Regional Geologist, Prince George | **Date Approved:** 2005.05.06 | **Off Confidential:** 2005.12.23

ASSESSMENT REPORT: 27600 | **Mining Division(s):** Omineca

Property Name:	Gold							
Location:	**NAD 27**	**Latitude:** 57 19 00	**Longitude:**	127 02 00	**UTM:**	09	6354136	618449
	NAD 83	**Latitude:** 57 18 59	**Longitude:**	127 02 06	**UTM:**	09	6354314	618345
	NTS:	094E06E						
	BCGS:	094E035						
Camp: 051	Toodoggone Camp							

Claim(s): Gold 1-2

Operator(s): Finlay Minerals Ltd.
Author(s): Ray, Gerry E.

Report Year: 2004

No. of Pages: 68 Pages

Commodities Searched For:

General Work Categories: GEOL, GEOC

Work Done: Geochemical
ROCK Rock (34 sample(s);)
Elements Analyzed For : Multielement
Geological
GEOL Geological (200.0 ha;) No. of maps : 2 ; Scale(s) : 1:5000

Keywords: Jurassic, Toodoggone Formation, Andesites, Latite tuffs, Dacitic tuffs

Statement Nos.: 3222213

MINFILE Nos.: 094E 037

Related Reports: 09425, 13896, 15512, 20401, 26757, 27058

ASSESSMENT REPORT

On the Geology and Mineral Potential

RECEIVED
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of the

Gold Claims

Toodoggone River Area, Northern BC

Omineca Mining Division, British Columbia

NTS Map Sheet: 094E/6E

Latitude: 57° 19' N

Longitude: 127° 02' E

For

FINLAY MINERALS LTD.
Suite 912- 510 West Hastings Street
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Prepared By:

G.E. Ray, P. Geo

11th Dec 2004

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1.0 SUMMARY

The Gold Claims belonging to Finlay Minerals Ltd lie in northern BC between the Toodoggone River and Jock Creek (Map Sheet: 094E/6E), approximately 270 km north of Smithers (Figs. 1, 2A and 2B). The northern and southern boundaries of the claims lie close to UTM's 635400 and 6355400 while the western and eastern borders are approximately at UTM's 617700 and 618700 respectively. The property is not road accessible, but lies only 5 to 6 km from roads passing along Jock and Pillar creeks.

The claims lie at between 1500 and 1900 metres elevation above sea level. Overall, the area has moderate relief, and virtually all parts of the claims are accessible by foot. Larger outcrops are present on some ridge-tops but the more prospective and altered rocks are generally poorly exposed.

Previous exploration on the claims has focused on the Golden Neighbor mineral occurrence (MINFILE 094E 037) which may represents low-sulphidation epithermal Au-Ag ± Cu mineralization hosted by vuggy quartz-silica zones. Exploration on the property during the summer of 2004 consisted of:

- *(a) Two days spent by the author mapping the geology and alteration over part of the claims at 1:10 000 scale. The results of this work are presented at 1:5000 scale in Maps 1A and 1B.*
- *(b) The collection of 34 rock grab samples representing various types of alteration. These samples were collected by the author, Peter Ronning and Rein Turna, and the assay results are shown in Appendix 1.*
- *(c) Surveying 10 (ten) NE trending lines across the main portion of the claims containing abundant hydrothermal alteration.*
- *(d) Collecting over 300 soil samples along the 10 (ten) surveyed lines. The soil geochemical data is presented in Appendix 2, and a plot of the data for Au and Pb is seen as inserts on Maps 1A and 1B.*
- *(e) Completing an IP geophysical survey along the 10 surveyed lines. The data and conclusions of the geophysical survey have not been seen by the author and are consequently not discussed in this report.*

The highly prospective Gold Claims are largely underlain Early Jurassic Toodoggone volcanics that elsewhere in the district host Cu-Au porphyry and Au-Ag epithermal mineralization, as present at the Kemess, Bakers and Lawyers deposits. The property lies on the extreme western margin of a faulted horst-block that to the east and west is delineated by the northerly trending Pillar and Saunders structures. The Saunders Fault is the most important structure on the Gold Claims; it separates down-dropped and unaltered Saunders Member volcanics to the west from highly altered Metsantan Member latites, andesites and lesser dacites further east. The latter rocks host the silica-related Au mineralization which represents the main focus of exploration. Splaying east and SE from the Saunders Fault are a number of lesser structures, and one of these coincides with the northern limits of the Au mineralization and the Au and Pb soil anomalies (Maps 1A and 1B).

Extensive hydrothermal alteration overprints the Metsantan volcanics up to 600 metres east of the Saunders Fault, after which the alteration decreases and igneous textures are clearly recognizable. The following styles of alteration are seen in the Metsantan rocks:

- *(a) Clay-rich assemblages with pyrite, silica and chlorite. This alteration is exposed in the northern part of the mapped area close to, and east of, the Saunders Fault. Soil sampling suggests it is not associated with Au mineralization (Map 1B).*

(b) Silica-quartz ± pyrite ± sericite ± kaolin alteration that in rare cases contains K spar and trace magnetite. This economically important alteration varies in style from massive-pervasive to veins and stockworks.

(c) Extensive areas with pervasive propylitic alteration marked by chlorite-epidote-pyrite mineral assemblages, as well as sporadic K spar.

The pervasive silica (No. 2 above) occurs primarily on the claims as a SSE - trending zone that extends southward outside the southern and eastern claim boundaries. The zone is traceable along strike for over 1.5 km and its southern portion coincides with an elongate Au soil anomaly that also continues SE of the claims. The silica is mostly seen as sub-crop and float in a number of trenches and pits, and the zone has an apparent outcrop width varying between 50 and 175 metres. Much of the silica on surface has been strongly acid-leached due to the weathering of the original pyrite. This leaching may account for the low Au content of some silica samples, and the Au content may pick up with depth.

The controls of the silica zone are unknown. Previous workers suggested the silica could follow a NNW trending fault. Alternatively, it may have replaced a permeable tuffaceous unit in the Metsantan package. This model would involve silica-rich fluids passing up the old Saunders Fault and then moving laterally eastwards along permeable horizons. The western down-dropping along the Saunders Fault presumably occurred after the hydrothermal event.

The dip of the silica zone and the hosting Metsantan volcanics is unknown. Volcanic-tuffaceous layering mapped elsewhere in the district dips gently to moderately westerly at between 12 and 40 degrees. Thus, the Metsantan volcanics and the silica zone on the claims may dip westward towards the Saunders Fault at between 25 and 35 degrees. If this dip direction is correct, then future drill-sites should be placed west of, and down-slope from the silica in order to intersect the entire zone and its hanging-wall and footwall alteration.

One epidote-pyrite-bearing sample (No. 323533; Appendix 1) assayed 1.12 g/t Au which shows that gold is not restricted to the silica-rich-alteration. The sample possibly comes from a non silicified unit within the main silica zone or was derived from footwall rocks sub-cropping further upslope. Thus, future drilling should test the silica zone and its altered footwall rocks.

Soil sampling outlined an extensive area with anomalous Au (up to 566 ppb Au) as well as parts that have enhanced values of other metals, including Pb and Zn. The strongest Au soil anomaly covers a 300 metre by 600 metre area in the extreme SE part of the claim block, and there is every indication that the anomaly extends southwards outside the claims. Previous drilling completed in the 1980's targeting the silica zone further north where there was some Cu mineralization. However, the 2004 mapping and sampling indicate that future drilling should target the silica zone along the 600 meter section in the SE corner of the claims.

Recommendations for future exploration include:

(1) Finlay Minerals should try to obtain the exploration rights to the ground immediately south and SE of the Gold Claims.

(2) Drilling on the Gold Claims should be confined to the 600 meter-long area in the SE part of the property which is marked by higher Au soil anomalies. Drilling should target the (presumed) west dipping auriferous silica zone and also test the hanging-wall and footwall alteration for additional Au mineralization.

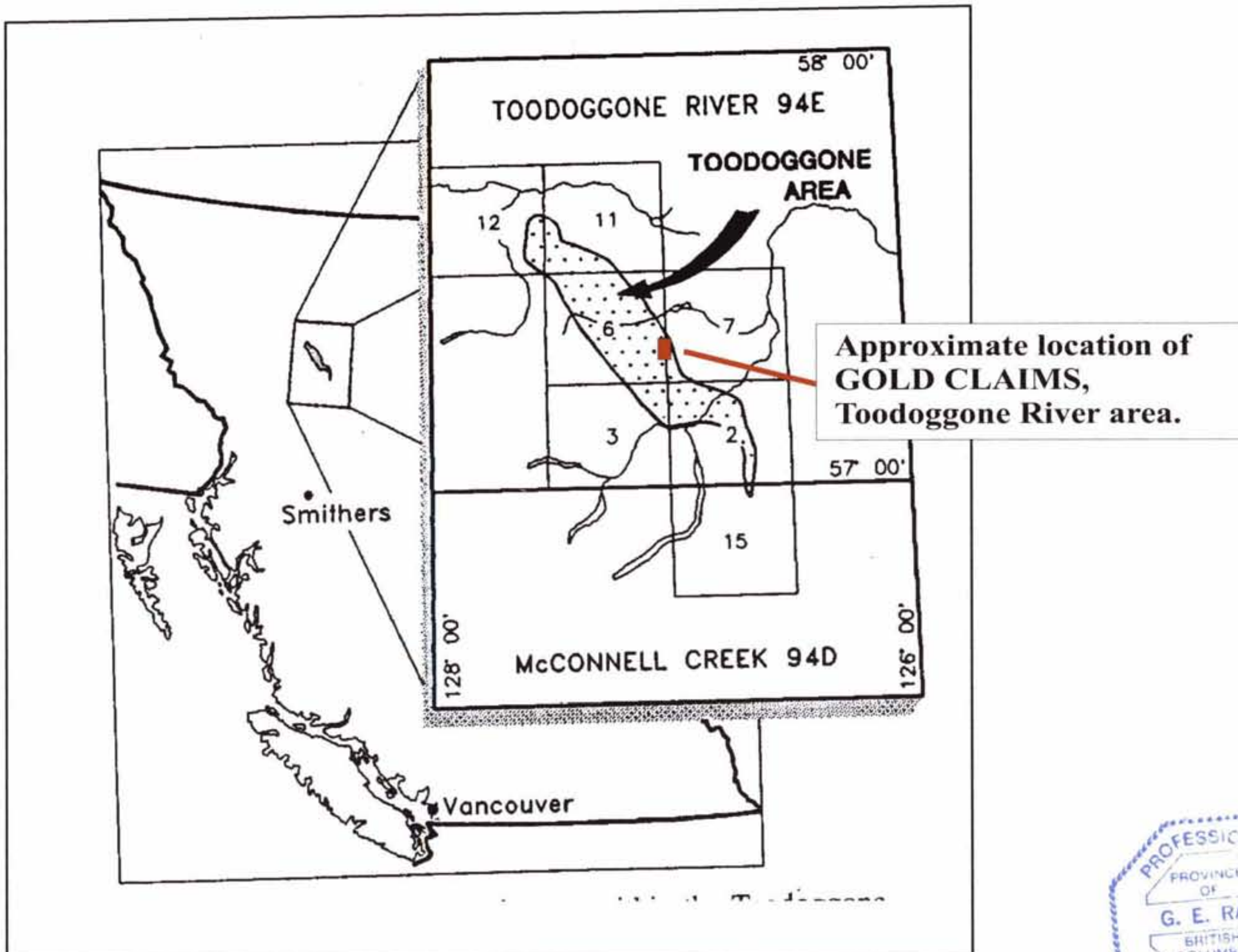

Fig. 1. Location of the Toodoggone River Area, northern BC and the Finlay Minerals Gold Claims described in this report (adapted from Diakow et al., 1993)

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2.0 MAIN INTRODUCTION.

2.1 General Statement

The Finlay Minerals Gold Claims are situated in northern BC, approximately 270 km north of Smithers (Fig. 1). They lie between the Toodoggone River and Jock Creek, on the SW edge of the Samuel Black Mountain Range in the 094E036 Mount Graves map-sheet area (Fig. 2A).

The author spent 2 days on the property (25th August and the 3rd of September). The first of these was a reconnaissance-sampling visit accompanying John Barakso and Peter Ronning, while the second day was spent mapping. This work mainly involved mapping the geology and alteration using a 1: 10000 scale TRIM base map, although the results are now printed in Maps 1A and 1B at 1:5000 scale. A total of 34 grab rock samples were collected by the author, Peter Ronning and Rein Turna, and the assay results are presented in Appendix 1. Locations were determined using a Garmin 76 GPS, and all UTM data mentioned in this report are given as Zone 9 - NAD 83 coordinates.

2.2 Location and Assess

The Gold Claims are situated between the Toodoggone River and Jock Creek, and lie just west of the Finlay Minerals large Pil properties (Fig. 2A). The northern and southern boundaries of the claims lie close to UTM's 635400 and 6355400 while the western and eastern borders are approximately at UTM's 617700 and 618700 respectively. The claims are not road accessible. However, the main road along Jock Creek lies only 6 km SE of the claims while the newly constructed road along Pillar Creek passes approximately 5 km east of the property (Figs. 2A and 2B).

2.3 Physiography and Vegetation

The claims lie at an elevation of between 1500 and 1900 metres, and the topography is dominated by a NNW trending valley that marks part of the Saunders Fault. Diverging eastwards from this valley are several other smaller valleys or gulleys that follows SE to east-striking structures.

The area is one of moderate overall relief, and virtually all parts of the claims are easily accessible by foot. Some larger exposures are present on the steeper slopes and ridge-tops, but in prospective areas with intense alteration the outcrops are generally small and confined to the valley bottoms and gulleys. Many of the slopes are covered with grass or scree material. Much of the property is either bare or poorly vegetated with grass and low, wind-swept pine bush. Larger trees are confined to lower ground.

2.4 Mineral Claims

The following data is taken from Brown (2002). The Gold 1 & 2 mineral claims were located on May 17, 2001. The common legal claim post is situated along a ridge top on the east side of the claims. The Gold 1 mineral claims claim (tenure #386615) is two units north by two units west in area, while the Gold 2 mineral claim (tenure #386616) is two units south by two units west in area. An unofficial G.P.S. reading taken at the legal claim post using NAD 83 is 618735 East, 6354439 North. Details of these 8 units are listed below.

Tenure Number	Claim Name	Map Sheet	Expiry Date	Number of Units
386615	Gold 1	094E035	17-May-12	4
386615	Gold 2	094E035	17-May-12	4

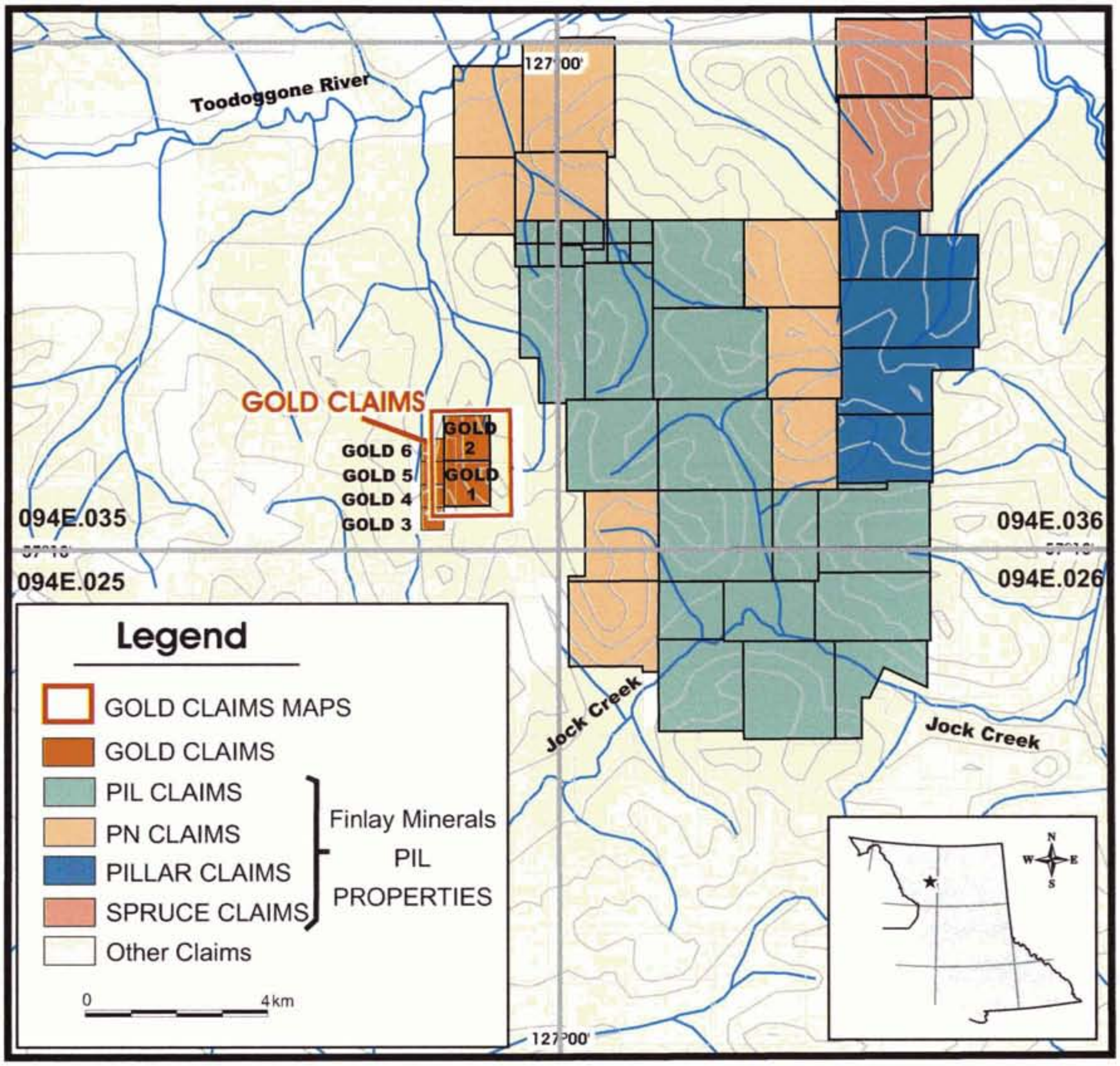

Fig. 2A: Location of the Gold Claims & other Finlay Minerals properties, Toodoggone River Area.

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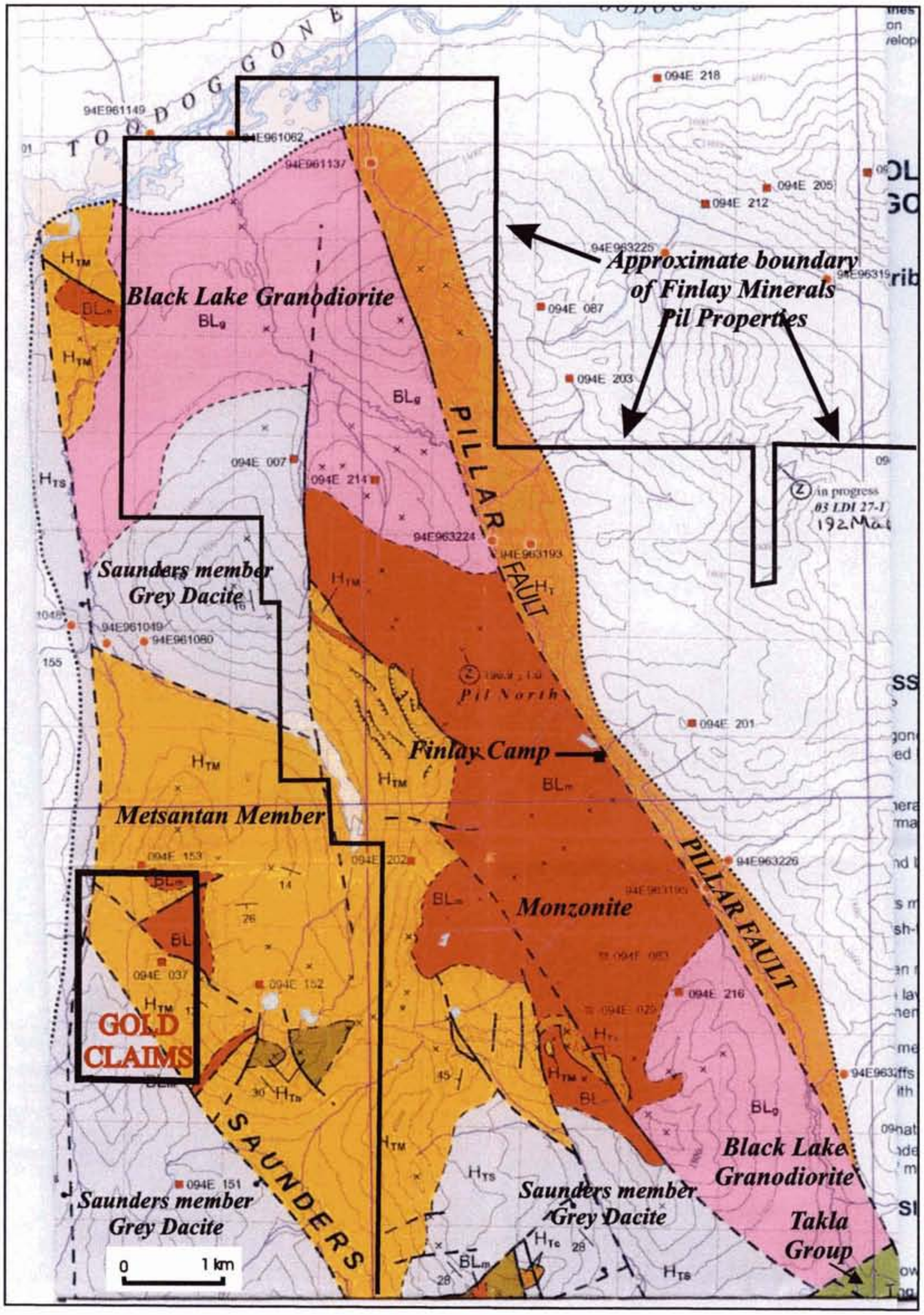

Fig. 2B: Geology of the GOLD CLAIMS area, Toodoggone River district. Geology after Diakow (2004).

In the late summer of 2004, an additional 4 units were staked as detailed below.

Tenure Number	Claim Name	Map Sheet	Expiry Date	Number of Units
414305	Gold 3	094E035	9-Sep-05	1
414306	Gold 4	094E035	10-Sep-05	1
414307	Gold 5	094E035	11-Sep-05	1
414308	Gold 6	094E035	12-Sep-05	1

3.0 HISTORY OF WORK

3.1 Regional Work History

Early geological work in the Toodoggone River area by Carter (1972) outlined a distinctive volcanic package which was later named the Toodoggone Formation (Gabrielse et al., 1977; Diakow, 1990). These rocks comprised largely calc-alkaline andesitic and dacitic lavas, tuffs and some epiclastics of Early Jurassic age, as well as some coeval plutons of monzonitic and granodioritic composition. Later work proved that the volcanics in large part unconformably overlay a basement of Upper Triassic Takla Group rocks (Monger and Church, 1977). The subsequent discovery of both Cu porphyry and Au-Ag epithermal mineralization in the Toodoggone River area led to a considerable amount of geological mapping, radiometric age-dating, and mineral exploration. The results of this work are presented by Cann (1976), Cann and Godwin (1980), Diakow (1983), Peter (1983), Forster (1984), Barr et al. (1986), Vulimiri et al (1986), Schroeter et al. (1986), Thiersch and Williams-Jones (1990), Clark and Williams-Jones (1991), Diakow et al (1993) and Diakow (2004).

3.2 Property Work History

Brown (2002) reports that in 1968 Cominco Ltd explored the area north of Saunders Creek for copper (Assessment Report AR2083). Later in 1971, Kennco Exploration examined a Cu-Mo showing on the northern part of the Gold Claims (Assessment Report 3362). Two mineral occurrences are recorded on or immediately adjacent to the claims, the Golden Neighbor and the Camp 1 (Fig. 2B; BC Minfile 094E 037 and 153 respectively). At the Camp 1 occurrence, malachite-stained and epidote-chlorite-pyrite-altered outcrops assayed up to 18.9 g/t Ag and 0.19 g/t Au (Assessment Report 12716, quoted in BC Minfile).

The Golden Neighbor showing, which was discovered by Lacana Mining Corp, represents an epithermal Au-Ag system hosted by silicified volcanics. In 1986, Lacana conducted a soil sampling and trenching program that revealed an elongate, NW to NNW-trending Au soil anomaly that coincided with silica and quartz vein alteration. A VLF electromagnetic survey was also completed, together with a drill program involving five (5) core holes totaling 605 meters. The holes were drilled from three set-ups and tested 150 meters of strike length within a 1200-meter long soil anomaly with gold values up to 1,800ppb. Drill holes LS 86-1 and 2 were drilled on a one-meter wide quartz vein exposed in trenching. Assay results from drill core were overall only weakly anomalous. Several zones of gold and silver mineralization were intersected in drill holes LK-86-1, 4 and 5. The best intersection from drill hole LK-86-1 assayed 11.7 g/t silver, 0.25 g/t gold, 0.08 % copper, 0.003% lead, and 0.003% molybdenum over 1.81 meters (Assessment Report 15512).

During the 1990's, exploration on the claims area remained fairly dormant. However, in 2001 Finlay Minerals personnel spent half a day on the property during an initial reconnaissance examination (Brown, 2002). In 2002, some soil and rock sampling were completed together with prospecting. A new Cu-Zn float showing was found during the prospecting. The soil sampling took place along two (2) east-west oriented, 500 meter-long soil lines in the middle portion of the Gold 1 mineral claim, which straddles a 300-400 meter wide gossanous zone. These soil and talus samples were anomalous in Au, Cu, Mo and Zn (Brown, 2002).

4.0 EXPLORATION PROGRAM – 2004

Exploration on the Gold Claims during the summer of 2004 consisted of:

(a) Two days spent mapping the geology and alteration over part of the claims at 1:10 000 scale. The results of the mapping are presented at 1:5000 scale in Maps 1A and 1B.

(b) The collection of 34 rock grab samples representing various types of alteration. The assay results of these samples are shown in Appendix 1.

(c) Cutting and surveying 10 NE trending lines across the main portion of the claims containing abundant hydrothermal alteration.

(d) Collecting over 300 soil samples along the 10 (ten) surveyed lines (Fig. 2C). This program was to check out a zone of Au soil anomalies outlined during previous work by Lacana in 1986. The soil geochemical data is presented in Appendix 2, and a plot of the data for Au and Pb is seen as inserts on Maps 1A and 1B.

(e) Completing an IP geophysical survey along the 10 surveyed lines. The data and conclusions of the geophysical survey have not been seen by the author and are consequently not discussed in this report.

5.0 REGIONAL SUPRACRUSTAL GEOLOGY

5.1 Introduction

The geology of the district mainly comprises Early Jurassic Hazelton Group rocks represented by the Toodoggone Formation calc-alkaline volcanics, as well as some coeval plutonic and sub-volcanic intrusive rocks. The formation unconformable overlies submarine sedimentary and igneous arc rocks of the Permian Asitka and Upper Triassic Takla groups, and is in turn unconformably capped by Cretaceous continental sediments of the Sustut Group. The structure of the district has been dominated by block faulting and half-graben tectonics which has been an important controlling feature on the emplacement of the plutons, the eruption of the Toodoggone Formation volcanics, and the various styles of Cu-Au or Au-Ag mineralization.

5.2 Mid Pennsylvanian to Lower Permian Asitka Group

These rocks are poorly exposed throughout the district and generally occur either as small erosional inliers or fault-bounded wedges (Diakow et al, 1993; Diakow, 2004). They mainly comprise a thrust-deformed sequence of oceanic mafic volcanics, argillites, cherts, pure to tuffaceous fossil-bearing limestones, and some rhyolites. They appear to be either conformably overlain by the Takla Group (Monger and Church, 1977) or to be in thrust contact with the latter rocks (Diakow et al., 1993). No Asitka Group rocks are believed to exist anywhere near the Gold Claims.

