

**ASSESSMENT REPORT
TCHENTLO LAKE PROPERTY**

Soil Geochemical Program
undertaken on
Lake Claims 1, 4, 5, 6, 9, 11, 12, 14, 15

Omineca Mining Division
NTS 93N/2E, 2W
Latitude 55° 10' Longitude 124° 47'

LOG NO: 0321	RD.
ACTION:	
FILE NO:	

Claim Owner and Operator
Westmin Mines Limited

FILMED

Funding by
Byron Resources Inc.

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Report by
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Project Geologist
Westmin Mines Limited

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,810

ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 90.12.13

ASSESSMENT REPORT 19810

MINING DIVISION: Omineca

PROPERTY: Tchentlo Lake

LOCATION: LAT 55 10 00 LONG 124 47 00
UTM 10 6114574 386398
NTS 093N02E 093N02W

CLAIM(S): Lake 1-18

OPERATOR(S): Byron Res.

AUTHOR(S): Lane, R.W.

REPORT YEAR: 1990, 57 Pages

COMMODITIES

SEARCHED FOR: Gold, Copper

KEYWORDS: Triassic, Jurassic, Takla Group, Hogen Batholith, Granites
Granodiorites, Magnetite

WORK

DONE: Geochemical

ROCK 14 sample(s) ;AU,AG,CU,ZN

SOIL 751 sample(s) ;AU,AG,CU,ZN

Map(s) - 10; Scale(s) - 1:2500,1:20 000

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I. SUMMARY

Tchentlo Lake property is an east-west trending, 9 km by 17 km claim block located 190 km northwest of Prince George, B.C., and 40 km due west of the Mt. Milligan deposit. The property was initially staked in Dec., 1988, and expanded in 1989 and 1990. It was acquired for its potential to host Mt. Milligan style alkaline porphyry Au-Cu deposits.

Tchentlo Lake is situated at the southwestern tip of the Hogem Batholith, and overlies Takla Group volcanic rocks which are intruded by favorable coeval Hogem Batholith Basic Suite rocks (mainly monzonite and monzodiorite).

In the late 1960's and early 1970's approximately 75% of the area now overlain by the property was tested by wide spaced Cu soil geochemical sampling by Borondra/West Coast. The sampling defined large areas of ≥ 100 ppm Cu values (many values > 500 ppm Cu) in numerous locations. Gold was not analyzed for. Subsequent rock geochemical sampling in 1988 by U. Schmidt established the presence of relatively weak Au values (up to 670 ppb Au) associated with Cu values of 2-3% in narrow shear zones near the western property boundary. In 1989 Westmin conducted an airborne geophysical survey over the property (Magnetics, HEM, VLF), which defined a number very interesting magnetics and weight percent magnetite anomalies, that possibly relate to alkaline porphyry Au-Cu mineralization. In addition, four pronounced parallel, 300 m - 800 m long HEM conductors were defined in the southwestern corner of the property, which are thought likely to be sulphide related.

Eight follow-up soil geochemical grids were established on the property in 1989 to test: (1) areas of ≥ 100 ppm Cu soil geochemical response defined by Borondra/West Coast; and (2) areas of anomalous geophysical response defined by 1989 survey. Samples were analyzed for Au, Ag, Cu, Zn. The sampling defined and confirmed numerous areas of anomalous Cu values, which in some locations were found to be associated with encouraging Zn, Ag \pm Au values. The most promising anomalies will be tested by backhoe trenching in 1990.

Soil geochemical sampling over the four HEM conductors thought to be sulphide related yielded an abundance of anomalous Zn, Ag values, and a few anomalous Cu, Au values. The results warrant a significant follow-up program of additional soil geochemical sampling, MaxMin geophysics, and extensive backhoe trenching.

Considerable follow-up soil geochemical sampling is warranted on the property in 1990 to evaluate numerous additional areas of Borondra/West Coast ≥ 100 ppm Cu values, and a substantial number of airborne geophysical anomalies. Significantly anomalous Au, Cu \pm Zn, Ag values produced by this work will be evaluated by backhoe trenching.

II. INTRODUCTION

A. Location, Access, Topography

Tchentlo Lake property is located in the Nation Lakes area, approximately 190 km northwest of Prince George, B.C., and 40 km due west of Mt. Milligan. It lies immediately south of the Tchentlo Lake/Chuchi Lake junction. Refer to figures 1 and 2.

Vehicle access is via an all-weather gravel road running north from Fort St. James for approx. 100 kms, then by logging roads running west for approximately 25 kms to the north shore of Chuchi Lake, and finally, by boat or barge for 2 kms to the property boundary. A system of jeep roads, now over-grown, were established on the property in the 1960's. Alternatively, access is via float plane from Vanderhoof (150 kms) or Ft. St. James (90 kms) to a small lake (Alexander Lake) in the centre of the property, or by helicopter stationed at the Rainbow Lodge on Takla Lake (65 kms).

Topography is usually gently rolling but in places is moderately steep. Elevations range from 3000' (914m) to 5000' (1524m). The property is densely tree covered (spruce and aspen), and outcrop is usually poor but occasionally fair to moderate at higher elevations. Glacial till covers most of the property. It varies from nil to a few tens of meters thick, and is estimated to average 5-10 m thick. Low areas are commonly swampy.

B. Claims

Tchentlo Lake property is comprised of 22 contiguous four-post claim blocks (Lake-1 to Lake-22) totalling 341 units, which are wholly owned by Westmin Mines Ltd.

<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Expiry Date</u>
Lake-1	10034	15	Dec. 16, 1991
Lake-2	10035	8	Dec. 15, 1991
Lake-3	10036	20	Dec. 16, 1991
Lake-4	10037	20	Dec. 15, 1991
Lake-5	10233	12	Feb. 21, 1992
Lake-6	10234	10	Feb. 20, 1992
Lake-7	10235	20	Feb. 21, 1992
Lake-8	10237	12	Feb. 20, 1992
Lake-9	10144	12	Mar. 4, 1992
Lake-10	10145	20	Mar. 4, 1992
Lake-11	10146	20	Mar. 4, 1992
Lake-12	10147	20	Mar. 3, 1992
Lake-13	10338	18	Apr. 26, 1992
Lake-14	10813	20	July 16, 1992
Lake-15	10814	16	July 16, 1992
Lake-16	10936	20	Aug. 3, 1992
Lake-17	10937	20	Aug. 4, 1992
Lake-18	10938	10	Aug. 9, 1992
Lake-19	11478	12	March 4, 1991
Lake-20	11479	2	March 4, 1991
Lake-21	11480	16	March 4, 1991
Lake-22	11481	18	March 4, 1991
Total		341	

C. Option Agreement

Byron Resources Inc., a Vancouver, B.C. registered company listed on the Vancouver Stock Exchange, acquired an option from Westmin Mines Limited, on July 14, 1989, to earn a 45% interest in the Tchentlo Lake and Kwanika Creek properties. Byron is to make the following cumulative expenditures by Dec. 31, 1993:

<u>Date</u>	<u>Amount</u>	<u>Cumulative Amount</u>
Dec. 31, 1989	\$150,000	\$150,000
Dec. 31, 1990	250,000	400,000
Dec. 31, 1991	250,000	650,000
Dec. 31, 1992	250,000	900,000
Dec. 31, 1993	300,000	1,200,000

In addition, on the closing date of the agreement Byron issued Westmin 200,000 common shares without par value.

D. History

- 1961 Government regional airborne magnetics survey (flight lines spaced 0.5 miles apart).
- 1966-1972 West Coast Mining and Exploration (Jemmet and Veerman, 1966; Mouritsen, 1967; Veerman, 1968); and Borondra Exploration Corporation Ltd. (Goudie and Hallof, 1970; McFall and Sawyer, 1971). Assessment reports indicate extensive exploration for porphyry Cu deposits in an area covering 75% of the present Tchentlo Lake property. Work undertaken consisted of geological mapping geochemical surveys (Cu soil and stream sediment), and geophysical surveys (VLF-EM, magnetics, and a limited amount of I.P.)
- 1983 Regional Stream Sediment and Water Geochemical Survey, Joint Canada/British Columbia Program.

E. Exploration Target

Primary exploration target is large tonnage low grade alkaline porphyry Au-Cu deposits similar to the Mt. Milligan deposit.

Secondary exploration target is moderate tonnage high grade Au-Cu-Zn sulphide deposits replacing fracture zones adjacent to or cross-cutting Au-Cu porphyry mineralization.

III. GEOLOGY AND MINERALIZATION

A. Regional Geological Setting

The Nation Lakes area Tchentlo Lake property is situated within the central portion of the Quesnel Trough of the Intermontane Belt (Refer to Figures 4 and 5). The Quesnel Trough is a 30 to 60 km wide by 1300+ km long depositional basin. It contains an assemblage of alkalic and calc-alkalic volcanic and sedimentary rocks of Upper Triassic to Jurassic age (Rossland, Nicola, Takla and Stuhini Groups), which extend northwestward from the southern B.C. border (49th parallel) to the Stikine River in northern B.C. The boundaries of the Quesnel Trough are regional faults in some areas. For example, in the Nation Lakes area (Mt. Milligan, Chuchi Lake, Tchentlo Lake, Kwanika Creek, Valleau Creek, etc.) the Trough consists of a grabben, bounded on the west by the Pinchi fault zone and bounded on the east by the Manson fault zone.

In the Nation Lakes area the Quesnel Trough contains Takla Group rocks, which are predominantly marine and alkaline. They are largely composed of pyroxene-rich flows and volcanoclastics, with interbedded volcanic derived greywacke, siltstone and minor limestone and conglomerate. There is an increase in the sedimentary component upwards, and subaerial accumulations may be present (Ney, Hollister; 1976). The assemblage is intruded by comagmatic, coeval, frequently zoned alkalic to calc-alkalic batholiths, stocks, plugs and dykes. The chemical composition of the intrusions are similar to the volcanic rocks they intrude. The intrusions commonly consist of diorite, but range in composition (syenite, monzonite, monzodiorite, diorite, pyroxenite). They occur along linear trends that appear to reflect major faulting and/or failed mid-oceanic subduction zones (V. Preto, H. Meade). Most of the alkaline plutons are characterized by magnetic anomalies associated with significant disseminated magnetite.

Hogem Batholith

The 20 km wide by 120 km long northwest trending Hogem Batholith is the dominant intrusive event in the Nation Lakes area. It is a complex, multi-stage intrusion that is dominantly alkalic but includes calc-alkaline phases. Compositions of the phases range from rare pyroxenite to more common diorite, monzonite and syenite, and include granodiorite, quartz monzonite and granite (refer to Figure 5).

Garnett (1978) recognized three distinct groups of phases to the Batholith on the basis of intrusive petrology, contact relationships and K/Ar geochronology of biotites and hornblendes. Garnett's (1978) grouping has been modified below using data from Meade (1977; and personal communication 1989).

1. Phase I (212 to 176 Ma) can be divided into an alkaline basic suite comprised of four mappable units including diorite, monzodiorite, monzonite and quartz monzonite, and a calc-alkaline suite mainly comprised of a distinctive unit known as the Hogem granodiorite.

2. Phase II (182 to 162 Ma) comprises alkaline syenites and occurs in geographically separate areas at Duckling Creek and Chuchi Lake. Phase II syenites clearly intrude Phase I units, but are petrogenetically related to Phase I alkaline intrusions.
3. Phase III (126 to 108 Ma) comprises calc-alkaline leucocratic granite, quartz syenite and alaskite that cut all other intrusive rocks.

Geochemical and petrological studies by Garnett (1978) and Meade (1977) strongly suggest that the Takla volcanic rocks are extrusive equivalents of the Phase 1 Basic Suite, with the intrusive rocks representing more deeply eroded centres of volcanic activity. Apparently, extrusive equivalents of Phases II and III do not exist.

Chemically, alkalic rocks of the Hogem Batholith are similar to intrusive and volcanic rocks at Mt. Milligan (refer to Figure 6).

Recent exploration suggests that significant gold values are associated with alkaline dioritic and monzonitic intrusions into Takla Group volcanic rocks in conjunction with weak to moderate chalcopyrite and/or pyrite. These intrusions are part of Garnett's (1978) Phase I Basic Suite of the Hogem Batholith. Garnett (1978) noted that there is a relationship between the various intrusive phases and their associated mineral occurrences.

1. Phase I alkaline dioritic to monzonitic rocks have Cu mineralization with associated pyrite and magnetite (Mt. Milligan);
2. Phase II syenitic rocks have associated Cu mineralization (Lorraine, Col);
3. Phase III granitic rocks have associated Cu-Mo mineralization (Jean Marie occurrence).

Significant gold/copper prospects associated with the intrusions in the central portion of the Quesnel belt are shown on Figure 4. Most prospects are in the early stages of exploration but include the Lorraine deposit, with indicated reserves of 10 million tonnes grading 0.67% copper and 0.22 g/t gold (Wilkinson et al., 1976), and Mt. Milligan, with indicated reserves of 200 million tons, grading 0.68 g/t gold and 0.3% copper.

The Col property was originally evaluated from 1970 to 1972 as a porphyry copper (2 million tons of 0.6% copper). Current work by Kookaburra Gold Corp. has resulted in drill core containing 2.24 g/t gold over 3.6 m, with selected samples as high as 17.4 g/t gold.

B. Alkaline Intrusion Related Gold-Copper Deposits

Alkaline intrusions with associated Au and Cu-Au mineralization generally display potassic (potassium silicate) and propylitic (epidote-chlorite ± calcite ± pyrite) alteration assemblages. The intrusions are high level, highly fractured and/or brecciated, and are commonly enclosed by stockwork fractured volcanic rocks.

The potassic assemblage comprises secondary biotite and/or potassium feldspar and commonly magnetite. This alteration zone is generally developed marginal to, or within the intrusion, and is closely associated spatially and genetically with coprecipitated copper-gold mineralization. The propylitic alteration zone is generally extensively developed in the enclosing volcanic strata.

Gold and/or gold-copper mineralization may be deposited within the alkaline intrusion or located up to several kilometres from the intrusion. The gold zone may overlap the copper zone, or it may lie outside the area of copper mineralization but within an overall zone of pyritic rocks.

Porphyry copper deposits with significant gold content (Stikine Copper, Cariboo-Bell/Mount Polley, Afton and Ingerbelle, see Table 1), are commonly associated with alkaline stocks. Recent work has also shown that "failed" porphyry systems have the potential to form significant gold deposits, such as the QR and Kwun Lake deposits (see Figure 3).

Table 1. Original Mined Reserves - Alkaline Porphyry Deposits
Original Reserves

	<u>Tonnes (x10⁶)</u>	<u>% Cu</u>	<u>Au g/T</u>
Afton	28.1	1.0	0.51
Ingerbelle	166.9	0.53	0.15 (recov.)
Copper Mtn.	31.5	1.08	0.19 (recov.)
Cariboo Bell	54.0	0.45	0.50
Stikine Copper	113.4	1.06	0.48
Lorraine	9.1	0.68	0.58
Mt. Milligan	200.0	0.30	0.68

Gold-enriched alkalic porphyry systems in the Canadian Cordillera show many similarities to porphyry copper-gold deposits of the southwest Pacific, such as Ok Tedi, Papua New Guinea.

Exploration potential for Au-Cu porphyry and Au-Cu replacement-type deposits is considered to be good in the Quesnel Trough of British Columbia. Relatively little gold exploration has been done for this deposit type in recent years, and previous exploration in the 1960's and early 1970's for porphyry copper targets largely ignored the potential for significant gold values. As a result analyses for gold were only sporadically done.

C. Mt. Milligan - Exploration Guides

An assessment report by Heberlein et al (1984) on the Mt. Milligan property provided useful data for formulating exploration guides for this alkaline porphyry-type of Au-Cu deposit. Mineralization is associated with alkaline monzonitic to dioritic dykes and plutons which intrude basaltic andesite flows and tuffs of the Takla Group. Sulphides present include chalcopyrite, pyrite, pyrrhotite and rarely bornite. Magnetite is locally

abundant (2-15%) as an alteration product, i.e., as secondary hydrothermal magnetite. Other alterations noted are biotite-rich intense K-feldspar flooding, along with development of ankeritic dolomite, sericite and epidote. Mineralization takes the form of disseminations and rare veinlets. Exploration techniques that proved useful on the property are geological mapping, geochemical soil sampling for Au, Cu and As, as well as magnetic and induced polarization (IP) surveys. Government airborne magnetic maps are useful because both the mineralization, and the intrusive diorite/monzonite associated with mineralization, contain abundant magnetite.

D. Property Setting

Tchentlo Lake property is situated at the southwestern tip of the Hogem Batholith, and overlies Takla Group volcanic rocks intruded by favorable coeval Hogem Batholith Basic Suite rocks. These Phase I Basic Suite rocks are mapped by J.A. Garnett (1:125,000 scale) as consisting mainly of monzonite/monzodiorite (Nation Lakes Plagioclase Porphyry) and of granodiorite/quartz monzodiorite (Hogem Granodiorite). Pyroxenite dykes were also noted by Westmin geologists in 1989. Takla Group volcanic rocks occurring along the southern edge of the property appear to mainly consist of andesite.

Rock exposure on most of the property is only fair to poor due to an extensive cover of glacial till. In places the cover is estimated to exceed 25 m. Somewhat better rock exposures occur at higher elevations in the western and southwestern portions of the property. Results of the 1989 airborne geophysical survey were utilized, in conjunction with the previous mapping, to further define the property geology at 1:20,000 scale. This geological interpretation is presented as Figure 7.

IV. AIRBORNE GEOPHYSICS

Westmin tested the Tchentlo Lake property with a detailed airborne geophysical survey (magnetics, HEM and VLF, lines 150 m apart) by Aerodat Ltd., in July, 1989.

The total magnetics survey was flown to: (1) better define the geology of the mainly overburden covered property; and (2) define magnetics anomalies, which may be related to alkaline porphyry Au-Cu mineralization associated with satellite plutons or hydrothermal magnetite alteration. The survey defined two very large and a number of smaller areas of strongly anomalous ($> 59,250$ nT) magnetics. A few of them were tested by follow-up soil geochemical sampling in 1989, and several very attractive anomalies remain to be tested in 1990. An outline of the $\geq 59,250$ nT anomalies is presented on figure 7. Detailed Total Field Magnetics maps and Calculated Vertical Magnetic Gradient maps accompany a separate report by Aerodat.

The helicopter electromagnetics (HEM) survey was flown to: (1) locate conductive Au-Cu-Zn sulphide deposits in fracture zones adjacent to or cross-cutting Au-Cu porphyry mineralization; (2) map the amount of magnetite occurring in the various rock types, which may help locate satellite intrusions, and possibly help locate areas of hydrothermal magnetite alteration; and (3) map the apparent resistivity of the property, to better define the geology and to locate areas of hydrothermal alteration. An outline of (1) areas of ≥ 2 wt.% magnetite; (2) areas of ≤ 100 ohm.m resistivity; and (3) HEM conductors, are presented on figure 7.

Detailed Weight Percent Magnetite maps, Apparent Resistivity maps, and Electromagnetic Profile Maps accompany a separate report by Aerodat.

The VLF-EM survey was flown as part of the normal airborne geophysical package, even though VLF-EM does not function very well in areas of moderate to strong relief. The survey clearly defined prominent structural trends to the northwest, north and northeast. Detailed VLF-EM maps accompany a separate report by Aerodat.

V. GEOCHEMISTRY

A. Soil Geochemistry (late 1960's - early 1970's)

Approximately 75% of the area now overlain by the Tchentlo Lake property was tested in the late 1960's and early 1970's by a widely spaced copper soil geochemical survey by Borondra Exploration Corp. and West Coast Mining and Exploration. Sampling was generally undertaken along lines spaced 305 m (1000') apart, with samples every 30.5 m (100') along the lines. In areas of detailing, lines were spaced every 152.5 m (500').

The sampling defined large areas of ≥ 100 ppm Cu values, and numerous ≥ 500 ppm Cu values, especially in areas of better exposure in the western and southwestern portions of the property (refer to figure 7).

The anomalies generally trend north or northwest. The northwest trend parallels a prominent shear direction hosting the Night Hawk zone on the Eagle 1 claim. Gold was not analyzed for. Subsequent rock geochemical sampling (Uve Schmidt-1988) established the presence of relatively weak Au values of up to 670 ppb Au associated with copper values of up to 3.4%, occurring in a grab sample of "massive iron oxides with malachite, chalcopyrite".

Most of the anomalous Cu soil geochemical values overlie areas of strong magnetics ($> 59,250$ nT) and monzonite/monzodiorite, however some also overlie Takla Group volcanic rocks in the southwestern part of the property.

