perspective to infer the composition of covered bedrock and provide targets for follow exploration. Volcanic (andesite to basalt) and ultramafic rocks are mapped to underlie the claims; therefore elements with a mafic affiliation (Fe, Mg, Cu, Ni, Co) were used to determine changes in lithology. This method, together with observations in outcrop, indicates a relatively more mafic bedrock source at the north end of Line 3. The south end of line 3 and much of line 2 cover relatively less mafic rocks with the exception samples collected over the magnetic high response on Line 2. Geochemical response here suggests a mafic to ultramafic underlying lithology. Line 1 remains cryptic due to a variable geochemical response; however, the south end of this line shows an elevated ultramafic signature similar to Line 2.

Anomalous gold values were returned at the north end of Line 3, and the south end of lines 2 and 1. The cause of the anomalous gold values on Line 3 remains unresolved. Further sampling and prospecting is required. Anomalous gold values on Line 2 are spatially associated with the curvilinear magnetic high response. There are two anomalous gold samples at the southern end of Line 1. There is no magnetic data to support any host rock interpretation at depth, but samples 01-01 to 01-11 share a geochemical response with samples DW02-01 to DW02-09 coincident with the magnetic feature on Line 2. An isolated and very strongly anomalous sample (DW03-18) on Line 3 returned 498.5 ppb Au and 2545 ppm As. Further work is warranted to follow up this anomaly.

Although budgetary constraints did not allow for geochemical analysis of PGE-group elements, there are a number of anomalous gold values and strong geochemical and magnetic evidence to support the presence of ultramafic rocks on the property.

Results of the soil and magnetic survey warrant further work on the TLK property. The remainder of the property should be covered by a total field magnetic survey to test the continuity of the magnetic high

response along strike and to test the hypothesis of a similar response at the northern end of Line 3 and southern end of Line 1. The survey should be continued to the south of the property in an attempt to determine the size and continuity of this feature. An HLEM survey is recommended over the magnetic anomaly to test for a coincident conductor that may indicate the presence of sulphide mineralization. A soil survey is recommended over the 2009 magnetic grid lines with 50 meter station spacing, reduced to 25 meters over the magnetic high response. These samples should be run for Au and PGE-group elements in addition to a standard 30+ element ICP package. Soil sample DW03-18 should be followed up with detained prospecting and mapping as this sample was collected among many exposures of bedrock. More detailed soil sampling in this area should be completed as required.

### Proposed Budget

i)	Brushing lines and picketing 2 men for 2 days @ \$1,350 per day	\$2,700.00
ii)	HLEM Survey 2 men and gear for 2 days @ \$1,105/day	\$2,210.00
iii)	Mag over property and strike extension 6 days @ \$1100 per day	\$6,600.00
iv)	Detailed soil sampling, Prospecting, Mapping 10 days @ \$835 per day	\$8,350.00
v)	Assaying - 200 samples @ \$30 per sample	\$6,000.00
vi)	Camp - 20 days @ \$220/day (includes food)	\$4,400.00
vii)	Final report and compilation	\$3,000.00
viii)	Miscellaneous (5%)	\$1,663.00

**TOTAL PROPOSED BUDGET**

**\$34,923.00**

Respectfully submitted,

AURORA GEOSCIENCES LTD.



David White, P.Geol

## References

**Ash, C.H. and Arksey, R.L., 1990.** The Atlin ultramafic allochthon: ophiolitic basement within the Cache Creek Terrane; tectonic and metallogenic significant (104N/12); in Geological Fieldwork 1989; British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Survey Branch, Paper 1990-1, p. 365-374.

**Casselman, S., 2003.** Report on the 2003 Trenching Program on the TOG Property, Jakes Corner Area, Southern Yukon, p. 34; Yukon Assessment Report 094473.

**Gordey, S.P., and Stevens, R.A., 1994.** Preliminary interpretation of bedrock geology of the Teslin area (105c), southern Yukon: Geological Survey of Canada Open File 2886 (map, scale 1:250 000).

**Ecological Stratification Working Group, 1995.** A National Ecological Framework for Canada. Agriculture and Agri-Food Canada, Research Branch, Centre for Land and Biological Resources Research and Environment Canada, State of the Environment Directorate, Ecozone Analysis Branch, Ottawa/Hull. 132 p. Report and national map at 1:7 500 000 scale.

**Neelands, J.T., 1982.** Geological and Geochemical Report on the Sayeh property, Whitehorse mining Division, Yukon Territory; for Dupont of Canada Exploration Limited, p. 28; Yukon Assessment Report 091041.



## Statement of Qualifications

I, David White, of the City of Yellowknife, in the Northwest Territories, Canada,

HEREBY CERTIFY:

1. That my address is 3506 McDonald Drive, Yellowknife, N.W.T. X1A 2H1.
2. That I am a graduate of the University of Manitoba
  - a) B.Arts – Physical Geology and Geology, 1999
3. That I am a graduate of the University of Alberta:
  - a) B.Sc. – Specialization Geology, 2003, U of A
4. That I have been a practicing Geology since 2003

May, 2003 - September 2003	RWED
Yellowknife, NWT, Geologist	
September 2003 - October 2004	DIAND
Yellowknife, NWT, Geologist	
October 2004 – November 2004	Northern Dynasty Minerals Ltd.
	Vancouver, British Columbia, Geologist
November 2004 to present	Aurora Geosciences Ltd.
	Yellowknife, NWT Geologist
5. That I visited the property for 04 days, July 26<sup>th</sup> to July 29<sup>th</sup>, 2009.
6. That I am a registered Professional Geologist in the Northwest Territories.
7. That I am not aware of any material fact or material change with respect to technical aspects of the report which is not reflected in the report, and that all required scientific and technical information has been disclosed in order to make the Assessment Report not misleading.
8. That this certificate applies to the Assessment Report titled: **Assessment Report TLK PROPERTY, YUKON TERRITORY**, as dated this November 08, 2009.

Dated this 08th day of November, 2009 at Yellowknife, N.W.T.



David White P.Geol.

**Appendix I**    ***Personnel List***

<b>Name</b>	<b>Position</b>	<b>Address</b>	<b>Man-Days</b>
David White	Aurora Geosciences Ltd. Geologist	3506 McDonald Drive, Yellowknife, NT, X1A 2N1	4
Michael Wark	Aurora Geosciences Ltd. Geologist	34A Laberge Rd. Whitehorse, YT, Y1A 5Y9	4

**Appendix II** *Statement of Expenditures*

**Statement of Expenditures**

(estimated costs to not include GST)

**Preparation:**

Crew, instrument and equipment \$350.00

**Mobilization/Demobilization:**

Truck rental \$300.00

Expediter wages \$150.00

**Geology and Geophysical Surveys**

Magnetic survey (4 man days - 10.8 line km) \$2,598.00

Soil sampling (4 man days - 80 samples) \$2,598.00

**Expenses:**

Geological report \$1,898.96

Assay expense \$1,441.04

Magnetometer and soil sampling equipment rental \$800.00

2-man fly camp, boat and generator rental \$300.00

Boat and fuel and oil \$25.00

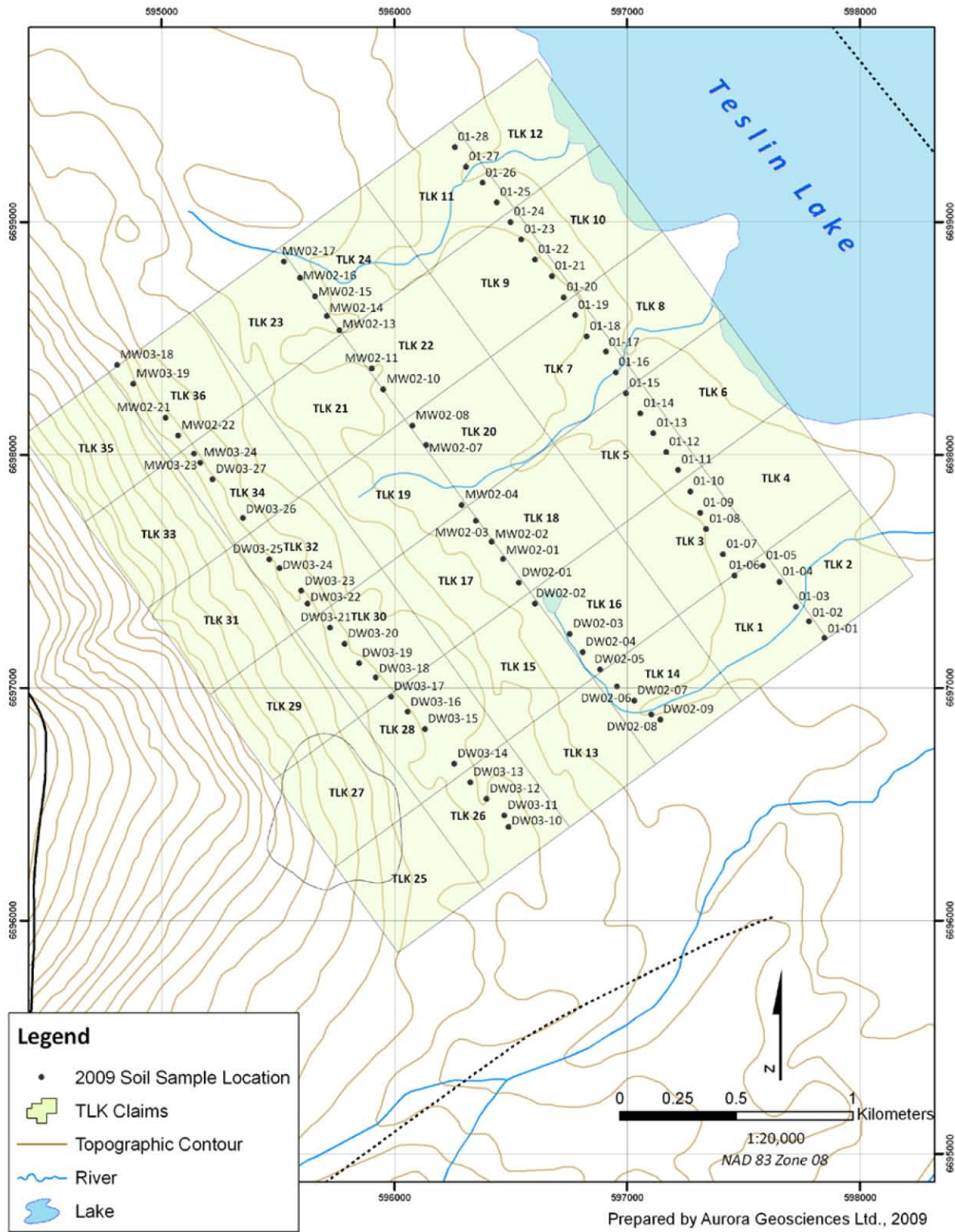
Office box, GPS receivers and Satellite phone rental \$176.00