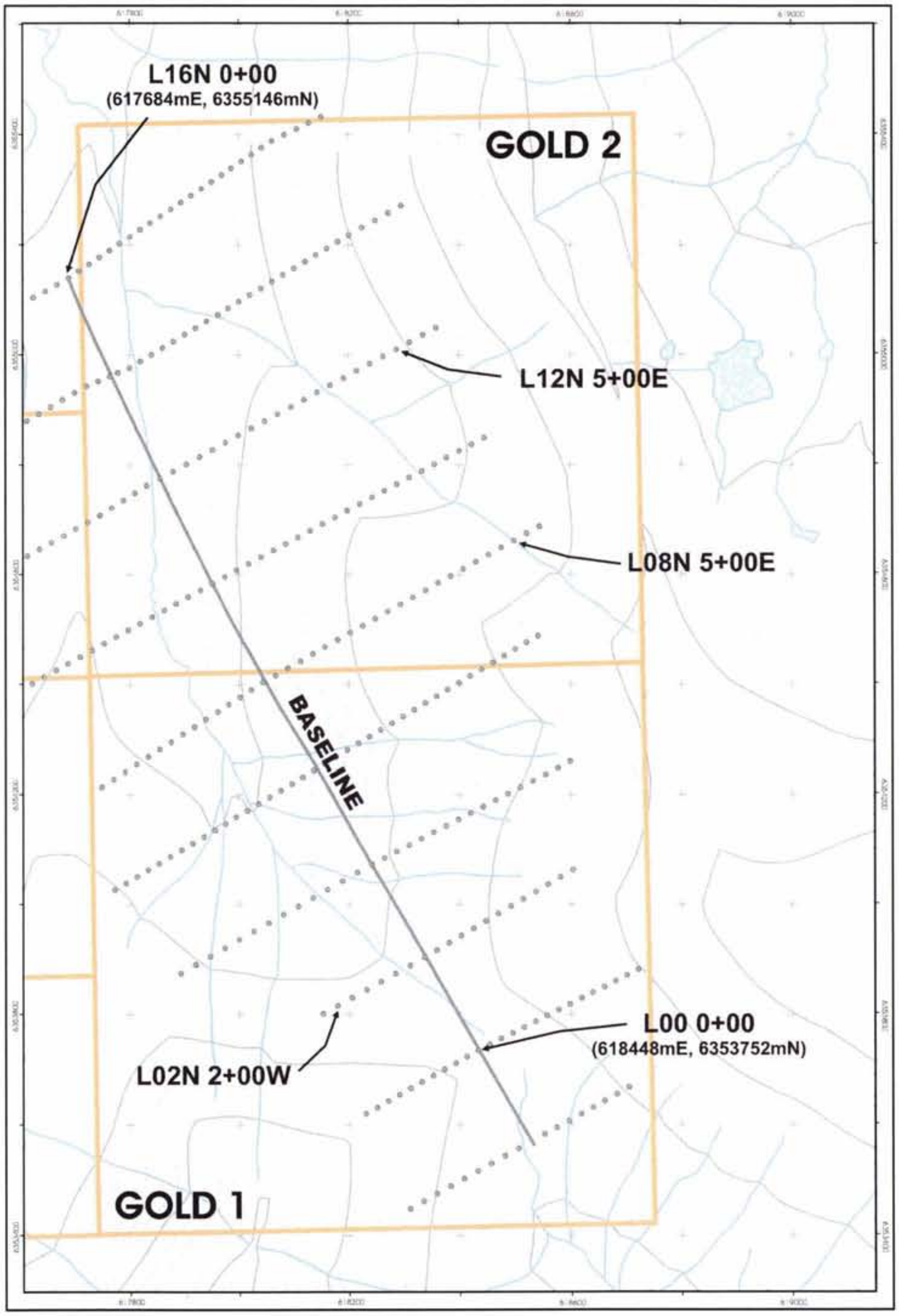

Fig. 2C: Grid lay-out on the Gold Claims for the 2004 soil survey.

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5.3 Upper Triassic Takla Group

No Takla rocks occur on the Gold Claims, but they are well exposed in the Finlay River area (Fig. 4) where they generally occupy rugged terrane. They comprise augite and plagioclase porphyritic basalts, andesites and mafic tuffs, some coarsely-clastic volcanic sediments and minor amounts of fossiliferous (Carnian-Norian) limestones. Many of the mafic flows are pillowed, amygdaloidal and altered, and the package is believed to have formed in an oceanic island-arc environment. Locally, the rocks are intruded by mafic dikes and small diorite-hornblendite bodies that probably formed feeders for the basalts; a K-Ar age of 210 Ma ± 8 Ma on hornblende is believed to date these intrusions (Diakow et al., 1993).

The Takla Group is separated from the Cretaceous Sustut Group by an angular unconformity. However, the Takla rocks are generally faulted against the Jurassic Toodoggone Formation, although this contact may in fact represent a gentle unconformity. The group is economically important as it hosts Cu porphyry mineralization as seen at the 400 million tonne Kemess North deposit (MINFILE 094E 021; Rebagliati et al., 1997), although the mineralization is believed to be genetically related to Jurassic intrusives that were more or less coeval with the Toodoggone Formation volcanics.

5.4 Early Jurassic Toodoggone Formation

5.4.1 Introduction

In the Toodoggone River area, Early Jurassic rocks are represented by the Toodoggone Formation which forms a 90 km long, 15 km wide belt of volcanics that extend northwards from Attycelley Creek to the Chukachida River (Figs. 1 and 7; Diakow et al., 1993). The formation exceeds 2200 metres in thickness and consists mainly of red, maroon and grey colored flows and tuffs. The volcanics are largely calc-alkaline and were deposited in a non-marine continental-margin arc setting, often under sub-aerial conditions. Alkali-silica geochemical plots indicate that the volcanics include both alkalic and subalkalic types (Diakow et al., 1993). At least two distinct volcanic cycles have been identified in the Toodoggone Formation, and these have been further sub-divided into six stratigraphic members (Fig. 3; Diakow et al., 1993). The rocks in these cycles are summarized below.

5.4.2 Lower Volcanic Cycle

The lower cycle contains four members. The oldest of these is the **Adoogacho Member** which unconformably overlies basement rocks of the Takla Group (Fig. 3). It is at least 350 metres thick and consists of welded ash-flows and lapilli tuffs with lesser amounts of andesitic flows and epiclastics. The member is not seen on the Gold Claims but occurs mainly in the northern parts of the volcanic belt north of the Toodoggone River (Fig. 4).

The Adoogacho rocks are overlain by the 200 metre-thick **Moyez Member** which includes a succession of well-bedded ash tuffs, conglomerates and minor impure limestones. Its lower contact is occupied by a basal conglomerate, and the rare limestone units reach a maximum thickness of 3 metres and a strike length of only 25 metres. The Moyez Member is restricted to a small area east of the Stikine River at the northwest end of the volcanic belt (Fig. 4).

The overlying **Metsantan Member** is believed to reach 600 metres in total thickness. It outcrops widely both north and south of the Toodoggone River and is present on parts of the Gold Claims where it hosts much of the alteration and Au-Ag mineralization (Fig. 2B; Map 1A). It mostly comprises latite

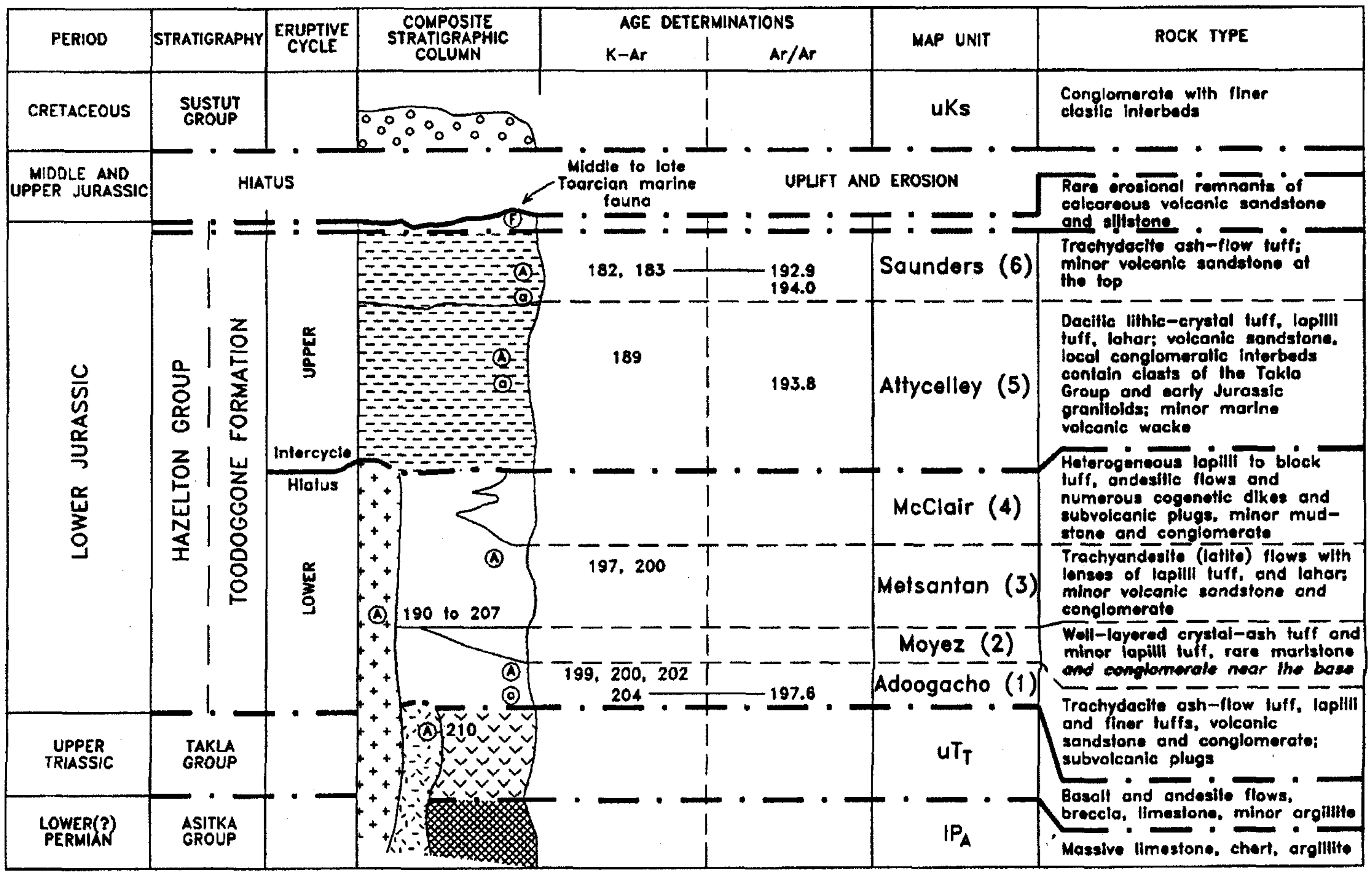

Fig. 3 Chart showing details of the 2 volcanic cycles and 6 Members recognized in the Toodoggone Formation. Unconformities are dot-dash lines. K-Ar and Ar/Ar ages are in Ma. From Figure 6 of Diakow et al. (1993).

flows and ash tuffs, as well as some interflow lahars, epiclastics and ash-flows. The latite lavas are often plagioclase-porphyritic, and quartz is uncommon. The lahars, volcanic sandstones and siltstones can form units reaching 100 metres in thickness. Diakow et al. (1993) also describe the presence of some oligomictic conglomerate, up to 7 metres thick, which is overlain by sandstone and mudstone beds with ripple marks, desiccation cracks and rain imprints; locally the mudstones contain plant debris. Near the Lawyers epithermal Au-Ag deposit (Fig. 7; Vulimiri et al., 1986) the member includes a unit of conglomerate and volcanic sandstone that reaches 200 metres thick. Alkali-silica geochemical plots indicate that the Metsantan Member volcanics straddle the alkaline-sub alkaline divide (*see* Figure 12 in Diakow et al., 1993). None of these conglomerates or bedded rocks are seen on the Gold Claims.

The **McClair Member**, which represents the uppermost unit of the Lower Volcanic Cycle (Fig. 3), is restricted to an area on the north-east margin of the volcanic belt, north of the Toodoggone River (Fig. 4). It is mainly a succession of grey to green andesitic lavas that are interlayered with ash and lapilli tuffs, epiclastic units and thin, rare conglomerates. The volcanics are characterized by crowded feldspar porphyry textures, as well as up to 7 % remnant pyroxene and amphibole phenocrysts. Plant fossils are present in some of the tuffaceous siltstones.

5.4.3 Upper Volcanic Cycle

The upper and lower volcanic cycles are separated from one another by an unconformity that represented a brief hiatus in igneous extrusive activity (Fig. 3). In the original mapping by Diakow et al. (1993), the Upper Volcanic Cycle is subdivided into the **Attycelley and Saunders** members (Fig. 3). These are restricted to a wide area south of the Toodoggone River (Fig. 4), where they unconformably overlie basement rocks of the Takla Group. Between the Finlay and Toodoggone Rivers, fault-bounded blocks of Attycelley volcanics are commonly juxtaposed against the older rocks of the Metsantan Member.

The **Attycelley Member** of Diakow et al. (1993) is estimated to be at least 500 metres thick. It mainly consists of unwelded ash and lapilli tuffs that are commonly of dacitic composition. Also present are some epiclastics, lahars and conglomerate interbeds; the conglomerates contain clasts of both the Takla Group and some early Jurassic granitoids, demonstrating the early rapid uplift and erosion of these rocks. Flows, which are relatively uncommon, have up to 40 % plagioclase phenocrysts, as well as some quartz. Latite flows are also present, and compositionally these resemble the flows in the older Metsantan Member.

As outlined originally by Diakow et al. (1993), the **Saunders Member** is the youngest stratigraphic units in the Toodoggone Formation (Fig. 3), and these rocks underlie the western and southwest part of the Gold claims (Fig. 2B; Map 1A). The member is found extensively south of the Toodoggone and Finlay rivers (Fig. 4), although the type area lies east and southeast of the Lawyers AGB deposit (Vulimiri et al., 1986; Diakow et al., 1993). Generally, it conformably overlies the Attycelley Member, although where it unconformably overlies the Takla rocks its base is marked by a 15 metre-thick conglomerate. The Saunders Member commonly occupies higher, more rugged terrane, and is typified by thick units (up to 300 metres) of trachy-andesite to dacitic ash-flows and lithic tuffs, some of which are welded. Many of the more dacitic tuffs are grey colored and contain either rounded or bipyramidal quartz crystals that are often glassy and unaltered. Devitrification is common, although some remnant brown glass is seen between the spherulites. The uppermost preserved part of the succession is occupied by some volcanic sandstones.

5.4.4 Recent changes regarding Toodoggone Formation Stratigraphy

Very recent mapping by Larry Diakow (personal communication, 2004) has led to some refinement of the Toodoggone Formation stratigraphy. Previous work (Diakow et al., 1993; Diakow, 2004) had outlined the two volcanic cycles shown in Figure 3 which comprised the Toodoggone Formation rocks as then known. These rocks generally range in age from 200 to 193 Ma, and they lie mainly west of the Pillar Fault (Fig. 2B). However, based on recent mapping and age dating, a distinctly younger package of Toodoggone rocks is now recognized. These younger volcanics mostly outcrop east of the Pillar Fault, apart from a few small outliers that unconformably overlie the Saunders Member further west. Thus, the package is younger than the Saunders Member (Figs. 2B and 3) and recent dating by Larry Diakow suggests ages ranging from 192 to possibly 190 Ma.

This recently identified youngest package in the Toodoggone Formation contains at least three unnamed members (Larry Diakow, personal communication 2004). It comprises a bimodal suite of purple-weathering andesitic flows, ash and lapilli tuffs, some tuffaceous sediments, as well as lesser dacitic rocks. Also present is a unit of mafic, pyroxene-bearing basalts and tuffs that superficially resemble those in the Takla Group. The package is currently unnamed, although for this report it will be referred to as the "Eastern" package, in contrast to the "Western" package occurring mainly west of the Pillar Fault which makes up the better known succession in Figure 3. The "Western" and "Eastern" packages apparently reflect temporal and spatial facies changes across the district. Volcanism in the more extensive western package presented in Figure 3 was largely fissure-controlled by N-S trending block faults and half-graben structures, and it resulted in flows and volcaniclastics of mainly dacite-latite composition with lesser andesites. By contrast, the younger volcanics further east were apparently related to a series of strata-volcanoes which produced a bimodal suite of andesites with lesser dacites.

In the western package, contacts between the Attycelley and Saunders members are gradational with little change in the composition. Thus, it is often difficult to distinguish between the two members, and recent work by Larry Diakow suggests they could be regarded as a single contiguous unit, which in this report is called the **Saunders**. Larry Diakow also notes that in the field it is often difficult to differentiate between the feldspar porphyritic volcanics of the Metsantan Member and the underlying coeval porphyritic intrusive and sub-volcanic rocks, particularly where alteration has occurred.

5.5 Lower and Upper Cretaceous Sustut Group.

The Sustut Group (Lord, 1947) is a well-bedded succession of continental sedimentary rocks that mainly occupies the Sustut Basin which lies in the western part of the Toodoggone River area (Fig. 4). Its rocks are not seen anywhere close to the Gold Claims (Fig. 2B).

The Sustut Group contains two major subdivisions (Eisbacher, 1974), the older Tango Creek Formation and the younger Brothers Peak Formation. East of the main Sustut Basin, the older volcanics and intrusives are unconformably overlain by several small, isolated outliers of Sustut rocks. The group comprises conglomerates, mudstones and some chert pebble sandstones. Fine-grained clastic beds in the Tango Creek Formation contain plant fossils and palynomorphs of Albian to Paleocene age (Eisbacher, 1974).

6.0 REGIONAL INTRUSIVE GEOLOGY

6.1 Introduction

Based on age dating and composition, the main intrusive rocks in the district can be separated into four categories, three of which are shown in Figure 5. From oldest to youngest these are:

(1) Small bodies of Late Triassic diorite, gabbro and hornblendite which are related to the Takla Group volcanism.

(2) Small, granodioritic sub-volcanic porphyritic domes related to the early Jurassic Toodoggone Formation.

(3) A widespread and economically important suite of early Jurassic plutonic monzonites and granodiorites that occurs in bodies ranging from large stocks to small dike-sill swarms. This suite is also genetically and temporally related to the Toodoggone Formation volcanics, and both it and the sub-volcanic domes (No. 2 above) have been designated as the **Black Lake Intrusive Suite** (Fig. 5; Woodsworth et al., 1988; Diakow et al., 1993).

(4) Thin (generally < 5 m) dikes and sills of altered andesite (Unit a). These are possibly Tertiary in age. They may occur in narrow swarms marking old brittle fault zones. These are common east of the Gold Claims, particularly in the vicinity of the Pillar Fault (Fig. 2B).

6.2 Sub-volcanic Porphyritic Domes (part of the Black Lake Suite)

These are reported in only a few localities in the district (Fig. 5), including near Jock Creek, but they have not been identified on the Gold Claims. They are similar in composition to the Toodoggone Formation latite-dacite volcanic suites, and the largest body covers approximately 5 km^2. Locally, some bodies are flanked by conglomerates containing cobbles derived from the domes (Diakow et al., 1993) which demonstrates that they were high-level and subject to syn-Jurassic uplift and erosion. The rocks contain as much as 50 % plagioclase phenocrysts, with lesser remnant amphibole and pyroxene. Quartz generally makes up < 2 % by volume. These bodies have significant exploration potential, as illustrated by the presence of Au-Ag mineralization at the Shasta property close to Jock Creek (Fig. 7; Thiersch and Williams-Jones, 1990; Marsden, 1990).

6.3 Plutonic Monzonites and Granodiorites (part of the Black Lake Suite)

These Early Jurassic plutonic rocks form larger plutons and stocks, as well as dikes and sills that may occur in swarms. They can be separated into the three types:

(1) An older suite of propylitically altered monzonites and quartz monzonites (Units M, qM, FPm) that range in age from 198 to 202 Ma. These are economically important as they are probably related to both Cu porphyry and Au-Ag epithermal mineralization, as seen at the Kemess and Baker mines (Cann, 1976; Rebagliati et al., 1997; Cann and Godwin, 1980; Peter, 1983; Barr et al., 1986). Monzonites are reported on parts of the Gold Claims (Fig. 2B) but only small outcrops of this rock-type were seen during the mapping (Map 1A).

(2) A slightly younger granodioritic suite which is typified by the Black Lake Stock (Fig. 5), which is dated at c. 197 Ma. This suite (Unit Gd) tends to be less altered than the monzonites, and is not so economically important, although it is spatial related to small skarns such as the Castle Mountain occurrence. No granodioritic intrusives were seen on the Gold Claims (Map 1A).

(3) Small occurrences of a younger, 190 Ma granitic phase which produced such bodies as the Fredrickson Granite (Larry Diakow, personal communication, 2004). This rock-type does occur on the Gold Claims.

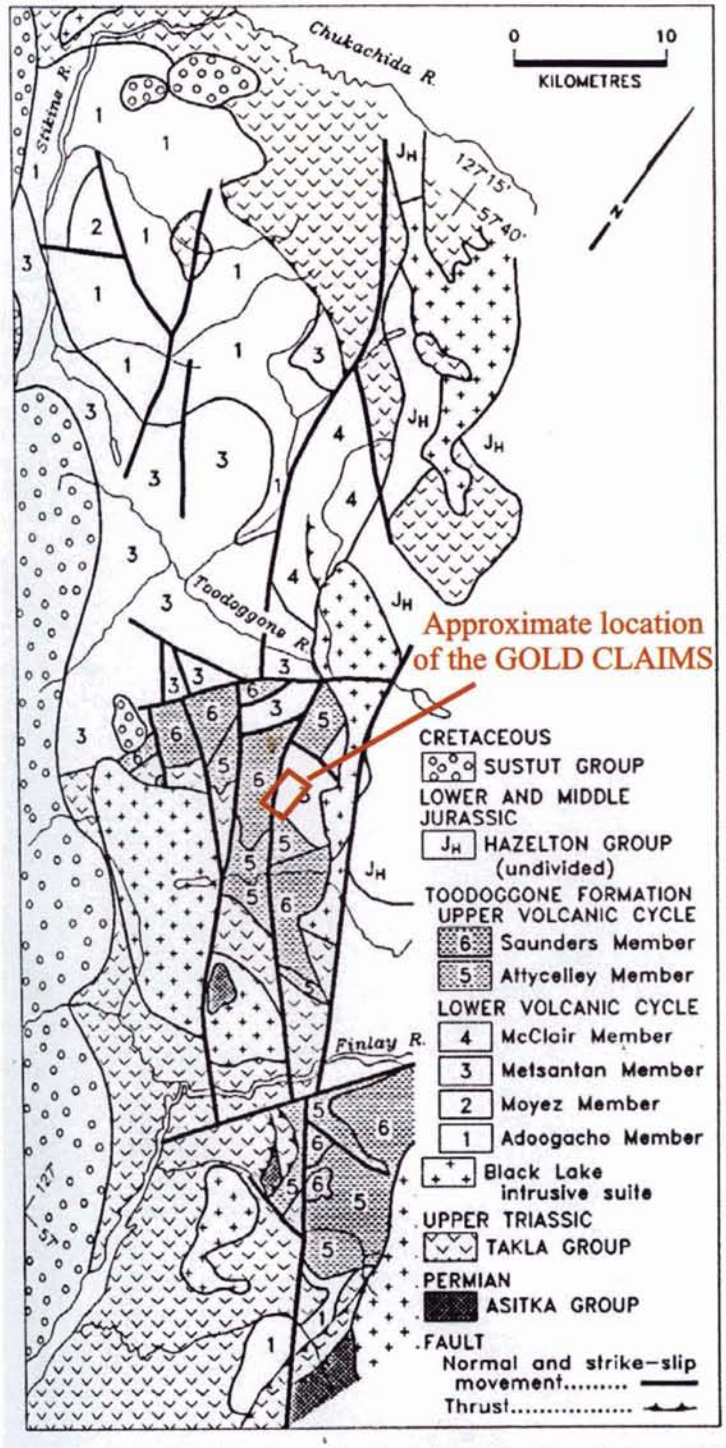

Fig. 4: Distribution of Todoggone Formation volcanic members, and approximate location of the Gold Claims.
Geology from Diakow et al. (1993).

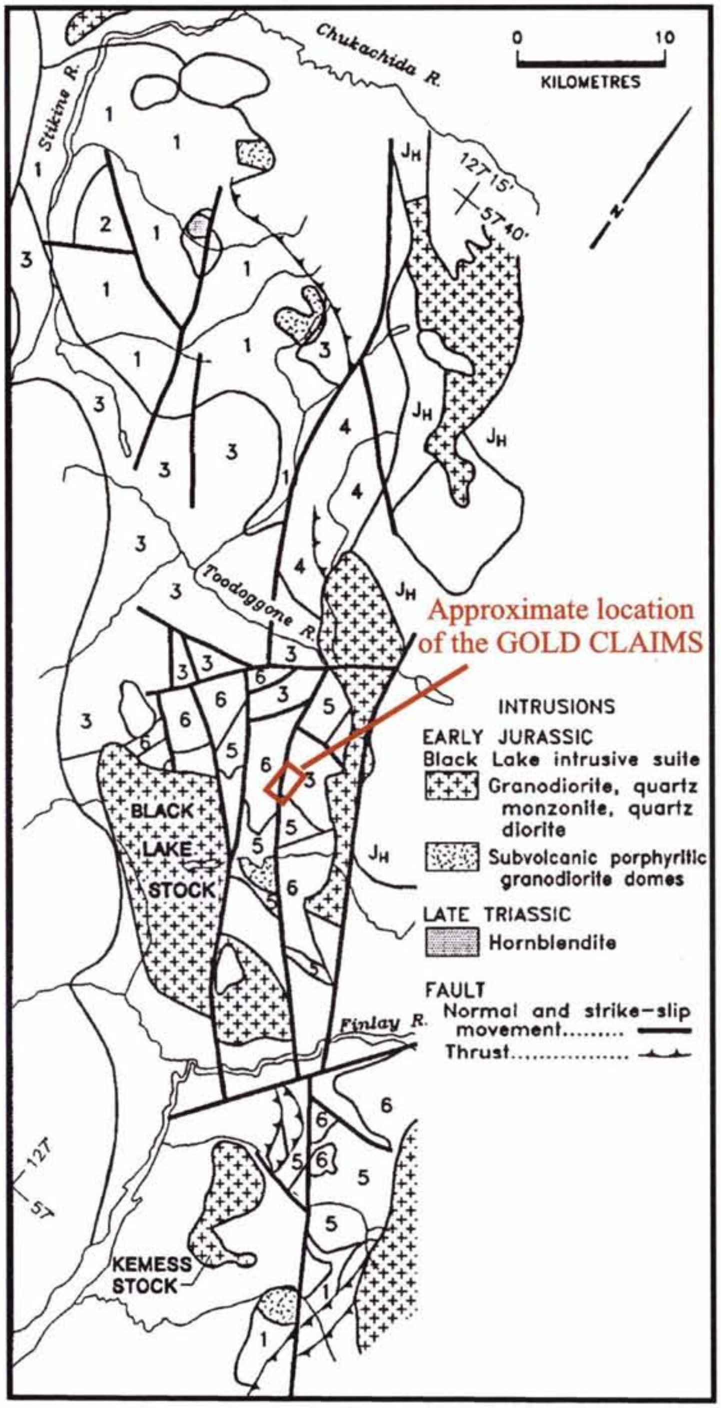

Fig. 5: Distribution of Late Triassic and Early Jurassic intrusions in the Gold Claims area.
Numbers correspond to Todoggone Formation volcanic units in Figure 4.
Geology from Diakow et al. (1993).

6.3.1 Older Monzonites (Units M, qM and FPm)

Throughout the district, the older monzonites tend to be volumetrically less dominant than the younger granodioritic to granitic intrusive suites, and in many parts (e.g. near the Brenda mineralization; Fig. 7) they only occur as minor bodies or dike swarms. Larry Diakow reports that the monzonites are mainly concentrated in an area between the Finlay and Toodoggone rivers, and that the largest monzonite stock (or stocks) lies east of the Gold Claims on Finlay Minerals large Pil property where they appear to straddle the Pillar Fault (Figs. 2A and 2B).

This older suite includes rocks that range compositionally from monzonite to quartz-monzonite, although on the Pil claims some dioritic and quartz dioritic rocks have been mapped (Gruenwald and Ray, 2004). The monzonites form pale pinkish grey to pink, coarse grained and massive rocks. They are commonly feldspar-porphyritic, ranging from coarsely porphyritic to semi-equigranular. Quartz is uncommon (generally < 2 %) but in the more silica-rich types it forms up to 10 % by volume. Both hornblende and biotite are present and generally total between 4 to 10 %. In the more leucocratic and felsic rocks however, biotite and amphibole make-up less than 2 % by volume whereas in the more mafic monzonites these minerals exceed 20 %. Chloritization of the mafic minerals is ubiquitous, and the monzonites are often overprinted by various types of retrograde and/or hydrothermal alteration resulting in the presence of epidote, chlorite, sericite, pyrite and K-spar.