B. Soil Geochemistry (1989)

1. Introduction

Eight follow-up soil geochemical grids (TL-1, 3, 5-10) were established on the Tchentlo Lake property in 1989, to test (1) areas of ≥ 100 ppm Cu soil geochemical response defined by Borondra/West Coast; and (2) areas of anomalous airborne geophysical response defined by the 1989 Westmin survey.

Soil samples were collected of the B soil horizon with grub-hoes, 15 to 30 cm below surface, at 50 m intervals along lines spaced 100 m apart. They were analyzed for Au, Ag, Cu, Zn. Analytical procedures and values are presented in Appendix X.

2. Grid TL-1

Objectives

Grid TL-1 tested (1) a weak HEM conductor; (2) an area of strongly anomalous (>59,250 nT) magnetics; and (3) a small area of ≥ 2 wt.% magnetite.

Geology

Grid TL-1 is totally covered by glacial till. The underlying geology is considered to consist of monzodiorite.

Soil Geochemistry

A total of 53 soil samples were collected within the 400 m by 600 m grid area.

Results:

Au - no anomalous values

Ag - 2 anomalous values, ranging up to 1.6 ppm Ag, associated with anomalous Cu values.

Cu - 3 anomalous values, ranging up to 320 ppm, scattered across the grid.

Zn - 3 anomalous values, ranging up to 500 ppm, scattered across the grid, not associated with other anomalous values.

Conclusions and Recommendations

The soil geochemical results do not appear to warrant follow-up.

3. Grid TL-3

Objectives

Grid TL-3 tested (1) a weak bedrock conductor on strike from the shear hosted Night Hawk Cu zone, located 800 m to the southwest; (2) a large area of ≥ 100 ppm Cu soil geochemical values previously defined by Borondra/West Coast; (3) an area of strongly anomalous magnetics (>59,250 nT); and (4) an area of 2-10 wt.% magnetite.

Geology

TL-1 is covered by glacial till. A few outcrops occurring adjacent to the grid consist of granodiorite.

Soil Geochemistry

A total of 59 soil samples were collected within the 400 by 600 m grid area.

Results:

Au - no anomalous values

Ag - no anomalous values

Cu - 11 anomalous values, ranging up to 920 ppm Cu, which appear mainly to occur in two discontinuous northwest trending zones.

Zn - 4 anomalous values, ranging up to 310 ppm Zn, which are associated with anomalous Cu values.

Rock Geochemistry

A total of 8 rock geochemical samples were taken from the TL-3 grid area, the Night Hawk showing (on Eagle 1 claim), and the area situated between TL-3 and Night Hawk.

<u>Sample No.</u>	<u>Au oz/t</u>	<u>Ag oz/t</u>	<u>Cu %</u>	<u>Zn %</u>	<u>Comments</u>
359275H	0.002	0.04	0.11	0.01	From road 100 m south of TL-3. Silicified and pyritic diorite float, fine disseminated bornite.
359276H	0.004	0.006	0.36	0.01	From skid road 600 m SW of TL-3 (Eagle 1 claim). Ultramafic (pyroxenite) dyke, containing pyrite and malachite in quartz-calcite veinlets.
359277H	0.021	1.06	2.44	0.01	Samples 359277H and 359278N from Lake 1 claim, 700 m S of TL-3 grid. Pyritic and gossanous malachite bearing quartz-calcite vein 2-15 cm thick, cutting granodiorite boulder. Druzy quartz crystals. Collected from large boulder at the base of a scree slope.
359278H	0.020	1.20	3.37	0.02	
359279H	0.004	0.13	0.32	0.01	From TL-3 grid. Rounded, gossanous granodiorite cobble containing pyrite and malachite, from circular (kill zone?) at 20,520E - 16,200N.
359281H	<0.002	0.01	0.05	0.01	From TL-3 grid, massive MnO ₂ ? float, at 15,900N - 20,180E.
359282H	0.013	1.22	2.80	0.01	From skid road on Eagle 1 claim, 650 m SW of TL-3 grid. Gossanous, malachite stained granodiorite with pyrite and chalcopyrite stringers filling fractures.

359283H <0.002 <0.01 0.30 0.01 From skid road on Eagle 1 claim, 700 m SW of TL-3 grid. Iron and malachite stained propylitic altered granodiorite (2% K-spar, 2% magnetite) Magnetite disseminated and as stringers.

Conclusions and Recommendations

The rock geochemical sampling of selected, mineralized, often gossanous specimens returned encouraging Cu values ranging from 0.05% to 3.37% (averaged 1.21% Cu), but generally yielded disappointing Au results, which ranged from <0.002 oz. Au/t to 0.02 oz. Au/t (averaged 0.008 oz. Au/t). The highest grade Au values of 0.013-0.021 oz. Au/t corresponded with the highest grade Cu values of 2.44-3.37%. These Au values are interesting but must be considered quite weak when compared to the corresponding high Cu values. A limited amount of backhoe trenching should be undertaken in the vicinity of the best anomalous soil and rock Cu ± Zn values to confirm the areas apparent lack of significant Au, Ag values.

4. Grid TL-5

Objectives

Grid TL-5 tested (1) a large Cu soil geochemical anomaly previously defined by Borondra/West Coast; (2) magnetite bearing granodiorite containing weak propylitic alteration; and (3) an area of strongly anomalous magnetics (>59,250 nT) underlying the western half of the grid.

Geology

Magnetite bearing granodiorite forms extensive outcrops in the west and southwestern parts of the grid. Weak, pervasive propylitic alteration has slightly altered the mafic minerals to chlorite and actinolite, and plagioclase to epidote and calcite. Massive epidote and pink K-spar is common as veins and fillings along fracture and fault zones. Narrow mafic dykes containing propylitic alteration are fairly common.

Topography

The grid is located on a moderate slope with open pine forest and occasional dense alder.

Soil Geochemistry

A total of 91 soil samples were collected within the 600 m by 600 m grid area.

Results:

Au - 2 anomalous values, ranging up to 65ppb Au, defined in an area of anomalous Zn values in the southwest corner of the grid.

Ag - 5 anomalous values, ranging up to 2.5 ppm Ag, usually associated with anomalous Cu and/or Zn values.

Cu - 17 anomalous values, ranging up to 1600 ppm Cu, frequently associated with anomalous Zn and/or Ag values, and discontinuously grouped in the western one-half of the grid.

Zn - 10 anomalous values, ranging up to 400 ppm Zn.

Rock Geochemistry

Four rock geochemical samples were taken in the southwest corner of the grid, in the vicinity of the two anomalous Au soil samples.

<u>Sample No.</u>	<u>Au ppb</u>	<u>Ag ppm</u>	<u>Cu ppm</u>	<u>Zn ppm</u>
359271H	<5	<0.2	158	50
359272H	<5	<0.2	160	72
359273H	90	<0.2	340	44
359274H	<5	<0.2	45	85

Conclusions and Recommendations

The sampling yielded encouraging Cu, Zn, Ag values, which in two instances were associated with anomalous Au values. The anomalous values warrant testing by a moderate amount of backhoe trenching, particularly in the vicinity of 15,400E - 22,000N, and 15,200E - 21,950N. Rock geochemical sampling results from the southwestern corner of the grid were dissappointingly low in Cu and Au.

5. Grid TL-6

Objectives

Grid TL-6 tested a weak HEM conductor in the vicinity of the Hogem Batholith/Takla Group contact.

Geology

Grid TL-6 is covered by relatively thick glacial till. The underlying geology is thought to consist of monzodiorite.

Soil Geochemistry

A total of 80 soil samples were collected within the 400 m by 800 m grid area.

Results:

Au - no anomalous values

Ag - 1 anomalous value

Cu - 8 anomalous values, ranging up to 270 ppm Cu, some of the values possibly aligned in north trending zones.

Zn - 3 anomalous values, ranging up to 280 ppm Zn, scattered across the grid.

Conclusions and Recommendations

The anomalous Cu soil geochemical values are not associated with anomalous Au values. Follow-up work does not appear to be warranted.

6. Grid TL-7

Objectives

Grid TL-7 tested four very interesting, parallel, bedrock related HEM conductors 300 m to 800 m long, whose strength and character suggest either sulphides or graphite. The conductors occur within a 1.0 km by 1.0 km resistivity low anomaly (<100 ohm.m).

Geology

The grid area is covered by thin to moderate glacial till; the underlying geology is considered from float to consist of Takla Group volcanic rocks.

Topography

The grid is situated on a moderate slope which is thickly wooded.

Soil Geochemistry

A total of 155 soil samples were collected within the 600 m by 1100 m grid area.

Results:

Au - 4 anomalous values, ranging up to 80 ppb, scattered across the grid.

Ag - 34 anomalous values, ranging up to 5.0 ppm Ag, scattered across the grid, often but not always associated with anomalous Cu and/or Zn values.

Cu - 6 anomalous values, ranging up to 390 ppm Cu. Anomalous Cu values are generally associated with anomalous Zn values.

Zn - 42 anomalous Zn values, ranging up to 1700 ppm Zn, 9 values exceed 500 ppm Zn. The anomalous Zn, Ag ± Cu, Au values occur in a few broadly defined northwest trending zones, which parallel the trend of the airborne HEM conductors, and of VLF conductors defined by four reconnaissance-style survey lines.

Conclusions and Recommendations

The soil geochemical and airborne geophysical results warrant:

- (1) additional soil sampling to detail and close off anomalous areas;
- (2) Max-Min ground geophysical surveying of the expanded grid to accurately locate the airborne (HEM) conductors; and
- (3) extensive backhoe trenching of the most promising coincident soil geochemical and Max-Min anomalies.

7. Grid TL-8

Objectives

Grid TL-8 was intended to test a weak HEM conductor, however it appears to have been incorrectly located in the field. The grid partially tested a small area of ≥2 wt.% magnetite.

Geology

Grid TL-8 is covered by glacial till. The underlying geology is assumed to consist of granite and/or granodiorite from cobbles in the "C" soil horizon.

Soil Geochemistry

A total of 47 soil samples were collected within the 400 m by 800 m grid area.

Results:

Au - 1 anomalous value of 30 ppb Au.
Ag - no anomalous values.
Cu - no anomalous values
Zn - 1 anomalous value of 200 ppm.

Conclusions and Recommendations

The soil geochemical response does not warrant follow-up.

8. Grid TL-9

Objectives

To test an area bordered by relatively small areas of strongly anomalous magnetics (>59,250 nT) and ≥ 2 wt.% magnetite.

Geology

The grid is partially covered by glacial till. The best exposures (rated fair) occur along a 10 m - 15 m high topographic feature associated with an ultramafic dyke. Geology mainly consists of diorite containing moderate magnetite. An ultramafic (pyroxenite) dyke trending E-W, locally containing up to 25% magnetite, intrudes and alters the diorite (magnetite, hematite, calcite stringers).

Soil Geochemistry

A total of 43 soil geochemical samples were taken within the 400 m by 400 m grid area.

Results:

Au - 4 anomalous values, ranging up to 90 ppb, were defined in the northeast corner of the grid, where it overlies the western edge of a strongly anomalous magnetic anomaly (>59,250 nT).

Ag - 1 anomalous value of 1.0 ppm Ag, defined in the vicinity of the anomalous Au values.

Cu - 1 anomalous value of 390 ppm Cu, defined in the vicinity of the anomalous Au values.

Zn - no anomalous values.

Rock Geochemistry

Two rock geochemical samples were taken in the north-central portion of the grid.

<u>Sample No.</u>	<u>Au oz/t</u>	<u>Ag oz/t</u>	<u>Cu %</u>	<u>Zn %</u>	<u>Comments</u>
359269H	<5	<0.2	96	69	Altered granite (?) containing magnetite and hematite veinlets and clots, white calcite stringers.
359270H	<5	<0.2	49	226	Massive magnetic ultramafic dyke.

Conclusions and Recommendations

Anomalous Au \pm Cu, Ag values defined over the western edge of a >59,250 nT airborne magnetics anomaly suggest the possibility of a satellite intrusion

mineralized with Au and Cu. Considerable additional soil sampling is warranted to test several >59,250 nT airborne magnetics anomalies and areas of ≥ 2 wt.% magnetite occurring in the vicinity.

9. Grid TL-10

Objectives

Grid TL-10 tested:

- (1) a large area of ≥ 100 ppm Cu soil geochemical values defined by Borondra/ West Coast;
- (2) a large area of strongly anomalous magnetics ($> 59,250$ nT);
- (3) a large area of 2-10 wt.% magnetite; and
- (4) an area of lower resistivity near the centre of the grid.

Geology

Magnetic granodiorite forms extensive outcrops in the northern third of the grid, the rest of the grid is covered by glacial till.

Soil Geochemistry

A total of 223 soil geochemical samples were collected within the 800 m by 1300 m grid area.

Results:

Au - 3 anomalous values, ranging up to 35 ppb Au, only one of which is associated with anomalous Cu.

Ag - no anomalous values

Cu - 42 anomalous values, ranging up to 4600 ppm Cu. Seven values exceed 500 ppm Cu. The anomalous Cu values occur in a discontinuous 500 m by 750 m area in the centre of the grid, and are associated with a few anomalous Zn and Au values.

Zn - 5 anomalous values, ranging up to 470 ppm Zn.

Conclusions and Recommendations

The importance of the large area of anomalous Cu values appears significantly downgraded by the lack of significant amounts of anomalous Au soil geochemical values. A moderate amount of backhoe tenching of areas of anomalous Cu should be undertaken to confirm the lack of significant gold values.

VI. CONCLUSIONS AND RECOMMENDATIONS

A. Grid TL-9

Anomalous Au \pm Cu, Ag values defined over the western tip of a strong airborne magnetics anomaly ($> 59,250$ nT) may indicate a favorable satellite intrusion mineralized with Au and Cu. The general area warrants considerable additional reconnaissance type soil sampling to test several strong airborne magnetics anomalies and/or areas of ≥ 2 wt.% magnetite.

B. Grid TL-7

Soil geochemical sampling undertaken over 4 HEM conductors defined by the 1989 airborne geophysical survey returned an abundance of anomalous Zn, Ag values and a modest amount of anomalous Cu, Au values, in discontinuous zones approximately paralleling the HEM conductors. The geochemical and geophysical results warrant additional soil sampling, Max-Min geophysics to pin-point the airborne conductors, and extensive backhoe trenching of the best soil geochemical/Max-Min anomalies.

C. Grids TL-3, TL-5 TL-10

Soil geochemical sampling returned significant amounts of encouraging anomalous Cu \pm Zn values, but only a few anomalous Au, Ag values. A moderate amount of backhoe trenching of the best anomalous Cu \pm Zn values should be undertaken to confirm the apparent lack of significant Au-Ag values.

D. Grids TL-1, TL-6, TL-8

Soil geochemical sampling for Au, Ag, Cu, Zn did not return sufficient encouraging results to warrant follow-up work.

E. Soil Geochemistry (late 1960's - early 1970's)

Considerable additional Au, Ag, Cu, Zn soil geochemical testing of Borondra/West Coast > 100 ppm Cu values is warranted, especially over Takla Group volcanic rocks in the south-central part of the property, and over anomalies in the east-central part of the property, that are coincident with airborne geophysical anomalies. Significant Au, Cu \pm Ag, Zn anomalies defined by this follow-up work should be tested by backhoe trenching.

F. Airborne Geophysics (1989)

Considerable additional Au, Ag, Cu, Zn soil geochemical testing of moderate sized, moderate to strong airborne magnetics anomalies is warranted, especially those situated adjacent to large magnetics anomalies. They may reflect Au-Cu mineralized satellite intrusions, similar to those hosting the Mt. Milligan Au-Cu alkaline porphyry deposits.

Areas of anomalous wt. % magnetite that do not closely coincide with areas of strongly anomalous magnetics response also warrant significant amounts of Au, Ag, Cu, Zn soil geochemical testing. They may reflect areas of hydrothermal magnetite alteration, which at Mt. Milligan hosts Au-Cu mineralization. Significant Au, Cu ± Ag, Zn anomalies defined by this follow-up work should be tested by backhoe trenching.

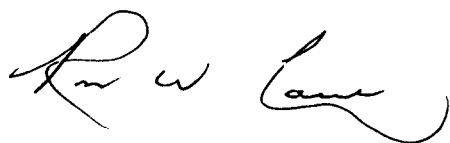
VII. EXPENDITURES

Geochemical analysis (soils)		\$10,500
Salaries		
Geologists: 50 man days @ \$200/day	= \$10,000	
Technicians: 40 man days @ \$110/day	= <u>4,400</u>	14,400
Charter - Fixed Wing		1,800
Charter - Helicopter		8,700
Vehicle Rental		1,500
Camp Costs, Supplies		2,100
Expeditor		500
Drafting		2,000
Shipping - samples, camp equipment		300
Radio Telephone - Rental and Calls		500
Office Overhead - 10%		<u>4,200</u>
Total		<u>\$46,500</u>

VIII. STATEMENT OF QUALIFICATIONS

I, Ron W. Lane, of 7673 Sutton Place, North Delta, B.C., graduated in 1971 from the University of Alberta, Edmonton, Alberta, with a Bachelor of Science - majoring in Geology.

Since graduation, I have worked on a continuous basis as an exploration geologist in British Columbia, Yukon Territory, Northwest Territories, Alberta, Southern Africa and Italy.

A handwritten signature in cursive script that reads "Ron W. Lane". The signature is written in black ink and is positioned above the typed name and title.

Ron W. Lane
Project Geologist
Westmin Mines Limited

IX. REFERENCES

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X. APPENDIX

A. Analytical Procedures and Values



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PHONE (604) 984-0221

To: WESTMIN RESOURCES LIMITED

P.O. Box 49066, The Bentall Centre
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V7X 1C4

A8924500

Comments: ATTN: RON LANE

CERTIFICATE A8924500

WESTMIN RESOURCES LIMITED
PROJECT : NATION LAKES
P.O. # : 7458

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-AUG-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	8	RUSH Assay: Crush.split. ring

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
981	8	Au oz/T: RUSH. 1/2 assay ton	FA-AAS	0.002	20.000
385	8	Ag oz/T: Aqua regia digestion	AAS	0.01	20.0
301	8	Cu %: HClO4-HNO3 digestion	AAS	0.01	100.0
316	8	Zn %: HClO4-HNO3 digestion	AAS	0.01	100.0



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A8924533

Comments: ATTN: RON LANE

CERTIFICATE A8924533

WESTMIN RESOURCES LIMITED

PROJECT : NATION LAKES

P.O. # : 7458

Samples submitted to our lab in Vancouver, BC.