Groceries \$275.00

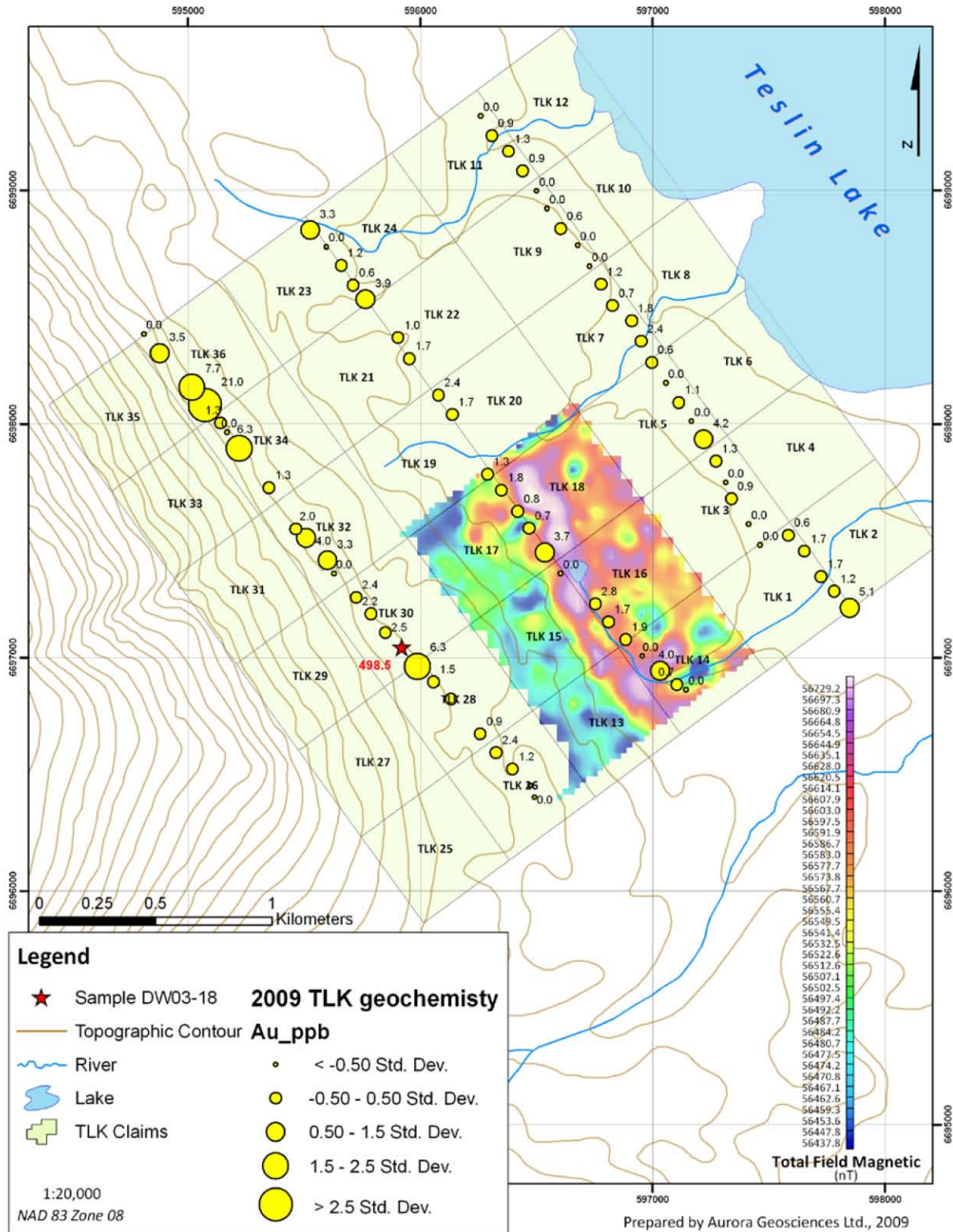
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**Total** **\$10,912.00**

**Appendix III Soil Geochemistry Maps**

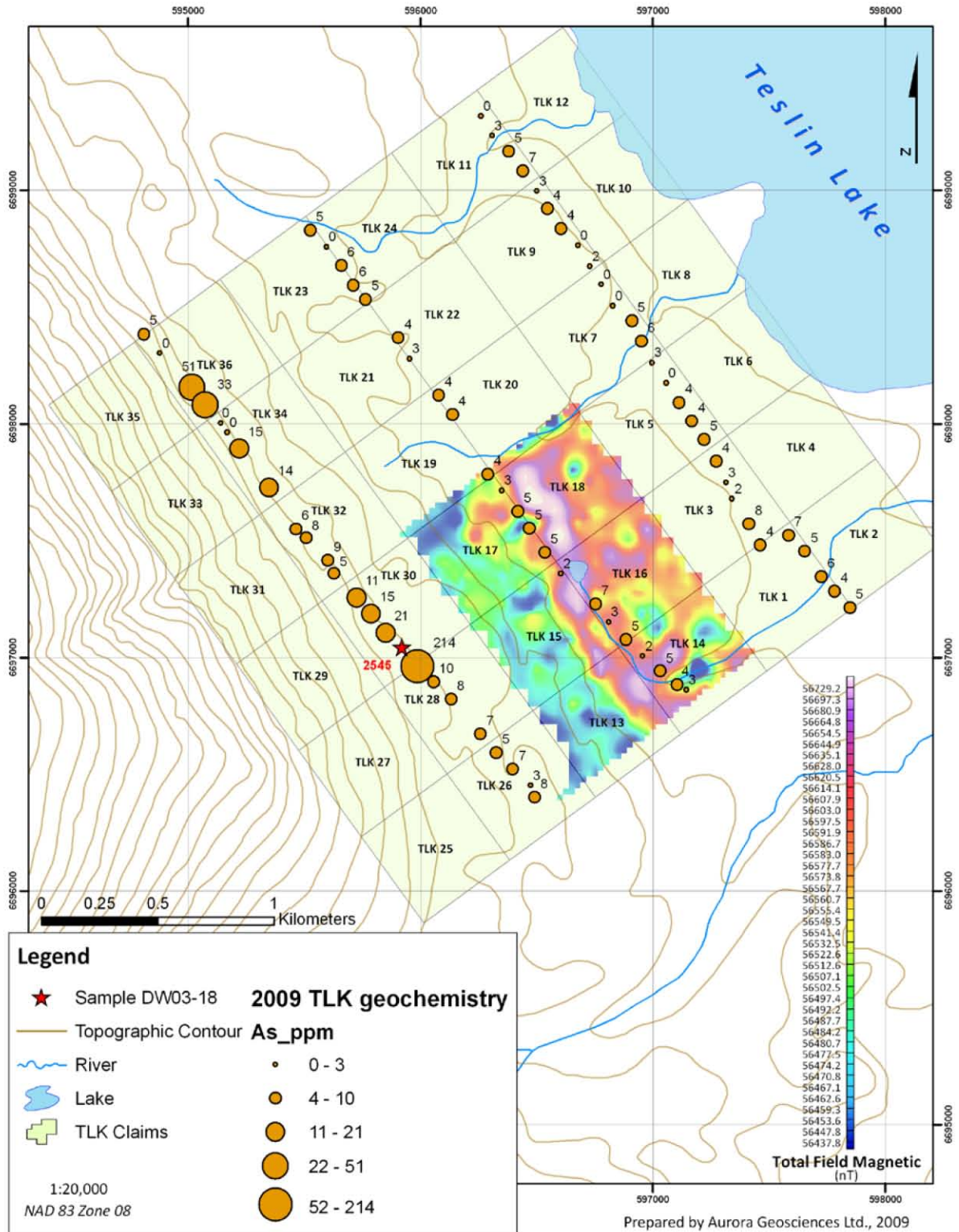


Appendix III Figure 1. Soil sample locations and sample identifier

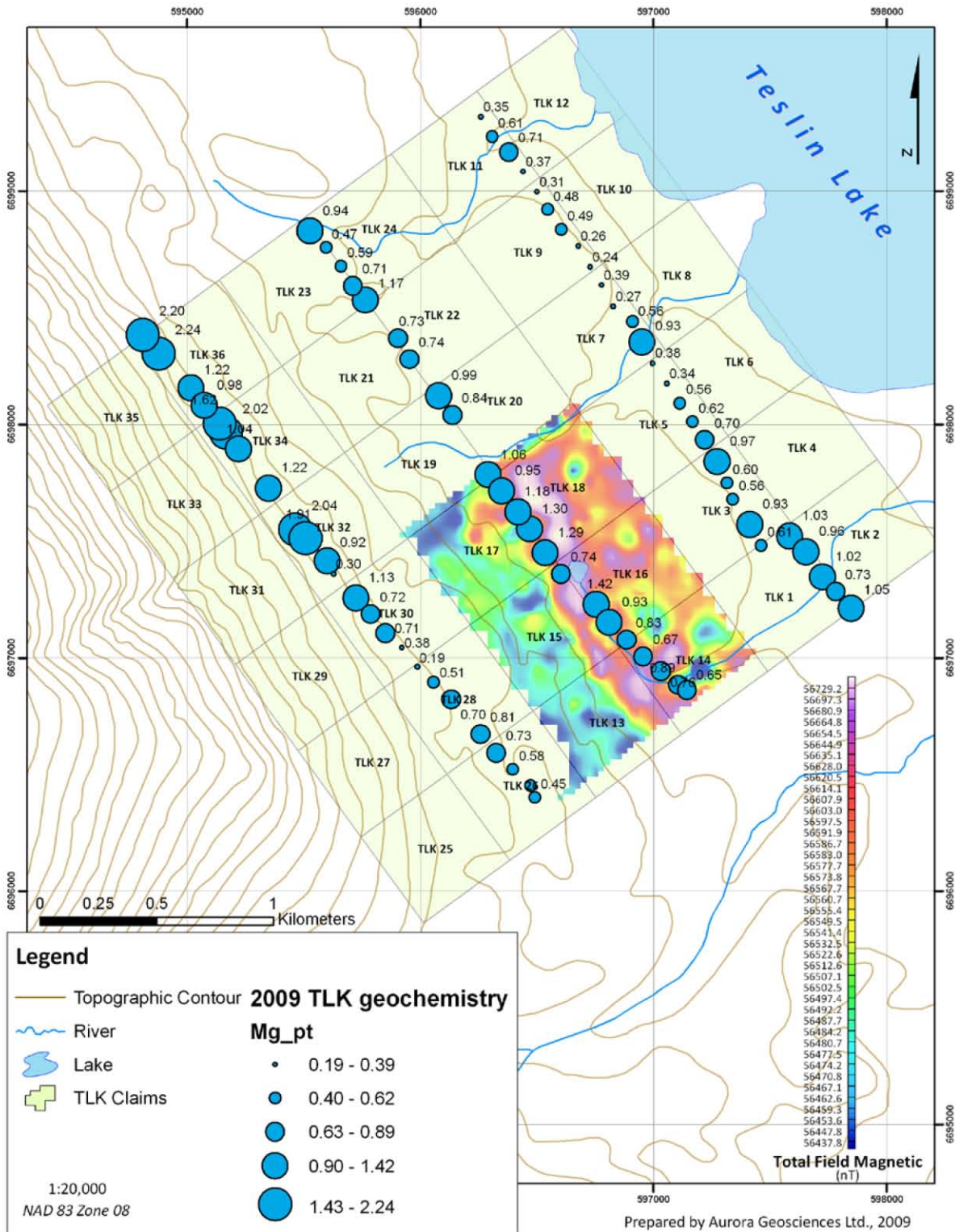


Appendix III Figure 2. Au values shown as Std. Dev. from the mean. Label: Au (ppb). Sample DW03-18 has been removed from the statistical distribution. 2009 total field magnetic survey image shown in the background