6.3.2 Younger Granodiorites (Unit Gd)

The largest granodiorite body in the district is the Black Lake Stock (Fig. 5) which covers an area of approximately 115 km^2. A substantial-size stock is also present in the northern parts of the Pil Claims, NNE of the Gold Claims (Fig. 2B). These bodies consist of pink and white, coarse to very coarse-grained massive rocks that range from equigranular to weakly feldspar porphyritic. They tend to be considerably less altered than the older monzonite suite, and they contain up to 20 % quartz and 15 % mafic minerals; the latter includes biotite and lesser hornblende. Unlike the monzonites, this granodioritic suite does not appear to be related to any significant mineralization apart from minor skarns.

7.0 STRUCTURE IN THE DISTRICT

The distribution of the major structures in the district is seen in Fig. 6. Apart from broad-scale warping, the Toodoggone Formation has not undergone substantial folding or thrusting. Layering or bedding is rare, but where seen, most of the volcanics and epiclastic sediments dip less than 40 degrees, except where they lie adjacent to the major faults. Regionally, many of the volcanic rocks dip westwards to northwest (Fig. 6).

Structurally, the Toodoggone Formation is dominated by block extensional faulting, much of which has produced major northwest to NNW trending brittle sub-vertical structures such as the Saunders and Pillar faults (Figs. 2B and 6); the former is an important west-side down structure that transects the Gold Claims (Fig. 2B). The northerly trending faults in the district are locally truncated and displaced by younger NE to easterly-striking structures (Fig. 6). In outcrop, even the major fault zones tend to be narrow and unimpressive (Larry Diakow, personal communication, 2004).

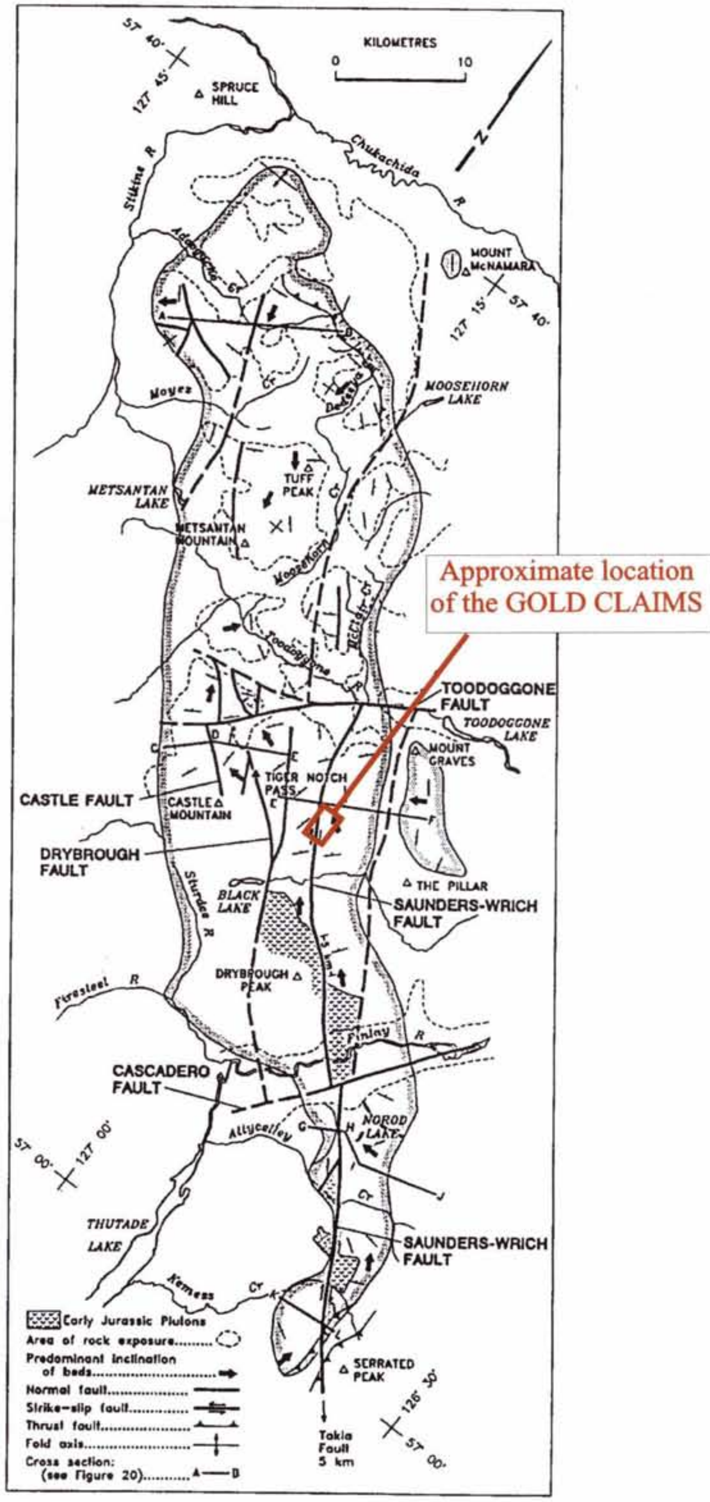

Fig. 6: Distribution of major faults in the Gold Claims district. After Diakow et al. (1993).

Many of the northerly-trending faults in the district are believed to be pre-Jurassic to early Jurassic in age. Some originally represented half-graben structures or fissures that partly controlled the eruption of the early Jurassic Toodoggone volcanics (Diakow et al, 1993). These faults also controlled the emplacement of the Black Lake Intrusive Suite, as well as the mineralization, and younger swarms of andesitic dikes. Subsequently, the faults and andesite dikes have suffered several episodes of late (?Tertiary and younger) brittle movement.

Some of the northerly-striking structures involved several hundred meters of vertical movement, and the most common overall displacements are east-side down (Larry Diakow, personal communication, 2004). This displacement is seen, for example, along the Pillar Fault which accounts for the extensive preservation of the younger-most "Eastern" package east of the structure. However, important exceptions include the Saunders Fault which is down-dropped to the west. This suggests that the block of ground between the Saunders and Pillar fault represents a northerly elongate horst with down-dropped rocks to both the east and west. Some right-lateral displacement is reported along the Saunders Fault (Fig. 6), and further east, slickensides suggest some sub-horizontal movement also took place along the Pillar structure (Gruenwald and Ray, 2004).

8.0 ALTERATION IN THE DISTRICT

Many of the Toodoggone volcanics and monzonites immediately east and NE of the Gold Claims are overprinted by various style of hydrothermal alteration, some of which are marked by large, spectacular yellow-brown colored alteration zones containing intense jarosite-goethite-hematite staining. On many parts of the Finlay Minerals Pil properties (Fig. 2A) the Fe oxide-rich areas represent vegetation kill-zones that contain scattered float with silica-sericite ± pyrite ± K spar ± vein barite alteration assemblages. Some color zones are associated with Cu, Mo, Pb or Au soil anomalies, and these may indicate the presence of either Cu-porphyry or Au-Ag epithermal mineralization.

The following types of hydrothermally-related alteration mineral assemblages are seen throughout various parts of the Gold Claims district:

(1) Propylitic assemblages containing chlorite, epidote ± pyrite. This is often pervasive and extensive. It mostly overprints the plutonic stocks and is generally less well developed in the volcanics. Locally, particularly along faults, the pyrite content may reach 6–10 %, but is generally < 3%. Propylitic alteration is common throughout the Metsantan Member rocks on the Gold Claims.

(2) Pervasive to fracture-controlled K spar ± quartz assemblages. In the district this style locally overprints both the monzonitic and overlying volcanics. Some of the Metsantan Member volcanics on the Gold Claims rocks have this alteration (Map 1B).

(3) Massive to vuggy silica flooding ± fine-grained sericite ± K spar ± rare and thin (often hair-like) magnetite-quartz veining. This type is distinctive by the presence of magnetite. It is well developed on parts of the Pil properties but is also seen in float in the SE part of the Gold Claims (Appendix 1). While the vuggy silica suggests an epithermal origin, the K spar and magnetite-quartz veinlets hint at a porphyry-association.

(4) Massive silica-quartz ± pyrite ± kaolin ± sericite which varies from being fracture-controlled and restricted, to pervasive and extensive. The silica may be cut by various generations of quartz veining and stockworks. The silica varies from grey to white to pale brown in color. Both it and the associated quartz veins may be vuggy, and the small cavities are often lined with minute glassy quartz crystals. Locally, it is associated with barite veining, as well as some pyrite with rare chalcopyrite, galena, and sporadic sphalerite. Feldspar

(possibly albite) is also present sporadically. This pervasive style of silica-quartz is well developed at various places on the Pil properties further east (Gruenwald and Ray, 2004). It probably represents the most economically important alteration on the Gold Claims because it hosts some Au mineralization, and one elongate, NW trending zone of silicification coincides with the largest Au soil anomaly on the property. However, in contrast to the silica developed further east on the Pil properties (Fig. 2A), on the Gold Claims it appears to lack any significant barite.

(5) Massive silica-sericite ± feldspar ± pyrite assemblages that may represent a variety of type 4 above, although it is distinctive in locally containing abundant very fine grained sericite. Locally, it resembles the phyllic alteration present in some Cu porphyry systems.

(6) Silica-quartz assemblages associated with pale to medium purple-colored amethyst crystalline, coxcomb quartz, and finely banded grey chalcedony. This is well developed at the Atlas Zone situated approximately 8 km ESE of the Gold Claims (Gruenwald and Ray, 2004) where it is associated with Au-Ag mineralization. However, amethystine quartz float is also present on parts of the Gold Claims, and at one locality (UTM 618045-6355030) a 30 cm diameter boulder of vuggy amethyst contained up to 7 % disseminated pyrite. The amethyst-associated alteration resembles that present at the Lawyers deposit (BC MINFILE 094E 066). The chalcedonic and coxcomb textures and higher Ag content at the Atlas Zone suggests it formed at higher structural levels than the much more extensive silica-quartz alteration seen on the Gold Claims.

(7) Moderate to strongly pervasive kaolin-rich alteration associated with silica, pyrite ± sericite. It overprints volcanics along the eastern side of the Pillar Fault (Fig. 2B) and is well developed on the Gold Claims in Metsantan Member rocks immediately east of the Saunders Fault (Map 1B). In both areas it does not appear to be associated with Au mineralization.

(8) Many of the altered and unaltered volcanic sequences contain abundant amounts pink to orange-colored zeolite minerals that are mainly fracture-controlled in veins. These are particularly common on parts of the Gold Claims where zeolite veins cut the silicified and chloritized Metsantan volcanics (Maps 1A and 1B). It is not known if the zeolites are hydrothermally-related.

During the geological mapping, attempts were made to identify both the original rock lithologies as well as the various types of alteration listed above. In addition, at many outcrops the rocks were assigned an "Alteration Index" in an attempt to visually quantify the intensity of the overprinting. The index was scaled from 1 to 10, with 1 representing only trace to minor overprinting while 9 to 10 indicated such intense alteration that the original rock-type was not recognizable. The distribution and intensity of the alteration in the mapped portion of the Gold Claims are plotted on Map 1B.

9.0 DISTRICT MINERALIZATION

The location of the various types of base and precious metal deposits and mines in the Toodoggone River district are shown in Figure 7. Most of the economically important mineralization is genetically related to the Early Jurassic monzonites, as well as the high-level sub-volcanic granitic domes. In addition to placer gold, the hypogene mineralization in the district, includes the following types:

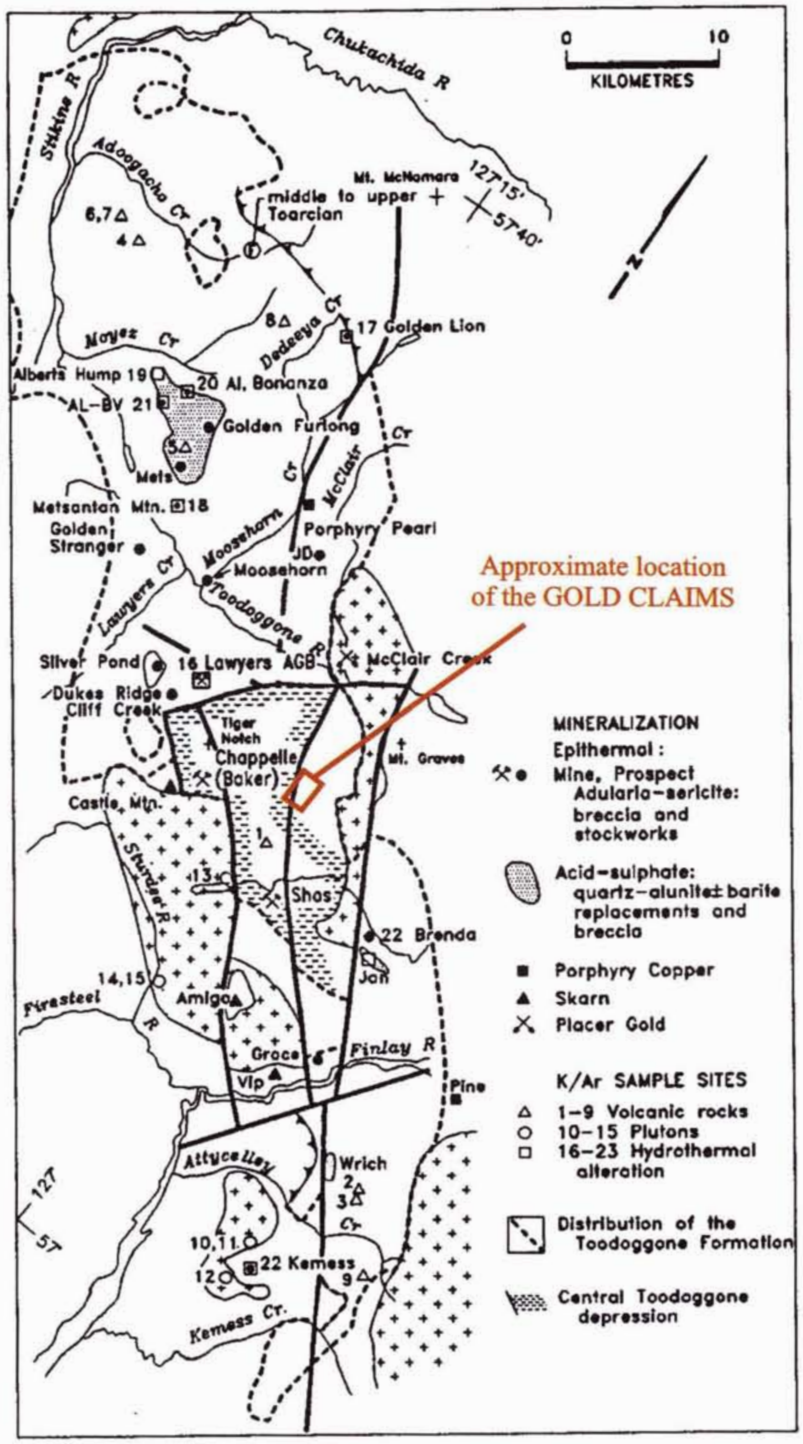

Fig. 7: Location of the various types of mineral deposits in the Toodoggone River area. After Diakow et al. (1993).

(1) Cu ± Au ± Mo porphyry mineralization as typified by the Kemess North and Kemess South deposits (BC MINFILE 094E 021 and 094 respectively; Cann, 1976; Cann and Godwin, 1980; Rebagliati et al., 1997) which are genetically related to Early Jurassic monzonites, but hosted by volcanics of the Takla Group or Toodoggone Formation.

(2) Low sulphidation epithermal Au ± Ag deposits as seen at the Lawyers, Baker and Shasta deposits (BC MINFILE 094E 066, 026 and 050 respectively; Peter, 1983; Forster, 1984; Vulimiri et al., 1986; Barr et al., 1986; Thiersch and Williams-Jones, 1990; Marsden, 1990).

(3) High sulphidation epithermal Au mineralization as recorded at the Al and Silver Pond deposits (MINFILE 094E 079 and 163 respectively; Diakow, 1983; Diakow et al, 1993).

(4) Skarns with small, high-grade concentrations of Zn-Pb-Cu ± Au ± Ag mineralization, as present at the Castle Mountain and Perry Mason-Pau occurrences (MINFILE 094E 027 and 072 respectively; Diakow et al, 1993).

The porphyry Cu-Mo ± Au mineralization is generally hosted by either the Takla Group volcanics (as at Kemess North) or the Toodoggone Formation volcanics and monzonites (as reported at Kemess South). In both cases, the mineralization is believed to be genetically related to the older monzonite suite which forms small stocks and dikes. In addition to chalcopyrite - gold ± molybdenite ± chalcocite, the porphyry mineralization contains minor sphalerite and galena ± digenite. Alteration assemblages include pyrite, epidote, magnetite, hematite, sericite, clay, chlorite, gypsum, barite and quartz-K feldspar stockworks. These assemblages suggest the hydrothermal systems formed in a high-level oxidizing environment.

The epithermal mineralization is represented by low sulfidation (e.g. Lawyers, Baker) and high sulfidation (e.g. Silver Pond, Al) types, although the latter tend to be smaller and less economically important. These epithermals are marked by native Au, Ag and electrum with argentite and minor pyrite, sphalerite, galena, tetrahedrite and chalcopyrite. Other minerals reported include polybasite, stromeyerite and chalcocite (Diakow et al., 1993). Gangue assemblages include quartz, chalcedony, amethyst, barite, gypsum, alunite, dickite, adularia, pyrophyllite and minor fluorite.

The small skarns, such as the Castle Mountain occurrence, are hosted by Permian limestones of the Asitka Group, near intrusive contacts with the granodioritic Black Lake Stock. Mineralization includes sphalerite, galena, bornite, chalcopyrite ± Au ± Ag, in a gangue assemblage of garnet, epidote, chlorite, quartz, calcite and actinolite (Diakow et al., 1993).

The Gold Claims district contains a large number of MINFILE mineral occurrences, at lease one of which lies on the claims. The occurrences include the following:

(1) **094E 037, Golden Neighbor.** This occurrence lies in the Gold Claims (Fig. 2B). It may represent low-sulphidation epithermal Au-Ag ± Cu mineralization hosted by vuggy quartz-silica zones that have replaced Toodoggone volcanic rocks.

(2) **094E 153, Camp 1.** Like the nearby Golden Neighbor, this Au-Ag-Cu occurrence possibly represents deeper-level epithermal mineralization. It lies close to the northern boundary of the Gold Claims (Fig. 2B). The mineralization, which is exposed in outcrops 200 meters apart, is hosted by fractures that cut highly altered intrusives and volcanics.

(3) **094E 151, Dave Price.** This Au-Ag occurrence lies only 1 km south of the Gold Claims (Fig. 2B). It includes an extensive zone of alunite-clay-silica-sericite-pyrite alteration with quartz breccia hosted by volcanics. Assays of up to 1.7 g/t Au and 215 g/t Ag are recorded.

(4) **094E 007,** Spartan, which lies close approximately 4 km NNE of the Gold Claims (Fig. 2B). This malachite-chalcopyrite occurrence is hosted by shattered and altered monzonite. It should be noted that this occurrence lies **east** of a deep N-S trending valley, and not west of the valley as shown on the map of Diakow (2004), (Fig. 2B).

(5) **094E 214, GWP,** which lies 4 km NNE of the Gold Claims (Fig. 2B). MINFILE records it as an Au-Au-Cu epithermal occurrence in silicified stockworks hosted by altered Toodoggone Formation volcanics.

(6) **094E 201, Paul.** This occurrence lies on the Finlay Minerals Pil properties approximately 6 km NE of the Gold Claims (Fig. 2B). The Au-Ag-Pb mineralization is possibly related to a low-sulphidation, deeper-level epithermal system associated with silica veins and stockworks ± barite (Gruenwald and Ray, 2004).

(7) **094E 202, Ian.** This Au-Ag-Pb-Cu occurrence lies approximately 2 km SW of the Finlay Camp, close to the western boundary of the Pil claim block (Fig. 2B). It represents low-sulphidation epithermal mineralization and is hosted by altered Metsantan Member volcanics.

(8) **094E 083, ARG.** This lies only 2 km ENE of the Gold Claims (Fig. 2B). It comprises Cu ± Pb ± Au ± Ag mineralization in vuggy quartz veins and breccia zones. MINFILE states that the epithermal-type occurrence is hosted by altered tuffs but in Figure 2B from Diakow (2004) the area is designated as monzonite.

(9) **094E 029, Theban.** This Cu occurrence lies close to, and SW of, the ARG showing (Fig. 2B). It comprises chalcopyrite with quartz-epidote stringers in a siliceous zone that cuts monzonites. It may be related to a Cu porphyry system.

(10) **094E 216, Brooke.** This Cu-Zn-Ag occurrence lies approximately 5 km east of the Gold Claims, in the vicinity of the ARG and Theban occurrences (Fig. 2B). It comprises mainly chalcopyrite hosted by altered monzonitic rocks.

(11) **094E 213, Atlas.** This occurrence lies approximately 8 km ESE of the Gold Claims and it represents an exciting Au-Ag low-sulphidation epithermal target. It is hosted by Metsantan volcanics and is exposed in three hand-dug trenches (Gruenwald and Ray, 2004).

(12) **094E 215, Michel.** This small Cu occurrence is located approximately 1 km SSW of the Atlas trenches and is hosted by Metsantan Member volcanic rocks.

10.0 GEOLOGY, ALTERATION & MINERALIZATION ON THE GOLD CLAIMS

10.1 Geology

Geologically, the mapped portion of the claims (Map 1A) is dominated by Toodoggone Formation volcanics and tuffs, and only a few small outcrops of monzonite were seen. However, regional mapping by Diakow (2004; Fig. 2B) outlined some monzonitic intrusions in the NE parts of the claims although these were not encountered during the present survey. No bedding or layering were observed in the volcanics and tuffs, although some layered rocks close to the eastern boundary of the property dip between 12 and 35 degrees westerly to SW (Fig. 2B; Larry Diakow, personal communication 2004). Two different volcanic units are present on the claims and these are separated by the north to NNW trending Saunders Fault. This major structure has undergone west down-dropping and has juxtaposed the generally unaltered Saunders Member rocks to the west and SW against strongly altered Metsantan Member volcanics further east. The latter rocks host the silica-related Au mineralization being explored on the claims (Fig. 2B; Maps 1A and 2A).

The Saunders Member is exposed in small outcrops immediately west of the Saunders Fault, as well as in some cliff-sized outcrops on higher ground. It comprises grey colored dacitic ash and lapilli tuffs with lesser flows. Some of the coarser tuffs carry sporadic sub-rounded lapilli and lithic fragments, up to 3 cm in diameter. No significant alteration or mineralization is seen in the Saunders Member, and these rocks on the claims have a poor economic potential.

Alteration west of the fault makes it difficult to identify the original composition of many Metsantan rocks, although locally some andesitic and latite tuffs and flows are recognized, as well as minor dacites. The Metsantan package is believed to dip westerly at between 12 and 35 degrees, but knowing the true dip of these rocks is important regarding any planned future drilling.

Structurally, the claims are dominated by the northerly trending Saunders Fault. Splaying eastwards from this structure are a number of SE to easterly striking valleys and gulleys that are believed to follow faults. The most important of these splay structures trends SE and it marks the northern limit of the Au and Pb soil anomalies (Maps 1A and 1B). The dip and displacement of these splay structures are unknown.

10.2 Alteration and Mineralization

The Metsantan Member volcanics adjacent to, and east of, the Saunders Fault are so strongly altered that locally the original lithologies and rock compositions are uncertain. Further east however, alteration becomes progressively less strong, and on the ridge 700 metres east of the fault igneous textures in the latite tuffs and flows are clearly recognized. The following styles of alteration are seen on the claims:

(1) Clay-rich assemblages with variable amounts of pyrite, silica and chlorite. This alteration is most common in the northern part of the mapped area immediately adjacent and east of the Saunders Fault. Locally, pyrite is abundant, and traces of magnetite are present, but soil sampling shows this alteration is not associated with Au (Map 1B).

(2) Weak K spar alteration which sporadically overprints dacites and latites in the NE part of the mapped area (Map 1B).

(3) Silica-quartz ± pyrite ± sericite ± kaolin alteration that in very rare cases contains K spar and trace magnetite. Commonly, the original pyrite has been leached and the rocks have been acid-attacked. This economically important style of alteration varies in style from massive-pervasive to veins and stockworks.

(4) Extensive areas with pervasive propylitic alteration marked by chlorite-epidote-pyrite mineral assemblages.

The pervasive silica (No. 3 above) occurs primarily in a NNW- trending zone that extends SSE outside the eastern and southern claim boundaries (Maps 1A and 1B). The zone is discontinuously traceable along strike for over 1.5 km and its southern portion coincides with an elongate Au soil anomaly that also extends SE of the claims. It is marked throughout its length by a number of trenches and pits; the silica is mostly seen in sub crop and float, and true outcrops are rare. The main silica zone has an apparent outcrop width varying between 50 and 175 metres, although its true width is unknown due to poor exposure and a local covering of scree derived from upslope. It is marked by massive silica (mostly pale brown but locally grey) that may be cut by vuggy quartz vein stockworks. Also sporadically present are sericite, pyrite and K spar, together with rare, thin (hair-like) irregular magnetite veinlets. Magnetite was seen mostly outside the eastern claim boundary, most notably at UTM 618809-6353701. The main zone is thought to contain some less silicified horizons that have epidote-chlorite-pyrite alteration and recognizable volcanic textures; one sample of this rock-type assayed 1.12 g/t Au (sample 323533; Appendix 1). Float with minor chalcopyrite, chalcocite and malachite mineralization occurs at UTM 618340-6354588, just SE and upslope from two old drill pads.

Silicification decreases in intensity east and west of the main zone. The propylitically altered and pyritic rocks above and below the main zone are cut by irregular veins and stockworks of silica, as well as areas of pervasive silicification. John Barakso found amethyst float in the extreme SE corner of the claims, but the sample only contained 20 ppb Au (sample 323532; Appendix 1). In addition, the author saw a 30 cm boulder of pyritic vuggy amethyst located at the bottom of the NW trending valley at UTM 618045-6355030. Unfortunately, no sample was collected from the latter because "132644" was painted on the boulder indicating it had been previously sampled. It was assumed that the sample had been collected previously by Finlay Minerals personnel, but it now appears likely that geologists from another company were responsible. It is recommended that this promising pyritic amethyst boulder should be sampled during the next field season.

The author collected 12 assay samples from the Gold Claims (Appendix 1) and an additional 5 and 17 were taken respectively by Peter Ronning and Rein Turna. Some samples were enhanced in Au (max 1653 ppb), as well as in Zn (max 1132 ppm), and Pb (max 263 ppm). Arsenic values were very low (mostly < 5 ppm) but a few samples were weakly anomalous in Mo and Bi (Appendix 1).

Some of the rock grab samples represented the massive to vuggy silica, and one sample collected by Rein Turna from UTM 618085-6355000 assayed 1653 ppb Au. A sample of silica float taken by the author outside the SE corner of the claims at UTM 618834-6353448 assayed 498 ppb Au (Appendix 1). This sample contained K spar with pervasive silica, some grey colored quartz veins, 1 to 2 % pyrite, trace sericite, and thin, hair-like veinlets of magnetite. It is noteworthy that this alteration closely resembles the K spar-quartz-pyrite-magnetite assemblages seen at Trenches A and D in the Milky Creek area of the Pil properties further NE (Gruenwald and Ray, 2004).

One of the most surprising assay results was float sample 323533 taken at UTM 618605-6353876 which contained 1.12 g/t Au (Appendix 1). This lacked significant silicification and represented a rusty weathering, epidotized latite tuff containing 2 to 3 % pyrite and sporadic thin magnetite veinlets. This sample, which was collected from a 20 metre-long trench, may have been derived from upslope. It could represent either pyritic rocks belonging to the eastern footwall of the main silica zone or a non-silicified unit within the zone. The 20 metre trench also contained float of white to pale grey vuggy silica in which remnant latite igneous textures were still clearly visible. A sample (323535) of this material assayed 261 ppb. In this vicinity, there are at least five trenches, as well as a number of pits; these have been put down across the silica zone which here has an apparent outcrop width of 150 to 175 meters.