This report was printed on 7-SEP-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
203	200	Dry, sieve -35 mesh and ring

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	200	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2	200	Cu ppm: HNO ₃ -aqua regia digest	AAS	1	10000
5	200	Zn ppm: HNO ₃ -aqua regia digest	AAS	1	10000
6	200	Ag ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	0.2	100.0



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Project: NATION LAKES
Comments: ATTN: RON LANE

Page No 1
Tot. Pages: 4
Date: 28-AUG-89
Invoice #: I-8923547
P.O. #: 7459

CERTIFICATE OF ANALYSIS A8923547

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	Cu ppm	Zn ppm				
359151 H	201 ---	10	< 0.2	22	47				
359152 H	201 ---	< 5	< 0.2	16	45				
359153 H	201 ---	< 5	< 0.2	20	66				
359154 H	201 ---	< 5	< 0.2	16	66				
359155 H	201 ---	30	0.3	20	51				
359156 H	201 ---	< 5	0.4	39	88				
359157 H	201 ---	< 5	0.3	19	49				
359158 H	201 ---	< 5	< 0.2	35	72				
359159 H	201 ---	< 5	0.2	12	46				
359160 H	201 ---	< 5	0.2	33	47				
359161 H	201 ---	< 5	0.3	20	94				
359162 H	201 ---	< 5	0.2	25	65				
359163 H	201 ---	< 5	0.2	41	61				
359164 H	201 ---	< 5	< 0.2	32	45				
359165 H	201 ---	< 5	0.2	17	44				
359166 H	201 ---	< 5	0.2	18	50				
359167 H	201 ---	50	0.2	19	54				
359168 H	201 ---	< 5	0.2	20	49				
359169 H	201 ---	< 5	0.2	19	54				
359170 H	201 ---	< 5	0.2	18	43				
359171 H	201 ---	< 5	0.2	16	45				
359172 H	201 ---	< 5	0.2	16	54				
359173 H	201 ---	< 5	0.2	18	88				
359174 H	201 ---	< 5	0.3	19	59				
359175 H	201 ---	< 5	0.2	25	51				
359176 H	201 ---	< 5	0.2	19	57				
359177 H	201 ---	< 5	0.2	19	55				
359178 H	201 ---	< 5	0.2	14	47				
359179 H	201 ---	< 5	0.2	15	39				
359180 H	201 ---	< 5	0.2	30	47				
359181 H	201 ---	< 5	0.2	22	62				
359182 H	201 ---	< 5	0.2	23	50				
359183 H	201 ---	30	0.2	21	56				
359184 H	201 ---	< 5	0.2	15	41				
359185 H	201 ---	< 5	0.2	21	40				
359186 H	201 ---	< 5	0.2	11	47				
359187 H	201 ---	< 5	0.2	30	56				
359188 H	201 ---	< 5	0.2	38	60				
359189 H	201 ---	< 5	0.2	26	81				
359190 H	201 ---	< 5	0.2	27	46				

CERTIFICATION :

Hart Beckler



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CERTIFICATE OF ANALYSIS A8923547

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	Cu ppm	Zn ppm					
359191 H	201	< 5	< 0.2	15	40					
359192 H	201	< 5	< 0.2	21	46					
359193 H	201	< 5	< 0.2	20	62					
359194 H	201	< 5	< 0.2	24	55					
359195 H	201	< 5	< 0.2	44	120					
359196 H	201	< 5	< 0.4	48	200					
359197 H	201	10	< 0.2	17	51					
359198 H	201	< 5	< 0.4	14	64					
359199 H	201	< 5	< 0.2	25	60					
359200 H	201	< 5	< 0.2	20	60					
359201 H	201	< 5	< 0.2	19	46					
359203 H	201	< 5	< 0.2	15	42					
359204 H	201	< 5	< 0.2	17	47					
359205 H	201	< 5	< 0.3	20	45					
359206 H	201	< 5	< 0.2	21	52					
359207 H	201	< 5	< 0.2	16	47					
359208 H	201	< 5	< 0.2	31	92					
359209 H	201	< 5	< 0.2	21	58					
359210 H	201	< 5	< 0.2	12	48					
359211 H	201	< 5	< 0.2	13	41					
359212 H	201	< 5	< 0.2	20	60					
359213 H	201	< 5	< 0.4	46	95					
359214 H	201	< 5	< 0.2	19	41					
359216 H	201	< 5	< 0.2	13	46					
359217 H	201	< 5	< 0.2	17	44					
359218 H	201	< 5	< 0.2	18	43					
359219 H	201	< 5	< 0.2	26	60					
359220 H	201	< 5	< 0.2	19	19					
359221 H	201	65	< 0.2	31	71					
359222 H	201	35	< 0.2	18	66					
359223 H	201	< 5	< 0.2	13	58					
359224 H	201	< 5	< 0.2	17	52					
359225 H	201	< 5	< 0.2	19	56					
359226 H	201	< 5	< 0.2	22	70					
359227 H	201	< 5	< 0.2	16	42					
359228 H	201	< 5	< 0.2	18	40					
359229 H	201	< 5	< 0.2	17	47					
359230 H	201	< 5	< 0.2	20	50					
359231 H	201	< 5	< 0.2	18	45					
359232 H	201	< 5	< 0.2	21	55					

CERTIFICATION :

Hart Bichler



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Comments: ATTN: RON LANE

Page No: 3
Tot. Pages: 4
Date: 28-AUG-89
Invoice #: I-8923547
P.O. #: 7459

CERTIFICATE OF ANALYSIS A8923547

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	Cu ppm	Zn ppm
359233 H	201 ---	< 5	< 0.2	18	49
359234 H	201 ---	< 5	< 0.2	24	72
359235 H	201 ---	< 5	< 0.2	24	68
359236 H	201 ---	< 5	< 0.2	21	59
359237 H	201 ---	10	< 0.2	24	65
359238 H	201 ---	< 5	0.3	28	68
359239 H	201 ---	< 5	< 0.2	23	43
359240 H	201 ---	< 5	< 0.2	16	46
359241 H	201 ---	< 5	< 0.2	21	47
359242 H	201 ---	< 5	< 0.2	23	47
359243 H	201 ---	< 5	< 0.2	26	62
359244 H	201 ---	< 5	< 0.2	19	50
359245 H	201 ---	< 5	< 0.2	19	47
359246 H	201 ---	< 5	< 0.2	19	40
359247 H	201 ---	< 5	< 0.2	24	44
359248 H	201 ---	< 5	< 0.2	21	62
359249 H	201 ---	< 5	< 0.2	24	56
359250 H	201 ---	< 5	< 0.2	26	57
359251 H	201 ---	< 5	< 0.2	24	54
359252 H	201 ---	< 5	< 0.2	23	49
359253 H	201 ---	< 5	< 0.2	16	42
359254 H	201 ---	< 5	< 0.2	17	43
359255 H	201 ---	< 5	0.7	74	190
359256 H	201 ---	< 5	< 0.2	25	45
359257 H	201 ---	< 5	< 0.2	22	58
359258 H	201 ---	< 5	< 0.2	21	44
359259 H	201 ---	< 5	< 0.2	38	64
359260 H	201 ---	< 5	< 0.2	26	57
359261 H	201 ---	< 5	< 0.2	31	84
359262 H	201 ---	< 5	< 0.2	20	60
359263 H	201 ---	< 5	0.2	20	46
359264 H	201 ---	< 5	0.3	45	78
359265 H	201 ---	< 5	< 0.2	24	45
359266 H	201 ---	15	0.2	17	41
359267 H	201 ---	< 5	0.4	60	46
359301 H	201 ---	< 5	< 0.2	32	58
359302 H	201 ---	< 5	< 0.2	30	42
359303 H	201 ---	< 5	< 0.2	33	42
359304 H	201 ---	< 5	0.3	32	46
359305 H	201 ---	< 5	< 0.2	33	48

CERTIFICATION

Hart Buchler



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Project: NATION LAKES
Comments: ATTN: RON LANE

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Date: 28-AUG-89
Invoice #: I-8923547
P.O. #: 7459

CERTIFICATE OF ANALYSIS A8923547

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	Cu ppm	Zn ppm
359306 H	201 ---	< 5	0.4	61	109
359307 H	201 ---	15	< 0.2	13	58
359308 H	201 ---	< 5	0.4	44	115
359309 H	201 ---	< 5	0.2	53	164
359310 H	201 ---	< 5	0.3	49	46
359311 H	201 ---	< 5	0.2	42	42
359312 H	201 ---	< 5	0.2	55	69
359313 H	201 ---	< 5	0.2	29	59
359314 H	201 ---	< 5	0.4	34	94
359315 H	201 ---	< 5	0.4	39	115
359316 H	201 ---	< 5	0.2	46	85
359317 H	201 ---	< 5	0.2	44	160
359318 H	201 ---	< 5	0.2	69	120
359319 H	201 ---	< 5	0.2	49	160
359320 H	201 ---	< 5	0.2	39	97
359321 H	201 ---	< 5	0.2	36	45
359322 H	201 ---	< 5	0.2	33	51
359323 H	201 ---	< 5	0.2	36	130
359324 H	201 ---	< 5	0.2	52	43
359325 H	201 ---	< 5	0.2	31	125
359326 H	201 ---	< 5	0.2	30	146
359327 H	201 ---	< 5	0.2	57	65
359328 H	201 ---	< 5	0.2	64	50
359329 H	201 ---	< 5	0.2	48	47
359330 H	201 ---	< 5	0.2	29	47
359331 H	201 ---	25	0.2	32	70
359332 H	201 ---	15	0.2	45	77
359333 H	201 ---	< 5	0.2	29	105
359334 H	201 ---	< 5	0.2	27	61
359335 H	201 ---	< 5	0.2	24	47
359336 H	201 ---	< 5	0.2	74	50
359337 H	201 ---	< 5	0.2	38	54
359338 H	201 ---	< 5	0.2	68	80
359339 H	201 ---	90	0.2	61	86
359340 H	201 ---	< 5	0.7	390	100
359341 H	201 ---	30	0.2	25	34
359342 H	201 ---	70	0.2	40	92
359343 H	201 ---	< 5	1.0	143	54

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Project : NATION LAKES
Comments: ATTN: RON LANE

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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8924117

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
359271 H	212 ---	< 5	158	50	< 0.2						
359272 H	212 ---	< 5	160	72	< 0.2						
359273 H	212 ---	90	340	44	< 0.2						
359274 H	212 ---	< 5	45	85	< 0.2						
443455 H	212 ---	< 5	76	45	< 0.2						
443456 H	212 ---	< 5	7	38	< 0.2						
443457 H	212 ---	< 5	120	53	< 0.2						
443458 H	212 ---	< 5	146	48	< 0.2						

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CERTIFICATE OF ANALYSIS A8924118

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
359344 H	201	---	< 5	35	127	< 0.2					
359345 H	201	---	< 5	91	270	0.2					
359346 H	201	---	< 60	90	150	0.7					
359347 H	201	---	< 5	54	220	0.5					
359348 H	201	---	< 5	63	120	< 0.2					
359349 H	201	---	< 65	79	200	< 0.2					
359350 H	201	---	< 5	72	157	0.3					
359351 H	201	---	< 5	90	170	0.4					
359352 H	201	---	< 5	220	220	0.5					
359353 H	201	---	< 5	104	140	0.2					
359354 H	201	---	< 5	34	67	< 0.2					
359355 H	201	---	< 5	168	210	0.3					
359356 H	201	---	< 5	90	150	0.2					
359357 H	201	---	< 5	56	146	0.3					
359358 H	201	---	< 5	54	182	0.3					
359359 H	201	---	< 5	85	180	0.6					
359360 H	201	---	< 5	52	180	0.4					
359362 H	201	---	< 5	132	400	1.4					
359363 H	201	---	< 5	53	105	0.3					
359364 H	201	---	< 5	900	210	0.6					
359365 H	201	---	< 5	97	260	< 0.2					
359366 H	201	---	< 5	75	144	0.3					
359367 H	201	---	< 5	188	87	0.2					
359368 H	201	---	< 5	96	120	0.2					
359369 H	201	---	< 5	55	156	< 0.2					
359370 H	201	---	< 5	24	83	< 0.2					
359371 H	201	---	< 5	200	187	1.2					
359372 H	201	---	< 5	56	135	0.4					
359373 H	201	---	< 5	32	148	0.3					
359374 H	201	---	< 5	67	248	0.4					
359375 H	201	---	< 5	450	240	1.6					
359376 H	201	---	< 5	53	118	0.5					
359377 H	201	---	< 5	310	200	1.9					
359378 H	201	---	< 5	180	137	0.4					
359379 H	201	---	< 5	100	139	0.2					
359380 H	201	---	< 5	1600	230	0.2					
359381 H	201	---	< 5	96	100	0.3					
359382 H	201	---	< 5	93	130	0.3					
359383 H	201	---	< 5	430	210	1.7					
359384 H	201	---	< 5	75	119	0.3					

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Project : NATION LAKES
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CERTIFICATE OF ANALYSIS A8924118

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
359385 H	201	--	< 5	56	140	0.4					
359386 H	201	--	< 5	36	150	0.2					
359387 H	201	--	< 5	39	115	0.6					
359388 H	201	--	< 5	45	166	0.3					
359389 H	201	--	< 5	95	122	0.8					
359390 H	201	--	< 5	400	230	2.5					
359392 H	201	--	< 5	24	46	< 0.2					
359393 H	201	--	< 5	65	154	0.2					
359394 H	201	--	< 5	48	132	0.2					
359395 H	201	--	< 5	64	63	0.2					
359396 H	201	--	< 5	230	187	< 0.2					
359397 H	201	--	< 5	130	360	0.3					
359398 H	201	--	< 5	135	200	0.4					
359399 H	201	--	< 5	30	144	0.2					
359400 H	201	--	< 5	42	200	0.2					
359401 H	201	--	< 5	80	130	0.2					
359402 H	201	--	< 5	180	153	0.4					
359403 H	201	--	< 5	34	124	< 0.2					
359404 H	201	--	< 5	93	105	0.2					
359405 H	201	--	< 5	68	144	0.3					
359406 H	201	--	< 5	23	54	0.3					
359407 H	201	--	< 5	34	90	0.3					
359408 H	201	--	< 5	26	67	< 0.2					
359409 H	201	--	< 5	153	205	0.3					
359410 H	201	--	< 5	56	98	0.4					
359411 H	201	--	< 5	58	145	0.7					
359412 H	201	--	< 5	360	150	1.1					
359413 H	201	--	< 5	54	113	0.4					
359414 H	201	--	< 5	63	120	0.2					
359415 H	201	--	< 5	20	50	0.3					
359416 H	201	--	< 5	87	115	0.2					
359418 H	201	--	< 5	118	190	0.5					
359419 H	201	--	< 5	20	84	< 0.2					
359420 H	201	--	< 5	36	126	0.8					
359421 H	201	--	< 5	160	155	1.4					
359422 H	201	--	< 5	50	110	0.2					
359423 H	201	--	< 5	165	164	< 0.2					
359424 H	201	--	< 5	96	132	0.5					
359425 H	201	--	< 5	40	107	0.2					
359426 H	201	--	< 5	31	119	0.2					

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
359427 H	201	< 5	44	108	< 0.2						
359428 H	201	< 5	75	118	< 0.2						
359429 H	201	< 5	115	290	< 0.8						
359430 H	201	< 5	86	104	< 0.2						
359431 H	201	< 5	29	74	0.2						
359432 H	201	< 5	138	153	0.3						
359433 H	201	< 5	175	300	0.6						
359434 H	201	< 5	37	94	0.9						
443301 H	201	< 5	167	305	1.4						
443302 H	201	< 5	65	109	0.3						
443303 H	201	< 5	56	109	0.3						
443304 H	201	< 10	54	110	0.7						
443305 H	201	< 5	32	79	0.5						
443306 H	201	< 5	44	155	0.6						
443307 H	201	< 5	49	110	0.5						
443308 H	201	< 10	21	57	0.3						
443309 H	201	< 5	36	159	0.7						
443310 H	201	< 5	24	58	0.2						
443311 H	201	< 5	56	360	1.2						
443312 H	201	< 5	110	620	1.1						
443313 H	201	< 5	32	170	0.2						
443314 H	201	< 5	20	73	0.5						
443315 H	201	< 5	23	70	0.6						
443316 H	201	< 5	42	87	0.7						
443317 H	201	< 5	42	86	0.5						
443318 H	201	< 5	56	110	0.5						
443319 H	201	< 5	53	130	0.2						
443320 H	201	< 5	64	300	2.1						
443321 H	201	< 5	106	1700	0.8						
443322 H	201	< 5	31	100	0.3						
443323 H	201	< 5	27	70	0.2						
443324 H	201	< 5	48	156	0.3						
443325 H	201	< 5	41	109	1.0						
443326 H	201	< 5	300	590	5.0						
443327 H	201	< 5	39	100	0.8						
443328 H	201	< 5	41	130	0.8						
443329 H	201	< 5	25	95	0.6						
443330 H	201	< 5	40	106	0.6						
443331 H	201	< 5	38	105	0.3						
443332 H	201	< 5	33	90	0.6						

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Project : NATION LAKES
Comments : ATTN: RON LANE

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CERTIFICATE OF ANALYSIS A8924118

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
443333 H	201	--	< 5	50	110	0.4					
443334 H	201	--	< 5	134	295	2.1					
443335 H	201	--	< 5	62	130	0.3					
443336 H	201	--	< 5	41	137	0.3					
443337 H	201	--	< 5	41	92	0.3					
443338 H	201	--	< 5	90	132	0.6					
443339 H	201	--	< 5	69	146	0.3					
443340 H	201	--	< 5	77	150	0.3					
443341 H	201	--	< 5	44	107	1.6					
443342 H	201	--	< 5	30	85	0.4					
443343 H	201	--	< 5	78	159	0.8					
443344 H	201	--	< 5	52	145	0.8					
443345 H	201	--	10	56	130	1.4					
443346 H	201	--	< 5	70	260	0.4					
443347 H	201	--	< 5	39	105	0.2					
443348 H	201	--	< 5	49	190	0.4					
443349 H	201	--	< 5	180	790	0.8					
443350 H	201	--	< 5	94	600	0.6					
443351 H	201	--	< 5	188	460	1.0					
443352 H	201	--	< 5	210	380	1.2					
443353 H	201	--	< 5	85	142	0.4					
443354 H	201	--	< 5	47	116	1.1					
443355 H	201	--	< 5	73	130	1.0					
443356 H	201	--	< 5	51	170	0.9					
443357 H	201	--	< 5	50	110	1.1					
443358 H	201	--	< 5	55	205	0.6					
443359 H	201	--	< 5	39	119	0.6					
443360 H	201	--	< 5	47	127	0.6					
443361 H	201	--	< 5	56	200	0.9					
443362 H	201	--	5	55	165	0.8					
443363 H	201	--	< 5	46	150	0.8					
443364 H	201	--	< 5	38	97	0.3					
443365 H	201	--	< 5	52	174	0.7					
443366 H	201	--	5	57	140	1.3					
443367 H	201	--	10	60	160	1.2					
443368 H	201	--	< 5	95	220	0.5					
443369 H	201	--	< 5	65	170	0.6					
443370 H	201	--	25	42	143	0.6					
443371 H	201	--	15	41	125	0.5					
443372 H	201	--	< 5	70	165	0.7					

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Project : NATION LAKES
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CERTIFICATE OF ANALYSIS A8924118

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
443373 H	201	< 5	64	210	0.5						
443374 H	201	< 10	46	158	1.1						
443375 H	201	< 5	45	118	1.0						
443376 H	201	< 5	35	90	0.9						
443377 H	201	< 5	29	117	0.9						
443378 H	201	< 5	104	380	1.4						
443379 H	201	< 15	61	190	0.8						
443380 H	201	< 5	80	196	1.2						
443381 H	201	< 5	63	174	0.5						
443382 H	201	< 5	46	240	0.5						
443383 H	201	< 5	54	250	0.6						
443384 H	201	< 5	77	410	0.5						
443385 H	201	< 5	63	140	0.6						
443386 H	201	< 5	36	98	0.6						
443387 H	201	< 5	51	110	0.8						
443388 H	201	< 5	48	168	0.9						
443389 H	201	< 10	90	140	0.7						
443390 H	201	< 5	150	270	1.6						
443391 H	201	< 5	74	140	0.7						
443392 H	201	< 5	72	350	0.5						
443393 H	201	< 5	131	270	1.0						
443394 H	201	< 5	64	210	2.8						
443395 H	201	< 5	30	75	0.6						
443396 H	201	< 5	70	160	1.2						
443398 H	201	< 5	45	130	0.8						
443399 H	201	< 5	47	100	0.8						
443400 H	201	< 5	35	400	0.5						
443451 H	201	< 5	98	740	1.5						
443452 H	201	< 5	34	140	0.3						
443453 H	201	20	43	170	0.4						
443454 H	201	< 80	48	62	0.4						
453001 H	201	< 5	88	190	0.3						
453002 H	201	< 5	115	109	0.4						
453003 H	201	< 5	72	105	0.3						
453004 H	201	< 5	200	190	0.5						
453005 H	201	< 5	45	129	0.4						
453006 H	201	< 5	74	98	0.4						
453007 H	201	< 5	74	82	0.3						
453008 H	201	< 5	95	96	0.2						

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Project : NATION LAKES
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CERTIFICATE OF ANALYSIS A8924119

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453009 H	201 ---	< 5	30	60	< 0.2						
453010 H	201 ---	< 5	270	280	1.1						
453011 H	201 ---	< 5	30	83	< 0.2						
453012 H	201 ---	< 5	38	130	0.4						
453013 H	201 ---	< 5	27	66	0.2						
453014 H	201 ---	< 5	126	96	0.2						
453015 H	201 ---	< 5	95	162	0.2						
453016 H	201 ---	< 5	52	143	0.6						
453017 H	201 ---	< 5	51	130	0.3						
453018 H	201 ---	< 5	42	120	0.8						
453019 H	201 ---	< 5	82	149	0.2						
453020 H	201 ---	< 5	45	144	0.3						
453021 H	201 ---	< 5	100	150	0.7						
453022 H	201 ---	< 5	72	91	0.3						
453023 H	201 ---	< 5	50	120	0.3						
453024 H	201 ---	< 5	155	170	0.5						
453025 H	201 ---	< 5	42	138	0.3						
453026 H	201 ---	< 5	60	122	0.3						
453027 H	201 ---	< 5	36	106	0.3						
453028 H	201 ---	< 5	63	190	0.2						
453029 H	201 ---	< 5	67	210	0.4						
453030 H	201 ---	< 5	50	300	0.4						
453031 H	201 ---	< 5	49	93	0.3						
453032 H	201 ---	< 5	140	200	0.5						
453033 H	201 ---	< 5	50	73	0.4						
453034 H	201 ---	< 5	110	80	0.4						
453035 H	201 ---	< 5	97	130	0.8						
453036 H	201 ---	10	200	147	0.3						
453037 H	201 ---	< 5	55	130	0.3						
453038 H	201 ---	< 5	44	130	0.4						
453039 H	201 ---	< 5	167	180	0.3						
453040 H	201 ---	< 5	46	83	0.3						
453041 H	201 ---	< 5	78	127	0.3						
453042 H	201 ---	< 5	45	90	0.5						
453043 H	201 ---	< 5	81	136	0.6						
453044 H	201 ---	< 5	110	86	0.2						
453045 H	201 ---	< 5	62	106	0.4						
453046 H	201 ---	< 5	55	88	0.3						
453047 H	201 ---	< 5	118	100	< 0.2						
453048 H	201 ---	< 5	52	77	0.2						