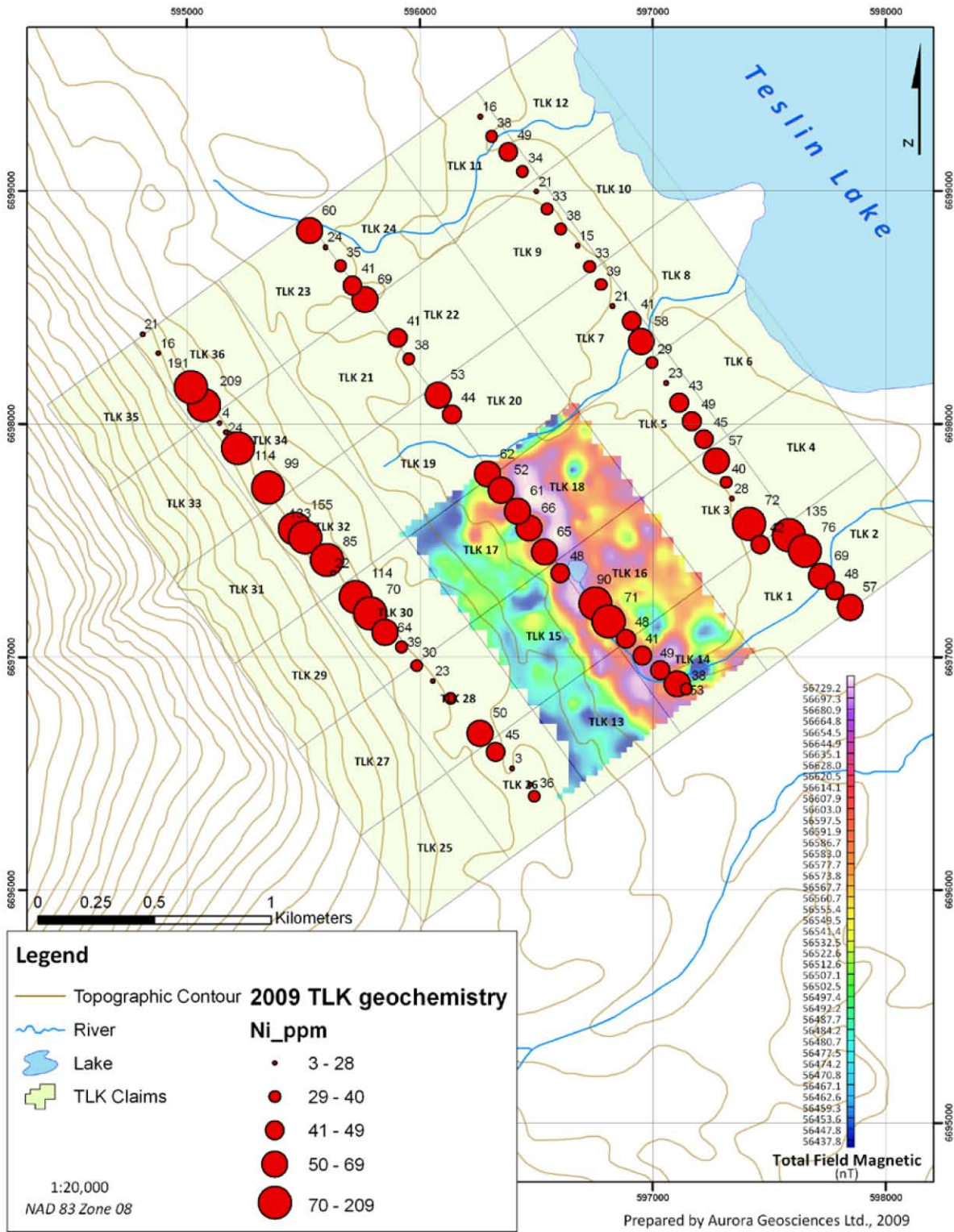


Appendix III Figure 3. As analysis. Label: As (ppm). Sample DW03-18 has been removed from the statistical distribution. 2009 total field magnetic survey image shown in the background

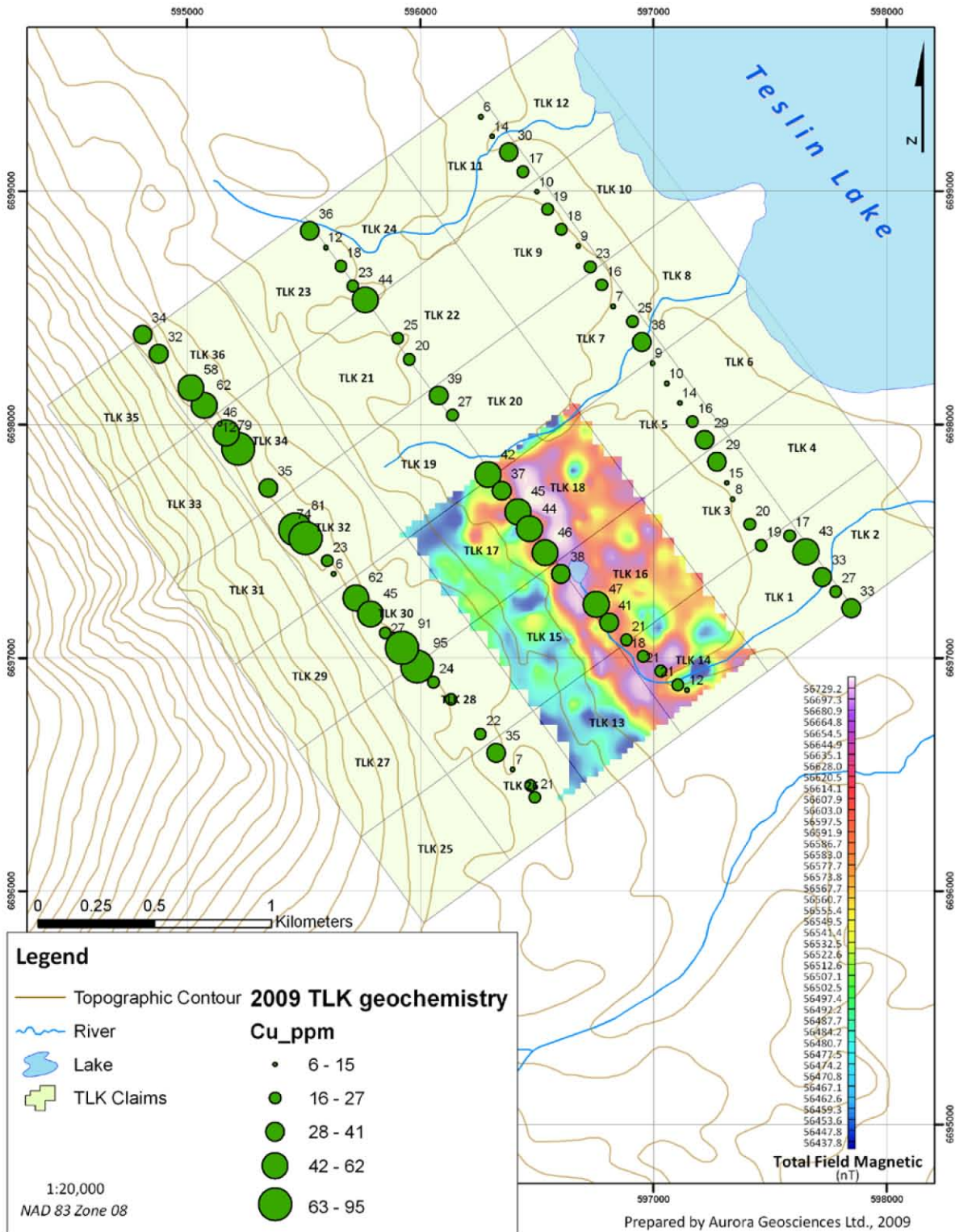


Appendix III Figure 4. Mg analysis. Label: Mg (%). 2009 total field magnetic survey image shown in the background



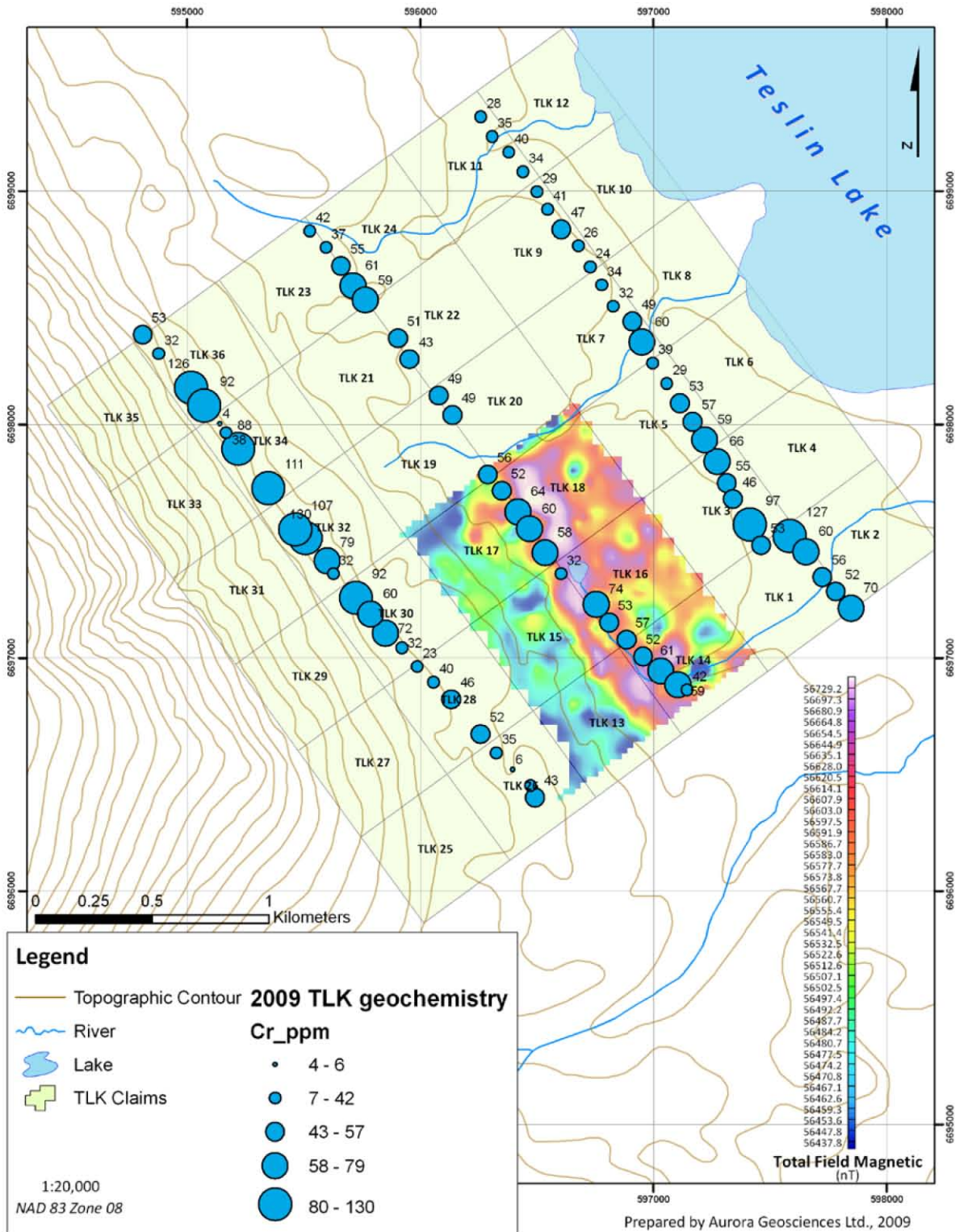


Appendix III Figure 5. Ni analysis. Label: Ni (ppm). 2009 total field magnetic survey image shown in the background



Appendix III Figure 6. Cu analysis. Label: Cu (ppm). 2009 total field magnetic survey image shown in the background





Appendix III Figure 7. Cr analysis. Label: Cr (ppm). 2009 total field magnetic survey image shown in the background