The presence of Au in sample 323533 demonstrates that the pyritic, non silicified altered rocks warrant further sampling and exploration.

10.3 Soil Sampling

Previous soil sampling by Lacana in 1986 outlined an Au anomaly that lay in the SE portion of the Gold Claims. This anomaly extended southeastwards outside the claim boundary where some soils assayed > 1000 ppb Au. In 2004, Finlay Minerals Ltd completed a follow-up, multi-element soil sampling program to check the results of the earlier survey. Ten NW trending lines, each spaced 200 metres apart, were surveyed (Fig. 2C), and a total of 323 soil samples were collected. The analytical results are presented in Appendix 2, and the color processed maps for the Au and Pb data are shown as inserts on Maps 1A and 1B.

The soil data obtained from the 2004 program outlined a broad SSE to SE trending Au anomaly that becomes noticeably enhanced in the SE corner of the claims where individual samples contain up to 571 ppb Au. Overall, the highest soil values coincide with the trenches and pits put down along the main zone of silicification. Down-slope to the west, the Au anomaly is sharply truncated by the Saunders Fault, while to the NE it abruptly ends against a SE-trending splay structure.

The broad Au anomaly is mirrored in part by a Pb soil anomaly that also increases to the SE where soils contain up to 515 ppm Pb. However, the area with the highest Pb values tends to lie west and down slope from both the silica zone and the highest Au soil values. Other elements with sporadically anomalous values include Cu, Zn and Mo with maximum soil values of 725 ppm Cu, 1067 ppm Zn and 126 ppm Mo. However, values of Ag, Bi, As, W and Sb in the soils are generally low to very low. There is a sporadic enhancement of P (maximum 3969 ppm) which locally coincides with higher Pb values.

11.0 CONCLUSIONS

(1) The highly prospective Gold Claims are largely underlain Early Jurassic Toodoggone volcanics that elsewhere in the district host Cu-Au porphyry and Au-Ag epithermal mineralization, as present at the Kemess, Bakers and Lawyers deposits. The geology, alteration and soil chemistry indicate that the SE portion of the Gold Claims has a significant and untested potential for silica-hosted Au mineralization.

(2) The claims lie on the extreme western margin of a faulted horst-block that to the east and west is delineated by the northerly trending Pillar and Saunders faults. The latter structure transects the Gold Claims and separates down-dropped and unaltered Saunders Member volcanics to the west from highly altered Metsantan Member latites, andesites and lesser dacites further east. Splaying east and SE from the Saunders Fault are a number of lesser structures.

(3) The Metsantan rocks host the Au mineralization and silicification currently being explored on the claims, although rock exposures are generally only seen in valley-bottoms or in the numerous pits and trenches on the property.

(4) The Metsantan rocks east of the Saunders Faults are overprinted by several styles of hydrothermal alteration that are locally so intense that the original rock types are uncertain. The intensity of the alteration tends to progressively decline east the Saunders structure. Alteration includes:

a) Kaolin ± silica ± pyrite assemblages that overprint rocks immediately adjacent to, and east of the Saunders Fault. This alteration does not apparently host Au, but it is spatially associated locally with large blocks of ferricrete.

b) Silica-quartz-sericite-pyrite ± rare K spar, magnetite and some weak Cu mineralization. This may originally have been pyritic although weathering has resulted in leaching, acid-attack and the development of widespread jarosite staining. The silica is best developed in a SE to SSE trending zone that is at least 1.5 km in length and which continues southeastwards outside the claims. This zone coincides with a number of pits and trenches, and the alteration locally hosts Au.

c) Propylitic alteration (epidote-chlorite-pyrite) that is locally associated with K spar. This is common throughout the Metsantan rocks but is best seen in rocks at higher level east of the main silica zone.

(5) The controls of the 1.5 km-long silica zone are unknown. Previous workers suggested the silica may follow a NNW trending fault although this seems unlikely given the overall thickness of the zone which has a presumed outcrop width of 50 to 175 metres. Alternatively, the silica may have replaced a more permeable tuffaceous unit in the Metsantan package. This model would involve silica-rich fluids passing from depth up the old Saunders structure and then moving laterally eastwards into the permeable Metsantan rocks. Presumably, the western down-dropping seen along the Saunders Fault occurred after the introduction of the silica and Au.

(6) The true dip of the silica zone and the hosting Metsantan volcanics is unknown. However, volcanic-tuffaceous layering mapped by Larry Diakow elsewhere in the district dips gently to moderately westerly at between 12 and 40 degrees. Thus, the Metsantan rocks on the claim (and the silica zone) probably dip west to SW towards the Saunders Fault at between 25 and 35 degrees.

(7) Knowing the correct dip of the silica zone is very important for future drilling, and for locating the hanging-wall and footwall rocks. Figure 8 presents a cross-section showing a number of different dip directions including easterly, vertical and westerly. If the zone dips west at a shallower angle than the ground-slope, or if it dips east, then the hanging-wall rocks lie east of the zone and a drill would have to be collared on this higher ground. If however (as seems more likely) the zone dips west steeper than the ground slope, then drill-sites should be placed west and down-slope of the silica in order to intersect the entire zone and its hanging-wall and footwall alteration.

(8) If the silica zone dips between 25 and 35 degrees west (Figure 8), then the clay-silica-pyritic mineral assemblage overprinting rocks immediately east of the Saunders Fault probably represents the hanging-wall alteration, while the chlorite-epidote-pyrite ± K spar assemblages seen east of the silica zone mark the alteration in the footwall.

(9) Much of the silica seen on surface has been strongly leached and acid-attacked due to the breakdown of the original pyrite. This leaching may account for the low Au content of some silica samples, and the Au content may pick up with depth.

(10) The epidote-pyrite-bearing sample 323533 which assayed 1.12 g/t Au shows that auriferous mineralization is not restricted entirely to the silica-rich-alteration. It is possible that sample 323533 comes from a less silicified unit within the main silica zone or it was derived from footwall altered rocks sub-cropping upslope from the sample site. Thus, future drilling should attempt to cut down into and test the footwall rocks.

(11) The environment in which the auriferous silica formed is uncertain. The vuggy quartz stockworks and other mineral textures suggest an epithermal origin; this is supported by the rare occurrence on the claims of amethyst ± pyrite float similar to that presence at the Lawyers deposit (Vulimiri et al., 1986). Locally however, the silica is associated with minor K spar and thin magnetite veinlets which suggests a deeper-level origin. Unlike many

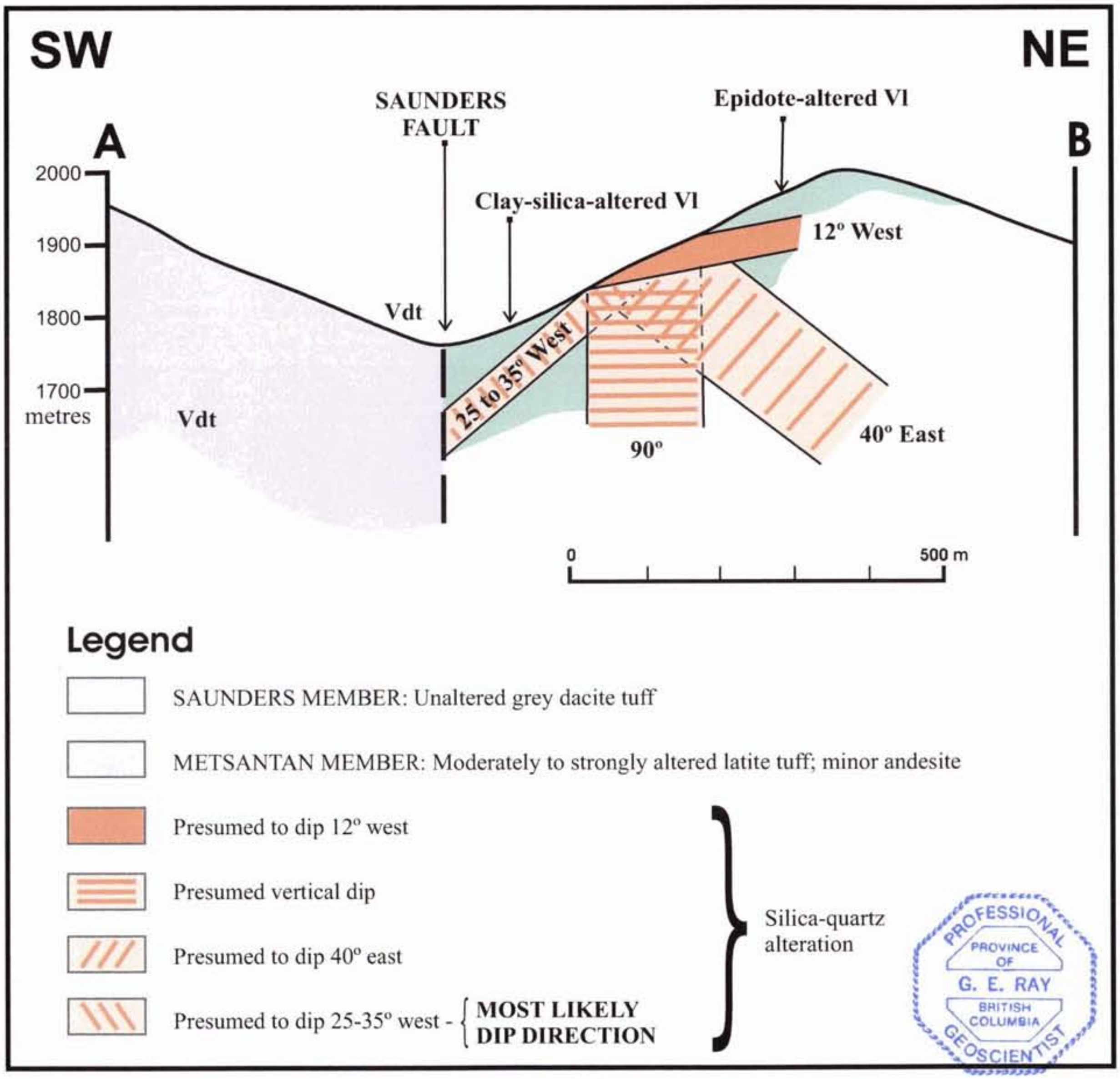

Figure 8: SW-NE section across part of the GOLD CLAIMS (see section A-B, Map 1A)

other silica-quartz alteration zones in the district (Gruenwald and Ray, 2004), barite appears to be rare on the Gold Claims.

(12) Soil sampling has outlined an extensive area with anomalous Au (up to 566 ppb Au) as well as parts that have enhanced values of other metals, noticeably Pb and Zn. The strongest Au soil anomaly covers a 300 metre by 600 metre area in the extreme SE corner of the claim block, and there is every indication that the anomaly extends southwards outside the claims.

(13) The strongest Pb soil anomaly lies slightly west and down-slope from the higher Au soil values. It is not known whether the Pb-richer soil has been transported down-slope, or whether it reflects a more distal style of mineralization developed in hanging wall above the Au-silica zone.

(14) The previous drilling completed in the 1980's was presumably targeting the area where the silica zone included some Cu mineralization. However, the grab sampling and soil survey indicates that future drilling should target the silica zone along a 600 meter length area that lies in the SE corner of the claims.

12.0 RECOMMENDATIONS

(1) Soil sampling and mapping show that the most Au prospective, 600 metre-long portion of the silica zone underlies the SE part of the Gold Claims. Since this auriferous zone extends south and SE outside the current claims, Finlay Minerals should try to obtain exploration rights to this ground.

(2) If the ground to the SE is obtained, further exploration should continue, including soil and rock grab sampling, as well as mapping on the newly acquired area.

(3) Drilling on the Gold Claims should be confined to the 600 meter-long area in the SE part of the property which is marked by higher soil anomalies. Drill sites should be sited west and down-slope of the silica zone and should be angled eastwards to intersect the west-dipping zone and its adjacent hanging-wall and footwall alteration.

Respectfully Submitted By:

PROFESSIONAL
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G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

G.E. Ray, P.Geo.
11th December, 2004

APPENDIX 1

DESCRIPTION AND ASSAY DATA OF GRAB SAMPLES

GOLD CLAIMS, 2004

APPENDIX 1: Description and assay data of rock grab samples from the GOLD CLAIMS, 2004

Certificate Number	Sample No	NAD 83 UTM E	NAD 83 UTM N	Elevation (meters)	Sample description	Au ppb	Au g/t	ICP Ag ppm	ICP Al %	ICP As ppm
	GOLD CLAIMS samples collected by G.E. Ray									
4V0872RG	323526	618834	6353448	1771.2	Float of silica-qtz alteration with pyrite & magnetite veinlets	**498**	-	1.4	0.59	<5
4V0872RG	323528	618982	6353640	1897.4	Pervasive qtz-sericite alteration with qtz veining	170	-	0.4	0.35	<5
4V0872RG	323531	618539	6353936	1849.8	Leached qtz-pyrite-sericite alteration	6	-	<0.2	1.5	<5
4V0872RG	323532	-	-	-	Amethyst & quartz float samples collected by John Barakso	20	-	1	0.11	<5
4V0872RG	323533	618605	6353976	1875.1	Rusty, altered epidotized latite or andesite with 3% pyrite	**1119**	1.12	0.7	1.35	<5
4V0872RG	323535	618605	6353976	1875.1	White vuggy silica with remnant latite textures	**261**	-	<0.2	0.3	<5
4V0872RG	323536	618657	6353995	1899.8	Vuggy quartz with 2% pyrite	111	-	<0.2	0.25	<5
4V0872RG	323537	618560	6354231	1830.9	Pyritic dark green latite with chlorite-epidote alteartion	72	-	<0.2	1.72	<5
4V0872RG	323539	618522	6354196	1822.4	Vuggy & leached quartzite-silica with malachite	30	-	<0.2	0.25	<5
4V0872RG	323540	618463	6354215	1782.2	Rusty vuggy quartz-silica with elongate calcite Xstals	23	-	0.9	0.48	<5
4V0934RG	TD 79	618329	6354606	1752	Float from trench of vuggy quartz with pyrite & malachite	19	-	3.3	0.14	<5
4V0934RG	TD 80	618340	6354588	1765.7	Trench. Float of vuggy quartz with chacopyrite-chalcocite	24	-	6.5	0.2	7
	GOLD CLAIMS samples collected by P. Ronning									
4V0872RG/RJ	323527	618880	6353645	-	Trench. Float of leached sucrosic qtz with rare qtz veinlets	97	-	<0.2	0.43	<5
4V0872RG/RJ	323529	618764	6353759	-	Float of silicified leached qtz-sericite-clay alteration	**162**	-	1.6	0.29	<5
4V0872RG/RJ	323534	618585	6353968	-	Trench. Leached vuggy qtz with sericite and Fe oxides	**183**	-	<0.2	0.78	<5
4V0872RG/RJ	323542	618511	6354209	-	Float of silicified, leached volcanic	15	-	<0.2	0.17	<5
4V0872RG/RJ	323543	618473	6354211	-	Trench. Rusty rock with silica, sericite and hematite	40	-	<0.2	0.52	<5
	GOLD CLAIMS samples collected by R. Turna									
4V0971RG	2004T 200	618070	6354250	-	-	3	-	<0.2	0.11	<5
4V0971RG	2004T 201	618100	6354265	-	-	18	-	<0.2	0.09	<5
4V0971RG	2004T 202	620195	6354505	-	-	17	-	<0.2	0.11	<5
4V0971RG	2004T 203	618265	6354295	-	-	31	-	<0.2	0.22	<5
4V0971RG	2004T 204	618350	6354589	-	-	14	-	<0.2	0.05	<5
4V0971RG	2004T 205	618334	6354605	-	-	2	-	0.8	0.11	<5
4V0971RG	2004T 206	618250	6354530	-	-	114	-	<0.2	1.15	<5
4V0971RG	2004T 207	618585	6353981	-	-	29	-	<0.2	0.06	<5
4V0971RG	2004T 208	618570	6353995	-	-	**646**	-	0.9	1.72	<5
4V0971RG	2004T 209	618570	6353995	-	-	45	-	<0.2	0.26	<5
4V0971RG	2004T 210	618515	6354000	-	-	20	-	<0.2	0.25	<5
4V0971RG	2004T 211	618579	6354041	-	-	63	-	<0.2	0.28	<5

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APPENDIX 1: Description and assay data of rock grab samples from the GOLD CLAIMS, 2004

Certificate Number	Sample No	NAD 83 UTM E	NAD 83 UTM N	Elevation (meters)	Sample description	Au ppb	Au g/t	ICP Ag ppm	ICP Al %	ICP As ppm
4V0971RG	2004T 212	618250	6354704	-	-	40	-	1.0	0.11	<5
4V0971RG	2004T 213	618249	6354729	-	-	9	-	0.6	0.06	<5
4V0971RG	2004T 214	618040	6355027	-	-	25	-	**12.0**	0.06	<5
4V0971RG	2004T 214a	618085	6355000	-	-	**1653**	-	5.6	0.15	<5
4V0971RG	2004T 215	618084	6354986	-	-	13	-	1.0	0.12	<5
NOTE:					***Min***	***2***	***-***	***<0.2***	***0.05***	***<5***
Bold = enhanced values					***Max***	***1653***	***-***	***12.0***	***1.72***	***7***
					Average	***164***	***-***	***2.5***	***0.42***	***-***

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APPENDIX 1: Descriptic

Certificate Number	Sample No	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Fe %	ICP K %	ICP Mg %	ICP Mn ppm	ICP Mo ppm	ICP Na %	ICP Ni ppm	ICP P ppm	ICP Pb ppm	ICP Sb ppm	ICP Sc ppm	ICP Sn ppm
	GOLD CLAIM																				
4V0872RG	323526	77	<0.5	5	0.04	<1	6	58	**620**	10.44	0.11	0.12	263	7	0.03	5	911	90	<5	2	<10
4V0872RG	323528	354	<0.5	<5	0.04	<1	<1	49	76	1.1	0.29	0.03	16	**20**	0.04	2	191	68	<5	<1	<10
4V0872RG	323531	29	<0.5	<5	0.19	<1	10	50	6	4.63	0.09	1.52	534	<2	0.05	4	908	23	<5	4	<10
4V0872RG	323532	189	<0.5	**8**	0.99	<1	2	157	18	1.94	0.06	0.01	86	14	0.01	6	83	19	<5	<1	<10
4V0872RG	323533	43	<0.5	<5	0.18	<1	12	46	74	5.32	0.06	1.16	1404	8	0.05	5	725	56	5	5	<10
4V0872RG	323535	100	<0.5	<5	0.03	<1	<1	88	99	3.42	0.25	0.02	21	**28**	0.02	4	783	24	<5	<1	<10
4V0872RG	323536	97	<0.5	<5	0.05	<1	3	90	22	1.18	0.21	0.01	17	**35**	0.01	4	119	13	<5	<1	<10
4V0872RG	323537	111	<0.5	<5	0.24	<1	7	40	16	4.44	0.16	1.48	328	3	0.05	4	923	11	<5	3	<10
4V0872RG	323539	255	<0.5	<5	0.03	<1	<1	113	8	1.07	0.06	0.13	76	7	0.01	4	161	9	<5	<1	<10
4V0872RG	323540	322	<0.5	12	0.03	<1	2	172	190	3.57	0.09	0.24	108	**33**	0.01	7	689	18	<5	<1	<10
4V0934RG	TD 79	1378	<0.5	<5	0.14	<1	1	162	315	0.52	0.08	<0.01	96	**32**	<0.01	6	162	17	<5	<1	<10
4V0934RG	TD 80	316	<0.5	**35**	0.16	**8**	2	171	**1800**	1.64	0.14	0.02	62	19	0.01	6	277	**263**	<5	<1	<10
	GOLD CLAIM																				
4V0872RG/RJ	323527	339	<0.5	<5	0.06	<1	<1	35	29	2.17	0.34	0.11	24	10	0.11	2	312	24	<5	<1	<10
4V0872RG/RJ	323529	190	<0.5	<5	0.04	<1	<1	48	24	1.5	0.44	0.02	12	**39**	0.02	2	186	22	<5	<1	<10
4V0872RG/RJ	323534	334	<0.5	<5	0.03	<1	1	44	110	3.62	0.36	0.3	86	<2	0.08	2	519	89	<5	3	<10
4V0872RG/RJ	323542	1441	<0.5	<5	0.02	<1	<1	106	8	0.97	0.02	<0.01	21	**37**	0.01	4	154	19	<5	<1	<10
4V0872RG/RJ	323543	503	<0.5	<5	0.02	<1	<1	42	6	2.14	0.19	0.1	15	6	0.01	2	192	18	<5	<1	<10
	GOLD CLAIM																				
4V0971RG	2004T 200	89	<0.5	<5	0.02	<1	<1	109	2	0.18	<0.01	<0.01	21	<2	<0.01	4	20	<2	<5	<1	<10
4V0971RG	2004T 201	810	<0.5	<5	0.02	<1	<1	146	12	0.52	0.04	0.01	30	2	0.01	5	48	15	<5	<1	<10
4V0971RG	2004T 202	450	<0.5	<5	0.04	<1	1	144	14	1.11	0.05	<0.01	33	7	0.01	6	292	<2	<5	<1	<10
4V0971RG	2004T 203	960	<0.5	<5	0.02	<1	<1	127	7	0.87	0.15	<0.01	23	8	0.01	5	58	6	<5	<1	<10
4V0971RG	2004T 204	2704	<0.5	<5	0.02	<1	1	205	10	0.33	0.04	<0.01	33	3	<0.01	10	20	<2	5	<1	<10
4V0971RG	2004T 205	689	<0.5	**6**	0.06	<1	<1	175	87	0.64	0.08	<0.01	26	12	0.01	6	116	<2	<5	<1	<10
4V0971RG	2004T 206	240	<0.5	<5	0.29	<1	2	69	326	3.84	0.18	0.72	447	12	0.05	5	951	44	<5	2	<10
4V0971RG	2004T 207	57	<0.5	<5	0.02	<1	<1	190	12	1.06	0.11	<0.01	28	**41**	<0.01	7	154	16	<5	<1	<10
4V0971RG	2004T 208	83	<0.5	<5	0.10	<1	<1	51	231	4.57	0.10	1.33	1153	21	0.06	3	747	87	<5	6	<10
4V0971RG	2004T 209	39	<0.5	<5	<0.01	<1	<1	123	4	0.32	0.09	<0.01	21	8	0.01	4	83	<2	<5	<1	<10
4V0971RG	2004T 210	39	<0.5	<5	<0.01	<1	<1	121	13	0.85	0.08	<0.01	20	**16**	<0.01	5	184	<2	<5	<1	<10
4V0971RG	2004T 211	291	<0.5	<5	0.04	<1	<1	120	16	1.35	0.30	0.01	21	**25**	0.02	4	340	28	<5	1	<10

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Certificate Number	Sample No	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm	ICP Cu ppm	ICP Fe %	ICP K %	ICP Mg %	ICP Mn ppm	ICP Mo ppm	ICP Na %	ICP Ni ppm	ICP P ppm	ICP Pb ppm	ICP Sb ppm	ICP Sc ppm	ICP Sn ppm
4V0971RG	2004T 212	457	<0.5	<5	0.18	<1	2	173	269	0.69	0.06	<0.01	66	6	<0.01	7	243	3	<5	<1	<10
4V0971RG	2004T 213	750	<0.5	<5	0.05	<1	<1	182	12	0.48	0.04	<0.01	24	8	<0.01	7	36	<2	<5	<1	<10
4V0971RG	2004T 214	137	<0.5	**24**	0.02	<1	5	214	197	2.86	0.06	<0.01	30	**64**	<0.01	10	105	68	<5	<1	<10
4V0971RG	2004T 214a	1513	<0.5	<5	0.10	<1	1	172	174	0.80	0.10	<0.01	52	**173**	<0.01	6	303	**97**	5	<1	<10
4V0971RG	2004T 215	97	<0.5	<5	11.31	3	2	129	188	1.28	0.03	0.04	535	12	0.01	6	126	50	<5	<1	<10
NOTE:		***29***	***<0.5***	***<5***	***<0.01***	***<1***	***<1***	***35***	***2***	***0.18***	***0.02***	***<0.01***	***12***	***2***	***<0.01***	***2***	***20***	***<2***	***<5***	***<1***	***<10***
Bold = enhanced values		***2704***	***<0.5***	***35***	***11.31***	***8***	***12***	***214***	***1800***	***10.44***	***0.44***	***1.52***	***1404***	***173***	***0.11***	***10***	***951***	***263***	***5***	***6***	***<10***
		455	***<0.5***	***15***	***0.46***	***6***	***4***	***115***	***147***	***2.10***	***0.14***	***0.37***	***169***	***23***	***0.03***	***5***	***327***	***44***	***5***	***3***	***<10***

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Certificate Number	Sample No	ICP Sr ppm	ICP Ti %	ICP V ppm	ICP W ppm	ICP Y ppm	ICP Zn ppm	ICP Zr ppm
	GOLD CLAIM							
4V0872RG	323526	<1	0.06	99	**17**	<1	64	7
4V0872RG	323528	12	<0.01	8	<10	1	11	4
4V0872RG	323531	2	0.08	101	<10	6	87	10
4V0872RG	323532	11	<0.01	6	<10	3	14	3
4V0872RG	323533	13	0.15	122	**11**	6	**188**	9
4V0872RG	323535	21	<0.01	36	<10	2	11	7
4V0872RG	323536	6	<0.01	6	<10	2	6	8
4V0872RG	323537	26	0.06	35	<10	9	93	13
4V0872RG	323539	7	<0.01	5	<10	3	23	2
4V0872RG	323540	4	<0.01	13	<10	2	45	4
4V0934RG	TD 79	60	<0.01	1	<10	3	41	2
4V0934RG	TD 80	17	<0.01	4	**16**	2	**1132**	6
	GOLD CLAIM							
4V0872RG/RJ	323527	17	<0.01	13	<10	2	10	7
4V0872RG/RJ	323529	9	<0.01	7	<10	1	5	6
4V0872RG/RJ	323534	26	0.04	47	<10	2	59	17
4V0872RG/RJ	323542	43	<0.01	4	<10	3	6	2
4V0872RG/RJ	323543	4	<0.01	10	<10	3	12	4
	GOLD CLAIM							
4V0971RG	2004T 200	6	<0.01	1	<10	3	<1	<1
4V0971RG	2004T 201	15	<0.01	2	<10	<1	8	1
4V0971RG	2004T 202	11	<0.01	2	<10	2	12	2
4V0971RG	2004T 203	28	<0.01	2	<10	1	11	2
4V0971RG	2004T 204	101	<0.01	2	<10	1	4	1
4V0971RG	2004T 205	22	<0.01	1	<10	1	42	2
4V0971RG	2004T 206	11	<0.01	40	<10	10	141	7
4V0971RG	2004T 207	5	<0.01	3	<10	<1	<1	2
4V0971RG	2004T 208	20	0.12	98	<10	6	**187**	11
4V0971RG	2004T 209	19	<0.01	3	<10	<1	<1	4
4V0971RG	2004T 210	25	<0.01	6	<10	<1	<1	4
4V0971RG	2004T 211	9	<0.01	7	<10	2	3	9

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Certificate Number	Sample No	ICP Sr ppm	ICP Ti %	ICP V ppm	ICP W ppm	ICP Y ppm	ICP Zn ppm	ICP Zr ppm
4V0971RG	2004T 212	15	<0.01	2	<10	3	21	3
4V0971RG	2004T 213	32	<0.01	1	<10	<1	4	1
4V0971RG	2004T 214	20	<0.01	3	<10	<1	76	3
4V0971RG	2004T 214a	43	<0.01	<1	<10	2	68	2
4V0971RG	2004T 215	25	<0.01	7	<10	12	**194**	2
NOTE:		***2***	***<0.01***	***<1***	***<10***	***<1***	***<1***	***<1***
Bold = enhanced values		***101***	***0.15***	***122***	***17***	***12***	***1132***	***17***
		21	***0.09***	***21***	***15***	***3***	***86***	***5***

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — G. E. RAY

APPENDIX 2

GEOCHEMICAL DATA FOR SOIL SAMPLES COLLECTED FROM THE GOLD CLAIMS, 2004

APPENDIX 2: Geochemical data for soil samples collected from the GOLD CLAIMS, 2004