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453049 H	201 ---	10	100	90	< 0.2						
453050 H	201 ---	15	70	115	0.3						
453051 H	201 ---	< 5	75	158	0.5						
453052 H	201 ---	< 5	145	120	0.6						
453053 H	201 ---	5	165	110	0.6						
453054 H	201 ---	5	96	195	0.5						
453055 H	201 ---	< 5	105	120	0.4						
453056 H	201 ---	15	77	154	0.2						
453057 H	201 ---	< 5	60	133	0.3						
453058 H	201 ---	< 5	27	100	0.4						
453059 H	201 ---	5	88	103	0.5						
453060 H	201 ---	< 5	80	130	0.6						
453061 H	201 ---	< 5	53	120	0.5						
453062 H	201 ---	< 5	70	94	0.4						
453063 H	201 ---	5	190	122	0.6						
453064 H	201 ---	45	79	108	0.3						
453065 H	201 ---	5	79	158	0.5						
453066 H	201 ---	< 5	95	180	0.4						
453067 H	201 ---	5	47	120	0.3						
453068 H	201 ---	< 5	70	190	0.3						
453069 H	201 ---	< 5	48	107	< 0.2						
453070 H	201 ---	< 5	63	127	0.2						
453071 H	203 ---	< 5	96	118	0.5						
453072 H	201 ---	5	75	146	0.4						
453073 H	201 ---	15	54	100	0.2						
453074 H	201 ---	15	38	215	< 0.2						
453075 H	201 ---	5	62	164	0.2						
453076 H	201 ---	< 5	32	125	0.4						
453077 H	201 ---	20	39	71	0.2						
453079 H	201 ---	5	54	87	< 0.2						
453080 H	201 ---	< 5	64	132	0.9						
453081 H	201 ---	< 5	55	100	0.5						
453082 H	201 ---	< 5	43	170	0.6						
453083 H	201 ---	< 5	80	280	0.9						
453084 H	201 ---	10	110	120	0.7						
453085 H	201 ---	< 5	42	300	0.8						
453086 H	201 ---	< 5	47	124	0.9						
453087 H	201 ---	10	26	145	0.9						
453088 H	201 ---	10	93	128	0.5						
453089 H	201 ---	< 5	40	100	< 0.2						

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453090 H	201	< 5	27	110	0.3						
453091 H	201	< 5	97	200	1.2						
453092 H	201	< 5	47	88	0.4						
453093 H	201	< 5	51	65	0.8						
453094 H	201	< 5	123	270	1.1						
453095 H	201	< 5	154	870	1.5						
453096 H	201	< 5	104	370	0.5						
453097 H	201	< 5	22	88	0.4						
453098 H	201	< 5	44	92	0.2						
453099 H	201	85	43	96	0.3						
453100 H	201	< 15	48	145	0.2						
453101 H	201	< 5	83	206	0.7						
453102 H	201	< 5	56	420	0.6						
453103 H	201	< 5	119	750	1.2						
453104 H	201	< 5	105	610	1.3						
453105 H	201	< 5	63	300	0.3						
453106 H	201	< 10	39	110	0.2						
453107 H	201	< 5	175	260	1.2						
453108 H	201	15	68	210	0.7						
453109 H	201	10	120	160	1.2						
453110 H	203	25	390	270	3.0						
453111 H	201	< 10	75	140	0.5						
453112 H	201	< 5	81	185	0.9						
453113 H	201	< 5	89	300	1.0						
453114 H	201	15	120	420	1.1						
453115 H	201	< 5	54	144	1.7						
453116 H	201	< 10	29	96	0.4						
453117 H	201	< 5	13	59	0.3						
453118 H	201	< 5	46	149	1.1						
453119 H	201	< 5	28	91	0.3						
453120 H	201	< 10	55	109	0.2						
453121 H	201	< 5	82	170	0.6						
453122 H	201	< 15	87	166	0.2						
453123 H	201	< 5	120	200	1.7						
453124 H	201	< 5	44	150	0.6						
453125 H	201	< 5	30	73	1.3						
453126 H	201	< 5	81	160	1.3						
453127 H	201	< 5	47	98	0.7						
453128 H	201	< 5	29	150	0.7						
453129 H	201	15	118	135	0.3						

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CERTIFICATE OF ANALYSIS A8924119

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453130 H	201 ---	< 5	35	110	0.4						
453131 H	201 ---	< 5	62	143	0.3						
453132 H	201 ---	< 5	44	124	0.4						
453133 H	201 ---	< 5	19	54	< 0.2						

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SAMPLE DESCRIPTION	PREP CODE	Au oz/T RUSH	Ag oz/T	Cu %	Zn %						
359275 H	258 ---	0.002	0.04	0.11	0.01						
359276 H	258 ---	0.004	0.06	0.36	0.01						
359277 H	258 ---	0.021	1.06	2.44	0.01						
359278 H	258 ---	0.020	1.20	3.37	0.02						
359279 H	258 ---	0.004	0.13	0.32	0.01						
359281 H	258 ---	< 0.002	0.01	0.05	0.01						
359282 H	258 ---	0.013	1.22	2.80	0.01						
359283 H	258 ---	< 0.002	< 0.01	0.30	0.01						

CERTIFICATION : *W. Stan Amis*



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CERTIFICATE OF ANALYSIS A8924533

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
359280	203	< 5	102	94	< 0.2						
453134	203	< 5	47	88	0.2						
453135	203	< 5	670	470	1.8						
453136	203	< 5	48	100	0.2						
453137	203	< 5	43	75	0.2						
453138	203	< 30	720	140	0.9						
453140	203	< 5	39	48	0.4						
453141	203	< 5	75	144	0.2						
453142	203	< 5	295	109	< 0.2						
453143	203	< 5	35	56	0.2						
453144	203	< 5	82	100	0.3						
453145	203	< 5	40	74	< 0.2						
453146	203	< 5	95	146	< 0.2						
453147	203	< 5	110	74	< 0.2						
453148	203	< 5	56	81	< 0.2						
453149	203	< 5	37	78	< 0.2						
453150	203	< 5	70	85	< 0.2						
453151	203	< 5	77	86	< 0.2						
453152	203	< 5	42	89	< 0.2						
453153	203	< 5	103	76	0.2						
453154	203	< 5	100	62	0.3						
453155	203	< 5	30	45	0.2						
453156	203	< 5	158	145	0.6						
453157	203	< 5	29	45	< 0.2						
453158	203	< 35	56	50	0.2						
453159	203	< 5	32	84	< 0.2						
453160	203	< 5	86	100	< 0.2						
453161	203	< 5	33	78	< 0.2						
453162	203	< 5	161	109	0.2						
453163	203	< 5	89	100	0.5						
453164	203	< 5	208	159	0.5						
453165	203	< 5	46	90	0.4						
453166	203	< 5	188	132	0.3						
453167	203	< 5	290	152	0.5						
453168	203	< 5	47	110	0.4						
453169	203	< 5	600	275	1.7						
453170	203	< 5	91	114	0.3						
453171	203	< 35	21	100	0.2						
453172	203	< 5	218	120	0.2						
453173	203	< 5	71	126	0.4						

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453174	203	< 5	58	93	0.2						
453175	203	< 5	59	97	< 0.2						
453176	203	< 5	105	117	0.3						
453177	203	< 5	32	108	0.2						
453178	203	< 5	96	130	< 0.2						
453179	203	< 5	61	84	< 0.2						
453180	203	< 5	65	92	0.2						
453181	203	< 5	49	96	0.2						
453182	203	< 5	75	81	0.2						
453183	203	10	78	92	0.3						
453184	203	< 5	45	90	0.7						
453185	203	< 5	191	147	0.3						
453186	203	< 5	37	80	0.3						
453187	203	< 5	49	106	0.3						
453188	203	< 5	260	165	0.5						
453189	203	< 5	78	114	2.9						
453190	203	< 5	80	130	0.5						
453191	203	< 5	39	82	0.3						
453192	203	< 5	53	84	0.2						
453193	203	< 5	48	87	0.2						
453194	203	< 5	63	110	0.3						
453195	203	< 5	53	100	0.4						
453196	203	< 5	129	64	< 0.2						
453197	203	< 5	334	157	0.2						
453198	203	< 5	82	76	0.4						
453199	203	< 5	66	115	0.2						
453200	203	< 5	100	108	0.2						
453201	203	< 5	121	106	0.2						
453202	203	< 5	80	122	0.2						
453203	203	< 5	53	68	0.2						
453204	203	< 5	40	94	0.5						
453205	203	< 5	67	56	< 0.2						
453206	203	< 5	44	47	0.2						
453207	203	< 5	48	100	0.2						
453208	203	< 5	50	85	0.3						
453209	203	20	61	122	0.8						
453210	203	< 5	53	86	0.3						
453211	203	< 5	75	112	0.2						
453212	203	< 5	25	60	0.3						
453213	203	< 5	70	117	< 0.2						

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453214	203	< 5	96	130	0.2						
453215	203	< 5	180	136	0.2						
453216	203	< 5	4600	143	0.3						
453217	203	< 5	620	98	< 0.2						
453218	203	< 5	160	146	0.2						
453219	203	< 5	100	153	0.3						
453220	203	< 5	94	210	0.2						
453221	203	< 5	82	85	0.2						
453222	203	< 5	380	230	0.2						
453223	203	< 5	380	156	0.4						
453224	203	< 5	185	147	< 0.2						
453225	203	< 5	280	107	0.3						
453226	203	< 5	730	133	< 0.2						
453227	203	< 5	380	95	0.5						
453228	203	< 5	60	110	0.3						
453229	203	< 5	95	180	0.6						
453230	203	< 5	51	138	< 0.2						
453231	203	< 5	37	97	< 0.2						
453232	203	< 5	103	129	0.2						
453233	203	< 5	60	82	0.2						
453234	203	< 5	62	110	0.2						
453235	203	< 5	29	85	0.2						
453236	203	< 5	132	120	< 0.2						
453237	203	< 5	72	100	0.5						
453238	203	< 5	165	107	0.2						
453239	203	< 5	100	83	0.2						
453240	203	< 5	61	86	0.3						
453241	203	< 5	66	83	0.3						
453242	203	< 5	45	74	0.3						
453243	203	< 5	133	76	< 0.2						
453244	203	< 5	317	110	< 0.2						
453245	203	< 5	72	140	0.2						
453246	203	< 5	61	69	0.2						
453247	203	< 5	246	175	< 0.2						
453248	203	< 5	400	80	0.3						
453249	203	< 5	123	109	0.2						
453250	203	< 5	35	70	< 0.2						
453252	203	< 5	167	133	0.3						
453253	203	< 5	59	104	0.2						
453254	203	< 5	82	75	< 0.2						

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453255	203	< 5	59	100	< 0.2						
453256	203	< 5	177	174	0.3						
453257	203	< 5	62	84	0.2						
453258	203	< 5	84	105	0.2						
453259	203	< 5	25	69	0.2						
453260	203	< 5	100	120	< 0.2						
453261	203	< 5	45	145	0.5						
453262	203	< 5	238	126	1.8						
453263	203	< 5	56	106	< 0.2						
453264	203	< 5	89	91	< 0.2						
453265	203	< 5	59	116	0.2						
453266	203	< 5	21	61	0.3						
453267	203	< 5	51	73	0.2						
453268	203	< 5	52	82	< 0.2						
453269	203	< 5	430	160	0.4						
453270	203	< 5	97	100	< 0.2						
453271	203	< 5	94	157	0.2						
453272	203	< 5	750	98	< 0.2						
453273	203	< 5	70	89	0.2						
453274	203	< 5	100	182	< 0.2						
453275	203	< 5	264	134	0.6						
453276	203	< 5	100	95	0.2						
453277	203	< 5	105	98	0.2						
453278	203	< 5	54	95	0.2						
453279	203	< 5	70	112	0.3						
453280	203	< 5	30	65	0.2						
453281	203	< 5	63	100	0.3						
453282	203	< 5	72	118	0.3						
453283	203	< 5	49	89	0.4						
453284	203	< 5	31	86	< 0.2						
453285	203	< 5	65	117	0.3						
453286	203	< 5	37	85	0.2						
453287	203	< 5	33	100	0.2						
453288	203	< 15	73	102	0.3						
453289	203	< 5	92	127	0.3						
453290	203	< 5	350	93	0.3						
453291	203	< 5	140	170	0.7						
453292	203	< 5	37	110	0.3						
453293	203	< 5	73	109	< 0.2						
453294	203	< 5	374	117	0.2						

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453295	203 ---	< 5	110	130	< 0.2						
453296	203 ---	< 5	57	80	0.2						
453297	203 ---	< 5	56	93	0.3						
453298	203 ---	< 5	57	176	0.2						
453299	203 ---	< 5	85	150	< 0.2						
453300	203 ---	< 5	144	123	< 0.2						
453301	203 ---	< 5	110	154	< 0.2						
453302	203 ---	< 5	43	82	0.2						
453303	203 ---	< 5	41	110	0.3						
453304	203 ---	< 5	70	91	0.2						
453305	203 ---	< 5	30	60	< 0.2						
453306	203 ---	< 5	34	74	0.2						
453307	203 ---	< 5	100	108	< 0.2						
453308	203 ---	< 5	71	95	0.2						
453309	203 ---	< 5	60	91	0.2						
453310	203 ---	< 5	45	80	< 0.2						
453311	203 ---	< 5	91	128	< 0.2						
453312	203 ---	< 5	79	123	< 0.2						
453313	203 ---	< 5	94	122	< 0.2						
453314	203 ---	< 5	48	110	< 0.2						
453315	203 ---	< 5	164	114	< 0.2						
453316	203 ---	< 5	54	92	< 0.2						
453317	203 ---	< 5	160	104	0.7						
453318	203 ---	< 5	48	93	< 0.2						
453319	203 ---	< 5	76	120	< 0.2						
453320	203 ---	< 5	49	73	0.2						
453321	203 ---	< 5	32	147	0.7						
453322	203 ---	< 5	610	88	0.7						
453323	203 ---	< 5	76	108	< 0.2						
453324	203 ---	< 5	65	87	< 0.2						
453325	203 ---	< 5	109	159	< 0.2						
453326	203 ---	< 5	82	152	< 0.2						
453327	203 ---	< 5	260	215	0.8						
453328	203 ---	< 5	180	136	< 0.2						
453329	203 ---	< 5	47	110	0.2						
453330	203 ---	< 5	38	96	0.2						
453331	203 ---	< 5	96	108	< 0.2						
453332	203 ---	< 5	40	78	< 0.2						
453333	203 ---	< 5	67	71	0.3						
453334	203 ---	< 5	56	94	< 0.2						

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453335	203	< 5	400	140	0.4						
453336	203	< 5	97	143	0.3						
453337	203	< 5	80	100	0.3						
453338	203	< 5	27	69	< 0.2						
453339	203	< 5	50	66	< 0.2						
453340	203	< 5	110	130	< 0.2						
453341	203	< 5	420	136	0.3						
453342	203	< 5	35	85	< 0.2						
453343	203	< 5	48	98	< 0.2						
453344	203	< 5	45	89	< 0.2						
453345	203	< 5	35	136	0.3						
453346	203	< 5	30	126	0.4						
453347	203	< 5	69	88	< 0.2						
453348	203	< 5	25	102	< 0.2						
453349	203	< 5	150	118	< 0.2						
453350	203	< 5	137	176	0.2						
453351	203	< 5	79	116	0.6						
453352	203	< 5	34	68	< 0.2						
453353	203	< 5	92	160	0.5						
453354	203	< 5	41	108	< 0.2						
453355	203	< 5	57	106	0.3						
453356	203	< 5	50	105	< 0.2						
453357	203	< 5	39	127	< 0.2						
453358	203	< 5	37	82	< 0.2						
453359	203	< 5	13	45	< 0.2						
453360	203	< 5	41	77	< 0.2						
453361	203	< 5	69	94	0.6						
453362	203	< 5	30	81	< 0.2						
453363	203	< 5	50	91	< 0.2						
453364	203	< 5	75	108	< 0.2						
453365	203	< 5	85	136	0.5						
453368	203	< 5	97	119	0.2						
453369	203	< 5	45	129	< 0.2						
453370	203	< 5	104	220	0.4						
453371	203	< 5	32	110	< 0.2						
453372	203	< 5	35	95	< 0.2						
453373	203	< 5	48	118	0.2						
453374	203	< 5	157	160	1.6						
453375	203	< 5	22	67	< 0.2						
453376	203	< 5	108	133	0.2						

CERTIFICATION :

Hart Bichler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 BRITISH COLUMBIA, CANADA V7J-2C1
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WESTMIN RESOURCES LIMITED

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 VANCOUVER, B.C.
 V7X 1C4

Project: NATION LAKES
 Comments: ATTN: RON LANE

Page No: 2
 Tot. Pages: 4
 Date: 10-SEP-89
 Invoice #: I-8924534
 P.O. #: 7458

CERTIFICATE OF ANALYSIS A8924534

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Cu ppm	Zn ppm	Ag ppm						
			FA+AA	ppm		Aqua R						
453379	203	---	< 5	50	147	< 0.2						
453381	203	---	< 5	42	100	< 0.2						
453382	203	---	< 5	25	95	< 0.2						
453383	203	---	< 5	85	92	< 0.6						
453384	203	---	< 5	37	100	< 0.2						
453385	203	---	< 5	72	110	< 0.2						
453386	203	---	< 5	50	250	< 0.2						
453387	203	---	< 5	47	160	< 0.2						
453388	203	---	< 5	66	130	< 0.2						
453391	203	---	< 5	68	126	< 0.2						
453392	203	---	< 5	41	93	< 0.2						
453393	203	---	< 5	110	150	< 0.2						
453394	203	---	< 5	52	150	< 0.2						
453395	203	---	< 5	24	105	< 0.5						
453396	203	---	< 5	26	120	< 0.2						
453397	203	---	< 5	32	85	< 0.2						
453398	203	---	< 5	37	110	< 0.2						
453400	203	---	< 5	70	106	< 0.2						
453402	203	---	< 5	320	170	< 1.6						
453403	203	---	< 5	134	180	< 0.2						
453404	203	---	< 5	59	180	< 0.2						
453405	203	---	< 5	64	120	< 0.4						
453406	203	---	< 5	49	120	< 0.2						
453407	203	---	< 5	34	86	< 0.2						
453409	203	---	< 5	30	122	< 0.2						
453410	203	---	< 5	150	132	< 0.6						
453411	203	---	< 5	37	170	< 0.2						
453412	203	---	< 5	40	91	< 0.2						
453413	203	---	< 5	190	500	< 0.6						
453414	203	---	< 5	71	190	< 0.3						
453415	203	---	< 5	40	138	< 0.5						
453416	203	---	< 5	65	173	< 0.2						
453417	203	---	< 5	36	110	< 0.2						
453418	203	---	< 5	30	87	< 0.2						
453419	203	---	< 5	37	140	< 0.2						
453420	203	---	< 5	22	74	< 0.2						
453421	203	---	< 5	60	92	< 0.2						
453422	203	---	< 5	39	64	< 0.2						
453423	203	---	< 5	430	280	< 0.2						
453424	203	---	< 5	79	76	< 0.6						

CERTIFICATION: Hart Buchler



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Project : NATION LAKES
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Page No. 13
Tot. Pages: 4
Date : 10-SEP-89
Invoice #: I-8924534
P.O. #: 7458