**Appendix IV** *Geochemical summary table*

Sample_ID	LAB_ID	Easting_83z8	Northing_83z8	Elevation	Type	Au_ppb	Mo_ppm	Cu_ppm
MW03-18	MW03-18	594809	6698385	925.6	Rock	<0.5	<1	34
MW03-19	MW03-19	594878	6698303	926.3	Rock	3.5	<1	32
MW03-23	MW03-23	595140	6698004	895.1	Rock	1.3	<1	12
MW03-24	MW03-24	595167	6697964	894.4	Rock	<0.5	<1	46
01-01	01-01	597848	6697213	715.1	Soil	5.1	<1	33
01-02	01-02	597782	6697283	718.7	Soil	1.2	<1	27
01-03	01-03	597725	6697346	720.1	Soil	1.7	<1	33
01-04	01-04	597654	6697454	725.2	Soil	1.7	<1	43
01-05	01-05	597584	6697523	720.1	Soil	0.6	1	17
01-06	01-06	597462	6697481	722.6	Soil	<0.5	<1	19
01-07	01-07	597413	6697571	731.2	Soil	<0.5	<1	20
01-08	01-08	597340	6697680	737.5	Soil	0.9	<1	8
01-09	01-09	597314	6697749	736.7	Soil	<0.5	<1	15
01-10	01-10	597272	6697841	748.3	Soil	1.3	<1	29
01-11	01-11	597220	6697934	731.7	Soil	4.2	<1	29
01-12	01-12	597168	6698011	726.4	Soil	<0.5	<1	16
01-13	01-13	597113	6698092	723.8	Soil	1.1	<1	14
01-14	01-14	597057	6698176	720.4	Soil	<0.5	<1	10
01-15	01-15	596996	6698263	724.2	Soil	0.6	<1	9
01-16	01-16	596951	6698353	711	Soil	2.4	<1	38
01-17	01-17	596909	6698442	708.1	Soil	1.8	<1	25
01-18	01-18	596827	6698506	710.8	Soil	0.7	<1	7
01-19	01-19	596777	6698598	725.9	Soil	1.2	<1	16
01-20	01-20	596728	6698675	740.8	Soil	<0.5	1	23
01-21	01-21	596677	6698765	735.5	Soil	<0.5	<1	9
01-22	01-22	596605	6698837	734.3	Soil	0.6	<1	18
01-23	01-23	596545	6698923	736.5	Soil	<0.5	<1	19
01-24	01-24	596500	6698997	733.1	Soil	<0.5	<1	10
01-25	01-25	596441	6699083	737.5	Soil	0.9	<1	17
01-26	01-26	596379	6699167	731	Soil	1.3	<1	30
01-27	01-27	596308	6699234	708.4	Soil	0.9	<1	14
01-28	01-28	596260	6699319	721.6	Soil	<0.5	<1	6
MW02-01	MW02-01	596467	6697552	747.8	Soil	0.7	<1	44
MW02-02	MW02-02	596419	6697626	749.5	Soil	0.8	1	45
MW02-03	MW02-03	596350	6697716	749.5	Soil	1.8	<1	37
MW02-04	MW02-04	596290	6697784	750.4	Soil	1.3	<1	42
MW02-07	MW02-07	596137	6698041	766.1	Soil	1.7	<1	27
MW02-08	MW02-08	596078	6698124	764.6	Soil	2.4	<1	39
MW02-10	MW02-10	595953	6698280	757.4	Soil	1.7	<1	20
MW02-11	MW02-11	595904	6698369	761	Soil	1	<1	25
MW02-13	MW02-13	595764	6698534	768.5	Soil	3.9	<1	44
MW02-14	MW02-14	595710	6698594	769.2	Soil	0.6	<1	23
MW02-15	MW02-15	595660	6698679	782.9	Soil	1.2	<1	18
MW02-16	MW02-16	595595	6698759	788.4	Soil	<0.5	<1	12
MW02-17	MW02-17	595526	6698829	790.6	Soil	3.3	<1	36
MW02-21	MW03-21	595017	6698158	903	Soil	7.7	<1	58
MW02-22	MW03-22	595072	6698081	901.6	Soil	21	<1	62
DW02-01	DW02-01	596535	6697450	758.6	Soil	3.7	<1	46
DW02-02	DW02-02	596604	6697360	745.9	Soil	<0.5	<1	38
DW02-03	DW02-03	596754	6697229	747.3	Soil	2.8	<1	47
DW02-04	DW02-04	596809	6697152	748.5	Soil	1.7	<1	41
DW02-05	DW02-05	596884	6697077	750.4	Soil	1.9	<1	21
DW02-06	DW02-06	596956	6697005	741.1	Soil	<0.5	<1	18
DW02-07	DW02-07	597031	6696943	749	Soil	4	1	21
DW02-08	DW02-08	597104	6696884	746.3	Soil	0.7	<1	21
DW02-09	DW02-09	597143	6696862	760	Soil	<0.5	<1	12
DW03-10	DW03-10	596491	6696401	846.6	Soil	<0.5	<1	21
DW03-11	DW03-11	596473	6696451	839.8	Soil	<0.5	<1	26
DW03-12	DW03-12	596397	6696521	834.5	Soil	1.2	<1	7
DW03-13	DW03-13	596326	6696593	826.6	Soil	2.4	<1	35
DW03-14	DW03-14	596258	6696672	836.7	Soil	0.9	<1	22
DW03-15	DW03-15	596132	6696821	854.3	Soil	1.8	1	22
DW03-16	DW03-16	596057	6696896	858.3	Soil	1.5	<1	24
DW03-17	DW03-17	595986	6696961	866.3	Soil	6.3	<1	95
DW03-18	DW03-18	595921	6697043	879.2	Soil	498.5	1	91
DW03-19	DW03-19	595849	6697105	869.9	Soil	2.5	<1	27
DW03-20	DW03-20	595787	6697187	871.3	Soil	2.2	<1	45
DW03-21	DW03-21	595724	6697257	883.3	Soil	2.4	<1	62
DW03-22	DW03-22	595627	6697360	887.7	Soil	<0.5	<1	6
DW03-23	DW03-23	595601	6697416	894.1	Soil	3.3	<1	23
DW03-24	DW03-24	595507	6697512	899.9	Soil	4	<1	74
DW03-25	DW03-25	595463	6697550	893.4	Soil	2	<1	81
DW03-26	DW03-26	595349	6697727	926.1	Soil	1.3	<1	35
DW03-27	DW03-27	595220	6697894	898.2	Soil	6.3	<1	79

Sample_ID	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_pt	As_ppm	U_ppm
MW03-18	<3	67	<0.3	21	25	1200	3.26	5	<8
MW03-19	<3	65	<0.3	16	24	1057	4.57	<2	<8
MW03-23	<3	62	<0.3	4	12	890	4.3	<2	<8
MW03-24	<3	47	<0.3	24	22	692	3.3	<2	<8
01-01	36	75	<0.3	57	11	433	3.18	5	<8
01-02	15	65	<0.3	48	10	422	2.65	4	<8
01-03	16	91	<0.3	69	13	659	2.52	6	<8
01-04	21	62	<0.3	76	10	548	3.02	5	<8
01-05	12	82	<0.3	135	19	1208	3	7	<8
01-06	16	71	<0.3	42	9	358	2.61	4	<8
01-07	15	53	<0.3	72	16	639	3.23	8	<8
01-08	9	54	<0.3	28	8	256	2.21	2	<8
01-09	16	65	<0.3	40	13	598	2.56	3	<8
01-10	10	73	<0.3	57	14	567	3.48	4	<8
01-11	7	68	<0.3	45	12	457	2.95	5	<8
01-12	14	108	<0.3	49	13	592	2.63	4	<8
01-13	9	76	<0.3	43	11	536	2.77	4	<8
01-14	20	37	<0.3	23	7	427	1.65	<2	<8
01-15	11	44	<0.3	29	8	386	1.81	3	<8
01-16	10	62	<0.3	58	12	473	2.79	6	<8
01-17	12	47	<0.3	41	10	471	2.54	5	<8
01-18	14	49	<0.3	21	8	267	1.9	<2	<8
01-19	10	72	<0.3	39	10	809	2.1	<2	<8
01-20	10	114	<0.3	33	13	2017	1.69	2	<8
01-21	9	41	0.3	15	6	221	1.36	<2	<8
01-22	20	104	<0.3	38	15	873	2.32	4	<8
01-23	10	36	<0.3	33	9	471	2.15	4	<8
01-24	12	54	<0.3	21	10	622	1.7	3	<8
01-25	21	93	0.3	34	15	887	2.19	7	<8
01-26	5	43	<0.3	49	10	566	2.1	5	<8
01-27	<3	46	<0.3	38	8	374	1.87	3	<8
01-28	6	54	<0.3	16	6	307	1.62	<2	<8
MW02-01	12	73	<0.3	66	15	611	3.44	5	<8
MW02-02	10	60	<0.3	61	12	348	3.76	5	<8
MW02-03	11	56	<0.3	52	11	470	2.7	3	<8
MW02-04	8	64	<0.3	62	12	472	3.06	4	<8
MW02-07	8	51	<0.3	44	12	538	2.88	4	<8
MW02-08	7	57	<0.3	53	12	475	3	4	<8
MW02-10	<3	44	<0.3	38	7	291	2.18	3	<8
MW02-11	10	60	<0.3	41	11	567	2.97	4	<8
MW02-13	4	57	<0.3	69	15	619	3.11	5	<8
MW02-14	5	46	<0.3	41	14	429	3.1	6	<8
MW02-15	4	42	<0.3	35	10	345	2.61	6	<8
MW02-16	<3	48	<0.3	24	11	870	1.99	<2	<8
MW02-17	4	47	<0.3	60	13	588	2.29	5	<8
MW02-21	6	53	<0.3	191	19	445	2.45	51	<8
MW02-22	10	40	<0.3	209	17	425	2.2	33	<8
DW02-01	6	71	<0.3	65	14	559	3.44	5	<8
DW02-02	3	39	<0.3	48	7	305	1.88	2	<8
DW02-03	4	64	<0.3	90	16	617	3.27	7	<8
DW02-04	5	39	<0.3	71	11	302	2.11	3	<8
DW02-05	6	46	<0.3	48	11	365	2.74	5	<8
DW02-06	3	41	<0.3	41	11	499	2.48	2	<8
DW02-07	4	31	<0.3	49	11	234	2.48	5	<8
DW02-08	3	43	<0.3	53	13	398	2.56	4	<8
DW02-09	4	29	<0.3	38	7	177	1.92	3	<8
DW03-10	4	59	<0.3	36	10	491	2.88	8	<8
DW03-11	<3	43	<0.3	15	21	647	2.6	3	<8
DW03-12	<3	47	<0.3	3	7	510	2.79	7	<8
DW03-13	<3	49	<0.3	45	7	276	2.12	5	<8
DW03-14	4	52	<0.3	50	13	451	2.55	7	9
DW03-15	11	41	<0.3	36	12	760	2.52	8	<8
DW03-16	5	30	<0.3	23	8	236	2.32	10	<8
DW03-17	7	21	<0.3	30	16	605	2.01	214	<8
DW03-18	10	35	<0.3	39	33	2350	4.76	2545	<8
DW03-19	5	40	<0.3	64	17	577	2.56	21	<8
DW03-20	5	23	<0.3	70	11	634	1.68	15	<8
DW03-21	5	41	<0.3	114	14	450	2.24	11	<8
DW03-22	3	20	<0.3	22	5	123	1.46	5	<8
DW03-23	<3	28	<0.3	85	11	242	2.03	9	<8
DW03-24	4	58	<0.3	133	23	681	3.21	8	<8
DW03-25	<3	41	<0.3	155	22	581	2.94	6	<8
DW03-26	7	59	<0.3	99	19	664	2.48	14	<8
DW03-27	4	63	<0.3	114	18	650	2.77	15	<8