ID Sample No.	Easting	Northing	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm
L16N 2+50W	617470.0	6355024.0	16	0.3	6.77	19	186	0.6	-5	0.99	-1	10	11	7	5.82	0.09	0.42	661	-2	0.04	7	2113	5	-5
L16N 2+25W	617491.4	6355036.2	5	-0.2	7.00	22	141	-0.5	-5	0.57	-1	11	17	10	5.97	0.07	0.56	900	-2	0.04	12	2137	5	5
L16N 2+00W	617512.8	6355048.4	6	-0.2	5.36	25	76	-0.5	-5	1.42	-1	19	11	11	5.57	0.11	0.97	2580	-2	0.05	7	2103	9	-5
L16N 1+75W	617534.2	6355060.6	28	0.9	7.45	33	104	-0.5	-5	0.81	-1	12	10	8	7.45	0.08	0.67	623	-2	0.04	6	1467	3	-5
L16N 1+50W	617555.6	6355072.8	4	-0.2	6.63	24	111	-0.5	-5	0.69	-1	9	13	13	5.02	0.07	0.58	603	-2	0.04	10	1758	4	6
L16N 1+25W	617577.0	6355085.0	32	-0.2	4.28	12	85	-0.5	-5	0.47	-1	11	19	11	4.78	0.05	0.78	678	-2	0.03	15	1003	16	-5
L16N 1+00W	617598.4	6355097.2	15	-0.2	3.78	34	59	0.6	-5	1.93	-1	11	7	19	4.14	0.12	0.83	1019	-2	0.04	8	819	11	-5
L16N 0+75W	617619.8	6355109.4	6	-0.2	3.43	14	58	0.5	-5	2.11	-1	13	11	17	4.88	0.11	0.77	1201	-2	0.05	9	1078	12	-5
L16N 0+50W	617641.2	6355121.6	10	-0.2	3.27	19	99	-0.5	-5	1.24	-1	17	14	21	4.50	0.10	0.85	826	-2	0.03	16	911	18	-5
L16N 0+25W	617662.6	6355133.8	6	0.3	4.00	11	105	-0.5	-5	0.62	-1	11	17	15	4.07	0.07	0.73	599	-2	0.03	17	719	24	-5
L16N 0+00	617684.0	6355146.0	5	-0.2	3.58	12	95	-0.5	-5	0.61	-1	13	17	10	6.41	0.07	1.26	1046	-2	0.04	15	1076	16	-5
L16N 0+25E	617702.4	6355158.7	9	-0.2	6.16	17	131	-0.5	-5	1.04	-1	18	22	18	6.08	0.09	1.00	1045	-2	0.05	23	1507	25	5
L16N 0+50E	617720.8	6355171.4	8	-0.2	3.81	11	91	-0.5	-5	0.64	-1	12	19	17	4.96	0.08	0.92	1025	-2	0.04	15	1559	28	-5
L16N 0+75E	617739.2	6355184.1	4	-0.2	4.23	19	150	-0.5	-5	0.33	-1	10	11	10	6.61	0.06	0.63	762	-2	0.05	8	1394	19	-5
L16N 1+00E	617757.6	6355196.8	10	-0.2	2.58	10	111	-0.5	-5	0.28	-1	12	16	18	8.65	0.07	0.98	852	-2	0.04	15	1732	65	6
L16N 1+25E	617776.0	6355209.5	7	-0.2	4.46	9	93	-0.5	-5	0.24	-1	11	9	14	8.12	0.06	1.02	893	-2	0.04	7	1405	60	5
L16N 1+50E	617794.4	6355222.2	8	-0.2	3.40	11	86	-0.5	-5	0.12	-1	8	17	13	5.38	0.06	0.36	415	-2	0.05	8	817	29	5
L16N 1+75E	617812.8	6355234.9	5	-0.2	2.74	15	87	-0.5	-5	0.23	-1	10	14	14	6.30	0.06	0.94	921	-2	0.04	10	1192	48	-5
L16N 2+00E	617831.2	6355247.6	36	-0.2	2.88	12	118	-0.5	-5	0.61	-1	13	20	106	4.71	0.09	0.92	819	-2	0.03	17	944	39	-5
L16N 2+25E	617849.6	6355260.3	95	-0.2	1.56	6	126	-0.5	-5	0.17	-1	9	3	90	5.00	0.09	0.62	752	10	0.02	5	1062	65	-5
L16N 2+50E	617868.0	6355273.0	56	-0.2	1.58	-5	171	-0.5	-5	0.15	-1	5	3	48	5.11	0.09	0.75	618	5	0.03	3	1100	76	-5
L16N 2+75E	617886.4	6355285.7	39	0.2	2.99	23	338	-0.5	-5	0.12	-1	7	15	59	7.05	0.15	0.81	710	2	0.04	9	1681	69	-5
L16N 3+00E	617904.8	6355298.4	50	-0.2	2.10	-5	301	-0.5	-5	0.12	-1	5	5	31	4.02	0.18	0.56	385	5	0.04	3	904	36	-5
L16N 3+25E	617923.2	6355311.1	51	-0.2	3.60	10	446	-0.5	-5	0.10	-1	5	12	38	6.77	0.16	0.71	574	6	0.05	7	2451	57	-5
L16N 3+50E	617941.6	6355323.8	36	0.2	2.94	-5	211	-0.5	6	0.06	-1	3	9	16	4.58	0.07	0.23	219	6	0.04	5	1445	29	5
L16N 3+75E	617960.0	6355336.5	18	-0.2	1.81	-5	145	-0.5	-5	0.14	-1	2	4	18	3.26	0.06	0.17	168	3	0.03	4	1048	26	-5
L16N 4+00E	617978.4	6355349.2	18	-0.2	0.62	-5	216	-0.5	-5	0.05	-1	-1	-1	4	1.05	0.03	0.05	45	5	0.02	1	941	234	-5
L16N 4+25E	617996.8	6355361.9	46	-0.2	1.59	-5	248	-0.5	-5	0.38	-1	6	4	35	3.27	0.15	0.58	749	-2	0.04	4	1049	29	-5
L16N 4+50E	618015.2	6355374.6	16	-0.2	1.41	-5	429	-0.5	7	0.17	-1	3	2	25	3.49	0.30	0.31	299	3	0.05	1	1141	43	-5
L16N 4+75E	618033.6	6355387.3	10	-0.2	3.22	6	172	-0.5	-5	0.20	-1	8	12	38	4.80	0.07	0.57	798	4	0.03	10	1935	23	-5
L16N 5+00E	618052.0	6355400.0	10	0.3	1.74	-5	96	-0.5	-5	0.12	-1	2	6	13	1.88	0.05	0.10	257	3	0.03	2	1208	23	-5
L16N 5+25E	618074.3	6355411.3	11	-0.2	2.17	-5	222	-0.5	6	0.20	-1	4	6	23	4.42	0.12	0.35	414	-2	0.04	5	1920	34	-5
L16N 5+50E	618096.5	6355422.5	9	-0.2	2.18	-5	99	-0.5	-5	0.20	-1	7	9	18	4.53	0.06	0.49	721	-2	0.03	7	1458	21	7
L16N 5+75E	618118.8	6355433.8	11	-0.2	2.39	-5	141	-0.5	-5	0.28	1	8	7	42	4.06	0.06	0.48	821	-2	0.03	7	1283	41	-5
L16N 6+00E	618141.0	6355445.0	23	-0.2	1.58	-5	139	-0.5	-5	0.35	-1	8	4	24	2.91	0.09	0.57	1373	3	0.03	5	1458	38	-5

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ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L14N 3+00W	617454.0	6354792.0	2	-0.2	4.75	12	61	0.7	-5	1.19	-1	6	6	12	3.70	0.08	0.65	799	-2	0.03	3	1415	19	-5
L14N 2+75W	617475.6	6354805.0	3	-0.2	5.04	14	64	0.7	-5	0.96	-1	6	6	12	3.32	0.06	0.53	756	-2	0.03	4	1201	20	-5
L14N 2+50W	617497.2	6354818.0	2	-0.2	4.35	15	81	0.9	-5	1.30	-1	6	7	12	3.28	0.07	0.66	719	-2	0.04	5	1059	22	-5
L14N 2+25W	617518.8	6354831.0	6	-0.2	3.03	9	44	1.1	-5	1.55	-1	8	5	10	4.03	0.06	0.62	1001	-2	0.04	3	1225	21	-5
L14N 2+00W	617540.3	6354844.0	12	-0.2	4.67	22	92	0.8	-5	1.27	-1	10	8	15	4.09	0.09	0.83	891	-2	0.03	7	913	28	-5
L14N 1+75W	617561.9	6354857.0	4	-0.2	4.01	20	90	0.8	-5	0.54	-1	11	16	18	4.54	0.06	0.82	835	-2	0.03	16	709	40	-5
L14N 1+50W	617583.5	6354870.0	12	0.2	3.43	32	66	1.1	-5	1.61	-1	13	10	28	4.63	0.09	0.74	1225	-2	0.03	7	1300	33	-5
L14N 1+25W	617605.1	6354883.0	6	-0.2	4.31	19	84	1	-5	1.85	-1	8	7	17	4.01	0.10	0.64	823	-2	0.03	8	1214	26	-5
L14N 1+00W	617626.7	6354896.0	4	-0.2	3.08	16	70	0.7	-5	1.03	-1	10	12	20	4.19	0.08	0.84	970	-2	0.03	12	942	32	-5
L14N 0+75W	617648.3	6354909.0	2	-0.2	2.04	12	69	-0.5	-5	0.11	-1	3	4	10	5.02	0.03	0.24	412	-2	0.03	2	907	50	-5
L14N 0+50W	617669.8	6354922.0	40	0.8	3.71	8	52	0.6	-5	0.36	-1	3	3	13	4.78	0.04	0.42	776	3	0.02	1	1238	66	-5
L14N 0+25W	617691.4	6354935.0	2	0.5	3.37	7	71	-0.5	-5	0.12	-1	3	4	8	4.85	0.03	0.32	506	-2	0.02	2	838	49	6
L14N 0+00	617713.0	6354948.0	6	-0.2	3.84	-5	83	0.6	-5	0.22	-1	7	19	15	5.02	0.04	0.54	483	-2	0.03	13	1134	35	5
L14N 0+25E	617734.0	6354957.0	4	-0.2	3.43	6	69	-0.5	-5	0.16	-1	4	12	9	4.44	0.04	0.50	649	-2	0.03	5	826	33	-5
L14N 0+50E	617755.0	6354966.0	8	-0.2	2.73	-5	80	-0.5	-5	0.07	-1	4	15	13	5.25	0.04	0.44	521	2	0.03	8	798	33	-5
L14N 0+75E	617776.0	6354975.0	12	-0.2	2.03	-5	87	-0.5	-5	0.15	-1	7	15	29	5.94	0.05	0.64	761	2	0.02	11	1086	60	-5
L14N 1+00E	617797.0	6354984.0	24	-0.2	2.39	7	98	0.7	-5	0.59	-1	26	3	25	4.69	0.07	0.84	1774	2	0.03	3	1215	56	-5
L14N 1+25E	617816.9	6354996.4	59	0.5	2.89	11	176	-0.5	-5	0.06	-1	3	9	66	5.94	0.07	0.44	434	6	0.03	4	1262	66	7
L14N 1+50E	617836.8	6355008.7	74	-0.2	1.33	-5	220	-0.5	-5	0.18	-1	2	7	56	4.15	0.08	0.47	356	9	0.03	3	780	82	-5
L14N 1+75E	617856.7	6355021.1	88	-0.2	1.54	-5	202	-0.5	-5	0.18	-1	1	5	111	4.56	0.08	0.56	426	23	0.03	3	838	62	-5
L14N 2+00E	617876.6	6355033.4	85	0.4	1.64	-5	168	-0.5	-5	0.07	-1	2	6	111	5.08	0.07	0.54	447	11	0.03	3	1032	66	-5
L14N 2+25E	617896.5	6355045.8	89	-0.2	1.39	7	454	-0.5	-5	0.06	-1	2	3	47	5.96	0.16	0.44	350	17	0.03	2	1324	101	-5
L14N 2+50E	617916.4	6355058.1	151	-0.2	1.65	-5	361	-0.5	-5	0.08	-1	1	3	81	4.88	0.13	0.69	541	14	0.03	1	1026	97	-5
L14N 2+75E	617936.3	6355070.5	139	0.4	2.59	-5	587	-0.5	-5	0.07	-1	-1	3	44	4.97	0.18	0.68	734	21	0.04	1	2480	148	8
L14N 3+00E	617956.2	6355082.8	88	-0.2	1.28	-5	484	-0.5	-5	0.13	-1	-1	3	42	3.90	0.13	0.63	450	14	0.03	3	718	77	-5
L14N 3+25E	617976.1	6355095.2	68	-0.2	1.92	-5	369	-0.5	-5	0.07	-1	-1	3	54	4.02	0.13	0.59	451	15	0.03	3	1346	88	-5
L14N 3+50E	617996.0	6355107.5	9	-0.2	1.30	-5	74	-0.5	-5	0.20	-1	4	8	44	2.47	0.05	0.47	464	4	0.02	4	690	28	-5
L14N 3+75E	618015.9	6355119.9	56	-0.2	2.27	5	82	0.6	-5	0.29	-1	7	13	91	3.35	0.04	0.85	885	4	0.02	12	1218	28	-5
L14N 4+00E	618035.8	6355132.2	75	-0.2	2.15	-5	64	0.5	-5	0.29	-1	8	13	86	3.30	0.04	0.88	849	4	0.02	14	767	28	5
L14N 4+25E	618055.7	6355144.6	46	-0.2	1.21	8	304	-0.5	-5	0.11	-1	2	2	24	3.57	0.23	0.39	331	5	0.04	1	1121	33	-5
L14N 4+50E	618075.6	6355156.9	19	-0.2	1.64	-5	68	-0.5	-5	0.13	-1	5	8	35	2.92	0.03	0.45	446	3	0.02	5	578	21	-5
L14N 4+75E	618095.5	6355169.3	17	-0.2	1.70	9	95	-0.5	-5	0.16	-1	6	11	45	3.64	0.04	0.60	569	4	0.02	9	991	24	-5
L14N 5+00E	618115.4	6355181.6	62	-0.2	1.11	11	493	-0.5	-5	0.09	-1	3	4	32	4.17	0.33	0.37	1176	3	0.06	3	1244	44	-5
L14N 5+25E	618135.3	6355194.0	54	-0.2	0.89	8	422	-0.5	-5	0.12	-1	2	3	26	3.62	0.28	0.38	511	3	0.06	2	1064	36	-5
L14N 5+50E	618155.2	6355206.3	17	-0.2	1.23	7	491	0.5	-5	0.20	-1	4	4	31	3.53	0.23	0.50	488	3	0.05	3	1056	33	-5
L14N 5+75E	618175.1	6355218.7	31	-0.2	1.33	11	699	0.6	-5	0.32	-1	4	5	38	4.91	0.40	0.55	666	4	0.08	5	1071	45	-5
L14N 6+00E	618195.0	6355231.0	36	-0.2	1.53	12	193	0.6	-5	0.65	-1	7	10	41	3.29	0.06	0.78	735	-2	0.02	9	929	28	-5
L14N 6+25E	618218.5	6355244.8	7	-0.2	2.13	9	122	1.1	-5	0.40	-1	8	10	46	3.38	0.05	0.75	1157	-2	0.03	11	1695	31	-5
L14N 6+50E	618242.0	6355258.5	3	-0.2	1.48	7	65	-0.5	-5	0.32	-1	5	6	24	3.05	0.03	0.46	734	-2	0.02	4	984	23	6

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ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L14N 6+75E	618265.5	6355272.3	2	0.2	1.80	12	162	0.6	-5	0.58	-1	7	7	40	3.12	0.05	0.65	943	-2	0.02	7	1454	24	-5
L14N 7+00E	618289.0	6355286.0	1	-0.2	1.50	5	120	0.5	-5	0.53	-1	9	6	33	2.88	0.02	0.80	1550	-2	0.02	5	919	22	-5
L12N 4+00W	617484.0	6354563.0	7	-0.2	1.71	-5	57	-0.5	-5	0.13	-1	2	11	10	2.33	0.03	0.21	236	-2	0.02	4	676	39	6
L12N 3+75W	617505.9	6354575.7	4	-0.2	2.57	-5	52	0.5	-5	1.05	-1	5	8	14	3.72	0.08	0.53	662	-2	0.03	5	950	16	-5
L12N 3+50W	617527.8	6354588.3	6	-0.2	2.49	14	42	0.7	-5	1.57	-1	7	7	14	2.94	0.11	0.60	827	-2	0.03	4	987	11	-5
L12N 3+25W	617549.8	6354601.0	3	-0.2	3.34	-5	52	0.9	-5	1.72	-1	6	6	9	4.74	0.10	0.58	880	-2	0.04	4	1675	15	-5
L12N 3+00W	617571.7	6354613.7	16	-0.2	2.50	12	65	-0.5	-5	0.14	-1	7	16	13	5.51	0.05	0.36	902	-2	0.02	10	1272	35	5
L12N 2+75W	617593.6	6354626.3	6	-0.2	1.37	12	68	-0.5	-5	0.07	-1	5	7	7	3.95	0.03	0.20	390	-2	0.02	3	647	24	6
L12N 2+50W	617615.5	6354639.0	4	-0.2	2.02	-5	71	-0.5	-5	0.13	-1	5	11	12	4.26	0.04	0.38	442	-2	0.03	5	954	19	-5
L12N 2+25W	617637.4	6354651.7	1	0.2	2.85	-5	87	0.6	-5	0.28	-1	4	6	7	4.46	0.04	0.45	670	-2	0.03	6	1059	22	-5
L12N 2+00W	617659.3	6354664.3	1	0.3	2.24	8	74	-0.5	-5	0.14	-1	4	8	8	4.94	0.03	0.44	609	-2	0.03	5	801	29	-5
L12N 1+75W	617681.3	6354677.0	1	0.7	2.76	-5	68	-0.5	-5	0.19	-1	3	9	12	3.94	0.04	0.39	467	-2	0.02	5	1126	21	-5
L12N 1+50W	617703.2	6354689.7	7	0.4	4.91	8	83	0.5	-5	0.39	-1	7	26	19	4.51	0.05	0.69	641	-2	0.03	15	909	28	8
L12N 1+25W	617725.1	6354702.3	1	0.2	2.83	-5	88	-0.5	-5	0.12	-1	5	11	9	4.46	0.03	0.69	729	-2	0.03	8	929	25	-5
L12N 1+00W	617747.0	6354715.0	4	0.5	4.46	11	77	0.7	-5	0.31	-1	6	13	11	4.88	0.04	0.59	758	-2	0.03	7	1105	35	-5
L12N 0+75W	617768.0	6354728.8	6	0.6	2.38	7	83	-0.5	-5	0.13	-1	4	14	12	5.13	0.04	0.50	614	-2	0.03	9	910	38	-5
L12N 0+50W	617789.0	6354742.5	5	0.9	1.96	-5	95	-0.5	-5	0.07	-1	5	11	12	3.64	0.04	0.34	561	-2	0.03	8	633	40	-5
L12N 0+25W	617810.0	6354756.3	28	0.5	0.95	-5	80	-0.5	-5	0.06	-1	2	5	10	2.33	0.04	0.09	158	-2	0.02	3	374	33	-5
L12N 0+00	617831.0	6354770.0	25	-0.2	1.63	14	135	-0.5	-5	0.06	-1	6	15	44	7.34	0.07	0.53	820	2	0.03	9	1253	124	-5
L12N 0+25E	617854.8	6354783.4	35	0.6	1.99	12	176	-0.5	-5	0.15	-1	5	7	78	5.21	0.09	0.62	567	4	0.03	7	1243	61	-5
L12N 0+50E	617878.6	6354796.8	114	0.8	1.89	6	250	-0.5	8	0.34	-1	5	4	185	6.02	0.10	0.64	868	22	0.03	4	1407	180	-5
L12N 0+75E	617902.5	6354810.2	158	0.2	1.42	5	442	0.6	5	0.42	3	4	6	376	5.83	0.15	0.55	630	33	0.04	7	1347	134	-5
L12N 1+00E	617926.3	6354823.6	33	-0.2	2.18	-5	163	-0.5	-5	0.09	-1	8	15	170	6.28	0.07	0.57	534	15	0.03	10	1244	88	-5
L12N 1+25E	617950.1	6354837.0	58	-0.2	1.39	-5	144	-0.5	-5	0.08	-1	4	7	131	4.05	0.05	0.38	308	24	0.03	5	965	50	-5
L12N 1+50E	617973.9	6354850.5	62	0.3	1.99	-5	524	-0.5	8	0.37	2	7	4	359	5.54	0.15	0.45	722	32	0.04	6	1293	166	-5
L12N 1+75E	617997.7	6354863.9	100	0.6	1.79	5	273	-0.5	8	0.23	-1	4	5	328	5.66	0.09	0.30	478	39	0.03	5	1142	113	-5
L12N 2+00E	618021.5	6354877.3	115	-0.2	1.05	-5	205	-0.5	-5	0.04	-1	2	3	36	3.16	0.09	0.11	146	12	0.03	3	814	80	-5
L12N 2+25E	618045.4	6354890.7	280	0.5	1.45	-5	135	-0.5	11	0.03	-1	4	3	232	7.05	0.06	0.31	633	32	0.02	4	2032	130	-5
L12N 2+50E	618069.2	6354904.1	146	0.7	1.82	-5	177	-0.5	-5	0.04	-1	-1	3	77	5.41	0.07	0.29	395	17	0.02	1	1640	122	-5
L12N 2+75E	618093.0	6354917.5	84	0.5	1.84	-5	198	-0.5	-5	0.04	-1	4	6	112	6.55	0.08	0.45	740	28	0.03	4	1651	121	-5
L12N 3+00E	618116.8	6354930.9	137	0.9	3.57	-5	207	0.6	-5	0.05	-1	2	8	187	4.64	0.07	0.51	412	15	0.03	5	1189	66	-5
L12N 3+25E	618140.6	6354944.3	70	0.4	1.43	-5	179	-0.5	-5	0.04	-1	-1	3	39	2.27	0.05	0.17	188	11	0.02	2	833	72	-5
L12N 3+50E	618164.5	6354957.7	86	0.7	1.49	-5	170	-0.5	6	0.04	-1	-1	4	33	3.04	0.05	0.15	366	12	0.02	2	1173	49	-5
L12N 3+75E	618188.3	6354971.1	181	-0.2	1.06	-5	364	-0.5	-5	0.12	-1	-1	1	101	3.92	0.14	0.44	285	30	0.03	1	875	58	-5
L12N 4+00E	618212.1	6354984.5	36	0.5	1.91	-5	667	-0.5	-5	0.29	-1	6	6	60	3.95	0.14	0.48	883	28	0.03	6	1749	76	-5
L12N 4+50E	618235.9	6354998.0	6	-0.2	1.44	-5	151	-0.5	-5	0.20	-1	8	7	26	3.57	0.05	0.42	1802	-2	0.02	6	1904	26	-5
L12N 4+75E	618259.7	6355011.4	3	-0.2	1.80	-5	81	-0.5	-5	0.17	-1	7	6	23	3.56	0.03	0.34	915	-2	0.02	5	986	28	-5
L12N 5+00E	618283.5	6355024.8	32	-0.2	1.55	-5	109	0.6	-5	0.13	-1	5	8	39	3.73	0.05	0.32	707	3	0.02	6	1240	32	-5
L12N 5+50E	618307.4	6355038.2	16	-0.2	1.35	-5	208	-0.5	-5	0.39	2	7	8	27	3.06	0.06	0.60	1398	-2	0.02	8	1647	31	-5

PROFESSIONAL
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ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L12N 5+75E	618331.2	6355051.6	30	0.3	1.33	-5	157	0.6	-5	0.35	1	6	8	45	2.34	0.05	0.35	1659	-2	0.02	8	1922	25	-5
L12N 6+00E	618355.0	6355065.0	78	-0.2	1.46	-5	76	0.6	-5	0.22	1	5	11	46	2.92	0.04	0.54	664	-2	0.02	10	1198	33	-5
L10N 4+00W	617584.0	6354382.0	4	0.3	2.60	6	86	-0.5	-5	0.21	-1	7	18	13	2.84	0.04	0.47	657	-2	0.03	10	1234	15	-5
L10N 3+75W	617605.7	6354394.4	3	-0.2	2.41	9	71	-0.5	-5	0.13	-1	9	22	15	5.03	0.05	0.62	691	-2	0.03	13	696	15	-5
L10N 3+50W	617627.4	6354406.9	11	-0.2	1.79	6	55	-0.5	-5	0.08	-1	5	10	8	2.93	0.03	0.31	409	-2	0.03	6	392	8	-5
L10N 3+25W	617649.1	6354419.3	6	-0.2	4.12	10	67	-0.5	-5	0.49	-1	10	19	20	3.96	0.05	0.72	702	-2	0.03	13	882	16	-5
L10N 3+00W	617670.8	6354431.8	9	-0.2	4.53	10	98	-0.5	-5	0.23	-1	8	30	21	4.15	0.04	0.63	584	-2	0.03	16	1002	13	-5
L10N 2+75W	617692.4	6354444.2	4	-0.2	2.35	8	64	-0.5	5	0.16	-1	12	11	7	5.92	0.04	0.77	2012	-2	0.03	7	1218	16	-5
L10N 2+50W	617714.1	6354456.6	6	0.6	2.45	6	65	-0.5	-5	0.21	-1	8	10	8	5.11	0.04	0.63	960	-2	0.03	8	1019	19	-5
L10N 2+25W	617735.8	6354469.1	6	-0.2	1.89	-5	82	-0.5	-5	0.09	-1	7	14	9	5.49	0.05	0.37	541	-2	0.03	8	1096	17	-5
L10N 2+00W	617757.5	6354481.5	4	0.5	3.36	9	76	-0.5	-5	0.10	-1	7	19	11	5.01	0.05	0.37	486	-2	0.04	11	883	24	-5
L10N 1+75W	617779.2	6354493.9	2	0.5	1.45	14	69	-0.5	-5	0.05	-1	3	9	11	3.30	0.03	0.11	150	2	0.03	4	577	24	-5
L10N 1+50W	617800.9	6354506.4	12	-0.2	3.40	19	98	-0.5	-5	0.14	-1	6	16	25	4.73	0.04	0.49	431	-2	0.03	10	971	29	-5
L10N 1+25W	617822.6	6354518.8	79	-0.2	2.97	9	167	1	6	0.58	-1	17	4	127	5.63	0.07	0.66	884	14	0.03	6	1019	89	-5
L10N 1+00W	617844.3	6354531.3	72	5.3	2.68	24	83	-0.5	-5	0.16	-1	6	10	190	4.90	0.05	0.65	633	-2	0.03	7	956	40	-5
L10N 0+75W	617865.9	6354543.7	32	0.3	2.08	23	86	-0.5	-5	0.26	-1	6	11	130	4.50	0.05	0.73	621	4	0.03	8	732	59	-5
L10N 0+50W	617887.6	6354556.1	146	-0.2	1.60	-5	397	-0.5	6	0.48	-1	4	5	118	5.15	0.17	0.81	485	11	0.04	5	935	64	-5
L10N 0+25W	617909.3	6354568.6	74	0.4	3.10	-5	300	-0.5	-5	0.21	-1	3	4	71	5.25	0.10	0.42	235	11	0.04	4	2041	58	-5
L-10N 0+00	617931.0	6354581.0	75	0.3	2.11	-5	358	0.5	-5	0.22	-1	2	5	105	5.88	0.13	0.67	462	13	0.04	4	1315	76	-5
L-10N 0+25E	617953.3	6354593.4	68	-0.2	2.19	-5	304	-0.5	-5	0.15	-1	3	12	60	6.83	0.12	0.60	423	12	0.03	6	1669	117	-5
L-10N 0+50E	617975.6	6354605.8	108	-0.2	1.64	-5	318	-0.5	-5	0.27	-1	2	4	56	6.38	0.13	0.47	310	13	0.03	3	1460	112	-5
L-10N 0+75E	617997.9	6354618.2	88	0.2	3.53	-5	268	0.6	-5	0.10	-1	-1	3	68	4.82	0.09	0.30	264	10	0.03	3	1237	71	-5
L-10N 1+00E	618020.2	6354630.6	72	0.3	1.91	-5	325	-0.5	-5	0.06	-1	-1	4	27	4.92	0.09	0.19	128	11	0.03	2	1924	97	-5
L-10N 1+25E	618042.5	6354643.0	84	-0.2	2.48	-5	306	0.5	-5	0.39	-1	10	4	93	5.65	0.09	0.51	962	18	0.03	4	1793	70	-5
L-10N 1+50E	618064.8	6354655.3	92	-0.2	1.20	-5	289	-0.5	-5	0.05	-1	-1	2	14	3.34	0.10	0.07	88	21	0.03	1	1080	77	-5
L-10N 1+75E	618087.1	6354667.7	78	-0.2	1.57	-5	163	-0.5	-5	0.02	-1	-1	1	15	4.20	0.08	0.33	211	20	0.03	2	1361	111	-5
L-10N 2+00E	618109.4	6354680.1	83	0.4	2.86	5	277	-0.5	-5	0.02	-1	-1	2	54	6.52	0.09	0.65	505	29	0.04	2	1564	149	-5
L-10N 2+25E	618131.7	6354692.5	64	0.8	2.41	-5	409	-0.5	-5	0.03	-1	-1	3	59	7.13	0.16	0.55	871	24	0.03	3	1944	144	-5
L-10N 2+50E	618154.0	6354704.9	72	0.3	1.07	-5	216	-0.5	16	0.02	-1	1	-1	148	13.71	0.16	0.16	122	51	0.04	-1	2516	81	-5
L-10N 2+75E	618176.3	6354717.3	83	0.3	1.83	-5	331	0.8	-5	0.28	2	1	5	62	3.83	0.11	0.28	212	18	0.03	5	1317	81	-5
L-10N 3+00E	618198.7	6354729.7	78	-0.2	2.42	-5	300	-0.5	-5	0.03	-1	1	5	93	7.41	0.16	0.81	559	24	0.03	4	1853	116	-5
L-10N 3+25E	618221.0	6354742.1	131	0.3	3.24	-5	206	0.6	-5	0.21	-1	6	9	118	6.00	0.11	0.83	727	17	0.03	7	1453	105	-5
L-10N 3+50E	618243.3	6354754.5	246	0.6	3.56	9	177	0.7	-5	0.72	-1	14	7	213	6.57	0.15	0.91	952	21	0.03	10	1388	177	-5
L-10N 3+75E	618265.6	6354766.9	63	1.8	0.54	-5	377	-0.5	15	0.03	-1	-1	-1	78	3.41	0.41	0.05	73	41	0.03	-1	631	230	-5
L-10N 4+00E	618287.9	6354779.3	88	1.5	1.83	-5	357	-0.5	8	0.04	-1	7	3	218	5.43	0.30	0.36	850	31	0.03	2	1363	108	-5
L-10N 4+25E	618310.2	6354791.7	159	1.4	1.94	-5	229	-0.5	-5	0.06	-1	2	3	237	3.80	0.15	0.49	487	28	0.03	3	1323	115	-5
L-10N 4+50E	618332.5	6354804.0	171	0.5	1.89	6	440	-0.5	-5	0.07	-1	-1	2	131	4.33	0.25	0.60	441	32	0.03	3	1180	71	-5
L-10N 4+75E	618354.8	6354816.4	133	-0.2	1.84	-5	516	-0.5	-5	0.14	-1	1	2	118	4.27	0.28	0.74	457	22	0.04	4	1555	53	-5
L-10N 5+00E	618377.1	6354828.8	135	0.3	1.71	-5	285	-0.5	-5	0.25	-1	2	4	47	2.42	0.09	0.46	296	11	0.03	4	1189	62	-5