CERTIFICATE OF ANALYSIS A8924534

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
453427	203	< 5	107	75	< 0.2						
453428	203	< 5	85	81	< 0.2						
453429	203	< 5	78	91	0.5						
453430	203	< 5	84	73	< 0.2						
453431	203	< 5	20	46	< 0.2						
453432	203	< 5	46	68	< 0.6						
453433	203	< 5	28	64	< 0.2						
453434	203	< 5	81	66	< 0.2						
453435	203	< 5	145	107	< 0.2						
453436	203	< 5	127	91	< 0.2						
453437	203	< 5	78	88	< 0.2						
453438	203	< 5	33	44	< 0.2						
453439	203	< 5	550	175	0.4						
453440	203	< 5	34	52	< 0.2						
453441	203	< 5	58	109	0.8						
453442	203	< 5	23	44	< 0.2						
453443	203	< 5	90	84	0.4						
453444	203	< 5	105	62	< 0.2						
453445	203	< 5	94	116	0.7						
453446	203	< 5	51	75	0.3						
453447	203	< 5	159	87	< 0.2						
453448	203	< 5	83	99	0.5						
453449	203	< 5	48	118	0.6						
453450	203	< 5	52	110	0.3						
453452	203	< 5	188	240	0.5						
453453	203	< 5	46	70	0.3						
453454	203	< 5	56	145	0.7						
453455	203	< 5	220	74	0.4						
453456	203	< 5	260	95	0.4						
453457	203	< 5	84	70	0.3						
453458	203	< 5	920	310	1.0						
453459	203	< 10	280	140	0.6						
453460	203	< 5	68	95	0.4						
453461	203	< 5	64	100	0.2						
453462	203	< 5	69	90	0.3						
453463	203	< 5	96	100	0.6						
453464	203	< 5	58	110	0.4						
453465	203	< 5	51	127	0.5						
453466	203	< 5	80	68	0.3						
453467	203	< 5	64	100	0.3						

CERTIFICATION : Hart Buchler



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Project : NATION LAKES

Comments: ATTN: RON LANE

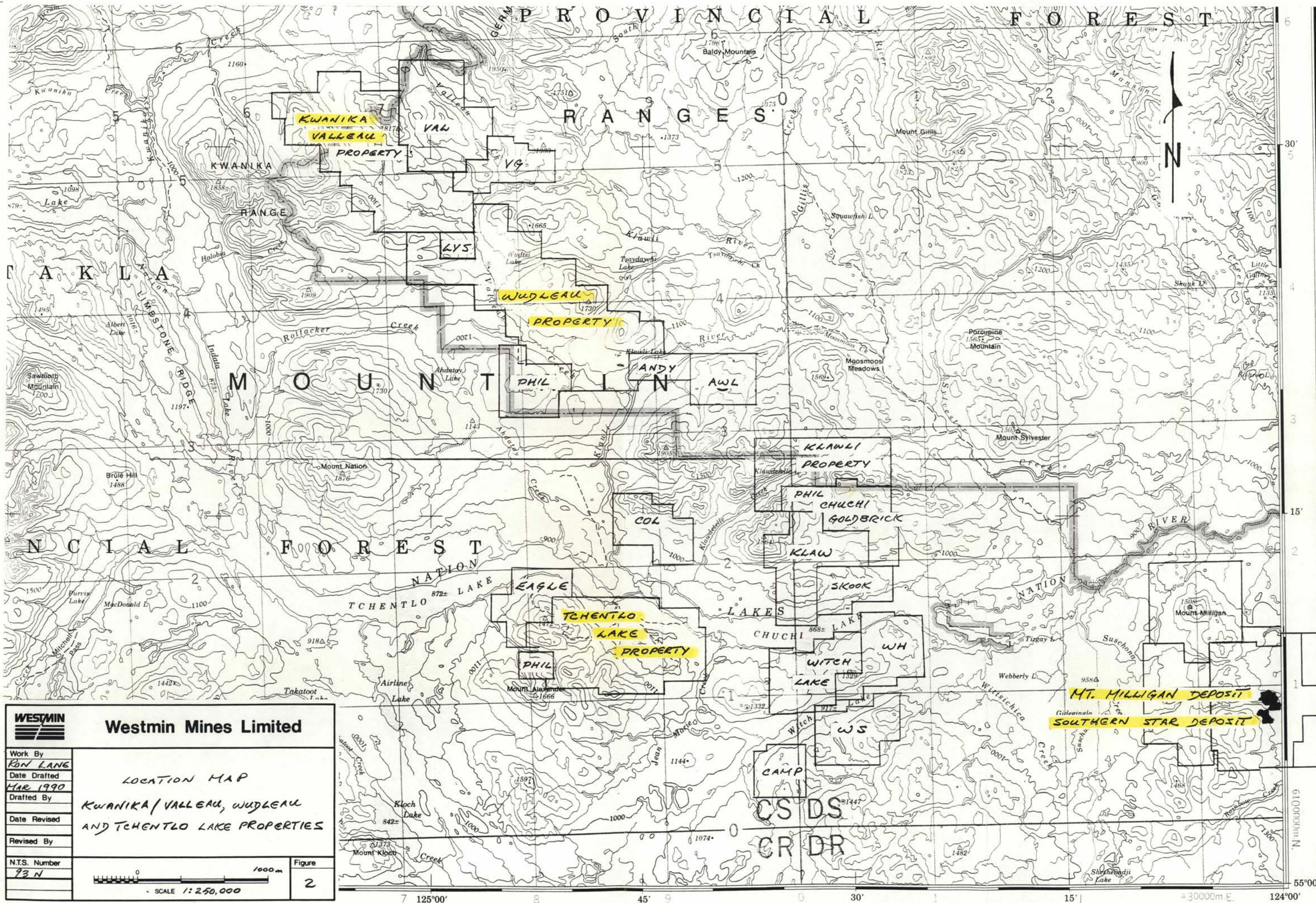
Page No. 4
Tot. Pages: 4
Date: 10-SEP-89
Invoice #: I-8924534
P.O. #: 7458

CERTIFICATE OF ANALYSIS A8924534

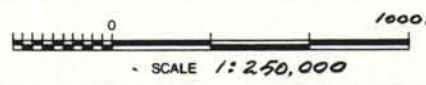
SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ag ppm Aqua R						
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453469	203	< 5	93	91	0.7						
453470	203	< 5	50	72	0.5						
453471	203	< 5	114	170	0.7						
453472	203	< 5	55	110	0.4						
453473	203	< 5	108	120	0.4						
453474	203	< 5	69	148	0.3						
453475	203	< 5	116	100	0.2						
453476	203	< 5	62	87	0.6						
453477	203	< 5	84	94	0.6						
453478	203	< 5	60	82	0.7						
453479	203	< 5	169	130	0.6						
453480	203	< 5	268	280	0.7						
453481	203	< 10	134	110	0.5						
453483	203	< 5	42	146	0.6						
453484	203	< 5	174	130	0.5						

CERTIFICATION : Hart Buehler

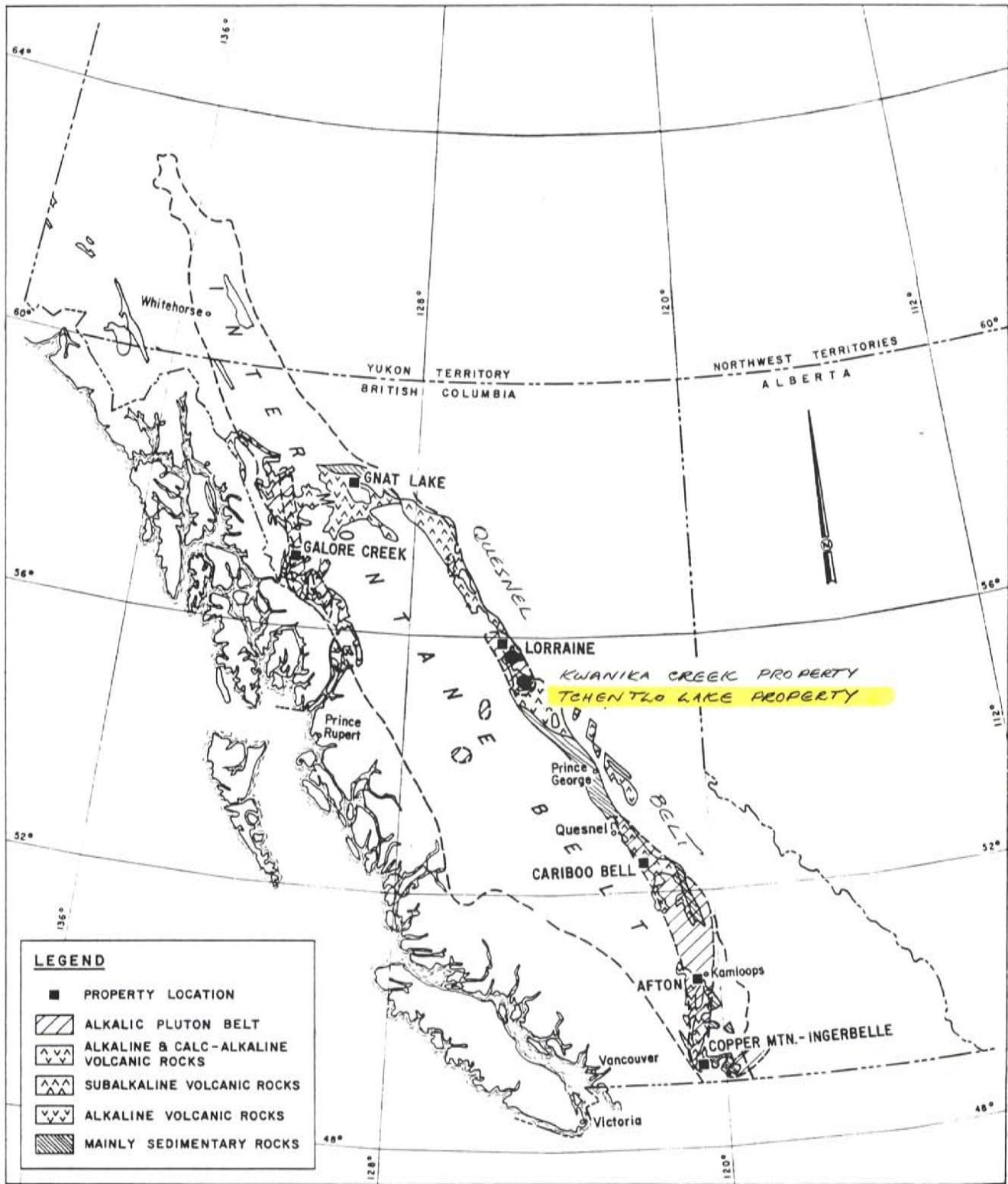
XI. ATTACHMENTS



Westmin Mines Limited	
Work By RON LANE	<p style="text-align: center;"><i>LOCATION MAP</i></p> <p style="text-align: center;">KWANIKA/VALLEAU, WUDLEAU AND TCHENTLO LAKE PROPERTIES</p>
Date Drafted MAR 1990	
Drafted By 	
Date Revised 	
Revised By 	
N.T.S. Number 93 N	Figure <p style="text-align: center;">2</p>

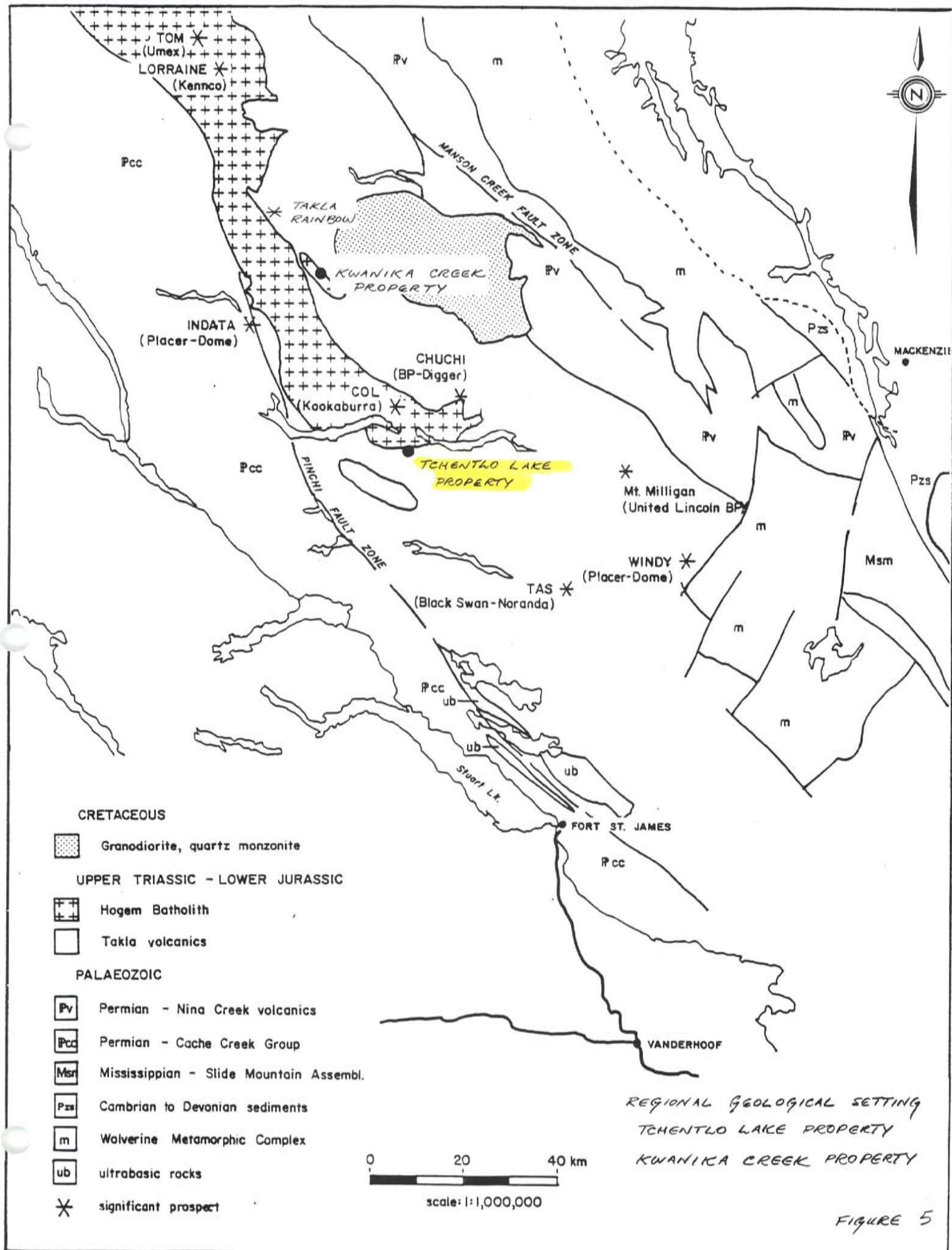


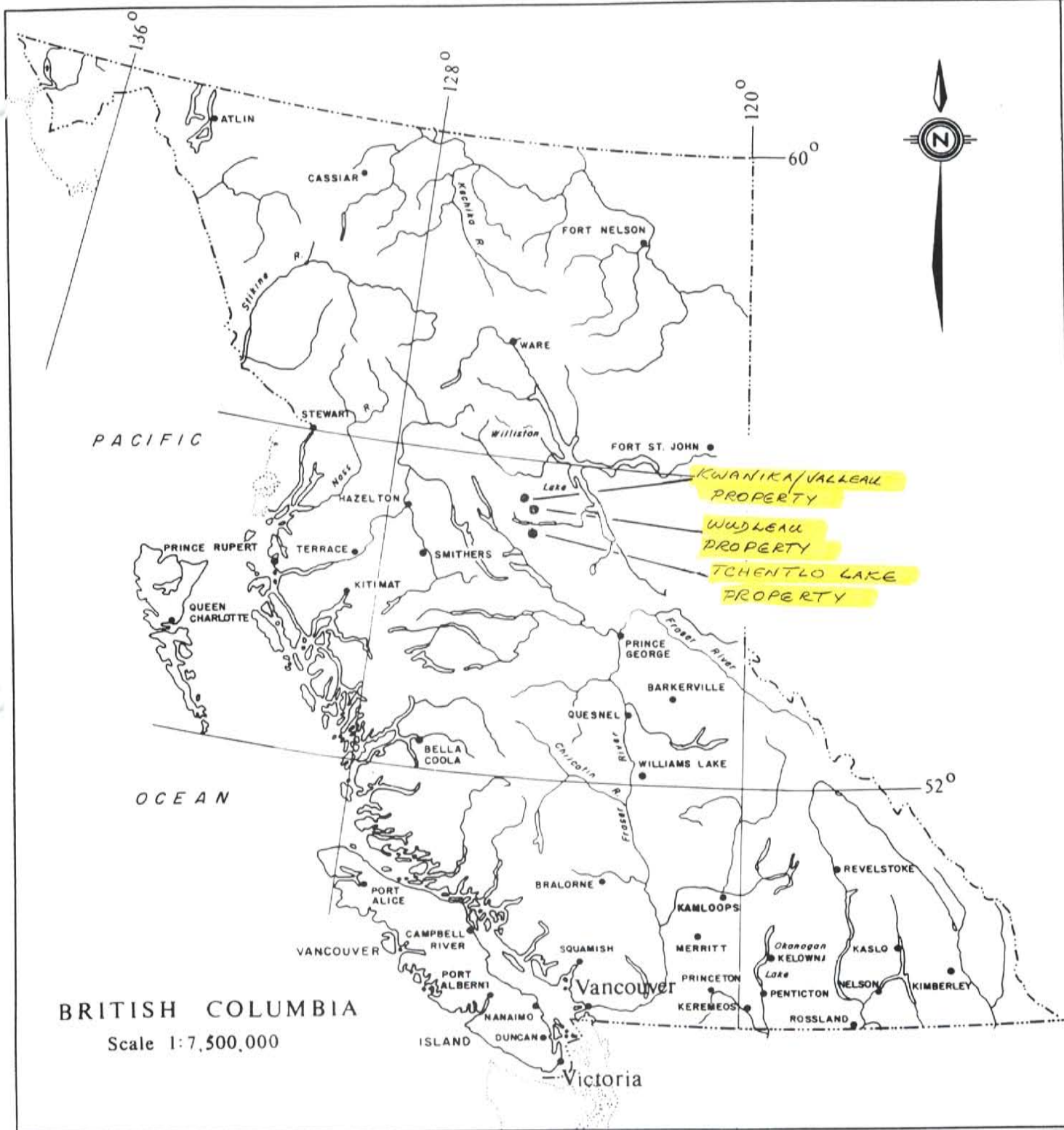
7 125°00' 8 45' 9 30' 10 15' 11 124°00'



After Barr et al, CIM Special Volume No 15

Figure 4





BRITISH COLUMBIA
Scale 1:7,500,000



Westmin Mines Limited

Work By	RON LANE
Date Drafted	MAR 1990
Drafted By	
Date Revised	
Revised By	
NTS. Number	