Sample_ID	Au_ppm	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_pt	P_pt	La_ppm
MW03-18	<2	<2	40	<0.5	<3	<3	78	5.04	0.033	<1
MW03-19	<2	<2	29	<0.5	<3	<3	134	4.51	0.031	<1
MW03-23	<2	<2	74	<0.5	3	<3	59	1.96	0.049	1
MW03-24	<2	<2	21	<0.5	<3	<3	49	0.62	0.032	<1
01-01	<2	3	41	<0.5	<3	<3	55	0.68	0.092	14
01-02	<2	3	35	<0.5	3	<3	51	0.58	0.069	13
01-03	<2	<2	45	1	<3	<3	46	0.83	0.077	10
01-04	<2	4	43	<0.5	<3	<3	58	0.69	0.078	17
01-05	<2	<2	28	<0.5	<3	<3	52	0.46	0.047	9
01-06	<2	2	25	<0.5	<3	<3	51	0.45	0.055	9
01-07	<2	2	36	<0.5	<3	<3	58	0.57	0.078	10
01-08	<2	<2	23	<0.5	<3	<3	45	0.42	0.062	8
01-09	<2	3	28	<0.5	<3	<3	48	0.44	0.052	8
01-10	<2	4	34	<0.5	3	<3	59	0.57	0.071	14
01-11	<2	3	35	<0.5	<3	<3	58	0.59	0.075	10
01-12	<2	3	24	<0.5	<3	<3	52	0.4	0.089	10
01-13	<2	3	23	<0.5	3	<3	54	0.4	0.073	9
01-14	<2	2	20	<0.5	<3	<3	42	0.33	0.028	8
01-15	<2	2	12	<0.5	<3	<3	42	0.23	0.039	6
01-16	<2	4	51	<0.5	<3	<3	55	1.2	0.087	14
01-17	<2	3	29	<0.5	<3	<3	54	0.48	0.044	12
01-18	<2	3	15	<0.5	<3	<3	40	0.26	0.082	5
01-19	<2	<2	29	<0.5	<3	<3	37	0.48	0.074	7
01-20	<2	<2	42	0.8	<3	<3	34	0.62	0.103	7
01-21	<2	<2	17	<0.5	<3	<3	36	0.28	0.032	6
01-22	<2	<2	36	0.6	<3	<3	47	0.6	0.069	8
01-23	<2	2	18	<0.5	<3	<3	47	0.32	0.033	8
01-24	<2	<2	14	<0.5	<3	<3	39	0.26	0.044	6
01-25	<2	<2	24	0.8	<3	<3	39	0.4	0.096	7
01-26	<2	2	49	<0.5	<3	<3	41	0.85	0.074	10
01-27	<2	2	21	<0.5	<3	<3	39	0.42	0.049	7
01-28	<2	2	16	<0.5	<3	<3	35	0.31	0.06	6
MW02-01	<2	5	56	<0.5	3	<3	58	0.83	0.09	17
MW02-02	<2	3	77	<0.5	<3	<3	68	1.01	0.022	15
MW02-03	<2	3	76	<0.5	<3	<3	50	1.22	0.083	12
MW02-04	<2	3	64	<0.5	<3	<3	54	1.05	0.08	13
MW02-07	<2	4	37	<0.5	<3	<3	59	0.52	0.055	12
MW02-08	<2	5	49	<0.5	<3	<3	56	0.65	0.076	14
MW02-10	<2	3	45	<0.5	<3	<3	43	0.72	0.071	10
MW02-11	<2	3	38	<0.5	<3	<3	60	0.58	0.038	11
MW02-13	<2	3	56	<0.5	<3	<3	59	0.97	0.048	15
MW02-14	<2	<2	23	<0.5	<3	<3	65	0.42	0.024	7
MW02-15	<2	3	30	<0.5	<3	<3	59	0.45	0.034	13
MW02-16	<2	<2	11	<0.5	<3	<3	50	0.25	0.032	7
MW02-17	<2	<2	48	<0.5	<3	<3	45	0.97	0.068	10
MW02-21	<2	<2	37	<0.5	<3	<3	41	1.82	0.052	7
MW02-22	<2	<2	33	<0.5	<3	<3	38	2.02	0.05	7
DW02-01	<2	3	55	<0.5	<3	<3	59	0.88	0.089	18
DW02-02	<2	<2	74	<0.5	<3	<3	32	1.62	0.06	10
DW02-03	<2	3	44	<0.5	<3	<3	62	0.59	0.052	15
DW02-04	<2	<2	73	<0.5	<3	<3	42	1.22	0.049	10
DW02-05	<2	<2	39	<0.5	<3	<3	56	0.57	0.027	10
DW02-06	<2	<2	25	<0.5	<3	<3	52	0.31	0.031	9
DW02-07	<2	<2	28	<0.5	<3	<3	54	0.4	0.018	11
DW02-08	<2	<2	35	<0.5	<3	<3	50	0.58	0.03	8
DW02-09	<2	<2	37	<0.5	<3	<3	36	0.64	0.021	7
DW03-10	<2	2	9	<0.5	<3	<3	65	0.2	0.032	7
DW03-11	<2	<2	9	<0.5	<3	<3	55	0.23	0.021	4
DW03-12	<2	<2	13	<0.5	<3	<3	96	0.13	0.025	3
DW03-13	<2	3	45	<0.5	<3	3	39	0.93	0.044	14
DW03-14	<2	3	20	<0.5	<3	3	51	0.36	0.037	10
DW03-15	<2	<2	40	<0.5	<3	<3	53	0.92	0.023	7
DW03-16	<2	<2	16	<0.5	<3	<3	56	0.67	0.011	7
DW03-17	<2	<2	42	<0.5	<3	<3	38	1.34	0.049	6
DW03-18	<2	<2	56	<0.5	3	<3	56	1.76	0.066	8
DW03-19	<2	<2	15	<0.5	<3	<3	50	0.31	0.012	7
DW03-20	<2	<2	85	<0.5	<3	<3	32	2.58	0.044	6
DW03-21	<2	<2	35	<0.5	<3	<3	42	1.44	0.046	9
DW03-22	<2	<2	9	<0.5	<3	<3	43	0.2	0.01	6
DW03-23	<2	<2	15	<0.5	<3	<3	45	0.39	0.015	8
DW03-24	<2	<2	24	<0.5	<3	<3	76	0.66	0.036	6
DW03-25	<2	<2	27	<0.5	<3	<3	72	0.86	0.048	5
DW03-26	<2	<2	32	<0.5	<3	<3	51	1.13	0.041	7
DW03-27	<2	2	28	<0.5	<3	<3	56	0.62	0.035	8

Sample_ID	Cr_ppm	Mg_pt	Ba_ppm	Ti_pt	B_ppm	Al_pt	Na_pt	K_pt	W_ppm	S_pt
MW03-18	53	2.2	29	0.15	<20	2.55	0.01	<0.01	<2	<0.05
MW03-19	32	2.24	12	0.02	<20	3.1	0.02	0.02	<2	<0.05
MW03-23	4	1.62	22	<0.01	<20	2.81	0.05	0.03	<2	0.3
MW03-24	38	2.02	15	0.17	<20	2.28	0.03	0.08	<2	<0.05
01-01	70	1.05	289	0.14	<20	1.9	0.02	0.11	<2	<0.05
01-02	52	0.73	285	0.12	<20	1.63	0.02	0.08	<2	<0.05
01-03	56	1.02	304	0.1	<20	1.49	0.04	0.08	<2	<0.05
01-04	60	0.96	423	0.13	<20	1.98	0.02	0.09	<2	<0.05
01-05	127	1.03	334	0.1	<20	1.71	0.01	0.1	<2	<0.05
01-06	53	0.61	258	0.13	<20	1.65	0.01	0.07	<2	<0.05
01-07	97	0.93	258	0.13	<20	1.72	0.01	0.09	<2	<0.05
01-08	46	0.56	183	0.13	<20	1.41	<0.01	0.08	<2	<0.05
01-09	55	0.6	266	0.12	<20	1.48	<0.01	0.09	<2	<0.05
01-10	66	0.97	322	0.12	<20	2.3	<0.01	0.14	<2	<0.05
01-11	59	0.7	257	0.17	<20	1.54	0.02	0.1	<2	<0.05
01-12	57	0.62	267	0.13	<20	1.57	0.01	0.07	<2	<0.05
01-13	53	0.56	267	0.14	<20	1.72	<0.01	0.08	<2	<0.05
01-14	29	0.34	343	0.09	<20	1.24	<0.01	0.06	<2	<0.05
01-15	39	0.38	184	0.09	<20	1.16	<0.01	0.06	<2	<0.05
01-16	60	0.93	257	0.16	<20	1.26	0.02	0.08	<2	<0.05
01-17	49	0.56	274	0.14	<20	1.39	0.01	0.05	<2	<0.05
01-18	32	0.27	199	0.11	<20	1.05	<0.01	0.06	<2	<0.05
01-19	34	0.39	365	0.08	<20	1.47	0.01	0.15	<2	<0.05
01-20	24	0.24	617	0.07	<20	1.04	0.01	0.09	<2	<0.05
01-21	26	0.26	166	0.09	<20	0.81	0.01	0.07	<2	<0.05
01-22	47	0.49	359	0.09	<20	1.59	<0.01	0.11	<2	<0.05
01-23	41	0.48	285	0.1	<20	1.44	<0.01	0.06	<2	<0.05
01-24	29	0.31	297	0.09	<20	1.01	<0.01	0.05	<2	<0.05
01-25	34	0.37	315	0.08	<20	1.21	<0.01	0.06	<2	<0.05
01-26	40	0.71	285	0.1	<20	1.02	0.02	0.05	<2	<0.05
01-27	35	0.61	174	0.11	<20	0.88	<0.01	0.05	<2	<0.05
01-28	28	0.35	131	0.11	<20	0.88	<0.01	0.06	<2	<0.05
MW02-01	60	1.3	338	0.13	<20	2.01	0.03	0.12	<2	<0.05
MW02-02	64	1.18	445	0.11	<20	2.48	0.02	0.13	<2	<0.05
MW02-03	52	0.95	302	0.12	<20	1.49	0.03	0.08	<2	<0.05
MW02-04	56	1.06	359	0.11	<20	1.82	0.03	0.09	<2	<0.05
MW02-07	49	0.84	268	0.16	<20	1.46	0.03	0.07	<2	<0.05
MW02-08	49	0.99	292	0.16	<20	1.5	0.03	0.07	<2	<0.05
MW02-10	43	0.74	239	0.13	<20	1.15	0.02	0.05	<2	<0.05
MW02-11	51	0.73	301	0.16	<20	1.61	0.01	0.06	<2	<0.05
MW02-13	59	1.17	326	0.14	<20	1.76	0.03	0.1	<2	<0.05
MW02-14	61	0.71	280	0.15	<20	1.9	0.02	0.07	<2	<0.05
MW02-15	55	0.59	278	0.16	<20	1.47	0.03	0.05	<2	<0.05
MW02-16	37	0.47	170	0.09	<20	1.37	0.01	0.05	<2	<0.05
MW02-17	42	0.94	250	0.13	<20	1.01	0.03	0.05	<2	<0.05
MW02-21	126	1.22	103	0.05	<20	1.27	0.02	0.06	<2	0.1
MW02-22	92	0.98	89	0.04	<20	1.26	0.01	0.06	<2	0.1
DW02-01	58	1.29	366	0.12	<20	2.05	0.04	0.1	<2	<0.05
DW02-02	32	0.74	266	0.07	<20	1.21	0.03	0.05	<2	0.08
DW02-03	74	1.42	269	0.15	<20	1.67	0.04	0.09	<2	<0.05
DW02-04	53	0.93	297	0.08	<20	1.36	0.03	0.06	<2	<0.05
DW02-05	57	0.83	244	0.13	<20	1.74	0.03	0.08	<2	<0.05
DW02-06	52	0.67	289	0.11	<20	1.64	0.02	0.06	<2	<0.05
DW02-07	61	0.76	176	0.11	<20	1.54	0.02	0.05	<2	<0.05
DW02-08	59	0.89	233	0.12	<20	1.51	0.03	0.06	<2	<0.05
DW02-09	42	0.65	222	0.09	<20	1.23	0.03	0.03	<2	<0.05
DW03-10	43	0.45	186	0.13	<20	2.16	<0.01	0.03	<2	<0.05
DW03-11	31	0.49	149	0.06	<20	1.87	0.02	0.04	<2	<0.05
DW03-12	6	0.58	48	0.1	<20	1.44	0.01	0.02	<2	<0.05
DW03-13	35	0.73	421	0.08	<20	1.44	0.02	0.12	<2	<0.05
DW03-14	52	0.81	193	0.11	<20	1.56	0.01	0.12	<2	<0.05
DW03-15	46	0.7	182	0.08	<20	1.64	0.01	0.08	<2	<0.05
DW03-16	40	0.51	110	0.1	<20	1.83	0.01	0.02	<2	<0.05
DW03-17	23	0.19	150	0.05	<20	1.06	0.02	0.03	<2	<0.05
DW03-18	32	0.38	294	0.03	<20	1.57	0.01	0.02	<2	0.07
DW03-19	72	0.71	195	0.09	<20	1.53	0.01	0.06	<2	<0.05
DW03-20	60	0.72	199	0.04	<20	1.05	0.02	0.04	<2	0.1
DW03-21	92	1.13	189	0.07	<20	1.27	0.03	0.06	<2	<0.05
DW03-22	32	0.3	84	0.07	<20	0.92	0.01	0.02	<2	<0.05
DW03-23	79	0.92	149	0.1	<20	1.09	0.02	0.03	<2	<0.05
DW03-24	130	1.91	132	0.08	<20	1.98	0.02	0.06	<2	<0.05
DW03-25	107	2.04	76	0.05	<20	1.88	0.02	0.11	<2	<0.05
DW03-26	111	1.22	123	0.08	<20	1.35	0.02	0.09	<2	<0.05
DW03-27	88	1.04	218	0.09	<20	1.54	0.02	0.06	<2	<0.05