PROFESSIONAL
PROVINCE 4 OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L-10N 5+25E	618399.4	6354841.2	40	-0.2	2.26	-5	448	0.6	-5	0.80	-1	2	4	56	2.01	0.07	0.49	315	5	0.03	3	1863	43	-5
L-10N 5+50E	618421.7	6354853.6	37	0.5	3.53	7	453	1.9	-5	1.23	-1	12	8	395	4.10	0.11	1.06	1122	5	0.03	9	2471	57	-5
L-10N 5+75E	618444.0	6354866.0	24	-0.2	2.35	-5	109	0.8	-5	0.36	-1	6	7	65	3.37	0.06	0.47	662	-2	0.03	6	1475	39	-5
L-8N 3+50W	617757.0	6354221.0	5	-0.2	4.41	7	84	0.9	-5	1.17	-1	6	4	7	4.50	0.07	0.86	1315	-2	0.04	1	1479	17	-5
L-8N 3+25W	617777.9	6354234.9	8	-0.2	3.88	11	65	0.8	-5	0.74	-1	9	7	18	4.67	0.06	0.66	1260	-2	0.03	4	1313	55	8
L-8N 3+00W	617798.7	6354248.7	4	0.3	3.35	6	77	0.7	-5	0.76	-1	6	5	10	3.99	0.07	0.63	1358	-2	0.04	2	1233	27	-5
L-8N 2+75W	617819.6	6354262.6	8	0.6	3.12	7	94	1	-5	1.53	-1	5	10	15	4.51	0.08	0.80	1032	-2	0.04	6	1118	32	5
L-8N 2+50W	617840.4	6354276.4	9	0.7	3.77	9	104	1.5	-5	1.50	-1	5	9	21	4.15	0.07	0.76	1033	4	0.05	6	1502	34	-5
L-8N 2+25W	617861.3	6354290.3	17	0.6	2.86	9	113	0.9	-5	1.30	-1	5	11	18	4.01	0.06	0.77	1070	4	0.04	8	1414	30	7
L-8N 2+00W	617882.1	6354304.1	24	0.4	2.99	9	96	1	-5	1.15	-1	6	12	21	5.13	0.04	0.76	1003	11	0.05	8	1254	47	-5
L-8N 1+75W	617903.0	6354318.0	15	0.7	2.46	12	95	-0.5	-5	0.06	-1	2	8	24	5.30	0.04	0.21	322	2	0.02	-1	876	52	6
L-8N 1+50W	617923.9	6354331.9	107	0.2	2.39	6	153	0.5	-5	0.47	-1	4	2	110	5.25	0.09	0.73	502	15	0.03	3	1310	98	-5
L-8N 1+25W	617944.7	6354345.7	77	1.9	2.78	-5	165	0.6	-5	0.14	-1	1	3	187	6.32	0.07	0.46	301	14	0.03	-1	1635	113	-5
L-8N 1+00W	617965.6	6354359.6	37	0.2	1.40	15	206	-0.5	-5	0.11	-1	2	8	59	5.16	0.08	0.34	299	4	0.03	4	1059	72	-5
L-8N 0+75W	617986.4	6354373.4	41	0.3	2.42	9	193	0.8	-5	0.13	-1	2	7	278	5.72	0.07	0.43	387	6	0.03	4	1122	66	-5
L-8N 0+50W	618007.3	6354387.3	174	0.2	2.50	-5	282	0.6	-5	0.08	-1	1	6	401	6.20	0.12	0.70	485	14	0.04	5	1220	144	6
L-8N 0+25W	618028.1	6354401.1	78	0.4	4.66	-5	194	0.9	-5	0.08	-1	1	10	217	5.09	0.07	0.37	289	9	0.04	5	1542	81	6
L-8N 0+00	618049.0	6354415.0	119	0.6	3.10	-5	225	-0.5	-5	0.04	-1	2	9	72	7.11	0.08	0.25	379	17	0.03	3	1660	106	6
L-8N 0+25E	618071.5	6354428.2	253	1.0	2.68	-5	239	-0.5	-5	0.07	-1	-1	5	93	7.61	0.07	0.33	240	23	0.03	1	1891	182	-5
L-8N 0+50E	618094.1	6354441.5	316	1.1	3.62	-5	97	0.5	11	0.12	-1	1	2	725	12.81	0.03	0.21	154	18	0.02	1	2078	49	-5
L-8N 0+75E	618116.6	6354454.7	433	0.7	2.57	-5	198	-0.5	-5	0.09	-1	1	5	51	6.16	0.08	0.39	311	20	0.03	2	1897	132	-5
L-8N 1+00E	618139.2	6354467.9	58	0.2	3.93	6	175	0.5	-5	0.06	-1	2	10	37	4.99	0.07	0.35	320	7	0.03	5	1683	57	-5
L-8N 1+25E	618161.7	6354481.1	46	1.0	2.90	7	238	-0.5	-5	0.07	-1	4	11	147	5.76	0.09	0.48	396	8	0.03	7	1555	68	-5
L-8N 1+50E	618184.3	6354494.4	135	-0.2	1.80	9	431	-0.5	-5	0.08	-1	1	5	80	5.52	0.15	0.56	358	19	0.03	2	1405	95	-5
L-8N 1+75E	618206.8	6354507.6	93	0.6	1.59	5	294	0.6	8	0.06	-1	31	4	609	7.18	0.10	0.34	2751	36	0.03	3	1844	73	-5
L-8N 2+00E	618229.4	6354520.8	115	0.5	2.69	12	484	-0.5	-5	0.41	-1	5	7	208	4.83	0.12	0.83	609	19	0.03	6	1526	132	-5
L-8N 2+25E	618251.9	6354534.0	98	0.4	2.68	12	474	-0.5	6	0.07	-1	3	8	138	5.92	0.17	0.64	584	21	0.03	4	2059	149	-5
L-8N 2+50E	618274.5	6354547.3	103	0.3	2.69	11	328	-0.5	-5	0.08	-1	3	8	143	5.96	0.14	0.77	677	22	0.03	5	1921	150	-5
L-8N 2+75E	618297.0	6354560.5	117	0.7	2.64	9	384	-0.5	-5	0.06	-1	21	7	197	6.47	0.17	0.70	1781	26	0.03	5	1967	216	-5
L-8N 3+00E	618319.5	6354573.7	85	0.2	2.52	9	285	-0.5	-5	0.09	-1	3	9	92	5.85	0.15	0.66	554	16	0.03	5	1897	135	-5
L-8N 3+25E	618342.1	6354587.0	143	0.3	1.08	9	163	-0.5	-5	0.02	-1	-1	-1	48	3.66	0.13	0.16	110	18	0.03	-1	697	139	-5
L-8N 3+50E	618364.6	6354600.2	417	1.2	1.96	22	389	-0.5	5	0.10	-1	4	5	208	5.54	0.26	0.66	354	37	0.03	5	1434	117	-5
L-8N 3+75E	618387.2	6354613.4	63	0.4	1.88	11	152	0.6	-5	0.21	3	19	4	196	4.57	0.11	1.10	1785	17	0.03	5	1080	138	-5
L-8N 4+00E	618409.7	6354626.6	87	2.0	2.38	20	480	0.8	7	0.09	-1	12	8	362	6.37	0.36	0.72	1242	126	0.04	7	1953	193	-5
L-8N 4+25E	618432.3	6354639.9	131	0.3	2.23	19	339	0.5	-5	0.22	-1	7	5	220	5.77	0.25	0.76	889	26	0.04	5	1630	191	-5
L-8N 4+50E	618454.8	6354653.1	332	0.2	3.35	20	184	0.7	-5	0.76	-1	6	5	123	5.55	0.10	0.95	796	36	0.04	4	2380	88	-5
L-8N 4+75E	618477.4	6354666.3	130	-0.2	1.83	10	137	-0.5	-5	0.18	-1	3	2	103	4.19	0.10	0.62	536	37	0.03	1	1344	73	-5
L-8N 5+00E	618499.9	6354679.5	124	-0.2	2.17	10	293	-0.5	-5	0.37	-1	2	2	83	4.65	0.15	0.74	536	22	0.04	2	1572	79	-5
L-8N 5+75E	618522.5	6354692.8	10	-0.2	2.58	8	189	1.1	-5	0.89	-1	11	7	92	3.40	0.06	0.98	1146	-2	0.03	7	1261	32	-5

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L-8N 6+00E	618545.0	6354706.0	6	-0.2	2.68	5	79	1	-5	0.77	-1	11	6	135	3.63	0.06	1.06	1391	-2	0.02	5	1301	30	-5
L-6N 4+50W	617783.0	6354034.0	8	0.3	4.67	-5	55	0.9	-5	2.03	-1	12	2	7	3.42	0.14	0.79	1367	-2	0.03	4	887	15	-5
L-6N 4+25W	617803.1	6354046.3	6	-0.2	5.10	-5	71	0.9	-5	1.84	-1	7	4	7	3.49	0.12	0.73	1283	-2	0.03	3	1250	21	10
L-6N 4+00W	617823.1	6354058.7	7	0.3	4.35	-5	67	0.9	-5	1.94	-1	8	4	9	3.40	0.13	0.77	1452	-2	0.03	4	968	20	7
L-6N 3+75W	617843.2	6354071.0	6	-0.2	4.42	-5	70	0.9	-5	2.22	-1	7	3	8	3.10	0.13	0.76	1368	-2	0.03	2	871	21	5
L-6N 3+50W	617863.2	6354083.3	7	0.3	4.97	8	72	0.9	-5	2.10	-1	8	4	8	3.41	0.13	0.72	1438	-2	0.03	3	1120	17	-5
L-6N 3+25W	617883.3	6354095.7	6	0.2	4.92	-5	39	0.8	-5	1.84	-1	6	4	5	3.73	0.09	0.73	1230	-2	0.03	3	1152	18	-5
L-6N 3+00W	617903.3	6354108.0	9	0.2	3.72	8	62	0.9	-5	1.55	-1	9	5	13	3.85	0.09	0.74	1330	-2	0.03	4	1257	42	-5
L-6N 2+75W	617923.4	6354120.3	5	0.2	3.91	19	71	0.9	-5	1.65	-1	9	4	13	4.01	0.10	1.05	1862	4	0.04	4	1124	50	6
L-6N 2+50W	617943.4	6354132.7	7	0.3	4.41	8	63	0.9	-5	1.78	-1	7	6	9	3.70	0.10	0.70	1271	2	0.04	5	1202	21	-5
L-6N 2+25W	617963.5	6354145.0	15	0.5	3.17	11	146	0.9	-5	1.34	-1	5	11	25	4.38	0.08	0.76	871	12	0.04	8	1384	48	-5
L-6N 2+00W	617983.6	6354157.3	13	0.8	3.69	9	197	0.8	-5	1.84	-1	4	2	11	3.34	0.11	0.74	975	4	0.04	2	1038	61	-5
L-6N 1+75W	618003.6	6354169.7	26	0.5	2.57	30	168	-0.5	-5	0.36	-1	5	7	49	5.70	0.10	0.62	732	3	0.03	5	2571	86	-5
L-6N 1+50W	618023.7	6354182.0	30	0.8	2.87	7	169	0.6	-5	0.26	-1	4	3	37	4.03	0.10	0.48	602	5	0.03	3	1320	87	5
L-6N 1+25W	618043.7	6354194.3	23	1.0	3.63	9	116	0.7	-5	0.12	-1	13	5	62	4.95	0.04	0.42	742	3	0.03	3	1293	63	-5
L-6N 1+00W	618063.8	6354206.7	20	0.4	2.07	8	225	-0.5	-5	0.11	-1	10	6	78	6.75	0.09	0.55	545	-2	0.04	6	1395	108	5
L-6N 0+75W	618083.8	6354219.0	10	-0.2	4.46	5	157	-0.5	-5	0.12	-1	6	6	28	5.96	0.06	0.57	707	-2	0.03	5	1320	55	-5
L-6N 0+50W	618103.9	6354231.3	18	-0.2	1.93	-5	260	-0.5	-5	0.08	-1	4	4	52	6.54	0.09	0.42	339	3	0.03	4	2014	94	-5
L-6N 0+25W	618123.9	6354243.7	28	-0.2	1.42	-5	231	-0.5	-5	0.09	-1	5	3	127	4.65	0.09	0.62	422	4	0.04	4	957	142	-5
L-6N 0+00	618144.0	6354256.0	62	3.3	2.06	-5	122	-0.5	-5	0.13	-1	-1	3	171	3.07	0.05	0.54	366	9	0.03	2	878	86	-5
L-6N 0+25E	618164.1	6354268.6	46	0.7	2.58	-5	280	-0.5	-5	0.06	-1	3	3	66	7.06	0.10	0.58	524	8	0.03	2	1496	121	-5
L-6N 0+50E	618184.1	6354281.1	106	0.4	2.43	7	516	-0.5	-5	0.19	-1	5	2	81	5.93	0.18	0.74	467	10	0.04	3	1536	113	5
L-6N 0+75E	618204.2	6354293.7	196	-0.2	2.13	-5	236	-0.5	-5	0.22	-1	8	1	48	6.81	0.16	0.90	608	21	0.04	3	1490	77	-5
L-6N 1+00E	618224.2	6354306.2	571	0.7	2.35	14	431	-0.5	-5	0.39	-1	-1	-1	50	8.66	0.16	0.59	434	49	0.04	2	3969	99	-5
L-6N 1+25E	618244.3	6354318.8	142	0.5	1.43	-5	163	-0.5	-5	0.14	-1	-1	2	35	3.73	0.08	0.20	162	17	0.03	-1	1368	83	-5
L-6N 1+50E	618264.3	6354331.3	62	0.8	1.85	-5	365	-0.5	-5	0.20	1	7	8	88	5.23	0.14	0.40	1002	15	0.03	6	1969	118	6
L-6N 1+75E	618284.4	6354343.9	83	0.7	2.14	-5	307	-0.5	-5	0.19	-1	3	9	121	4.73	0.15	0.64	535	17	0.03	8	1563	126	-5
L-6N 2+00E	618304.4	6354356.4	68	0.7	2.71	-5	230	0.6	-5	0.12	-1	3	8	94	4.44	0.12	0.46	456	13	0.03	6	1485	86	6
L-6N 2+25E	618324.5	6354369.0	70	0.7	2.41	-5	345	-0.5	-5	0.07	-1	3	7	84	4.75	0.16	0.42	1751	12	0.03	4	1677	96	-5
L-6N 2+50E	618344.5	6354381.5	96	0.6	2.14	-5	302	-0.5	-5	0.08	-1	4	4	117	4.55	0.19	0.62	550	13	0.03	2	1138	106	6
L-6N 2+75E	618364.6	6354394.1	68	0.4	2.33	6	299	-0.5	-5	0.09	-1	2	7	119	4.92	0.17	0.64	502	13	0.03	5	1230	113	-5
L-6N 3+00E	618384.6	6354406.6	23	0.4	1.98	-5	222	-0.5	-5	0.12	-1	7	7	77	4.03	0.11	0.47	1117	8	0.03	3	1136	78	-5
L-6N 3+25E	618404.7	6354419.2	45	0.7	2.24	-5	288	-0.5	-5	0.13	-1	3	5	98	3.69	0.18	0.40	651	12	0.04	3	1544	79	-5
L-6N 3+50E	618424.7	6354431.7	46	1.3	2.92	5	323	0.5	-5	0.09	-1	2	8	133	5.35	0.15	0.74	635	12	0.03	7	1679	296	-5
L-6N 3+75E	618444.8	6354444.3	35	-0.2	0.92	9	487	-0.5	-5	0.17	-1	1	2	36	3.87	0.45	0.25	252	8	0.05	2	1137	222	-5
L-6N 4+00E	618464.8	6354456.8	45	0.3	1.33	6	573	-0.5	-5	0.19	-1	1	2	58	5.23	0.63	0.34	328	8	0.07	1	1354	326	-5
L-6N 4+25E	618484.9	6354469.4	24	-0.2	1.54	8	501	-0.5	7	0.27	-1	3	-1	24	5.70	0.52	0.32	287	-2	0.19	-1	1587	99	-5
L-6N 4+50E	618504.9	6354481.9	81	0.2	0.57	6	385	-0.5	-5	0.09	-1	-1	-1	19	4.84	0.64	0.16	201	7	0.07	-1	995	156	-5
L-6N 4+75E	618525.0	6354494.5	109	-0.2	1.86	6	457	0.6	-5	0.86	-1	6	1	20	3.70	0.29	0.74	546	3	0.05	2	1133	79	-5

PROFESSIONAL
PROVINCE 6 OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L-6N 5+00E	618545.0	6354507.0	6	-0.2	2.90	-5	181	0.8	-5	1.51	-1	9	4	20	2.80	0.10	0.99	851	-2	0.03	3	1478	12	8
L-4N 4+00W	617905.0	6353884.0	7	-0.2	4.49	5	88	0.7	-5	2.97	-1	7	2	10	2.51	0.14	0.67	1114	-2	0.04	3	821	17	-5
L-4N 3+75W	617931.7	6353899.6	14	0.4	3.71	6	151	0.7	-5	2.14	-1	10	2	14	3.25	0.17	0.62	1288	-2	0.03	3	829	60	-5
L-4N 3+50W	617958.4	6353915.2	12	0.4	3.65	8	146	0.7	-5	2.14	-1	9	2	12	3.47	0.17	0.72	1249	-2	0.03	3	862	74	-5
L-4N 3+25W	617985.1	6353930.8	8	0.5	3.93	6	168	0.8	-5	1.94	-1	8	3	12	3.48	0.16	0.74	1251	-2	0.03	4	1020	62	-5
L-4N 2+75W	618011.8	6353946.5	13	-0.2	3.15	-5	92	0.5	-5	2.17	-1	8	2	12	2.39	0.11	0.55	963	-2	0.03	3	701	37	-5
L-4N 2+50W	618038.5	6353962.1	11	-0.2	3.93	-5	78	0.6	-5	2.67	-1	7	2	13	2.56	0.12	0.57	933	-2	0.04	3	838	36	-5
L-4N 2+00W	618065.2	6353977.7	6	0.2	3.48	-5	75	0.5	-5	1.96	-1	6	3	10	2.45	0.10	0.61	811	-2	0.04	4	824	27	-5
L-4N 1+50W	618091.8	6353993.3	34	-0.2	3.14	12	134	0.7	-5	0.64	-1	13	5	98	4.64	0.10	0.75	1182	2	0.03	6	1087	70	-5
L-4N 1+25W	618118.5	6354008.9	18	0.5	4.25	6	110	-0.5	-5	0.15	-1	7	4	30	3.97	0.04	0.34	508	-2	0.03	4	1433	40	-5
L-4N 1+00W	618145.2	6354024.5	212	0.6	2.13	5	404	-0.5	-5	0.10	-1	3	3	104	5.97	0.30	0.39	347	16	0.05	4	1441	141	-5
L-4N 0+75W	618171.9	6354040.2	97	0.3	1.85	6	389	-0.5	9	0.16	-1	4	3	76	6.73	0.32	0.51	367	11	0.04	5	1548	197	-5
L-4N 0+50W	618198.6	6354055.8	48	0.3	2.09	-5	231	-0.5	5	0.07	-1	2	4	42	4.33	0.11	0.29	339	7	0.03	3	1163	109	-5
L-4N 0+25W	618225.3	6354071.4	14	0.5	2.39	8	188	-0.5	-5	0.10	-1	5	8	22	6.74	0.07	0.50	615	-2	0.03	7	1535	86	-5
L-4N 0+00	618252.0	6354087.0	37	0.2	3.75	10	195	-0.5	6	0.40	-1	6	5	50	4.76	0.11	0.66	600	-2	0.03	4	1285	129	-5
L-4N 0+25E	618274.1	6354099.0	42	0.3	3.51	-5	202	-0.5	-5	0.32	-1	3	5	72	3.77	0.11	0.32	168	6	0.03	6	2422	102	-5
L-4N 0+50E	618296.3	6354111.0	75	-0.2	3.05	-5	227	-0.5	6	0.69	-1	6	5	62	6.80	0.16	0.68	514	5	0.04	6	1916	94	-5
L-4N 0+75E	618318.4	6354123.0	112	-0.2	2.91	-5	438	-0.5	8	0.63	-1	7	6	115	7.15	0.30	0.59	426	13	0.05	7	1662	223	-5
L-4N 1+00E	618340.5	6354135.0	95	0.3	1.90	-5	248	-0.5	10	0.21	-1	6	6	69	8.30	0.17	0.58	409	13	0.04	8	1978	258	-5
L-4N 1+25E	618362.6	6354147.0	63	-0.2	1.68	-5	270	-0.5	10	0.12	-1	5	5	52	9.23	0.16	0.62	392	6	0.04	6	2155	173	-5
L-4N 1+50E	618384.8	6354159.0	207	-0.2	1.80	-5	399	-0.5	6	0.09	-1	5	7	93	5.68	0.24	0.60	433	12	0.04	7	1506	110	-5
L-4N 1+75E	618406.9	6354171.0	101	-0.2	2.29	-5	351	-0.5	-5	0.13	-1	6	13	64	5.74	0.17	0.72	377	11	0.04	14	1614	97	-5
L-4N 2+00E	618429.0	6354183.0	158	-0.2	2.16	-5	450	-0.5	7	0.07	-1	4	8	104	6.51	0.27	0.66	471	14	0.04	8	1681	167	-5
L-4N 2+25E	618451.1	6354195.0	170	-0.2	2.47	-5	407	-0.5	7	0.06	-1	4	6	87	5.20	0.22	0.47	348	13	0.04	6	1849	100	-5
L-4N 2+50E	618473.3	6354207.0	153	-0.2	1.44	-5	338	-0.5	10	0.04	-1	5	11	57	9.05	0.22	0.42	250	7	0.05	13	1788	119	-5
L-4N 2+75E	618495.4	6354219.0	84	-0.2	1.10	-5	325	-0.5	10	0.05	-1	3	5	53	6.55	0.19	0.42	226	18	0.04	7	1692	93	-5
L-4N 3+00E	618517.5	6354231.0	179	-0.2	1.76	-5	300	-0.5	-5	0.13	-1	6	6	114	5.42	0.22	0.75	487	28	0.04	9	1337	108	-5
L-4N 3+25E	618539.6	6354243.0	203	-0.2	2.66	10	347	-0.5	-5	0.07	-1	7	5	89	8.46	0.27	1.11	343	108	0.04	7	2220	127	-5
L-4N 3+50E	618561.8	6354255.0	151	-0.2	2.86	-5	371	-0.5	-5	0.11	-1	10	8	118	6.71	0.24	1.10	638	22	0.04	9	1904	83	-5
L-4N 3+75E	618583.9	6354267.0	82	0.7	3.70	-5	430	0.6	-5	1.54	-1	11	6	72	4.17	0.15	1.11	809	7	0.03	8	1307	61	-5
L-4N 4+00E	618606.0	6354279.0	49	-0.2	2.21	-5	550	-0.5	-5	0.30	-1	8	25	81	4.84	0.17	0.79	436	8	0.04	26	1292	70	-5
L-2N 2+25W	618167.0	6353814.0	8	-0.2	3.43	-5	36	0.6	-5	2.39	-1	5	2	8	1.88	0.11	0.50	787	-2	0.04	2	775	10	-5
L-2N 2+00W	618193.0	6353829.0	15	-0.2	4.33	10	49	0.8	-5	2.85	-1	9	2	13	2.89	0.15	0.66	1233	-2	0.04	3	792	31	-5
L-2N 1+75W	618219.0	6353844.0	7	-0.2	3.86	13	63	0.8	-5	2.47	-1	8	2	13	3.32	0.18	0.61	1259	-2	0.04	3	839	43	-5
L-2N 1+25W	618245.0	6353859.0	5	-0.2	3.48	9	75	0.7	-5	2.35	-1	8	2	13	2.64	0.15	0.57	1186	-2	0.04	3	698	28	-5
L-2N 1+00W	618271.0	6353874.0	4	-0.2	4.00	7	70	0.8	-5	2.60	-1	6	2	11	2.24	0.18	0.47	848	-2	0.04	3	748	31	-5
L-2N 0+75W	618297.0	6353889.0	54	-0.2	3.32	8	162	-0.5	-5	1.07	-1	11	9	53	4.24	0.15	0.79	901	3	0.04	12	1573	96	-5
L-2N 0+25W	618323.0	6353904.0	19	0.2	2.76	10	142	-0.5	-5	0.59	-1	11	6	51	5.60	0.12	0.89	829	3	0.03	8	1704	204	-5
L-2N 0+00W	618349.0	6353919.0	48	-0.2	2.94	10	200	-0.5	-5	0.54	-1	13	8	71	5.97	0.19	0.86	844	5	0.04	10	1996	190	-5