LOCATION MAP
KWANIKA/VALLEAU, WUDLEAU
AND TCHENTLO LAKE PROPERTIES

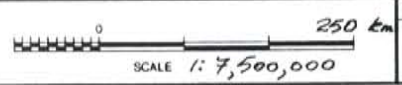
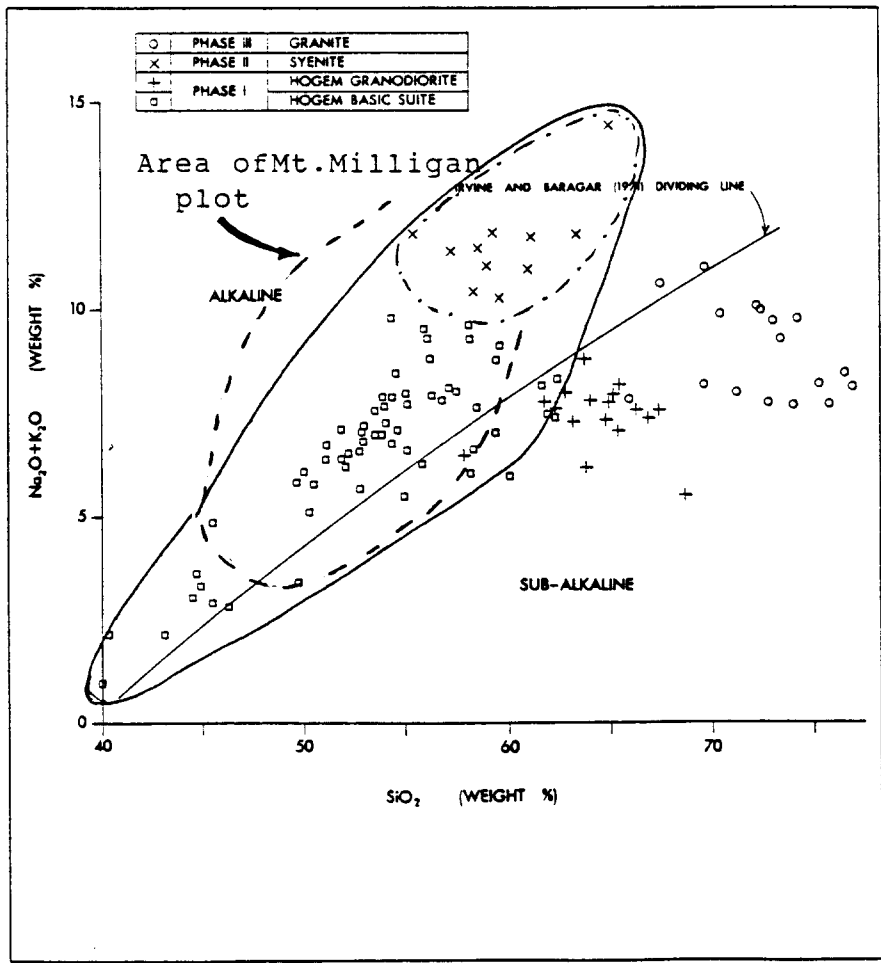
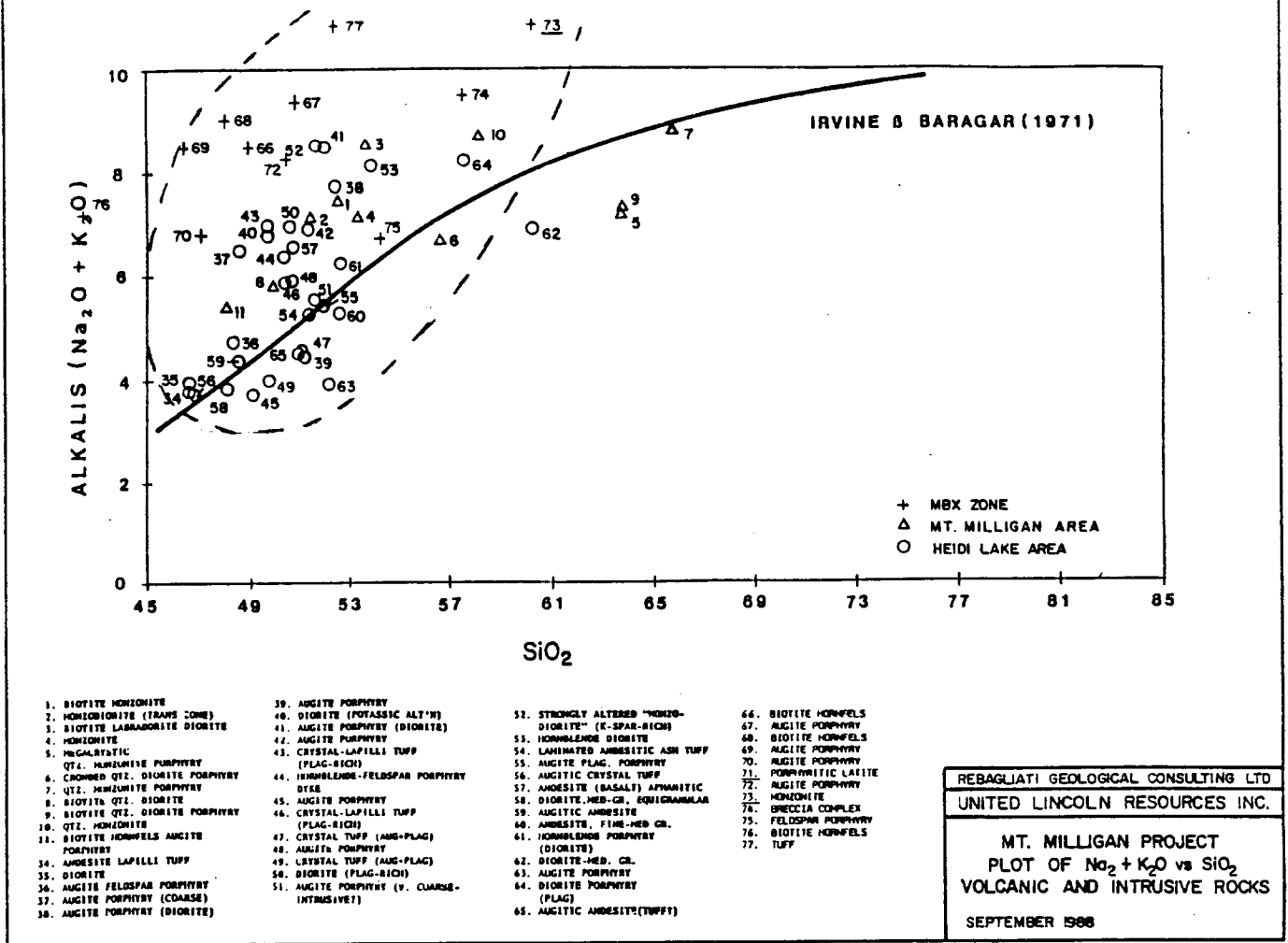


Figure
1



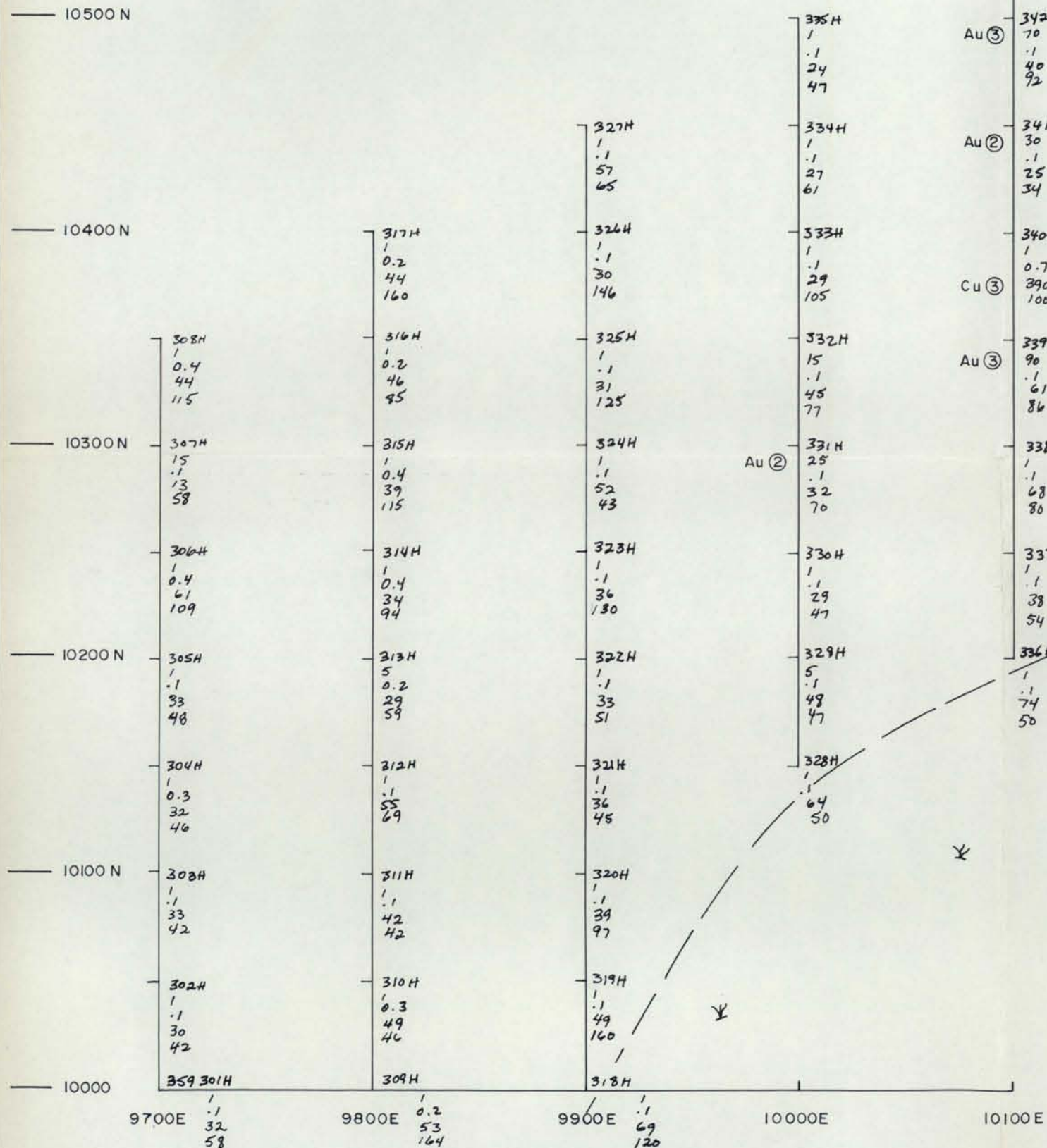
from C.E.C Engineering, 1989

Silica/total alkalis plot, southern Hogem intrusive rocks.

FIGURE 6

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

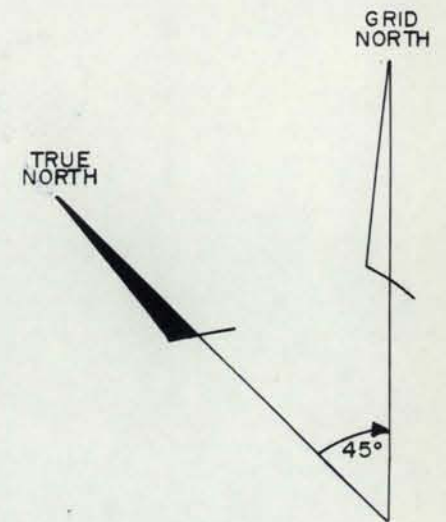
19,810



LEGEND

- Soil Sample
- Δ Stream Sediment Sample
- x Rock Chip Sample

076H - Sample Number
 1 - Au (ppb)
 0.4 - Ag (ppm)
 32 - Cu (ppm)
 125 - Zn (ppm)



Au - ppb	Ag - ppm
① 10 - 24	① 0.50 - 0.9
② 25 - 49 - anomalous	② 1.0 - 1.9 - anomalous
③ 50 - 99	③ 2.0 - 9.9
④ 100 - 199	④ 10 - 19.9
⑤ 200+	⑤ 20+

Cu - ppm	Zinc - ppm
① 75 - 149	① 100 - 199
② 150 - 299 - anomalous	② 200 - 399 - anomalous
③ 300 - 599	③ 400 - 799
④ 600 - 1199	④ 800 - 1599
⑤ 1200+	⑤ 1600+

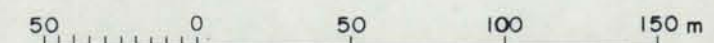


Westmin Mines Limited

Work By
 R. Millar, R. Lane
 Date Drafted
 September 1989
 Drafted By
 F. Heptonstall
 Date Revised
 February 1990
 Revised By
 R. W. Lane

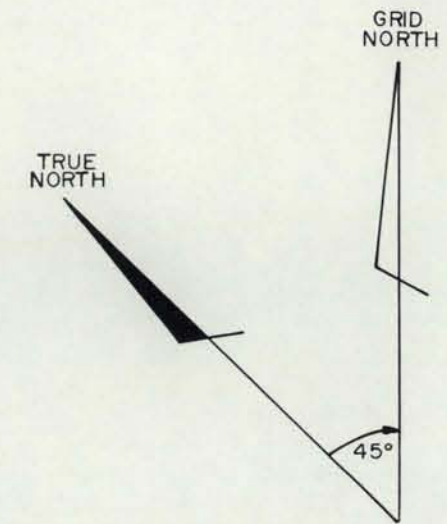
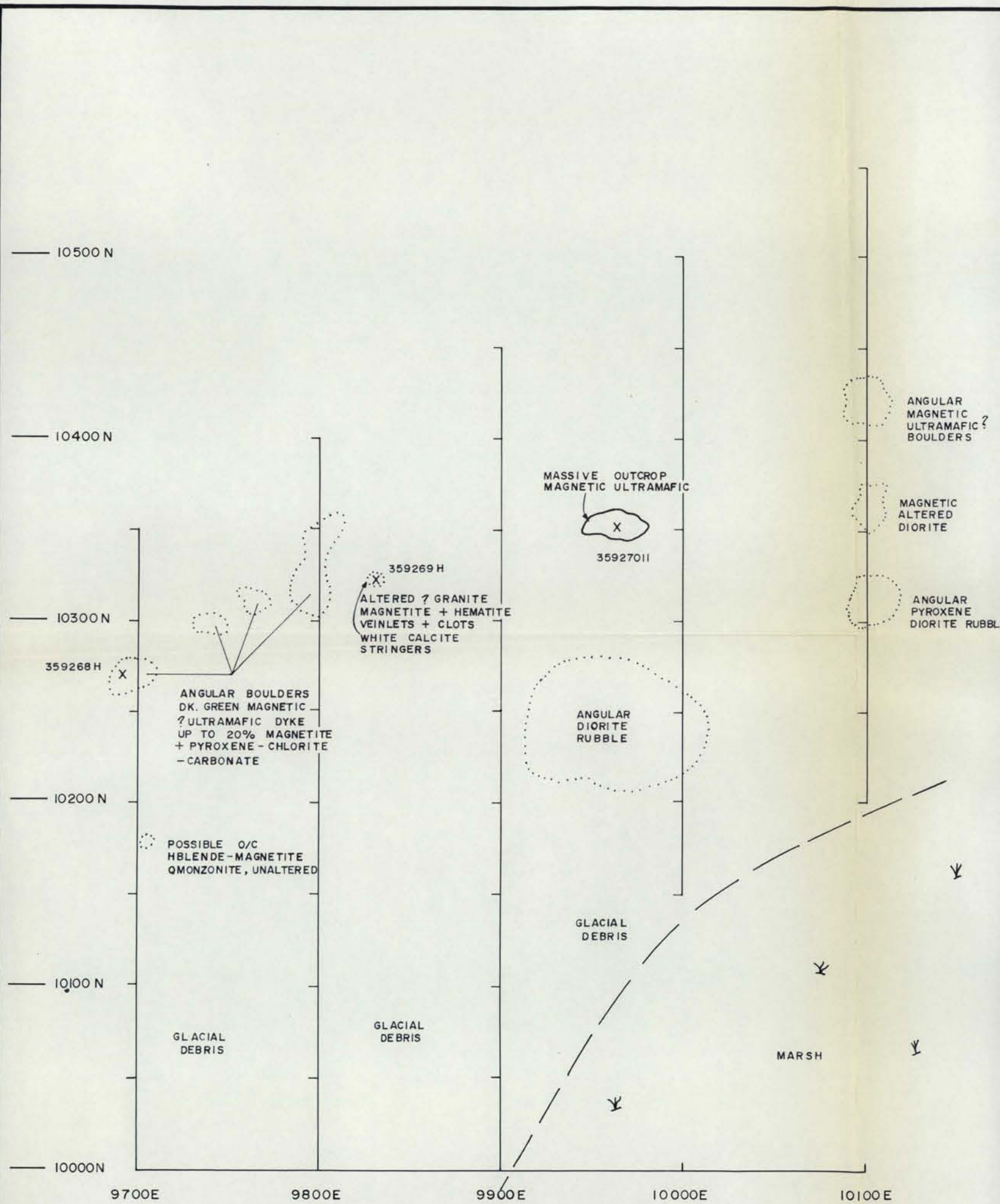
**TCHENTLO LAKE PROPERTY
 TL-9 GRID
 Au, Ag, Cu, & Zn Soil Geochemistry**

N.T.S. Number
 93 N / 2E, 2W




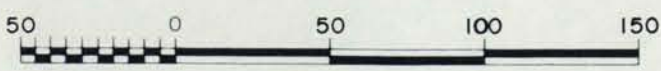
SCALE 1:2500

Figure
14



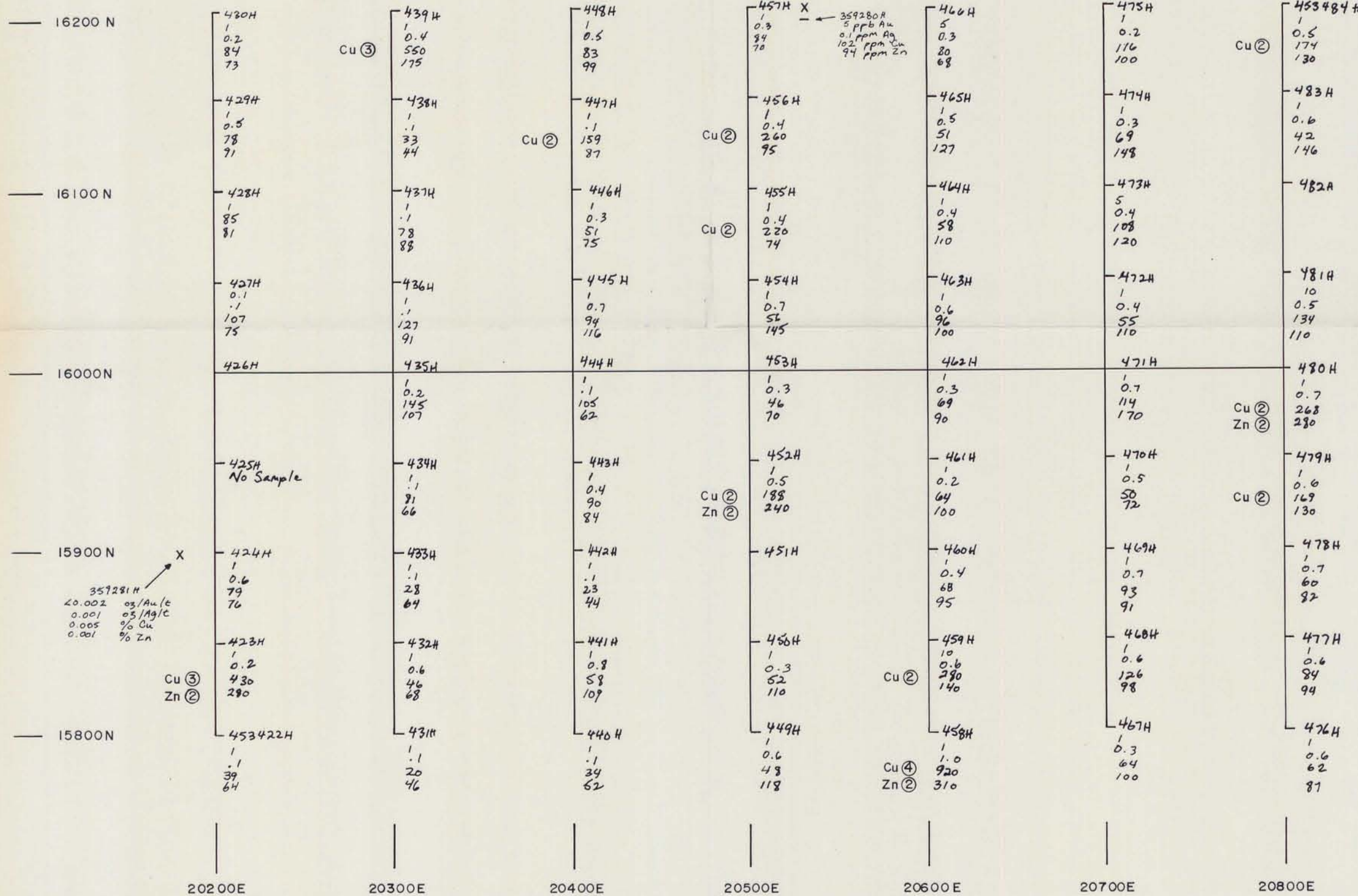
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,810

 Westmin Mines Limited	
Work By R. Millar, R. Lane	TCHENTLO LAKE PROPERTY TL-9 GRID Geology & Rock Chip Sample Locations
Date Drafted September 1989	
Drafted By F. Heptonstall	
Date Revised February 1990	
Revised By R.W. Lane	 SCALE 1:2500
N.T.S. Number 93 N / 2E, 2W	
Figure 15	

GEOLOGICAL BRANCH
ASSESSMENT REPORT

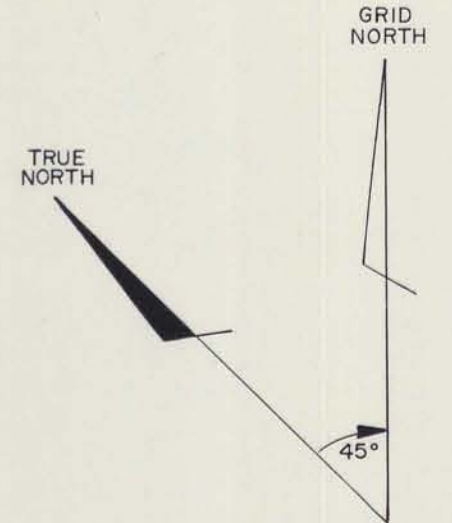
19,810



LEGEND

- Soil Sample
- △ Stream Sediment Sample
- x Rock Chip Sample

076H - Sample Number
1 - Au (ppb)
0.4 - Ag (ppm)
32 - Cu (ppm)
125 - Zn (ppm)