**Appendix V** *Assay Certificates*



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
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Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** **Aurora Geosciences Ltd. (Yellowknife)**  
 3506 McDonald Drive  
 Yellowknife NT X1A 2H1 Canada

Submitted By: Dave White  
 Receiving Lab: Canada-Yellowknife  
 Received: September 18, 2009  
 Report Date: October 08, 2009  
 Page: 1 of 2

**CERTIFICATE OF ANALYSIS**

**YKN09000092.1**

**CLIENT JOB INFORMATION**

Project: TMP-9541-YT  
 Shipment ID:  
 P.O. Number: TMP-9541-YT  
 Number of Samples: 4

**SAMPLE DISPOSAL**

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

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

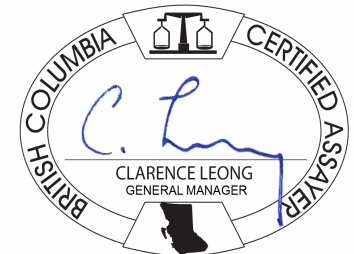
Invoice To: Aurora Geosciences Ltd. (Yellowknife)  
 3506 McDonald Drive  
 Yellowknife NT X1A 2H1  
 Canada

CC: Mike Wark

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
YKRP	4	Crush and Split at Remote Prep		Completed	YKN
P200	4	Pulverize to 85% passing 200 mesh			VAN
3A	4	Ignite samples, acid digest, Au by ICP-MS analysis	15	Completed	VAN
1DD	4	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

**ADDITIONAL COMMENTS**



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.  
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 "\*\*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Yellowknife NT X1A 2H1 Canada

Project: TMP-9541-YT  
 Report Date: October 08, 2009

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

YKN09000092.1

Method	WGHT	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1	
MW03-18	Rock	0.46	<0.5	<1	34	<3	67	<0.3	21	25	1200	3.26	5	<8	<2	<2	40	<0.5	<3	<3	78
MW03-19	Rock	0.31	3.5	<1	32	<3	65	<0.3	16	24	1057	4.57	<2	<8	<2	<2	29	<0.5	<3	<3	134
MW03-23	Rock	0.60	1.3	<1	12	<3	62	<0.3	4	12	890	4.30	<2	<8	<2	<2	74	<0.5	3	<3	59
MW03-24	Rock	0.37	<0.5	<1	46	<3	47	<0.3	24	22	692	3.30	<2	<8	<2	<2	21	<0.5	<3	<3	49



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 Yellowknife NT X1A 2H1 Canada

**Project:** TMP-9541-YT  
**Report Date:** October 08, 2009

**Page:** 2 of 2 Part 2

# CERTIFICATE OF ANALYSIS

YKN09000092.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%
MDL		0.01	0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05
MW03-18	Rock	5.04	0.033	<1	53	2.20	29	0.15	<20	2.55	0.01	<0.01	<2	<0.05
MW03-19	Rock	4.51	0.031	<1	32	2.24	12	0.02	<20	3.10	0.02	0.02	<2	<0.05
MW03-23	Rock	1.96	0.049	1	4	1.62	22	<0.01	<20	2.81	0.05	0.03	<2	0.30
MW03-24	Rock	0.62	0.032	<1	38	2.02	15	0.17	<20	2.28	0.03	0.08	<2	<0.05



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3506 McDonald Drive  
Yellowknife NT X1A 2H1 Canada

Project: TMP-9541-YT

Report Date: October 08, 2009

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

YKN09000092.1

Method	WGHT	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1
Reference Materials																				
STD DS7	Standard		20	101	67	411	0.9	54	8	594	2.30	50	<8	<2	4	66	5.6	5	<3	78
STD OREAS45PA	Standard		<1	573	21	128	0.4	280	106	1106	16.33	5	<8	<2	6	13	<0.5	<3	<3	220
STD OXE56A	Standard	582.0																		
STD DS7 Expected			21	109	71	411	0.9	56	10	627	2.39	48	5	0.07	4	68	6.4	5	5	84
STD OREAS45PA Expected			0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	0.043	6	14	0.09	0.13	0.18	221
STD OXE56A Expected		545																		
BLK	Blank		<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<8	<2	<2	<1	<0.5	<3	<3	<1
BLK	Blank	<0.5																		
BLK	Blank	<0.5																		
Prep Wash																				
G1	Prep Blank	<0.5	<1	1	<3	48	<0.3	4	3	552	2.03	3	<8	<2	3	59	<0.5	<3	<3	39





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3506 McDonald Drive  
Yellowknife NT X1A 2H1 Canada

Project: TMP-9541-YT

Report Date: October 08, 2009

Page: 1 of 1 Part 2

# QUALITY CONTROL REPORT

YKN09000092.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%
MDL		0.01	0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05
Reference Materials														
STD DS7	Standard	0.93	0.074	11	165	1.00	392	0.10	36	0.94	0.08	0.41	3	0.21
STD OREAS45PA	Standard	0.24	0.033	16	793	0.09	181	0.12	<20	3.13	<0.01	0.06	<2	<0.05
STD OXE56A	Standard													
STD DS7 Expected		0.93	0.08	13	179	1.05	370	0.124	39	0.959	0.073	0.44	4	0.19
STD OREAS45PA Expected		0.2411	0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03
STD OXE56A Expected														
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.01	<20	<0.01	<0.01	<0.01	<2	<0.05
BLK	Blank													
BLK	Blank													
Prep Wash														
G1	Prep Blank	0.52	0.079	7	9	0.61	260	0.14	<20	1.01	0.08	0.56	<2	<0.05



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 3506 McDonald Drive  
 Yellowknife NT X1A 2H1 Canada

Submitted By: Dave White  
 Receiving Lab: Canada-Yellowknife  
 Received: September 18, 2009  
 Report Date: October 06, 2009  
 Page: 1 of 4

**CERTIFICATE OF ANALYSIS**

**YKN09000093.1**

**CLIENT JOB INFORMATION**

Project: TMP-9541-YT  
 Shipment ID:  
 P.O. Number: TMP-9541-YT  
 Number of Samples: 70

**SAMPLE DISPOSAL**

DISP-PLP Dispose of Pulp After 90 days  
 DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

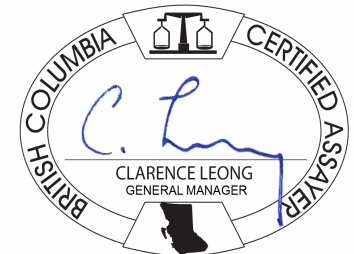
Invoice To: Aurora Geosciences Ltd. (Yellowknife)  
 3506 McDonald Drive  
 Yellowknife NT X1A 2H1  
 Canada

CC: Mike Wark

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	70	Dry at 60C sieve 100g to -80 mesh			YKN
Dry at 60C	70	Dry at 60C			YKN
3A	70	Acid digest, Au by ICP-MS analysis	15	Completed	VAN
1D	70	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN

**ADDITIONAL COMMENTS**



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.  
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 "\*\*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 3506 McDonald Drive  
 Yellowknife NT X1A 2H1 Canada

Project: TMP-9541-YT  
 Report Date: October 06, 2009

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

YKN09000093.1

Method	Analyte	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1	0.01
01-01	Soil	5.1	<1	33	36	75	<0.3	57	11	433	3.18	5	<8	<2	3	41	<0.5	<3	<3	55	0.68
01-02	Soil	1.2	<1	27	15	65	<0.3	48	10	422	2.65	4	<8	<2	3	35	<0.5	3	<3	51	0.58
01-03	Soil	1.7	<1	33	16	91	<0.3	69	13	659	2.52	6	<8	<2	<2	45	1.0	<3	<3	46	0.83
01-04	Soil	1.7	<1	43	21	62	<0.3	76	10	548	3.02	5	<8	<2	4	43	<0.5	<3	<3	58	0.69
01-05	Soil	0.6	1	17	12	82	<0.3	135	19	1208	3.00	7	<8	<2	<2	28	<0.5	<3	<3	52	0.46
01-06	Soil	<0.5	<1	19	16	71	<0.3	42	9	358	2.61	4	<8	<2	2	25	<0.5	<3	<3	51	0.45
01-07	Soil	<0.5	<1	20	15	53	<0.3	72	16	639	3.23	8	<8	<2	2	36	<0.5	<3	<3	58	0.57
01-08	Soil	0.9	<1	8	9	54	<0.3	28	8	256	2.21	2	<8	<2	<2	23	<0.5	<3	<3	45	0.42
01-09	Soil	<0.5	<1	15	16	65	<0.3	40	13	598	2.56	3	<8	<2	3	28	<0.5	<3	<3	48	0.44
01-10	Soil	1.3	<1	29	10	73	<0.3	57	14	567	3.48	4	<8	<2	4	34	<0.5	3	<3	59	0.57
01-11	Soil	4.2	<1	29	7	68	<0.3	45	12	457	2.95	5	<8	<2	3	35	<0.5	<3	<3	58	0.59
01-12	Soil	<0.5	<1	16	14	108	<0.3	49	13	592	2.63	4	<8	<2	3	24	<0.5	<3	<3	52	0.40
01-13	Soil	1.1	<1	14	9	76	<0.3	43	11	536	2.77	4	<8	<2	3	23	<0.5	3	<3	54	0.40
01-14	Soil	<0.5	<1	10	20	37	<0.3	23	7	427	1.65	<2	<8	<2	2	20	<0.5	<3	<3	42	0.33
01-15	Soil	0.6	<1	9	11	44	<0.3	29	8	386	1.81	3	<8	<2	2	12	<0.5	<3	<3	42	0.23
01-16	Soil	2.4	<1	38	10	62	<0.3	58	12	473	2.79	6	<8	<2	4	51	<0.5	<3	<3	55	1.20
01-17	Soil	1.8	<1	25	12	47	<0.3	41	10	471	2.54	5	<8	<2	3	29	<0.5	<3	<3	54	0.48
01-18	Soil	0.7	<1	7	14	49	<0.3	21	8	267	1.90	<2	<8	<2	3	15	<0.5	<3	<3	40	0.26
01-19	Soil	1.2	<1	16	10	72	<0.3	39	10	809	2.10	<2	<8	<2	<2	29	<0.5	<3	<3	37	0.48
01-20	Soil	<0.5	1	23	10	114	<0.3	33	13	2017	1.69	2	<8	<2	<2	42	0.8	<3	<3	34	0.62
01-21	Soil	<0.5	<1	9	9	41	0.3	15	6	221	1.36	<2	<8	<2	<2	17	<0.5	<3	<3	36	0.28
01-22	Soil	0.6	<1	18	20	104	<0.3	38	15	873	2.32	4	<8	<2	<2	36	0.6	<3	<3	47	0.60
01-23	Soil	<0.5	<1	19	10	36	<0.3	33	9	471	2.15	4	<8	<2	2	18	<0.5	<3	<3	47	0.32
01-24	Soil	<0.5	<1	10	12	54	<0.3	21	10	622	1.70	3	<8	<2	<2	14	<0.5	<3	<3	39	0.26
01-25	Soil	0.9	<1	17	21	93	0.3	34	15	887	2.19	7	<8	<2	<2	24	0.8	<3	<3	39	0.40
01-26	Soil	1.3	<1	30	5	43	<0.3	49	10	566	2.10	5	<8	<2	2	49	<0.5	<3	<3	41	0.85
01-27	Soil	0.9	<1	14	<3	46	<0.3	38	8	374	1.87	3	<8	<2	2	21	<0.5	<3	<3	39	0.42
01-28	Soil	<0.5	<1	6	6	54	<0.3	16	6	307	1.62	<2	<8	<2	2	16	<0.5	<3	<3	35	0.31
MW02-01	Soil	0.7	<1	44	12	73	<0.3	66	15	611	3.44	5	<8	<2	5	56	<0.5	3	<3	58	0.83
MW02-02	Soil	0.8	1	45	10	60	<0.3	61	12	348	3.76	5	<8	<2	3	77	<0.5	<3	<3	68	1.01