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L-2N 0+25E	618371.0	6353932.6	41	-0.2	2.98	11	233	-0.5	8	0.47	-1	13	6	83	7.26	0.18	0.76	772	3	0.04	7	2162	331	-5
L-2N 0+50E	618393.0	6353946.2	50	-0.2	2.03	10	264	-0.5	9	0.19	-1	7	3	75	7.07	0.21	0.69	550	3	0.04	5	1911	207	-5
L-2N 0+75E	618415.0	6353959.8	51	0.4	1.92	13	304	-0.5	6	0.22	-1	7	3	43	6.51	0.24	0.71	496	4	0.05	4	1785	292	-5
L-2N 1+00E	618437.0	6353973.5	15	0.3	1.60	38	326	-0.5	6	0.12	-1	7	3	16	6.03	0.22	1.00	551	9	0.05	3	1395	180	7
L-2N 1+25E	618459.0	6353987.1	25	-0.2	2.39	19	442	-0.5	5	0.21	-1	9	4	42	9.96	0.26	0.74	490	-2	0.07	5	3079	303	8
L-2N 1+50E	618481.0	6354000.7	77	-0.2	2.88	9	412	-0.5	6	0.22	-1	8	6	62	6.94	0.29	0.73	490	6	0.06	7	2265	140	-5
L-2N 1+75E	618503.0	6354014.3	106	-0.2	2.33	6	577	-0.5	9	0.16	-1	5	5	65	6.45	0.53	0.54	322	8	0.08	6	1888	132	-5
L-2N 2+00E	618525.0	6354027.9	354	0.5	1.21	-5	432	-0.5	7	0.04	-1	2	1	134	5.07	0.64	0.42	267	11	0.05	3	1123	100	-5
L-2N 2+25E	618547.0	6354041.5	197	0.4	0.99	-5	454	-0.5	-5	0.04	-1	2	-1	112	4.54	0.57	0.30	172	9	0.05	2	948	142	-5
L-2N 2+50E	618569.0	6354055.2	256	0.4	1.25	-5	492	-0.5	-5	0.07	-1	2	2	170	4.30	0.56	0.30	218	31	0.07	4	936	74	-5
L-2N 2+75E	618591.0	6354068.8	224	0.3	1.56	-5	631	-0.5	7	0.19	-1	3	1	171	5.03	0.67	0.34	280	30	0.09	2	1065	84	-5
L-2N 3+25E	618613.0	6354082.4	54	-0.2	2.68	10	196	-0.5	-5	1.49	-1	7	3	36	1.93	0.17	0.66	584	4	0.03	5	856	5	-5
L-0N 2+50W	618247.0	6353634.0	8	-0.2	4.23	9	38	0.6	-5	2.87	-1	9	3	11	2.30	0.15	0.34	1216	-2	0.05	3	767	25	-5
L-0 2+25W	618267.1	6353645.8	14	-0.2	3.51	7	127	1	-5	2.25	-1	11	1	17	2.98	0.19	0.52	1235	-2	0.04	3	768	28	-5
L-0 2+00W	618287.2	6353657.6	6	-0.2	4.04	8	74	0.8	-5	2.70	-1	7	2	12	2.52	0.21	0.54	1029	-2	0.04	2	827	36	-5
L-0 1+75W	618307.3	6353669.4	4	-0.2	5.09	8	46	0.8	-5	3.61	-1	8	3	14	3.03	0.16	0.77	1183	-2	0.05	4	1171	55	-5
L-0 1+50W	618327.4	6353681.2	5	-0.2	4.65	-5	34	0.8	-5	3.24	-1	5	2	10	2.10	0.16	0.52	801	-2	0.05	3	752	31	-5
L-0 1+25W	618347.5	6353693.0	4	-0.2	2.88	13	63	-0.5	-5	1.76	-1	9	2	8	3.52	0.20	0.55	939	-2	0.05	2	892	19	-5
L-0 1+00W	618367.6	6353704.8	27	0.8	3.49	13	183	0.6	-5	1.26	-1	9	3	36	4.27	0.22	0.45	1353	-2	0.03	5	1089	302	-5
L-0 0+75W	618387.7	6353716.6	19	0.7	0.72	24	115	-0.5	13	0.15	-1	2	-1	12	2.49	0.14	0.24	320	3	0.03	2	466	127	-5
L-0 0+50W	618407.8	6353728.4	22	2.2	3.06	10	73	-0.5	-5	1.53	-1	7	2	77	4.48	0.13	0.48	948	-2	0.03	4	990	515	-5
L-0 0+25W	618427.9	6353740.2	14	-0.2	1.59	23	105	-0.5	-5	0.26	-1	6	2	44	5.38	0.13	0.46	513	-2	0.03	4	1216	135	-5
L-0 0+00	618448.0	6353752.0	78	0.4	1.15	5	370	-0.5	-5	0.07	-1	3	2	101	4.49	0.43	0.44	333	13	0.05	4	942	146	-5
L-0 0+25E	618468.4	6353762.8	119	0.3	0.98	-5	358	-0.5	-5	0.06	-1	3	2	119	4.18	0.41	0.37	295	16	0.06	3	906	149	-5
L-0 0+50E	618488.9	6353773.6	68	-0.2	1.83	7	450	-0.5	6	0.06	-1	5	5	64	5.64	0.34	0.53	495	6	0.04	5	1611	128	-5
L-0 0+75E	618509.3	6353784.4	130	-0.2	1.29	8	450	-0.5	-5	0.06	-1	4	3	113	5.11	0.42	0.56	382	12	0.05	4	1305	167	-5
L-0 1+00E	618529.7	6353795.1	186	0.6	1.47	-5	536	-0.5	-5	0.12	-1	3	2	147	5.03	0.62	0.35	307	31	0.08	3	1167	111	-5
L-0 1+25E	618550.1	6353805.9	174	0.3	1.26	-5	467	-0.5	-5	0.12	-1	2	1	125	3.72	0.44	0.29	268	19	0.05	3	1101	66	-5
L-0 1+50E	618570.6	6353816.7	237	0.3	1.14	-5	404	-0.5	-5	0.08	-1	3	2	111	3.45	0.36	0.18	978	17	0.04	2	1317	54	-5
L-0 1+75E	618591.0	6353827.5	346	0.2	1.37	-5	509	-0.5	-5	0.24	-1	3	2	184	4.79	0.63	0.43	318	38	0.06	3	860	59	-5
L-0 2+00E	618611.4	6353838.3	151	-0.2	1.65	-5	528	-0.5	-5	0.30	-1	4	1	121	4.04	0.49	0.49	323	36	0.06	3	1145	55	-5
L-0 2+25E	618631.9	6353849.1	179	-0.2	1.29	-5	495	-0.5	-5	0.38	-1	5	2	103	4.24	0.52	0.48	299	20	0.07	4	818	53	-5
L-0 2+50E	618652.3	6353859.9	312	0.3	1.21	-5	468	-0.5	-5	0.21	-1	2	-1	184	4.86	0.68	0.34	215	24	0.08	2	982	82	-5
L-0 2+75E	618672.7	6353870.6	335	-0.2	1.04	-5	430	-0.5	-5	0.28	-1	3	1	171	4.80	0.67	0.40	210	20	0.06	3	909	55	-5
L-0 3+00E	618693.1	6353881.4	218	-0.2	1.55	-5	568	-0.5	-5	0.71	-1	5	1	113	4.57	0.58	0.42	350	15	0.07	3	896	50	-5
L-0 3+25E	618713.6	6353892.2	274	0.6	1.16	-5	394	-0.5	5	0.12	-1	2	-1	310	6.04	0.90	0.36	192	22	0.10	2	925	95	-5
L-0 3+50E	618734.0	6353903.0	391	0.7	1.30	-5	484	-0.5	5	0.06	-1	2	-1	288	6.12	0.82	0.28	162	26	0.07	2	849	62	-5
L-2S 2+50W	618329.0	6353463.0	8	-0.2	3.77	-5	146	0.6	-5	1.35	-1	10	9	14	3.34	0.11	0.77	1354	-2	0.04	10	1368	16	-5
L-2S 2+25W	618353.2	6353477.0	4	-0.2	4.45	8	196	1.3	-5	1.21	-1	12	12	17	3.28	0.10	0.67	1735	-2	0.05	14	2325	27	-5

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ID Sample No.	Easting	Northing	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb
L-2S 2+00W	618377.4	6353491.0	6	-0.2	3.34	-5	147	-0.5	-5	0.78	-1	11	31	20	3.48	0.08	0.84	662	-2	0.04	40	927	16	-5
L-2S 1+75W	618401.7	6353505.0	5	-0.2	4.43	6	232	0.8	-5	1.53	-1	12	10	22	3.83	0.14	0.79	1478	-2	0.05	11	1719	32	-5
L-2S 1+50W	618425.9	6353519.0	11	-0.2	4.92	6	174	0.8	-5	0.89	-1	11	16	46	4.02	0.12	0.64	884	-2	0.05	18	1313	37	-5
L-2S 1+25W	618450.1	6353533.0	8	-0.2	4.29	7	179	0.8	-5	1.65	-1	11	13	28	3.73	0.18	0.83	1270	-2	0.04	16	1424	37	-5
L-2S 1+00W	618474.3	6353547.0	4	-0.2	4.21	5	185	0.6	-5	0.49	-1	7	10	17	4.01	0.08	0.47	1656	-2	0.05	8	1503	32	-5
L-2S 0+75W	618498.6	6353561.0	6	-0.2	4.31	7	155	-0.5	-5	0.75	-1	9	15	19	3.80	0.10	0.48	969	-2	0.05	12	1597	34	-5
L-2S 0+50W	618522.8	6353575.0	238	0.2	1.80	5	429	-0.5	-5	0.19	-1	6	5	168	4.35	0.31	0.57	405	13	0.05	6	1109	71	-5
L-2S 0+25E	618568.6	6353601.5	281	0.2	1.62	-5	498	-0.5	-5	0.11	-1	5	3	195	4.68	0.39	0.52	342	15	0.06	5	1074	92	-5
L-2S 0+50E	618590.3	6353614.0	280	0.7	0.97	-5	329	-0.5	-5	0.08	-1	3	3	183	4.14	0.36	0.39	225	21	0.05	4	1032	179	-5
L-2S 0+75E	618611.9	6353626.5	252	0.8	1.24	-5	395	-0.5	-5	0.12	-1	4	6	180	4.44	0.40	0.52	317	23	0.06	8	1029	118	-5
L-2S 1+00E	618633.5	6353639.0	197	0.8	1.03	-5	335	-0.5	-5	0.10	-1	3	3	156	4.15	0.44	0.39	206	27	0.06	4	1068	107	-5
L-2S 1+25E	618655.1	6353651.5	139	1.4	1.56	-5	448	-0.5	-5	0.06	-1	4	3	383	6.39	0.51	0.56	470	28	0.06	4	1703	210	-5
L-2S 1+50E	618676.8	6353664.0	218	0.9	1.55	-5	388	-0.5	-5	0.09	-1	4	6	147	4.42	0.43	0.44	244	32	0.07	7	1200	141	-5
L-2S 1+75E	618698.4	6353676.5	243	0.7	0.81	-5	314	-0.5	-5	0.12	-1	3	2	131	4.20	0.46	0.32	171	27	0.06	3	767	82	-5
L-2S 2+00E	618720.0	6353689.0	265	0.6	1.01	-5	444	-0.5	-5	0.17	-1	3	2	181	4.89	0.55	0.36	192	34	0.09	3	1050	171	-5

PROFESSIONAL
PROVINCE OF
G. E. RAY
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GEOSCIENTIST

APPENDIX

ID Sample No.	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
L16N 2+50W	2	-10	94	0.04	82	-10	6	81	5
L16N 2+25W	4	-10	52	0.08	106	-10	6	82	9
L16N 2+00W	4	-10	123	0.08	117	-10	8	113	7
L16N 1+75W	6	-10	84	0.09	154	-10	8	116	12
L16N 1+50W	3	-10	63	0.06	99	-10	6	85	10
L16N 1+25W	4	-10	38	0.07	101	-10	6	101	5
L16N 1+00W	4	-10	170	0.04	74	-10	10	65	6
L16N 0+75W	5	-10	148	0.04	119	-10	17	77	4
L16N 0+50W	4	-10	102	0.08	92	-10	8	100	5
L16N 0+25W	4	-10	63	0.05	82	-10	5	89	6
L16N 0+00	4	-10	52	0.09	144	-10	6	118	4
L16N 0+25E	5	-10	89	0.11	115	-10	8	168	12
L16N 0+50E	2	-10	65	0.08	113	-10	7	116	3
L16N 0+75E	2	-10	46	0.08	165	-10	4	80	3
L16N 1+00E	2	-10	28	0.11	145	-10	4	112	5
L16N 1+25E	5	-10	25	0.12	130	13	5	142	8
L16N 1+50E	3	-10	18	0.08	136	-10	4	98	3
L16N 1+75E	3	-10	23	0.07	128	-10	4	110	3
L16N 2+00E	5	-10	65	0.06	86	-10	6	117	5
L16N 2+25E	3	-10	37	0.01	54	-10	11	162	2
L16N 2+50E	4	-10	55	0.03	69	-10	5	121	3
L16N 2+75E	2	-10	47	0.06	105	-10	5	114	3
L16N 3+00E	2	-10	47	0.01	47	-10	4	82	2
L16N 3+25E	2	-10	44	0.04	95	-10	4	90	4
L16N 3+50E	-1	-10	19	0.03	56	-10	3	54	4
L16N 3+75E	-1	-10	34	0.01	65	-10	1	35	1
L16N 4+00E	-1	-10	445	-0.01	14	-10	2	14	-1
L16N 4+25E	3	-10	117	-0.01	63	-10	6	93	2
L16N 4+50E	2	-10	200	-0.01	49	-10	3	49	2
L16N 4+75E	2	-10	37	0.04	84	-10	4	97	2
L16N 5+00E	-1	-10	31	-0.01	41	-10	2	25	1
L16N 5+25E	-1	-10	90	0.02	65	-10	2	57	3
L16N 5+50E	-1	-10	35	0.02	73	-10	3	81	3
L16N 5+75E	-1	-10	59	0.03	68	-10	5	85	2
L16N 6+00E	1	-10	76	0.02	51	-10	3	89	2

PROFESSIONAL
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GEOSCIENTIST

ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L14N 3+00W	2	-10	108	0.03	84	-10	7	77	3
L14N 2+75W	2	-10	89	0.03	68	-10	6	69	3
L14N 2+50W	3	-10	157	0.03	77	-10	7	69	4
L14N 2+25W	4	-10	115	0.02	99	-10	16	63	4
L14N 2+00W	4	-10	121	0.02	94	-10	7	93	6
L14N 1+75W	4	-10	51	0.03	100	-10	8	141	8
L14N 1+50W	4	-10	132	0.04	85	-10	15	80	4
L14N 1+25W	4	-10	142	0.08	85	-10	7	149	8
L14N 1+00W	3	-10	84	0.07	79	-10	6	102	7
L14N 0+75W	-1	-10	16	0.07	98	-10	2	49	3
L14N 0+50W	2	-10	41	0.06	60	-10	3	75	4
L14N 0+25W	2	-10	11	0.04	83	-10	2	89	5
L14N 0+00	2	-10	21	0.05	94	-10	3	95	4
L14N 0+25E	2	-10	17	0.04	81	-10	3	82	6
L14N 0+50E	2	-10	13	0.04	100	-10	2	74	3
L14N 0+75E	2	-10	17	0.07	104	-10	3	100	4
L14N 1+00E	5	-10	58	0.05	80	-10	12	188	4
L14N 1+25E	2	-10	21	0.06	86	-10	3	87	4
L14N 1+50E	1	-10	39	0.05	85	-10	3	123	2
L14N 1+75E	1	-10	34	0.04	94	-10	4	191	2
L14N 2+00E	-1	-10	20	0.04	72	-10	4	117	3
L14N 2+25E	-1	-10	41	0.05	104	-10	2	85	3
L14N 2+50E	3	-10	43	0.04	74	-10	7	137	2
L14N 2+75E	-1	-10	139	0.01	58	-10	3	109	3
L14N 3+00E	1	-10	38	0.02	55	-10	5	113	2
L14N 3+25E	-1	-10	28	-0.01	58	-10	2	128	2
L14N 3+50E	-1	-10	29	0.01	52	-10	2	78	1
L14N 3+75E	2	-10	32	0.02	55	-10	4	122	3
L14N 4+00E	3	-10	32	0.02	57	-10	5	128	2
L14N 4+25E	1	-10	93	-0.01	32	-10	4	55	2
L14N 4+50E	1	-10	18	0.02	51	-10	2	86	2
L14N 4+75E	-1	-10	21	0.02	60	-10	3	107	2
L14N 5+00E	1	-10	111	-0.01	36	-10	6	54	2
L14N 5+25E	2	-10	109	-0.01	28	-10	3	59	3
L14N 5+50E	2	-10	183	-0.01	37	-10	5	77	2
L14N 5+75E	3	-10	139	-0.01	40	-10	8	83	3
L14N 6+00E	4	-10	43	0.02	65	-10	16	126	2
L14N 6+25E	2	-10	36	0.02	61	-10	10	191	5
L14N 6+50E	-1	-10	42	-0.01	67	-10	2	116	2

PROFESSIONAL
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ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L14N 6+75E	-1	-10	55	-0.01	65	-10	5	97	2
L14N 7+00E	4	-10	31	-0.01	54	-10	11	104	2
L12N 4+00W	-1	-10	21	0.04	58	-10	3	39	2
L12N 3+75W	2	-10	77	0.02	87	-10	5	63	2
L12N 3+50W	4	-10	105	0.01	56	-10	13	59	3
L12N 3+25W	3	-10	123	0.03	131	-10	9	69	4
L12N 3+00W	1	-10	15	0.09	114	-10	3	59	5
L12N 2+75W	-1	-10	21	0.07	128	-10	2	45	2
L12N 2+50W	-1	-10	21	0.03	95	-10	2	60	3
L12N 2+25W	1	-10	24	0.03	80	-10	4	91	3
L12N 2+00W	1	-10	21	0.05	122	-10	2	59	3
L12N 1+75W	-1	-10	20	0.03	76	-10	3	56	2
L12N 1+50W	4	-10	35	0.03	81	-10	4	98	12
L12N 1+25W	1	-10	14	0.02	93	-10	3	89	3
L12N 1+00W	3	-10	26	0.05	85	-10	4	82	11
L12N 0+75W	-1	-10	17	0.05	106	-10	3	82	3
L12N 0+50W	-1	-10	17	0.05	83	-10	3	71	2
L12N 0+25W	-1	-10	17	0.05	69	-10	1	30	1
L12N 0+00	1	-10	18	0.11	124	-10	2	93	5
L12N 0+25E	2	-10	33	0.06	71	-10	5	138	4
L12N 0+50E	1	-10	30	-0.01	90	14	9	304	4
L12N 0+75E	1	-10	53	0.01	79	15	25	427	4
L12N 1+00E	1	-10	30	0.08	107	11	3	211	4
L12N 1+25E	-1	-10	26	0.02	78	-10	2	231	2
L12N 1+50E	2	-10	57	-0.01	67	14	13	456	3
L12N 1+75E	-1	-10	33	-0.01	70	14	13	456	3
L12N 2+00E	-1	-10	12	-0.01	86	-10	2	63	2
L12N 2+25E	1	-10	8	-0.01	65	-10	3	324	4
L12N 2+50E	-1	-10	8	0.01	98	-10	2	130	3
L12N 2+75E	-1	-10	17	0.03	104	-10	2	197	3
L12N 3+00E	2	-10	20	0.02	51	-10	5	130	9
L12N 3+25E	-1	-10	24	-0.01	43	-10	2	47	1
L12N 3+50E	-1	-10	23	-0.01	43	-10	2	39	2
L12N 3+75E	4	-10	72	0.03	48	-10	5	90	5
L12N 4+00E	-1	-10	111	-0.01	65	-10	6	147	2
L12N 4+50E	-1	-10	26	-0.01	65	-10	3	118	2
L12N 4+75E	-1	-10	20	-0.01	78	-10	3	100	2
L12N 5+00E	-1	-10	17	0.02	57	-10	6	109	2
L12N 5+50E	-1	-10	35	0.01	52	-10	4	177	2

PROFESSIONAL PROVINCE OF G. E. RAY BRITISH COLUMBIA GEOSCIENTIST

ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L12N 5+75E	-1	-10	27	-0.01	43	-10	13	107	1
L12N 6+00E	1	-10	22	-0.01	54	-10	6	160	2
L10N 4+00W	-1	-10	33	0.02	71	-10	3	87	2
L10N 3+75W	1	-10	23	0.07	109	-10	3	82	3
L10N 3+50W	-1	-10	18	0.03	82	-10	2	61	1
L10N 3+25W	3	-10	45	0.03	86	-10	6	105	9
L10N 3+00W	3	-10	30	0.03	79	-10	3	108	9
L10N 2+75W	-1	-10	20	0.03	124	10	3	90	3
L10N 2+50W	1	-10	23	0.03	97	-10	3	88	4
L10N 2+25W	-1	-10	21	0.06	129	-10	2	69	3
L10N 2+00W	1	-10	16	0.08	83	-10	4	93	10
L10N 1+75W	-1	-10	14	0.04	97	-10	1	38	2
L10N 1+50W	2	-10	24	0.05	81	-10	4	107	5
L10N 1+25W	3	-10	65	0.02	67	12	31	243	5
L10N 1+00W	5	-10	28	0.06	62	-10	29	131	7
L10N 0+75W	3	-10	38	0.06	80	-10	11	176	3
L10N 0+50W	4	-10	83	0.03	73	11	15	220	3
L10N 0+25W	-1	-10	55	0.02	70	-10	4	101	3
L-10N 0+00	2	-10	45	0.03	87	-10	11	183	3
L-10N 0+25E	2	-10	37	0.06	116	-10	3	105	4
L-10N 0+50E	2	-10	51	0.07	133	-10	3	110	4
L-10N 0+75E	2	-10	40	0.02	71	-10	3	144	3
L-10N 1+00E	-1	-10	26	-0.01	75	-10	2	61	3
L-10N 1+25E	2	-10	39	-0.01	71	-10	15	617	4
L-10N 1+50E	-1	-10	15	-0.01	69	-10	3	41	2
L-10N 1+75E	-1	-10	7	-0.01	73	-10	4	66	2
L-10N 2+00E	2	-10	13	-0.01	95	-10	4	182	4
L-10N 2+25E	2	-10	20	-0.01	112	-10	4	214	4
L-10N 2+50E	-1	-10	32	0.02	69	-10	9	108	8
L-10N 2+75E	-1	-10	28	-0.01	60	-10	6	128	2
L-10N 3+00E	2	-10	19	0.02	68	-10	4	158	4
L-10N 3+25E	3	-10	28	0.04	88	-10	6	163	5
L-10N 3+50E	4	-10	61	0.06	94	-10	8	286	11
L-10N 3+75E	-1	-10	33	-0.01	9	-10	2	35	2
L-10N 4+00E	1	-10	52	-0.01	57	-10	7	146	3
L-10N 4+25E	1	-10	57	-0.01	41	-10	9	157	2
L-10N 4+50E	3	-10	87	0.02	58	-10	8	121	2
L-10N 4+75E	3	-10	180	0.03	55	-10	11	144	2
L-10N 5+00E	1	-10	59	0.01	38	-10	4	61	1

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L-10N 5+25E	-1	-10	85	-0.01	48	-10	9	59	2
L-10N 5+50E	4	-10	146	0.03	89	-10	54	221	7
L-10N 5+75E	-1	-10	47	0.02	73	-10	8	123	2
L-8N 3+50W	5	-10	104	0.03	79	-10	9	88	6
L-8N 3+25W	4	-10	60	0.03	70	-10	8	103	8
L-8N 3+00W	4	-10	58	-0.01	79	-10	12	129	4
L-8N 2+75W	6	-10	102	0.03	98	-10	52	103	7
L-8N 2+50W	5	-10	98	0.02	71	-10	59	136	14
L-8N 2+25W	4	-10	87	0.04	72	-10	21	168	7
L-8N 2+00W	3	-10	76	0.05	75	-10	20	202	5
L-8N 1+75W	-1	-10	15	0.04	98	-10	2	51	3
L-8N 1+50W	3	-10	62	0.02	59	-10	10	165	4
L-8N 1+25W	2	-10	26	0.01	55	-10	32	105	5
L-8N 1+00W	1	-10	29	0.07	111	-10	3	75	3
L-8N 0+75W	-1	-10	32	0.03	69	-10	29	94	3
L-8N 0+50W	1	-10	33	0.02	84	-10	23	116	3
L-8N 0+25W	2	-10	23	0.03	54	-10	8	106	12
L-8N 0+00	1	-10	16	0.04	85	-10	2	67	5
L-8N 0+25E	1	-10	21	0.02	89	-10	2	76	5
L-8N 0+50E	3	-10	2	0.02	56	-10	40	126	15
L-8N 0+75E	-1	-10	45	0.02	83	-10	2	75	3
L-8N 1+00E	-1	-10	19	0.03	76	-10	2	67	3
L-8N 1+25E	1	-10	20	0.04	83	-10	5	94	3
L-8N 1+50E	1	-10	33	0.02	69	-10	3	116	3
L-8N 1+75E	2	-10	30	-0.01	38	-10	22	318	6
L-8N 2+00E	2	-10	41	0.01	64	-10	10	651	4
L-8N 2+25E	1	-10	27	0.02	79	-10	6	168	5
L-8N 2+50E	2	-10	27	0.03	86	-10	5	179	4
L-8N 2+75E	2	-10	23	0.03	84	-10	6	241	4
L-8N 3+00E	2	-10	25	0.04	78	-10	4	156	4
L-8N 3+25E	-1	-10	9	-0.01	21	-10	3	61	2
L-8N 3+50E	3	-10	42	0.02	52	-10	12	302	3
L-8N 3+75E	3	-10	16	0.03	66	16	13	1067	3
L-8N 4+00E	4	-10	76	0.04	65	-10	19	325	4
L-8N 4+25E	6	-10	107	0.06	78	-10	19	245	3
L-8N 4+50E	8	-10	137	0.11	93	-10	15	179	5
L-8N 4+75E	5	-10	72	0.07	57	-10	14	122	3
L-8N 5+00E	6	-10	62	0.06	61	-10	11	118	4
L-8N 5+75E	2	-10	99	0.07	73	-10	10	109	2

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L-8N 6+00E	2	-10	94	0.04	82	-10	9	137	2
L-6N 4+50W	3	-10	103	0.01	55	-10	6	71	5
L-6N 4+25W	4	-10	125	0.02	65	-10	8	87	9
L-6N 4+00W	4	-10	140	0.02	56	-10	8	75	7
L-6N 3+75W	3	-10	154	0.02	54	-10	8	63	5
L-6N 3+50W	3	-10	154	0.02	62	-10	7	70	7
L-6N 3+25W	3	-10	103	0.02	64	-10	6	80	14
L-6N 3+00W	3	-10	105	0.03	69	-10	9	125	6
L-6N 2+75W	4	-10	125	0.06	91	-10	10	215	4
L-6N 2+50W	3	-10	114	0.04	73	-10	8	79	9
L-6N 2+25W	3	-10	94	0.03	64	-10	13	123	7
L-6N 2+00W	3	-10	109	0.01	55	-10	11	133	6
L-6N 1+75W	2	-10	56	0.05	83	-10	4	100	3
L-6N 1+50W	2	-10	43	0.03	55	-10	6	97	3
L-6N 1+25W	2	-10	17	0.05	51	-10	20	66	5
L-6N 1+00W	1	-10	35	0.11	113	13	8	80	4
L-6N 0+75W	3	-10	24	0.08	71	-10	7	82	8
L-6N 0+50W	-1	-10	31	0.06	102	12	3	66	4
L-6N 0+25W	1	-10	28	0.07	70	-10	20	79	4
L-6N 0+00	1	-10	24	0.03	55	-10	19	93	2
L-6N 0+25E	2	-10	31	0.06	96	-10	5	97	3
L-6N 0+50E	5	-10	88	0.11	77	-10	8	120	16
L-6N 0+75E	4	-10	89	0.02	70	-10	7	146	7
L-6N 1+00E	4	-10	352	0.02	68	-10	11	120	6
L-6N 1+25E	-1	-10	39	-0.01	58	-10	4	74	2
L-6N 1+50E	-1	-10	43	0.01	62	-10	10	155	3
L-6N 1+75E	-1	-10	40	0.02	61	-10	11	184	2
L-6N 2+00E	-1	-10	29	0.02	57	-10	7	112	2
L-6N 2+25E	-1	-10	34	0.01	79	-10	3	94	2
L-6N 2+50E	1	-10	41	0.03	68	-10	3	110	3
L-6N 2+75E	-1	-10	34	0.03	67	-10	4	141	2
L-6N 3+00E	-1	-10	30	0.05	78	-10	5	99	2
L-6N 3+25E	-1	-10	37	0.02	58	-10	5	91	2
L-6N 3+50E	-1	-10	27	0.02	73	-10	4	217	3
L-6N 3+75E	1	-10	148	0.01	39	-10	2	39	2
L-6N 4+00E	2	-10	217	0.02	55	-10	3	55	2
L-6N 4+25E	1	-10	119	0.02	40	-10	5	58	3
L-6N 4+50E	1	-10	251	-0.01	23	-10	2	24	2
L-6N 4+75E	3	-10	186	0.07	48	-10	6	75	2