Au - ppb

Ag - ppm

- ① 10 - 24
- ② 25 - 49 - anomalous
- ③ 50 - 99
- ④ 100 - 199
- ⑤ 200+

- ① 0.50 - 0.9
- ② 1.0 - 1.9 - anomalous
- ③ 2.0 - 9.9
- ④ 10 - 19.9
- ⑤ 20+

Cu - ppm

Zinc - ppm

- ① 75 - 149
- ② 150 - 299 - anomalous
- ③ 300 - 599
- ④ 600 - 1199
- ⑤ 1200+

- ① 100 - 199
- ② 200 - 399 - anomalous
- ③ 400 - 799
- ④ 800 - 1599
- ⑤ 1600+



Westmin Mines Limited

Work By
R. Millar, R. Lane
Date Drafted
September 1989
Drafted By
F. Heptonstall
Date Revised
February 1990
Revised By
R.W. Lane

TCHENTLO LAKE PROPERTY
TL-3 GRID
Au, Ag, Cu, & Zn Soil Geochemistry

N.T.S. Number
93N/2E, 2W

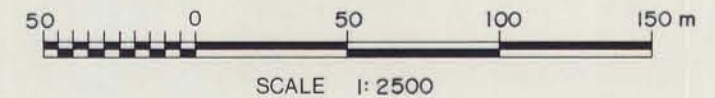
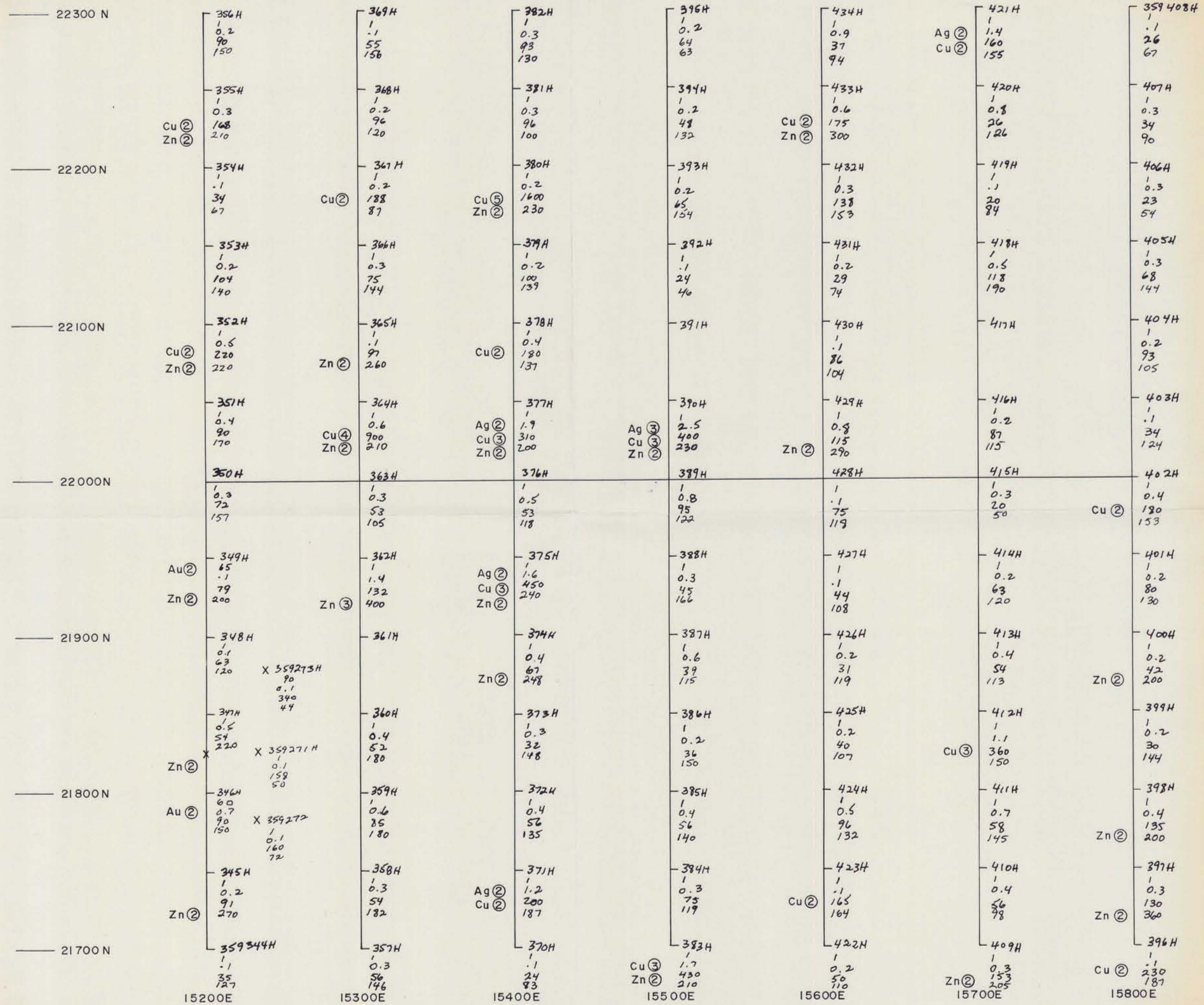


Figure
9



LEGEND

- Soil Sample
- Δ Stream Sediment Sample
- x Rock Chip Sample

076H - Sample Number
 | - Au (ppb)
 0.4 - Ag (ppm)
 32 - Cu (ppm)
 125 - Zn (ppm)

Au - ppb

- ① 10 - 24
- ② 25 - 49 - anomalous
- ③ 50 - 99
- ④ 100 - 199
- ⑤ 200+

Ag - ppm

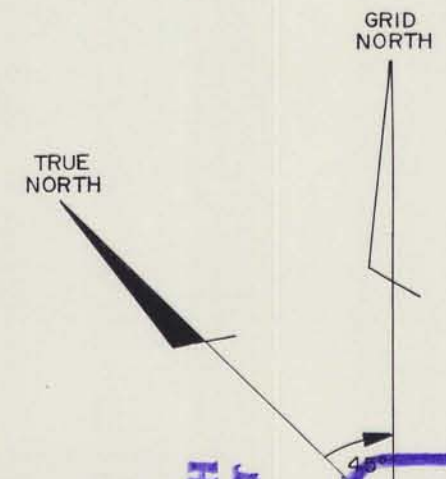
- ① 0.50 - 0.9
- ② 1.0 - 1.9 - anomalous
- ③ 2.0 - 9.9
- ④ 10 - 19.9
- ⑤ 20+

Cu - ppm

- ① 75 - 149
- ② 150 - 299 - anomalous
- ③ 300 - 599
- ④ 600 - 1199
- ⑤ 1200+

Zinc - ppm

- ① 100 - 199
- ② 200 - 399 - anomalous
- ③ 400 - 799
- ④ 800 - 1599
- ⑤ 1600+



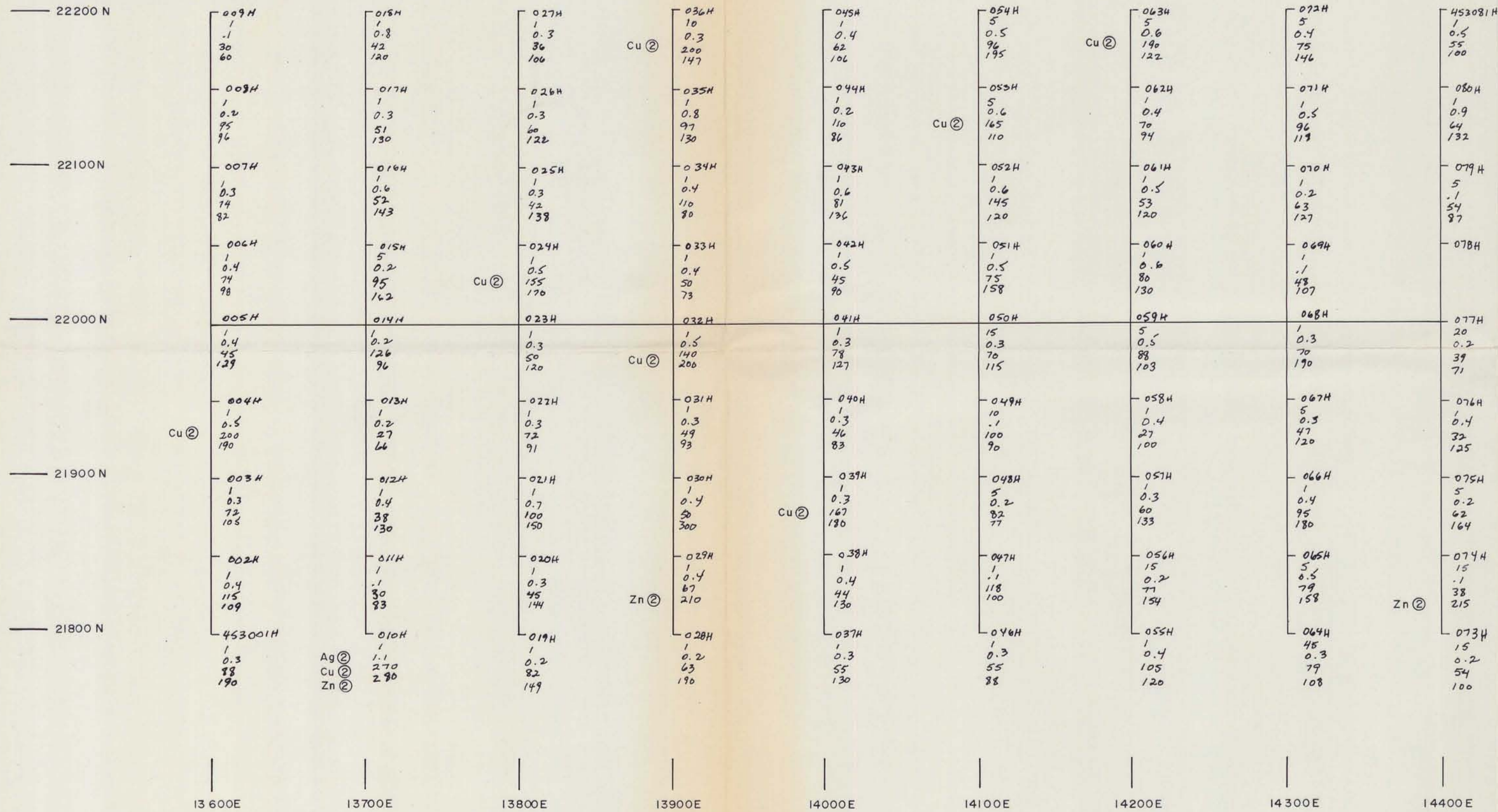
GEOLOGICAL BRANCH ASSESSMENT REPORT

19,810

WESTMIN		Westmin Mines Limited	
Work By	R. Millar, R. Lane		
Date Drafted	September 1989		
Drafted By	F. Heptonstall		
Date Revised	February 1990		
Revised By	R.W. Lane		
N.T.S. Number	93N/2E, 2W		
<p>SCALE 1:2500</p>		<p>Figure</p> <p style="font-size: 2em;">10</p>	

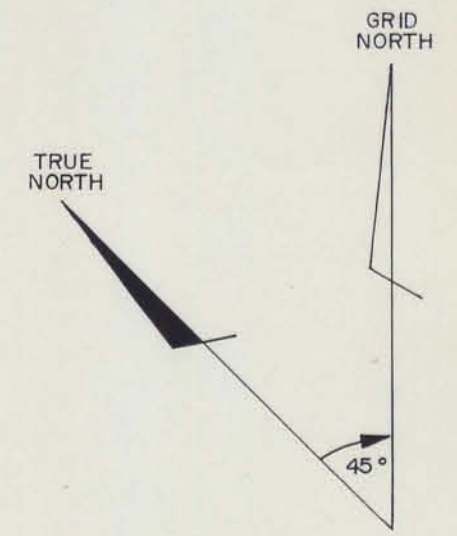
GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,810



LEGEND

- Soil Sample
- Δ Stream Sediment Sample
- x Rock Chip Sample



- 076H - Sample Number
1 - Au (ppb)
0.4 - Ag (ppm)
32 - Cu (ppm)
125 - Zn (ppm)

Au - ppb	Ag - ppm
① 10 - 24	① 0.50 - 0.9
② 25 - 49 - anomalous	② 1.0 - 1.9 - anomalous
③ 50 - 99	③ 2.0 - 9.9
④ 100 - 199	④ 10 - 19.9
⑤ 200+	⑤ 20+

Cu - ppm	Zinc - ppm
① 75 - 149	① 100 - 199
② 150 - 299 - anomalous	② 200 - 399 - anomalous
③ 300 - 599	③ 400 - 799
④ 600 - 1199	④ 800 - 1599
⑤ 1200+	⑤ 1600+

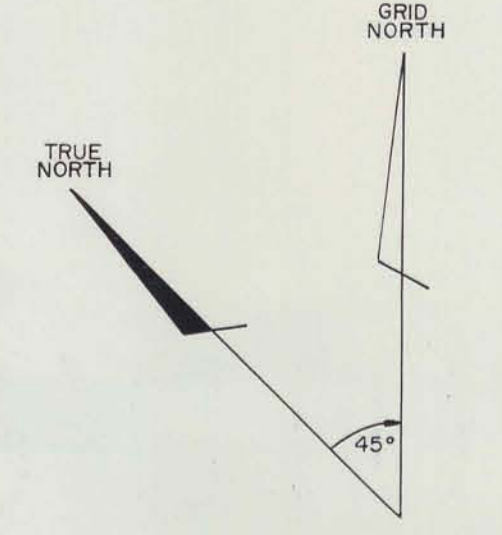
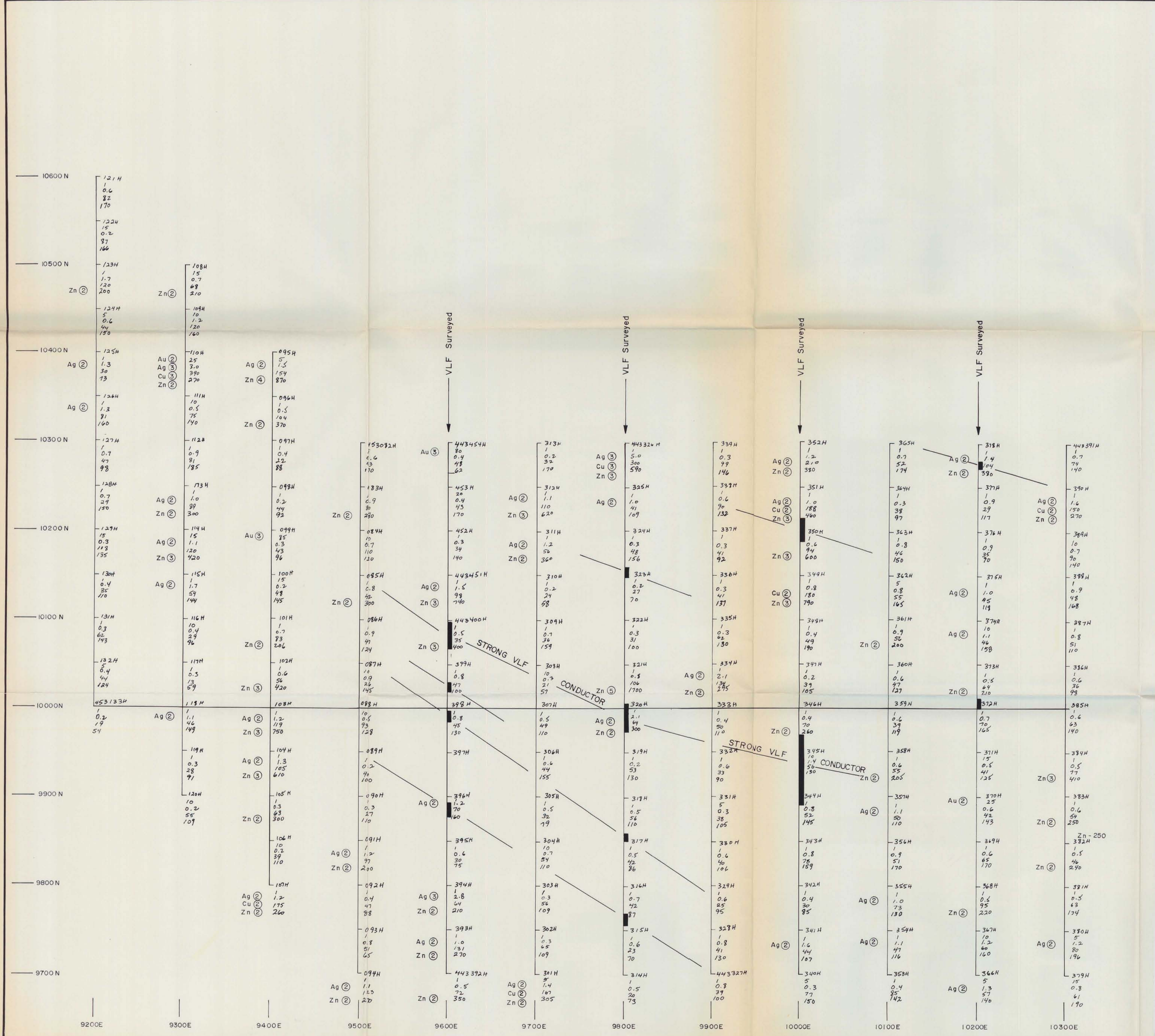
WESTMIN
Westmin Mines Limited

Work By	R. Millar, R. Lane
Date Drafted	September 1989
Drafted By	F. Heptonstall
Date Revised	February 1990
Revised By	R. W. Lane
N.T.S. Number	93N/2E, 2W

TCHENTLO LAKE PROPERTY
TL-6 GRID
Au, Ag, Cu, & Zn Soil Geochemistry

SCALE 1:2500

Figure
11



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,810

LEGEND

- Soil Sample
 - △ Stream Sediment Sample
 - x Rock Chip Sample
- 076H - Sample Number
 1 - Au (ppb)
 0.4 - Ag (ppm)
 32 - Cu (ppm)
 125 - Zn (ppm)
- | | |
|-----------------------|-------------------------|
| Au - ppb | Ag - ppm |
| ① 10 - 24 | ① 0.50 - 0.9 |
| ② 25 - 49 - anomalous | ② 1.0 - 1.9 - anomalous |
| ③ 50 - 99 | ③ 2.0 - 9.9 |
| ④ 100 - 199 | ④ 10 - 19.9 |
| ⑤ 200+ | ⑤ 20+ |
- | | |
|-------------------------|-------------------------|
| Cu - ppm | Zinc - ppm |
| ① 75 - 149 | ① 100 - 199 |
| ② 150 - 299 - anomalous | ② 200 - 399 - anomalous |
| ③ 300 - 599 | ③ 400 - 799 |
| ④ 600 - 1199 | ④ 800 - 1599 |
| ⑤ 1200+ | ⑤ 1600+ |

WESTMIN
Westmin Mines Limited

Work By	R. Millar, R. Lane
Date Drafted	September 1989
Drafted By	F. Heptonstall
Date Revised	December, 1990
Revised By	R. Lane
N.T.S. Number	93 N / 2E, 2W