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 3506 McDonald Drive  
 Yellowknife NT X1A 2H1 Canada

Project: TMP-9541-YT  
 Report Date: October 06, 2009

Page: 2 of 4 Part 2

CERTIFICATE OF ANALYSIS

YKN09000093.1

Method	Analyte	Unit	MDL	1D P	1D La	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D S
				%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%
				0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05
01-01	Soil			0.092	14	70	1.05	289	0.14	<20	1.90	0.02	0.11	<2	<0.05
01-02	Soil			0.069	13	52	0.73	285	0.12	<20	1.63	0.02	0.08	<2	<0.05
01-03	Soil			0.077	10	56	1.02	304	0.10	<20	1.49	0.04	0.08	<2	<0.05
01-04	Soil			0.078	17	60	0.96	423	0.13	<20	1.98	0.02	0.09	<2	<0.05
01-05	Soil			0.047	9	127	1.03	334	0.10	<20	1.71	0.01	0.10	<2	<0.05
01-06	Soil			0.055	9	53	0.61	258	0.13	<20	1.65	0.01	0.07	<2	<0.05
01-07	Soil			0.078	10	97	0.93	258	0.13	<20	1.72	0.01	0.09	<2	<0.05
01-08	Soil			0.062	8	46	0.56	183	0.13	<20	1.41	<0.01	0.08	<2	<0.05
01-09	Soil			0.052	8	55	0.60	266	0.12	<20	1.48	<0.01	0.09	<2	<0.05
01-10	Soil			0.071	14	66	0.97	322	0.12	<20	2.30	<0.01	0.14	<2	<0.05
01-11	Soil			0.075	10	59	0.70	257	0.17	<20	1.54	0.02	0.10	<2	<0.05
01-12	Soil			0.089	10	57	0.62	267	0.13	<20	1.57	0.01	0.07	<2	<0.05
01-13	Soil			0.073	9	53	0.56	267	0.14	<20	1.72	<0.01	0.08	<2	<0.05
01-14	Soil			0.028	8	29	0.34	343	0.09	<20	1.24	<0.01	0.06	<2	<0.05
01-15	Soil			0.039	6	39	0.38	184	0.09	<20	1.16	<0.01	0.06	<2	<0.05
01-16	Soil			0.087	14	60	0.93	257	0.16	<20	1.26	0.02	0.08	<2	<0.05
01-17	Soil			0.044	12	49	0.56	274	0.14	<20	1.39	0.01	0.05	<2	<0.05
01-18	Soil			0.082	5	32	0.27	199	0.11	<20	1.05	<0.01	0.06	<2	<0.05
01-19	Soil			0.074	7	34	0.39	365	0.08	<20	1.47	0.01	0.15	<2	<0.05
01-20	Soil			0.103	7	24	0.24	617	0.07	<20	1.04	0.01	0.09	<2	<0.05
01-21	Soil			0.032	6	26	0.26	166	0.09	<20	0.81	0.01	0.07	<2	<0.05
01-22	Soil			0.069	8	47	0.49	359	0.09	<20	1.59	<0.01	0.11	<2	<0.05
01-23	Soil			0.033	8	41	0.48	285	0.10	<20	1.44	<0.01	0.06	<2	<0.05
01-24	Soil			0.044	6	29	0.31	297	0.09	<20	1.01	<0.01	0.05	<2	<0.05
01-25	Soil			0.096	7	34	0.37	315	0.08	<20	1.21	<0.01	0.06	<2	<0.05
01-26	Soil			0.074	10	40	0.71	285	0.10	<20	1.02	0.02	0.05	<2	<0.05
01-27	Soil			0.049	7	35	0.61	174	0.11	<20	0.88	<0.01	0.05	<2	<0.05
01-28	Soil			0.060	6	28	0.35	131	0.11	<20	0.88	<0.01	0.06	<2	<0.05
MW02-01	Soil			0.090	17	60	1.30	338	0.13	<20	2.01	0.03	0.12	<2	<0.05
MW02-02	Soil			0.022	15	64	1.18	445	0.11	<20	2.48	0.02	0.13	<2	<0.05

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Project: TMP-9541-YT  
 Report Date: October 06, 2009

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CERTIFICATE OF ANALYSIS

YKN09000093.1

Method	Analyte	Unit	MDL	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D		
				Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
				ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
				0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1	0.01
MW02-03	Soil			1.8	<1	37	11	56	<0.3	52	11	470	2.70	3	<8	<2	3	76	<0.5	<3	<3	50	1.22
MW02-04	Soil			1.3	<1	42	8	64	<0.3	62	12	472	3.06	4	<8	<2	3	64	<0.5	<3	<3	54	1.05
MW02-07	Soil			1.7	<1	27	8	51	<0.3	44	12	538	2.88	4	<8	<2	4	37	<0.5	<3	<3	59	0.52
MW02-08	Soil			2.4	<1	39	7	57	<0.3	53	12	475	3.00	4	<8	<2	5	49	<0.5	<3	<3	56	0.65
MW02-10	Soil			1.7	<1	20	<3	44	<0.3	38	7	291	2.18	3	<8	<2	3	45	<0.5	<3	<3	43	0.72
MW02-11	Soil			1.0	<1	25	10	60	<0.3	41	11	567	2.97	4	<8	<2	3	38	<0.5	<3	<3	60	0.58
MW02-13	Soil			3.9	<1	44	4	57	<0.3	69	15	619	3.11	5	<8	<2	3	56	<0.5	<3	<3	59	0.97
MW02-14	Soil			0.6	<1	23	5	46	<0.3	41	14	429	3.10	6	<8	<2	<2	23	<0.5	<3	<3	65	0.42
MW02-15	Soil			1.2	<1	18	4	42	<0.3	35	10	345	2.61	6	<8	<2	3	30	<0.5	<3	<3	59	0.45
MW02-16	Soil			<0.5	<1	12	<3	48	<0.3	24	11	870	1.99	<2	<8	<2	<2	11	<0.5	<3	<3	50	0.25
MW02-17	Soil			3.3	<1	36	4	47	<0.3	60	13	588	2.29	5	<8	<2	<2	48	<0.5	<3	<3	45	0.97
MW03-21	Soil			7.7	<1	58	6	53	<0.3	191	19	445	2.45	51	<8	<2	<2	37	<0.5	<3	<3	41	1.82
MW03-22	Soil			21.0	<1	62	10	40	<0.3	209	17	425	2.20	33	<8	<2	<2	33	<0.5	<3	<3	38	2.02
DW02-01	Soil			3.7	<1	46	6	71	<0.3	65	14	559	3.44	5	<8	<2	3	55	<0.5	<3	<3	59	0.88
DW02-02	Soil			<0.5	<1	38	3	39	<0.3	48	7	305	1.88	2	<8	<2	<2	74	<0.5	<3	<3	32	1.62
DW02-03	Soil			2.8	<1	47	4	64	<0.3	90	16	617	3.27	7	<8	<2	3	44	<0.5	<3	<3	62	0.59
DW02-04	Soil			1.7	<1	41	5	39	<0.3	71	11	302	2.11	3	<8	<2	<2	73	<0.5	<3	<3	42	1.22
DW02-05	Soil			1.9	<1	21	6	46	<0.3	48	11	365	2.74	5	<8	<2	<2	39	<0.5	<3	<3	56	0.57
DW02-06	Soil			<0.5	<1	18	3	41	<0.3	41	11	499	2.48	2	<8	<2	<2	25	<0.5	<3	<3	52	0.31
DW02-07	Soil			4.0	1	21	4	31	<0.3	49	11	234	2.48	5	<8	<2	<2	28	<0.5	<3	<3	54	0.40
DW02-08	Soil			0.7	<1	21	3	43	<0.3	53	13	398	2.56	4	<8	<2	<2	35	<0.5	<3	<3	50	0.58
DW02-09	Soil			<0.5	<1	12	4	29	<0.3	38	7	177	1.92	3	<8	<2	<2	37	<0.5	<3	<3	36	0.64
DW03-10	Soil			<0.5	<1	21	4	59	<0.3	36	10	491	2.88	8	<8	<2	2	9	<0.5	<3	<3	65	0.20
DW03-11	Soil			<0.5	<1	26	<3	43	<0.3	15	21	647	2.60	3	<8	<2	<2	9	<0.5	<3	<3	55	0.23
DW03-12	Soil			1.2	<1	7	<3	47	<0.3	3	7	510	2.79	7	<8	<2	<2	13	<0.5	<3	<3	96	0.13
DW03-13	Soil			2.4	<1	35	<3	49	<0.3	45	7	276	2.12	5	<8	<2	3	45	<0.5	<3	3	39	0.93
DW03-14	Soil			0.9	<1	22	4	52	<0.3	50	13	451	2.55	7	9	<2	3	20	<0.5	<3	3	51	0.36
DW03-15	Soil			1.8	1	22	11	41	<0.3	36	12	760	2.52	8	<8	<2	<2	40	<0.5	<3	<3	53	0.92
DW03-16	Soil			1.5	<1	24	5	30	<0.3	23	8	236	2.32	10	<8	<2	<2	16	<0.5	<3	<3	56	0.67
DW03-17	Soil			6.3	<1	95	7	21	<0.3	30	16	605	2.01	214	<8	<2	<2	42	<0.5	<3	<3	38	1.34

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Project: TMP-9541-YT  
 Report Date: October 06, 2009