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L-6N 5+00E	2	-10	168	0.07	51	-10	8	94	2
L-4N 4+00W	3	-10	170	0.01	45	-10	7	100	4
L-4N 3+75W	3	-10	143	-0.01	44	-10	8	132	4
L-4N 3+50W	3	-10	136	0.01	46	-10	7	154	5
L-4N 3+25W	3	-10	127	-0.01	48	-10	10	152	5
L-4N 2+75W	2	-10	128	0.01	42	-10	7	117	4
L-4N 2+50W	3	-10	153	0.02	49	-10	8	116	4
L-4N 2+00W	3	-10	129	0.02	51	-10	8	105	4
L-4N 1+50W	3	-10	71	0.05	79	12	29	351	3
L-4N 1+25W	2	-10	29	0.06	46	-10	5	58	7
L-4N 1+00W	1	-10	53	0.02	60	10	4	70	3
L-4N 0+75W	3	-10	56	0.03	63	13	6	107	4
L-4N 0+50W	-1	-10	25	0.02	72	-10	3	63	2
L-4N 0+25W	-1	-10	31	0.05	103	-10	6	69	4
L-4N 0+00	4	-10	71	0.07	63	-10	13	102	8
L-4N 0+25E	-1	-10	46	0.01	42	-10	20	49	3
L-4N 0+50E	4	-10	82	0.05	81	10	8	97	7
L-4N 0+75E	4	-10	105	0.05	77	11	5	99	9
L-4N 1+00E	3	-10	60	0.07	81	14	5	105	6
L-4N 1+25E	4	-10	51	0.05	79	14	5	79	6
L-4N 1+50E	2	-10	57	0.03	67	-10	4	82	3
L-4N 1+75E	3	-10	54	0.02	67	10	3	101	3
L-4N 2+00E	2	-10	62	0.03	73	-10	4	101	4
L-4N 2+25E	-1	-10	43	0.02	67	-10	4	71	3
L-4N 2+50E	1	-10	47	0.03	62	12	3	67	5
L-4N 2+75E	2	-10	55	0.01	57	12	4	50	3
L-4N 3+00E	2	-10	55	0.04	64	-10	5	118	3
L-4N 3+25E	3	-10	44	0.05	73	15	6	207	5
L-4N 3+50E	2	-10	44	0.03	73	12	7	169	4
L-4N 3+75E	3	-10	186	0.06	55	-10	9	105	8
L-4N 4+00E	2	-10	90	0.05	62	-10	6	99	3
L-2N 2+25W	2	-10	151	0.01	31	-10	6	80	3
L-2N 2+00W	2	-10	201	0.01	47	-10	8	116	4
L-2N 1+75W	3	-10	156	0.01	44	-10	8	130	5
L-2N 1+25W	2	-10	170	0.01	40	-10	7	109	4
L-2N 1+00W	2	-10	237	0.01	35	-10	6	85	3
L-2N 0+75W	4	-10	142	0.07	71	-10	6	140	7
L-2N 0+25W	4	-10	85	0.12	81	-10	7	163	6
L-2N 0+00W	4	-10	86	0.11	83	12	7	182	6

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L-2N 0+25E	5	-10	95	0.12	94	13	10	173	8
L-2N 0+50E	4	-10	68	0.09	78	11	6	118	6
L-2N 0+75E	4	-10	72	0.10	75	10	8	113	10
L-2N 1+00E	4	-10	49	0.21	111	12	9	69	20
L-2N 1+25E	6	-10	117	0.23	146	16	10	106	19
L-2N 1+50E	7	-10	78	0.11	112	11	15	109	13
L-2N 1+75E	4	-10	78	0.05	79	-10	8	87	4
L-2N 2+00E	3	-10	79	-0.01	41	-10	5	66	5
L-2N 2+25E	3	-10	67	-0.01	35	-10	5	50	7
L-2N 2+50E	3	-10	62	0.01	37	-10	6	56	5
L-2N 2+75E	4	-10	91	0.01	44	-10	7	65	11
L-2N 3+25E	2	-10	169	0.04	42	-10	5	65	6
L-0N 2+50W	2	-10	210	0.02	34	-10	7	76	4
L-0 2+25W	2	-10	217	-0.01	39	-10	9	89	3
L-0 2+00W	2	-10	275	-0.01	38	-10	8	95	3
L-0 1+75W	3	-10	382	0.04	65	-10	8	167	6
L-0 1+50W	2	-10	345	0.02	42	-10	6	89	4
L-0 1+25W	4	-10	203	0.05	48	-10	10	94	7
L-0 1+00W	3	-10	188	0.01	48	-10	7	192	8
L-0 0+75W	1	-10	51	0.02	18	-10	4	51	3
L-0 0+50W	3	-10	155	0.02	39	-10	4	239	6
L-0 0+25W	3	-10	49	0.08	47	-10	5	115	6
L-0 0+00	2	-10	54	0.02	44	-10	5	91	3
L-0 0+25E	2	-10	66	0.02	39	-10	4	78	2
L-0 0+50E	2	-10	55	0.04	65	-10	5	102	3
L-0 0+75E	3	-10	64	0.05	61	10	3	104	7
L-0 1+00E	2	-10	77	0.01	44	-10	5	66	3
L-0 1+25E	-1	-10	65	-0.01	37	-10	4	54	2
L-0 1+50E	-1	-10	39	-0.01	36	-10	4	44	2
L-0 1+75E	2	-10	63	0.01	43	-10	5	72	3
L-0 2+00E	2	-10	68	0.01	45	-10	5	68	4
L-0 2+25E	2	-10	104	0.04	54	-10	5	63	3
L-0 2+50E	2	-10	81	-0.01	37	-10	5	55	3
L-0 2+75E	2	-10	63	0.01	38	-10	4	50	3
L-0 3+00E	3	-10	154	0.04	54	-10	6	62	4
L-0 3+25E	3	-10	47	-0.01	38	11	6	59	11
L-0 3+50E	4	-10	40	-0.01	45	-10	4	54	13
L-2S 2+50W	3	-10	143	0.05	78	-10	10	120	3
L-2S 2+25W	2	-10	114	0.03	67	-10	10	132	6

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

ID Sample No.	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
L-2S 2+00W	4	-10	74	0.06	74	-10	7	105	4
L-2S 1+75W	3	-10	128	0.05	82	-10	12	124	6
L-2S 1+50W	3	-10	96	0.06	75	-10	10	106	8
L-2S 1+25W	4	-10	154	0.05	76	-10	11	121	7
L-2S 1+00W	-1	-10	92	0.03	90	-10	6	112	3
L-2S 0+75W	-1	-10	102	0.05	79	-10	7	89	3
L-2S 0+50W	2	-10	71	0.03	54	-10	5	80	3
L-2S 0+25E	1	-10	74	0.02	53	-10	4	66	2
L-2S 0+50E	2	-10	64	0.02	40	-10	5	58	2
L-2S 0+75E	2	-10	55	0.02	44	-10	6	76	2
L-2S 1+00E	1	-10	47	0.01	37	-10	4	56	2
L-2S 1+25E	3	-10	46	0.02	66	13	8	180	3
L-2S 1+50E	1	-10	50	0.02	44	-10	5	60	2
L-2S 1+75E	2	-10	39	0.01	34	-10	3	40	2
L-2S 2+00E	2	-10	54	0.01	39	-10	4	46	3

PROFESSIONAL
PROVINCE OF
G. E. RAY
BRITISH COLUMBIA
GEOSCIENTIST

APPENDIX 3

ANALYTICAL METHODS

ASSAYERS CANADA

8282 Sherbrooke Street,
Vancouver, B.C.
Canada V5X 4R6
Tel: 604 327-3436
Fax: 604 327-3423

Procedure Summary:

Gold (Au) Geochemical Analysis

Element(s) Analyzed:

Gold (Au)

Procedure:

Samples are dried at 65°C. Rock & core samples are crushed with a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to 1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300 gram sub-sample. This sub-sample is then pulverized on a ring pulverizer to 95% - 150 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Soil and stream sediment samples are screened to - 80 mesh for analysis.

The samples are fluxed, a silver inquart added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved with aqua regia solution, diluted to volume and mixed.

These resulting solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 2 standard deviations of its known or the whole set is re-assayed.

A minimum of 10% of all assays are rechecked, then reported in parts per billion (ppb). The detection limit is 1 ppb.

ASSAYERS CANADA

8282 Sherbrooke Street,
Vancouver, B.C.
Canada V5X 4R6
Tel: 604 327-3436
Fax: 604 327-3423

Procedure Summary:

30 Element Aqua Regia Leach ICP-AES Analysis

Elements Analyzed:

Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sn, Sr, Th, Ti, U, W, Zn

Procedure:

0.500 grams of the sample pulp is digested for 2 hours at 95°C with an 1:3:4 HNO_3:HCl:H_2O mixture. After cooling, the sample is diluted to standard volume.

The solutions are analyzed by Perkin Elmer Optima 3000 Inductively Coupled Plasma spectrophotometers using standardized operating conditions.

APPENDIX 4

PERSONNEL

GEOQUEST CONSULTING LTD.:

Gerry Ray, P. Geo.	
August 25, September 1, 3	
November 6, 23, December 2, 3, 7-10	11 days
Rein Turna, P.Geo.	
August 14-16	3 days
Rob Montgomery, B. Sc.	
August 19, 20, Sep 8	3 days
Rex Turna, assistant	
August 19, 20	2 days
Marty McInnes, assistant	
August 19, 20, 22, September 2, 3	5 days
Lance Jenn, assistant	
August 19, 20, 24	3 days
Sean Bohle, assistant	
August 20, September 1, 2, 3	4 days
Alec Tebbutt, assistant	
September 9, 11-15	6 days

HENDEX EXPLORATION SERVICES LTD.:

August 21-24, September 1-3	21 man days

SJ GEOPHYSICS LTD.:

September 9-17	36 man days

APPENDIX 5

STATEMENT OF EXPENDITURES

Helicopter:		
Canadian Helicopters, Smithers, B.C.		30,823
Labour /Consulting Fees/Contractors:		
Geoquest Consulting Ltd., Vernon, B.C.	$9,000	
Hendex Exploration Services Ltd., Prince George, B.C.	5,856	
SJ Geophysics Ltd., Delta, B.C.	13,000	27,856
Analytical Costs:		
Assayers Canada, Vancouver, B.C.		6,050
Report Compilation:		
Labour (Authoring/Drafting)	3940	
Map printing, photocopies, binding	450	4390
	TOTAL:	**$69119**

APPENDIX 6

ACKNOWLEDGEMENTS

The author wishes to thank the following for their help in the office and field:
John Barakso, Larry Diakow, Warner Gruenwald, Elaine Gruenwald, Wayne Jackaman, Lance Jenn, Peter Ronning, Rein Turna, Marty McInnes, and Rob Montgomery.

APPENDIX 7

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APPENDIX 8

CERTIFICATE OF AUTHOR

I, Gerald Edwin RAY, P.Geo., P. Eng., do hereby certify that:

1. I am currently employed as a consultant geologist by: **Finlay Minerals Ltd.,** of 912-510 West Hasting Street, Vancouver, BC.

2. I graduated with B.Sc., degree in Geology from the University of Bristol (UK) in 1966. I later obtained a Ph.D., in Geology from the "Research Center for African Geology" at the Leeds University (UK) in 1970.

3. I am a member of the Association of Professional Geoscientists of British Columbia (License # 19503) and the Association of Professional Engineers of Saskatchewan (Member No. 2888).

4. I have worked as a geologist a total of 35 years since my graduation from university.

5. For two days in August and September 2004, I visited and worked on the GOLD CLAIMS which are held by Finlay Minerals Ltd. Other than wages, I hold no shares or economic benefits supplied by Finlay Minerals Ltd.

6. I have read the definition of "qualified person" set out in the National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with professional associations (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.

7. I am responsible for the preparation of this report titled "ASSESSMENT REPORT ON THE GEOLOGY AND MINERAL POTENTIAL OF THE GOLD CLAIMS, TOODOGGONE RIVER AREA, NORTHERN BC" dated the 11th of December 2004.

8. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in this report, the omission to disclosure which makes the report misleading.

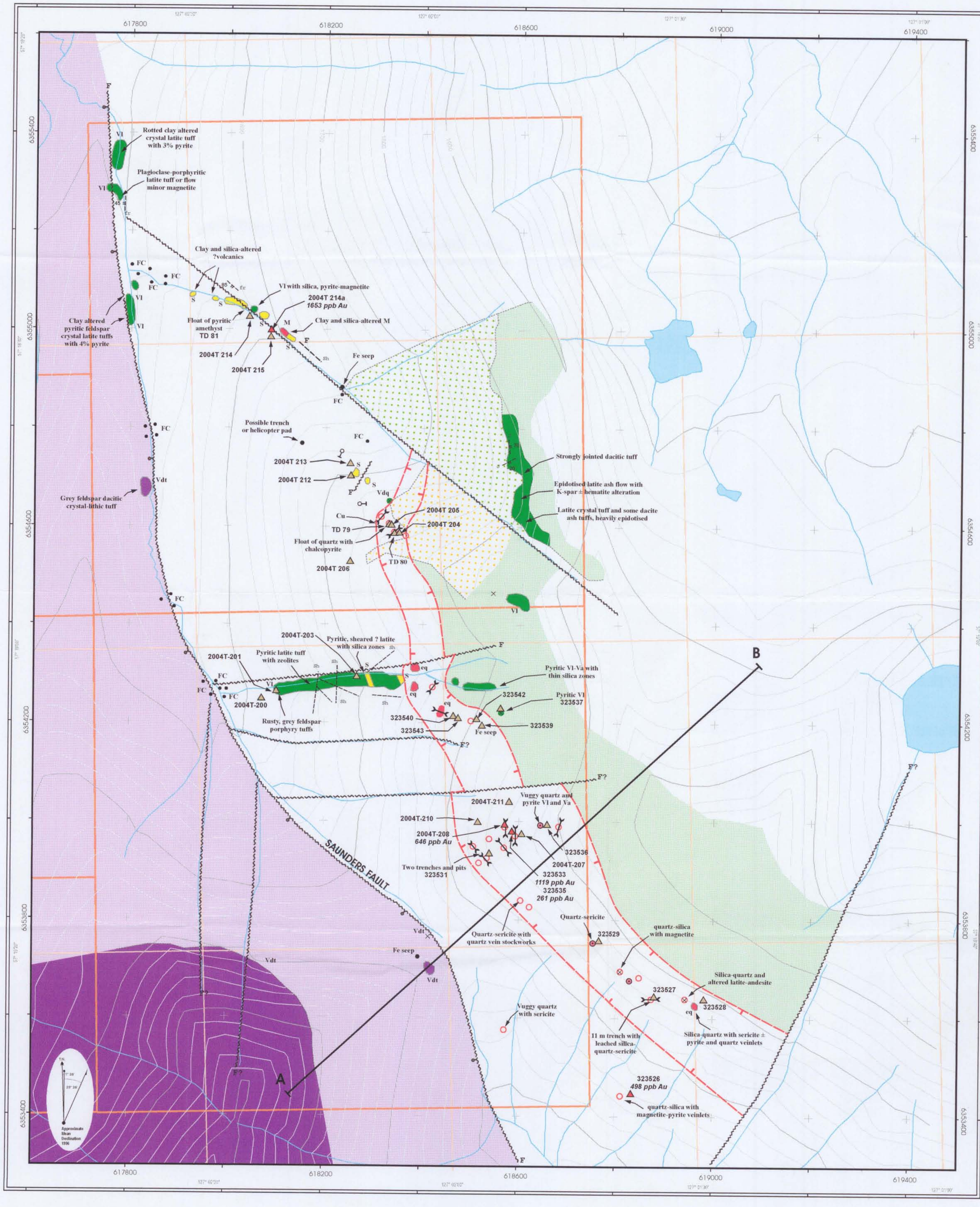
9. I am independent of the issuer applying all the tests in section 1.5 of the National Instrument 43-101.

10. I have read National Instrument 43-101 and Form 42-101FI.

Dated this 11th day of December 2004

G.E. Ray, P. Geo. G. E. RAY

PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
G. E. RAY



FINLAY MINERALS LTD.
PIL PROPERTIES

MAP 1A
GEOLOGY of the GOLD CLAIMS

Mapping by G.E. Ray 2004

0 100 200 m
SCALE 1:5,000
UTM ZONE 9
TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

PROFESSIONAL PROVINCE OF G. E. RAY BRITISH COLUMBIA GEOSCIENTIST

Legend

EARLY JURASSIC (Intrusive Rocks)

M Pink colored monzonite, highly clay and silica-altered.

EARLY JURASSIC - TOODOGGONE FORMATION

Metsantan Member volcanics with moderate to very strong hydrothermal alteration (silica-epidote-clay-pyrite).

Va Andesitic flows.
Vl Latite flows and tuffs.
Vlq Quartz-bearing latite flows and ash tuffs.
Vdq Dacitic tuffs and flows, commonly with rounded glassy quartz crystals.
S Intense silica-clay ± sericite ± pyrite alteration, overprinting presumed volcanic hostrocks.

Areas with light brown, jarosite-stained soil and scree containing silica-quartz float.
Generally unaltered latite/dacite scree.
"Areas of no exposure east of the Saunders Fault (mostly underlain by Metsantan Member)"

EARLY JURASSIC - TOODOGGONE FORMATION

Saunders Member volcanics with nil to minor hydrothermal alteration.

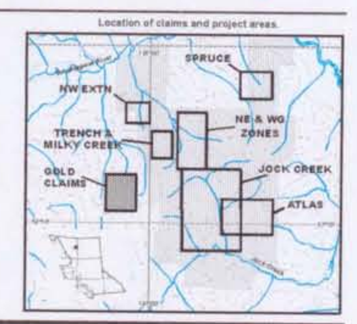
Vdq Dacitic tuffs and flows, commonly with rounded glassy quartz crystals.
Vdt Grey dacitic ash and lithic tuffs with scattered lapilli clasts up to 3 cm.

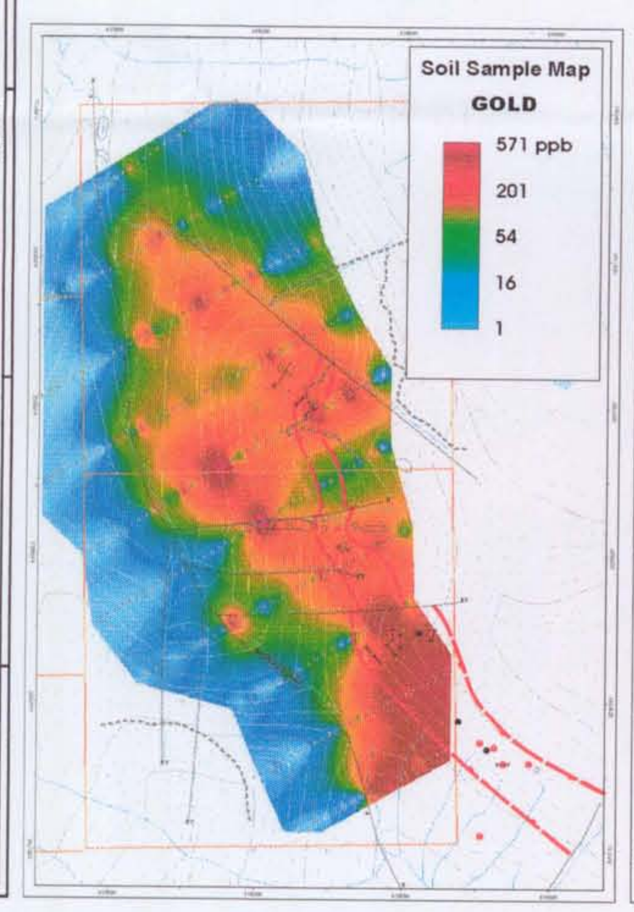
Small Outcrop
Area with abundant outcrop or scattered outcrops
Subcrop or large angular float - felsemeer
Strike and (if known) dip of fault
Fault with assumed down-throw
Strike and (if known) dip of shears
Strike and dip of fracturing
Strike and dip of jointing
Geological contact (known, assumed)
Trench
Drill location with hole direction as measured in the field

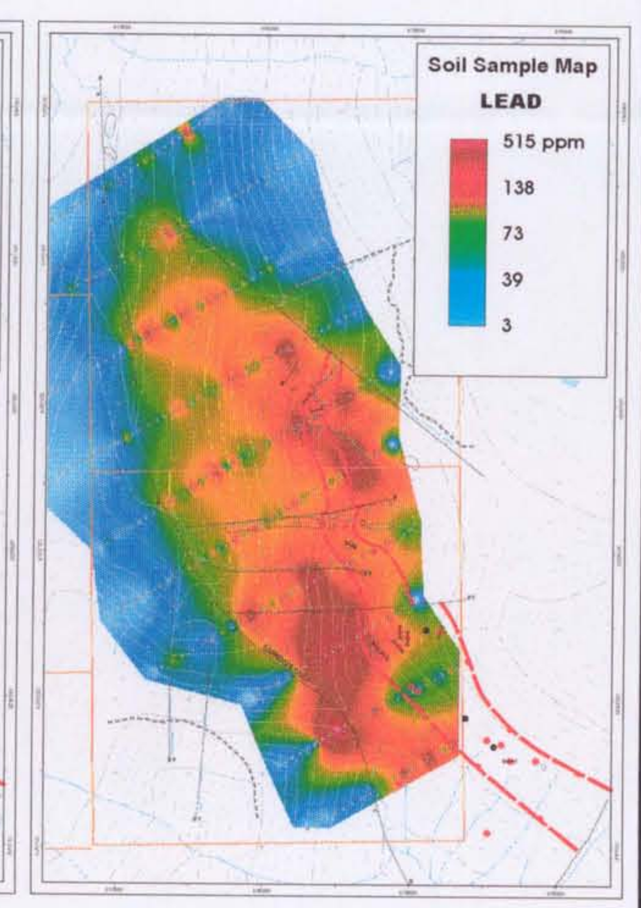
Chalcopyrite ... Ch
Copper, gold, lead or zinc occurrence ... Cu,Au,Pb,Zn
Location and number of hand and/or assay sample ... 323526, TD 20
Ferrocrete, commonly in large blocks ... FC
Float of silica-quartz±sericite±pyrite±rare magnetite veinlets
Subcrop of silica-quartz±sericite±pyrite±rare magnetite veinlets
Pit of silica-quartz±sericite±pyrite±rare magnetite veinlets
Small outcrop of ?epithermal-type quartz/silica ... eq
Presumed limit of main silica zone or zones
Rock grab samples Au < 200 ppb ... 323526
Rock grab samples Au > 200 ppb

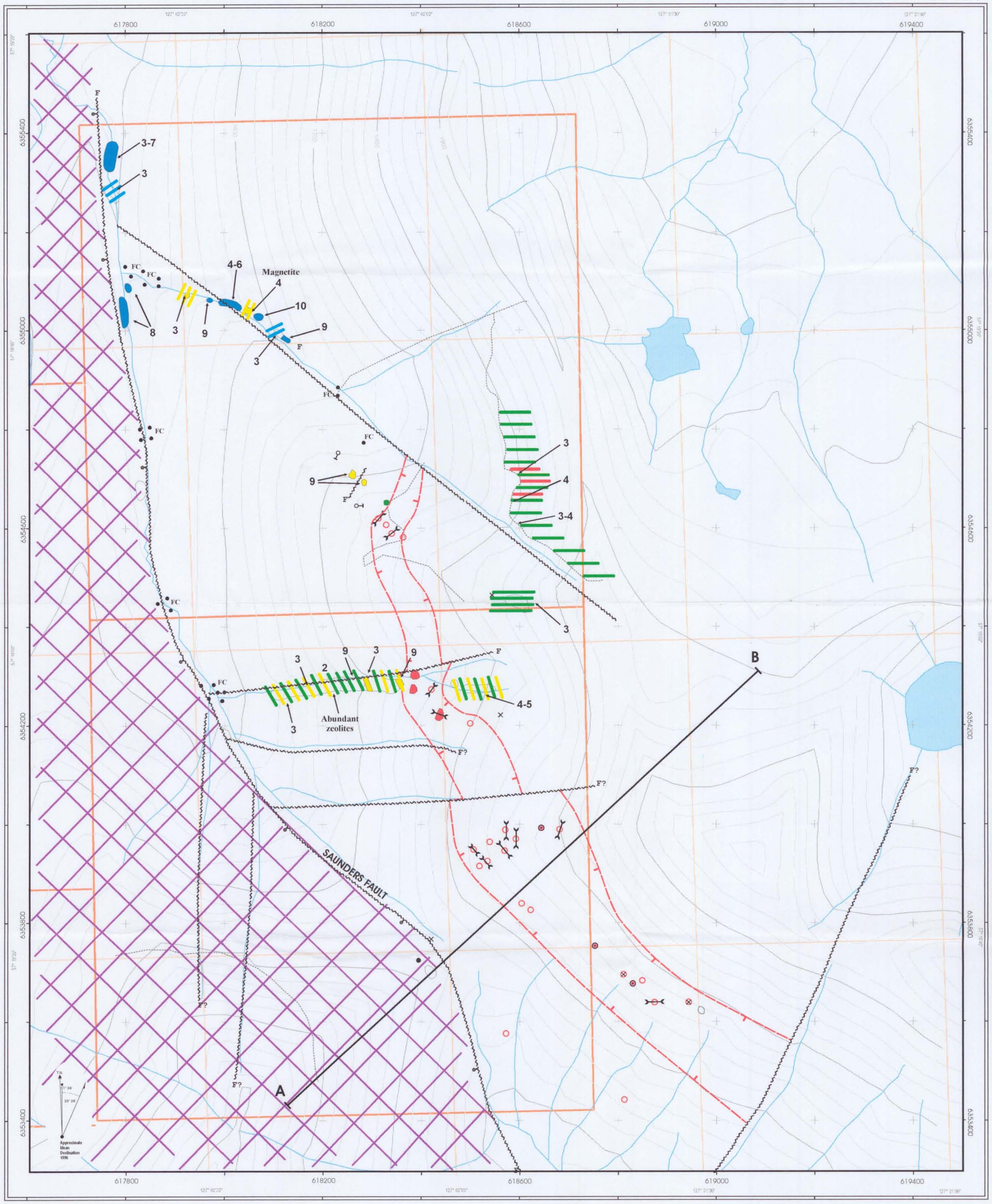
Roads
Streams and Lakes
Treeline
Index and Intermediate Contour Lines (20 m)

Location of claims and project areas.









FINLAY MINERALS LTD.
PIL PROPERTIES

MAP 1B
DISTRIBUTION of ALTERATION in the GOLD CLAIMS

Mapping by G.E. Ray 2004

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — G. E. RAY

0 100 200 m

SCALE 1:5,000

UTM ZONE 9
TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

LEGEND

- Areas of outcrop and subcrop.
- 4 - 5 "Alteration Index" - Visual estimate of alteration intensity 1-2 = very weak; 5-6 = moderate to strong; 8-10 = very strong to intense; original rock lithology unknown.
- Areas with little of no hydrothermal alteration.
- Weak to moderate propyllitic alteration (chloritie-epidote ± pyrite).
- Weak to moderate K-spar alteration.
- Weak to moderate silica ± sericite ± pyrite.
- Moderate to strong silica ± sericite ± pyrite.
- Weak to moderate clay ± silica ± pyrite alteration.
- Moderate to strong clay ± silica ± pyrite alteration.

Float of silica-quartz±sericite±pyrite±rare magnetite veinlets ....
Subcrop of silica-quartz±sericite±pyrite±rare magnetite veinlets ..
Outcrop of silica-quartz±sericite±pyrite±rare magnetite veinlets ..
Ferrocrete, commonly in large blocks .... FC
Trench ....
Presumed limit of main silica zone or zones ....

Roads ....
Streams and Lakes ....
Treeline ....
Index and Intermediate Contour Lines (20 m) ....