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CERTIFICATE OF ANALYSIS

YKN09000093.1

Method	Analyte	Unit	MDL	1D P	1D La	1D Cr	1D Mg	1D Ba	1D Ti	1D B	1D Al	1D Na	1D K	1D W	1D S
				%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%
				0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05
MW02-03	Soil			0.083	12	52	0.95	302	0.12	<20	1.49	0.03	0.08	<2	<0.05
MW02-04	Soil			0.080	13	56	1.06	359	0.11	<20	1.82	0.03	0.09	<2	<0.05
MW02-07	Soil			0.055	12	49	0.84	268	0.16	<20	1.46	0.03	0.07	<2	<0.05
MW02-08	Soil			0.076	14	49	0.99	292	0.16	<20	1.50	0.03	0.07	<2	<0.05
MW02-10	Soil			0.071	10	43	0.74	239	0.13	<20	1.15	0.02	0.05	<2	<0.05
MW02-11	Soil			0.038	11	51	0.73	301	0.16	<20	1.61	0.01	0.06	<2	<0.05
MW02-13	Soil			0.048	15	59	1.17	326	0.14	<20	1.76	0.03	0.10	<2	<0.05
MW02-14	Soil			0.024	7	61	0.71	280	0.15	<20	1.90	0.02	0.07	<2	<0.05
MW02-15	Soil			0.034	13	55	0.59	278	0.16	<20	1.47	0.03	0.05	<2	<0.05
MW02-16	Soil			0.032	7	37	0.47	170	0.09	<20	1.37	0.01	0.05	<2	<0.05
MW02-17	Soil			0.068	10	42	0.94	250	0.13	<20	1.01	0.03	0.05	<2	<0.05
MW03-21	Soil			0.052	7	126	1.22	103	0.05	<20	1.27	0.02	0.06	<2	0.10
MW03-22	Soil			0.050	7	92	0.98	89	0.04	<20	1.26	0.01	0.06	<2	0.10
DW02-01	Soil			0.089	18	58	1.29	366	0.12	<20	2.05	0.04	0.10	<2	<0.05
DW02-02	Soil			0.060	10	32	0.74	266	0.07	<20	1.21	0.03	0.05	<2	0.08
DW02-03	Soil			0.052	15	74	1.42	269	0.15	<20	1.67	0.04	0.09	<2	<0.05
DW02-04	Soil			0.049	10	53	0.93	297	0.08	<20	1.36	0.03	0.06	<2	<0.05
DW02-05	Soil			0.027	10	57	0.83	244	0.13	<20	1.74	0.03	0.08	<2	<0.05
DW02-06	Soil			0.031	9	52	0.67	289	0.11	<20	1.64	0.02	0.06	<2	<0.05
DW02-07	Soil			0.018	11	61	0.76	176	0.11	<20	1.54	0.02	0.05	<2	<0.05
DW02-08	Soil			0.030	8	59	0.89	233	0.12	<20	1.51	0.03	0.06	<2	<0.05
DW02-09	Soil			0.021	7	42	0.65	222	0.09	<20	1.23	0.03	0.03	<2	<0.05
DW03-10	Soil			0.032	7	43	0.45	186	0.13	<20	2.16	<0.01	0.03	<2	<0.05
DW03-11	Soil			0.021	4	31	0.49	149	0.06	<20	1.87	0.02	0.04	<2	<0.05
DW03-12	Soil			0.025	3	6	0.58	48	0.10	<20	1.44	0.01	0.02	<2	<0.05
DW03-13	Soil			0.044	14	35	0.73	421	0.08	<20	1.44	0.02	0.12	<2	<0.05
DW03-14	Soil			0.037	10	52	0.81	193	0.11	<20	1.56	0.01	0.12	<2	<0.05
DW03-15	Soil			0.023	7	46	0.70	182	0.08	<20	1.64	0.01	0.08	<2	<0.05
DW03-16	Soil			0.011	7	40	0.51	110	0.10	<20	1.83	0.01	0.02	<2	<0.05
DW03-17	Soil			0.049	6	23	0.19	150	0.05	<20	1.06	0.02	0.03	<2	<0.05

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Project: TMP-9541-YT  
 Report Date: October 06, 2009

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CERTIFICATE OF ANALYSIS

YKN09000093.1

Method	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1	0.01	
DW03-18	Soil	498.5	1	91	10	35	<0.3	39	33	2350	4.76	2545	<8	<2	<2	56	<0.5	3	<3	56	1.76
DW03-19	Soil	2.5	<1	27	5	40	<0.3	64	17	577	2.56	21	<8	<2	<2	15	<0.5	<3	<3	50	0.31
DW03-20	Soil	2.2	<1	45	5	23	<0.3	70	11	634	1.68	15	<8	<2	<2	85	<0.5	<3	<3	32	2.58
DW03-21	Soil	2.4	<1	62	5	41	<0.3	114	14	450	2.24	11	<8	<2	<2	35	<0.5	<3	<3	42	1.44
DW03-22	Soil	<0.5	<1	6	3	20	<0.3	22	5	123	1.46	5	<8	<2	<2	9	<0.5	<3	<3	43	0.20
DW03-23	Soil	3.3	<1	23	<3	28	<0.3	85	11	242	2.03	9	<8	<2	<2	15	<0.5	<3	<3	45	0.39
DW03-24	Soil	4.0	<1	74	4	58	<0.3	133	23	681	3.21	8	<8	<2	<2	24	<0.5	<3	<3	76	0.66
DW03-25	Soil	2.0	<1	81	<3	41	<0.3	155	22	581	2.94	6	<8	<2	<2	27	<0.5	<3	<3	72	0.86
DW03-26	Soil	1.3	<1	35	7	59	<0.3	99	19	664	2.48	14	<8	<2	<2	32	<0.5	<3	<3	51	1.13
DW03-27	Soil	6.3	<1	79	4	63	<0.3	114	18	650	2.77	15	<8	<2	2	28	<0.5	<3	<3	56	0.62



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**Project:** TMP-9541-YT  
**Report Date:** October 06, 2009

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**CERTIFICATE OF ANALYSIS**

**YKN09000093.1**

Method	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	
MDL	0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05	
DW03-18	Soil	0.066	8	32	0.38	294	0.03	<20	1.57	0.01	0.02	<2	0.07
DW03-19	Soil	0.012	7	72	0.71	195	0.09	<20	1.53	0.01	0.06	<2	<0.05
DW03-20	Soil	0.044	6	60	0.72	199	0.04	<20	1.05	0.02	0.04	<2	0.10
DW03-21	Soil	0.046	9	92	1.13	189	0.07	<20	1.27	0.03	0.06	<2	<0.05
DW03-22	Soil	0.010	6	32	0.30	84	0.07	<20	0.92	0.01	0.02	<2	<0.05
DW03-23	Soil	0.015	8	79	0.92	149	0.10	<20	1.09	0.02	0.03	<2	<0.05
DW03-24	Soil	0.036	6	130	1.91	132	0.08	<20	1.98	0.02	0.06	<2	<0.05
DW03-25	Soil	0.048	5	107	2.04	76	0.05	<20	1.88	0.02	0.11	<2	<0.05
DW03-26	Soil	0.041	7	111	1.22	123	0.08	<20	1.35	0.02	0.09	<2	<0.05
DW03-27	Soil	0.035	8	88	1.04	218	0.09	<20	1.54	0.02	0.06	<2	<0.05



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**Project:** TMP-9541-YT  
**Report Date:** October 06, 2009

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# QUALITY CONTROL REPORT

YKN09000093.1

Method	Analyte	Unit	MDL	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D		
				Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
				ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Pulp Duplicates																							
01-01	Soil			5.1	<1	33	36	75	<0.3	57	11	433	3.18	5	<8	<2	3	41	<0.5	<3	<3	55	0.68
REP 01-01	QC			2.0																			
01-17	Soil			1.8	<1	25	12	47	<0.3	41	10	471	2.54	5	<8	<2	3	29	<0.5	<3	<3	54	0.48
REP 01-17	QC				<1	24	10	46	<0.3	40	10	460	2.50	4	<8	<2	4	29	<0.5	<3	<3	52	0.47
DW02-07	Soil			4.0	1	21	4	31	<0.3	49	11	234	2.48	5	<8	<2	<2	28	<0.5	<3	<3	54	0.40
REP DW02-07	QC			1.9																			
DW03-13	Soil			2.4	<1	35	<3	49	<0.3	45	7	276	2.12	5	<8	<2	3	45	<0.5	<3	3	39	0.93
REP DW03-13	QC				<1	36	3	50	<0.3	46	7	277	2.17	4	<8	<2	2	44	<0.5	<3	4	39	0.95
Reference Materials																							
STD DS7	Standard				20	100	63	400	0.8	51	9	623	2.34	53	<8	<2	3	73	5.5	5	7	84	0.92
STD DS7	Standard				20	143	69	443	0.9	52	8	628	2.40	55	<8	<2	5	73	5.7	5	4	79	0.96
STD OREAS45PA	Standard				<1	584	13	129	0.5	290	106	1125	16.29	4	<8	<2	7	14	<0.5	<3	<3	218	0.25
STD OREAS45PA	Standard				<1	623	24	128	0.4	310	108	1149	17.50	3	<8	<2	6	14	<0.5	<3	<3	223	0.25
STD OREAS52P	Standard			166.0																			
STD OREAS52P	Standard			164.1																			
STD DS7 Expected					21	109	71	411	0.9	56	10	627	2.39	48	5	0.07	4	68	6.4	5	5	84	0.93
STD OREAS45PA Expected					0.9	600	19	119	0.3	281	104	1130	16.559	4.2	1.2	0.043	6	14	0.09	0.13	0.18	221	0.2411
STD OREAS52P Expected				167																			
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<8	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank				<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<8	<2	<2	<1	<0.5	<3	<3	<1	<0.01
BLK	Blank			<0.5																			
BLK	Blank			<0.5																			
BLK	Blank			<0.5																			
BLK	Blank			<0.5																			



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**Project:** TMP-9541-YT  
**Report Date:** October 06, 2009

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QUALITY CONTROL REPORT

YKN09000093.1

Method		1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%
MDL		0.001	1	1	0.01	1	0.01	20	0.01	0.01	0.01	2	0.05
Pulp Duplicates													
01-01	Soil	0.092	14	70	1.05	289	0.14	<20	1.90	0.02	0.11	<2	<0.05
REP 01-01	QC												
01-17	Soil	0.044	12	49	0.56	274	0.14	<20	1.39	0.01	0.05	<2	<0.05
REP 01-17	QC	0.044	12	48	0.55	270	0.14	<20	1.34	0.01	0.05	<2	<0.05
DW02-07	Soil	0.018	11	61	0.76	176	0.11	<20	1.54	0.02	0.05	<2	<0.05
REP DW02-07	QC												
DW03-13	Soil	0.044	14	35	0.73	421	0.08	<20	1.44	0.02	0.12	<2	<0.05
REP DW03-13	QC	0.045	14	37	0.74	425	0.08	<20	1.49	0.02	0.12	<2	<0.05
Reference Materials													
STD DS7	Standard	0.071	12	179	1.04	416	0.11	42	1.03	0.10	0.46	3	0.19
STD DS7	Standard	0.076	12	183	1.04	412	0.12	29	1.04	0.09	0.45	3	0.20
STD OREAS45PA	Standard	0.033	19	802	0.09	182	0.12	<20	3.23	0.01	0.07	<2	<0.05
STD OREAS45PA	Standard	0.035	16	857	0.10	184	0.13	<20	3.65	<0.01	0.07	3	<0.05
STD OREAS52P	Standard												
STD OREAS52P	Standard												
STD DS7 Expected		0.08	13	179	1.05	370	0.124	39	0.959	0.073	0.44	4	0.19
STD OREAS45PA Expected		0.034	16.2	873	0.095	187	0.124		3.34	0.011	0.0665	0.011	0.03
STD OREAS52P Expected													
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.01	<20	<0.01	<0.01	<0.01	<2	<0.05
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.01	<20	<0.01	<0.01	<0.01	<2	<0.05
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