TCHENTLO LAKE PROPERTY
TL-7 GRID
Au, Ag, Cu, & Zn Soil Geochemistry

SCALE 1:2500

Figure
12

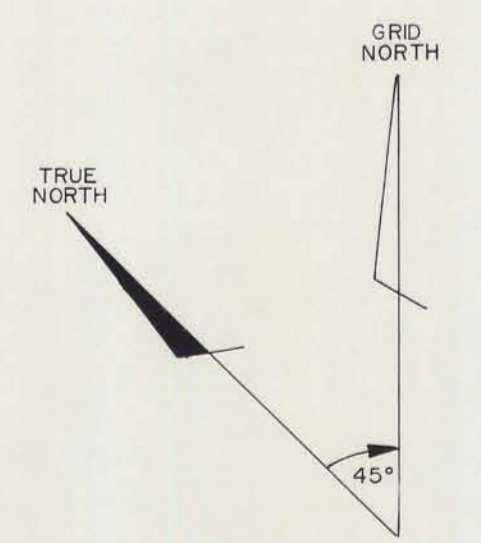
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10200 N	162H 1 0.2 25 65	175H 1 1 25 51	188H 1 1 38 60	201H 1 1 19 46	214H 1 1 19 41	227H 1 1 16 42	240H 1 5 16 46	253H 1 1 16 43	266H 1 15 0.2 17 41
10100 N	161H 1 0.3 20 94	174H 1 0.3 19 59	187H 1 0.2 30 56	200H 1 1 20 60	213H 1 0.4 30 95	226H 1 1 22 70	239H 1 1 23 43	252H 1 1 23 49	265H 1 1 24 45
10000 N	160H 1 0.2 33 47	173H 1 1 18 88	186H 1 1 1 47	199H 1 0.2 25 60	212H 1 1 20 60	225H 1 0.2 19 56	238H 1 0.3 28 68	251H 1 1 24 59	264H 1 0.3 45 78
9900 N	159H 1 0.2 12 46	172H 1 1 16 59	185H 1 0.2 21 40	198H 1 0.4 21 64	211H 1 1 13 41	224H 1 1 17 52	237H 1 10 1 65	250H 1 1 26 57	263H 1 0.2 20 46
9800 N	158H 1 1 35 72	171H 1 1 16 45	184H 1 0.2 15 41	197H 1 10 17 51	210H 1 1 12 48	223H 1 1 13 58	236H 1 1 21 59	249H 1 1 24 56	262H 1 1 20 60
9700 N	157H 1 0.3 19 49	170H 1 1 19 43	183H 1 0.2 21 56	196H 1 0.4 48 200	209H 1 1 21 52	222H 1 35 18 66	235H 1 1 24 68	248H 1 1 21 62	261H 1 1 31 84
				Zn ②					
	156H 1 0.4 39 88	169H 1 1 19 54	182H 1 0.2 23 50	195H 1 0.2 44 120	208H 1 1 31 92	221H 1 65 1 71	234H 1 1 24 72	247H 1 1 24 44	260H 1 1 26 57
	Au ② 155H 1 0.3 20 51	168H 1 1 20 49	181H 1 0.2 22 62	194H 1 1 24 55	207H 1 1 16 47	220H 1 1 19 19	233H 1 1 18 49	246H 1 1 19 40	259H 1 1 38 64
	154H 1 1 16 66	167H 1 0.2 19 54	180H 1 1 30 47	193H 1 1 20 62	206H 1 5 21 52	219H 1 0.2 26 60	232H 1 1 21 55	245H 1 1 19 47	258H 1 1 21 44
	153H 1 1 20 66	166H 1 0.2 18 50	179H 1 1 15 39	192H 1 1 21 46	205H 1 0.3 20 45	218H 1 1 18 43	231H 1 1 18 45	244H 1 1 1 50	257H 1 1 22 58
	152H 1 1 16 45	165H 1 0.2 17 44	178H 1 1 19 47	191H 1 1 15 40	204H 1 1 17 47	217H 1 1 17 44	230H 1 1 20 50	243H 1 1 26 62	256H 1 1 25 45
	359/151H 10 22 47	164H 1 1 32 45	177H 1 1 19 55	190H 1 1 27 46	203H 1 1 15 42	216H 1 1 13 46	229H 1 1 17 47	242H 1 1 23 47	255H 1 1 24 190

LEGEND

- Soil Sample
- △ Stream Sediment Sample
- x Rock Chip Sample

076H - Sample Number
1 - Au (ppb)
0.4 - Ag (ppm)
32 - Cu (ppm)
125 - Zn (ppm)

Au - ppb	Ag - ppm
① 10 - 24	① 0.50 - 0.9
② 25 - 49 - anomalous	② 1.0 - 1.9 - anomalous
③ 50 - 99	③ 2.0 - 9.9
④ 100 - 199	④ 10 - 19.9
⑤ 200+	⑤ 20+
Cu - ppm	Zinc - ppm
① 75 - 149	① 100 - 199
② 150 - 299 - anomalous	② 200 - 399 - anomalous
③ 300 - 599	③ 400 - 799
④ 600 - 1199	④ 800 - 1599
⑤ 1200+	⑤ 1600+

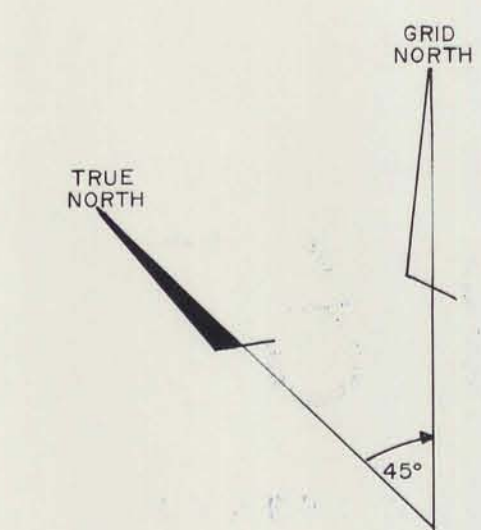


GEOLOGICAL BRANCH ASSESSMENT REPORT

19,810

WESTMIN		Westmin Mines Limited	
Work By	R. Millar, R. Lane	TCHENTLO LAKE PROPERTY TL-8 GRID Au, Ag, Cu, & Zn Soil Geochemistry	
Date Drafted	September 1989		
Drafted By	F. Heptonstall		
Date Revised	February 1990		
Revised By	R.W. Lane		
N.T.S. Number	93N/2E, 2W		
<p>SCALE 1:2500</p>		Figure	13

15300 N	1528 H Au ② 35 0.2 56 50	183 H 0.3 53 78 92	208 H 0.3 48 86	233 H 0.2 60 82	258 H 0.2 84 105	283 H 0.4 49 89	308 H 0.3 71 95	333 H 0.3 67 71	453 350 H 0.3 37 82
15200 N	157 H 0.1 29 45	182 H 0.2 48 81	207 H 0.2 48 100	232 H 0.2 103 129	257 H 0.2 62 94	282 H 0.3 72 118	307 H 0.3 100 108	332 H 0.1 40 79	357 H 0.1 79 127
15100 N	156 H 0.6 58 145	181 H 0.2 44 96	206 H 0.2 44 47	231 H 0.1 37 97	256 H 0.3 177 174	281 H 0.3 63 100	306 H 0.2 34 74	331 H 0.1 76 108	356 H 0.1 50 105
15000 N	155 H 0.2 30 45	180 H 0.2 67 92	205 H 0.1 67 56	230 H 0.1 51 138	255 H 0.1 59 100	280 H 0.2 60 65	305 H 0.1 30 60	330 H 0.2 38 96	355 H 0.3 51 106
14900 N	154 H 0.3 100 62	179 H 0.1 61 84	204 H 0.5 40 94	229 H 0.6 95 180	254 H 0.1 82 75	279 H 0.3 70 112	304 H 0.2 70 91	329 H 0.2 47 110	354 H 0.1 41 108
14800 N	153 H 0.2 103 76	178 H 0.2 96 130	203 H 0.2 53 69	228 H 0.3 60 110	253 H 0.3 59 104	278 H 0.2 54 95	303 H 0.2 41 110	328 H 0.2 180 136	353 H 0.5 92 160
14700 N	152 H 0.1 42 89	177 H 0.2 32 108	202 H 0.2 122	227 H 0.5 80 95	252 H 0.3 167 133	277 H 0.2 105 99	302 H 0.2 105 82	327 H 0.3 260 215	352 H 0.1 39 68
14600 N	151 H 0.1 71 86	176 H 0.3 105 117	201 H 0.2 121 106	226 H 0.1 730 133	251 H No Sample	276 H 0.2 150 95	301 H 0.1 151	326 H 0.1 82 152	351 H 0.6 79 116
14500 N	150 H 0.2 70 85	175 H 0.1 59 97	200 H 0.2 100 108	225 H 0.3 280 107	250 H 0.1 35 70	275 H 0.6 264 123	300 H 0.1 144 123	325 H 0.1 109 159	350 H 0.2 137 176
14400 N	149 H 0.1 37 78	174 H 0.2 66 93	199 H 0.2 66 115	224 H 0.1 185 147	249 H 0.2 123 109	274 H 0.1 100 182	299 H 0.1 95 150	324 H 0.1 65 87	349 H 0.1 118
14300 N	148 H 0.1 26 81	173 H 0.4 71 126	198 H 0.4 82 76	223 H 0.4 380 156	248 H 0.3 400 80	273 H 0.2 70 89	298 H 0.2 57 176	323 H 0.1 76 108	348 H 0.2 25 102
14200 N	147 H 0.1 110 74	172 H 0.2 218 120	197 H 0.2 334 157	222 H 0.2 380 230	247 H 0.1 246 175	272 H 0.1 750 98	297 H 0.3 58 93	322 H 0.7 610 88	347 H 0.1 69 88
14100 N	146 H 0.1 35 78 146	171 H 0.2 129 64	196 H 0.4 129 64	221 H 0.2 82 85	246 H 0.2 61 49	271 H 0.2 94 157	296 H 0.2 57 80	321 H 0.7 32 147	346 H 0.7 30 124
14000 N	145 H 0.1 40 74	170 H 0.3 91 114	195 H 0.4 53 100	220 H 0.2 94 120	245 H 0.2 72 190	270 H 0.1 97 100	295 H 0.1 110 130	320 H 0.2 49 75	345 H 0.3 35 136
13900 N	144 H 0.3 82 100	169 H 0.7 400 275	194 H 0.3 43 110	219 H 0.3 100 153	244 H 0.1 317 110	269 H 0.4 374 160	294 H 0.2 374 117	319 H 0.1 16 120	344 H 0.1 45 87
13800 N	143 H 0.2 35 56	168 H 0.4 47 110	193 H 0.2 48 87	218 H 0.2 160 146	243 H 0.1 133 76	268 H 0.1 52 82	293 H 0.1 73 107	318 H 0.1 48 93	343 H 0.1 48 93
13700 N	142 H 0.1 295 109	167 H 0.5 53 152	192 H 0.2 53 84	217 H 0.1 620 98	242 H 0.3 45 74	267 H 0.2 51 73	292 H 0.3 160 110	317 H 0.7 160 104	342 H 0.1 35 85
13600 N	141 H 0.2 75 144	166 H 0.3 188 132	191 H 0.3 39 82	216 H 0.3 4600 143	241 H 0.3 64 83	266 H 0.7 21 61	291 H 0.7 140 120	316 H 0.3 54 92	341 H 0.3 420 136
13500 N	140 H 0.4 39 149	165 H 0.4 46 90	190 H 0.5 80 130	215 H 0.2 130 136	240 H 0.3 61 56	265 H 0.2 59 114	290 H 0.3 380 92	315 H 0.1 164 114	340 H 0.1 110 180
13400 N	139 H No Sample	164 H 0.5 208 159	189 H 2.7 78 117	214 H 0.2 96 130	239 H 0.2 100 83	264 H 0.1 89 91	289 H 0.3 92 127	314 H 0.1 48 110	339 H 0.1 50 66
13300 N	138 H 0.3 72 140	163 H 0.5 89 100	188 H 0.5 260 145	213 H 0.1 70 117	238 H 0.2 165 107	263 H 0.1 56 106	288 H 0.3 73 102	313 H 0.1 94 122	338 H 0.1 27 69
13200 N	137 H 0.2 43 75	162 H 0.2 16 109	187 H 0.3 49 106	212 H 0.3 75 60	237 H 0.5 72 100	262 H 1.8 288 124	287 H 0.2 33 100	312 H 0.1 79 123	337 H 0.3 80 100
13100 N	136 H 0.2 48 100	161 H 0.1 33 78	186 H 0.3 37 70	211 H 0.2 75 112	236 H 0.5 132 120	261 H 0.5 45 145	286 H 0.2 37 95	311 H 0.1 91 129	336 H 0.1 97 143
13000 N	135 H 0.1 670 470	160 H 0.3 36 147	185 H 0.3 53 96	210 H 0.3 29 85	235 H 0.2 100 85	260 H 0.1 100 120	285 H 0.3 65 117	310 H 0.1 45 80	335 H 0.4 400 140
12900 N	134 H 0.2 47 78	159 H 0.1 32 94	184 H 0.7 45 70	209 H 0.8 62 122	234 H 0.2 62 110	259 H 0.2 31 69	284 H 0.1 60 96	309 H 0.2 31 71	334 H 0.1 56 94



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,810

LEGEND

- Soil Sample
 - △ Stream Sediment Sample
 - x Rock Chip Sample
- 076 H - Sample Number
 1 - Au (ppb)
 0.4 - Ag (ppm)
 32 - Cu (ppm)
 125 - Zn (ppm)

Au - ppb	Ag - ppm
① 10 - 24	① 0.50 - 0.9
② 25 - 49 - anomalous	② 1.0 - 1.9 - anomalous
③ 50 - 99	③ 2.0 - 9.9
④ 100 - 199	④ 10 - 19.9
⑤ 200 +	⑤ 20 +
Cu - ppm	Zinc - ppm
① 75 - 149	① 100 - 199
② 150 - 299 - anomalous	② 200 - 399 - anomalous
③ 300 - 599	③ 400 - 799
④ 600 - 1199	④ 800 - 1599
⑤ 1200 +	⑤ 1600 +

WESTMIN		Westmin Mines Limited	
Work By	R. Millar, R. Lane	TCHENTLO LAKE PROPERTY TL-10 GRID Au, Ag, Cu, & Zn Soil Geochemistry	
Date Drafted	September 1989		
Drafted By	F. Heptonstall		
Date Revised	February 1990		
Revised By	R. W. Lane		
N.T.S. Number	93N/2E, 2W		
SCALE 1:2500			
Figure			
16			

TCHENTLO LAKE

TCHENTLO LAKE

GEOPHYSICAL LEGEND

HELIOPTR SPHERE MAGNETIC ELECTROMAGNETIC AND VLF-EM SURVEY. Navigation using Microloc Map System 1990. Survey by Petrosearch Limited (1990).

TOTAL FIELD MAGNETIC INTENSITY

Contours: 50,000 nT, 50,250 nT (rounded) 50,500 nT, 50,750 nT, 51,000 nT, 51,250 nT, 51,500 nT, 51,750 nT, 52,000 nT, 52,250 nT, 52,500 nT, 52,750 nT, 53,000 nT, 53,250 nT, 53,500 nT, 53,750 nT, 54,000 nT, 54,250 nT, 54,500 nT, 54,750 nT, 55,000 nT, 55,250 nT, 55,500 nT, 55,750 nT, 56,000 nT, 56,250 nT, 56,500 nT, 56,750 nT, 57,000 nT, 57,250 nT, 57,500 nT, 57,750 nT, 58,000 nT, 58,250 nT, 58,500 nT, 58,750 nT, 59,000 nT, 59,250 nT, 59,500 nT, 59,750 nT, 60,000 nT, 60,250 nT, 60,500 nT, 60,750 nT, 61,000 nT, 61,250 nT, 61,500 nT, 61,750 nT, 62,000 nT, 62,250 nT, 62,500 nT, 62,750 nT, 63,000 nT, 63,250 nT, 63,500 nT, 63,750 nT, 64,000 nT, 64,250 nT, 64,500 nT, 64,750 nT, 65,000 nT, 65,250 nT, 65,500 nT, 65,750 nT, 66,000 nT, 66,250 nT, 66,500 nT, 66,750 nT, 67,000 nT, 67,250 nT, 67,500 nT, 67,750 nT, 68,000 nT, 68,250 nT, 68,500 nT, 68,750 nT, 69,000 nT, 69,250 nT, 69,500 nT, 69,750 nT, 70,000 nT, 70,250 nT, 70,500 nT, 70,750 nT, 71,000 nT, 71,250 nT, 71,500 nT, 71,750 nT, 72,000 nT, 72,250 nT, 72,500 nT, 72,750 nT, 73,000 nT, 73,250 nT, 73,500 nT, 73,750 nT, 74,000 nT, 74,250 nT, 74,500 nT, 74,750 nT, 75,000 nT, 75,250 nT, 75,500 nT, 75,750 nT, 76,000 nT, 76,250 nT, 76,500 nT, 76,750 nT, 77,000 nT, 77,250 nT, 77,500 nT, 77,750 nT, 78,000 nT, 78,250 nT, 78,500 nT, 78,750 nT, 79,000 nT, 79,250 nT, 79,500 nT, 79,750 nT, 80,000 nT, 80,250 nT, 80,500 nT, 80,750 nT, 81,000 nT, 81,250 nT, 81,500 nT, 81,750 nT, 82,000 nT, 82,250 nT, 82,500 nT, 82,750 nT, 83,000 nT, 83,250 nT, 83,500 nT, 83,750 nT, 84,000 nT, 84,250 nT, 84,500 nT, 84,750 nT, 85,000 nT, 85,250 nT, 85,500 nT, 85,750 nT, 86,000 nT, 86,250 nT, 86,500 nT, 86,750 nT, 87,000 nT, 87,250 nT, 87,500 nT, 87,750 nT, 88,000 nT, 88,250 nT, 88,500 nT, 88,750 nT, 89,000 nT, 89,250 nT, 89,500 nT, 89,750 nT, 90,000 nT, 90,250 nT, 90,500 nT, 90,750 nT, 91,000 nT, 91,250 nT, 91,500 nT, 91,750 nT, 92,000 nT, 92,250 nT, 92,500 nT, 92,750 nT, 93,000 nT, 93,250 nT, 93,500 nT, 93,750 nT, 94,000 nT, 94,250 nT, 94,500 nT, 94,750 nT, 95,000 nT, 95,250 nT, 95,500 nT, 95,750 nT, 96,000 nT, 96,250 nT, 96,500 nT, 96,750 nT, 97,000 nT, 97,250 nT, 97,500 nT, 97,750 nT, 98,000 nT, 98,250 nT, 98,500 nT, 98,750 nT, 99,000 nT, 99,250 nT, 99,500 nT, 99,750 nT, 100,000 nT.

WEIGHT PERCENT MAGNETIC CONCENTRATIONS

Contour: 2 wt %, 2.5 wt %, 3 wt %, 3.5 wt %, 4 wt %, 4.5 wt %, 5 wt %, 5.5 wt %, 6 wt %, 6.5 wt %, 7 wt %, 7.5 wt %, 8 wt %, 8.5 wt %, 9 wt %, 9.5 wt %, 10 wt %, 10.5 wt %, 11 wt %, 11.5 wt %, 12 wt %, 12.5 wt %, 13 wt %, 13.5 wt %, 14 wt %, 14.5 wt %, 15 wt %, 15.5 wt %, 16 wt %, 16.5 wt %, 17 wt %, 17.5 wt %, 18 wt %, 18.5 wt %, 19 wt %, 19.5 wt %, 20 wt %.

APARENT RESISTIVITY

Contour: 100 ohm m, 200 ohm m, 300 ohm m, 400 ohm m, 500 ohm m, 600 ohm m, 700 ohm m, 800 ohm m, 900 ohm m, 1000 ohm m, 1500 ohm m, 2000 ohm m, 3000 ohm m, 4000 ohm m, 5000 ohm m, 6000 ohm m, 7000 ohm m, 8000 ohm m, 9000 ohm m, 10000 ohm m, 15000 ohm m, 20000 ohm m, 30000 ohm m, 40000 ohm m, 50000 ohm m, 60000 ohm m, 70000 ohm m, 80000 ohm m, 90000 ohm m, 100000 ohm m.

EM ANOMALIES

EM Anomaly: 4000 Hz, Conductivity increases 0.1 mhos. EM Anomaly: 15-30 Hz, Conductivity increases 0.1 mhos.

GEOPHYSICAL LEGEND

Lake 21: Soil Geotechnical Grid

SOIL GEOCHEMISTRY

1/800 ppm Cu soil geochemical response indicated by Borondra Eruption (approx. 1810-1840's AD) 1975

MISCELLANEOUS

Lake 21: Ditch Boundary, Dam Buck

GEOPHYSICAL LEGEND

Lower Ordovician: HOEEN BATHOLITH, Leucocratic Granite, Quartz Syenite, Analeite

UPPER TRIASSIC / LOWER JURASSIC

HOEEN GRANODIORITE: Granodiorite, Quartz Monzonite, minor Tourmaline, Quartz Dyke, Quartz Monzonite, Granite

HOEEN BASIC SITE

Monzonite, Quartz Monzonite, Monzonite, Quartz Monzonite, Nelson Lakes Plagioclase Porphyry, Monzonite

TALUKA GROUP

Dolomite, minor Gabbro, Pyroxene, Hornblende, Amphibolite, Rock, Andesite, Basalt, Shale, and Siltstone

ANDERIT & BASALT VOLCANIC ROCK, TUFF, AND BRECCIA, INTERBEDDED WITH FISSILE ROCKS AND DIKES

ANDERIT & BASALT VOLCANIC ROCK, TUFF, AND BRECCIA, INTERBEDDED WITH FISSILE ROCKS AND DIKES

ANDERIT & BASALT VOLCANIC ROCK, TUFF, AND BRECCIA, INTERBEDDED WITH FISSILE ROCKS AND DIKES

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Westmin Mines Limited

TCHENTLO LAKE PROPERTY COMPIATION MAP

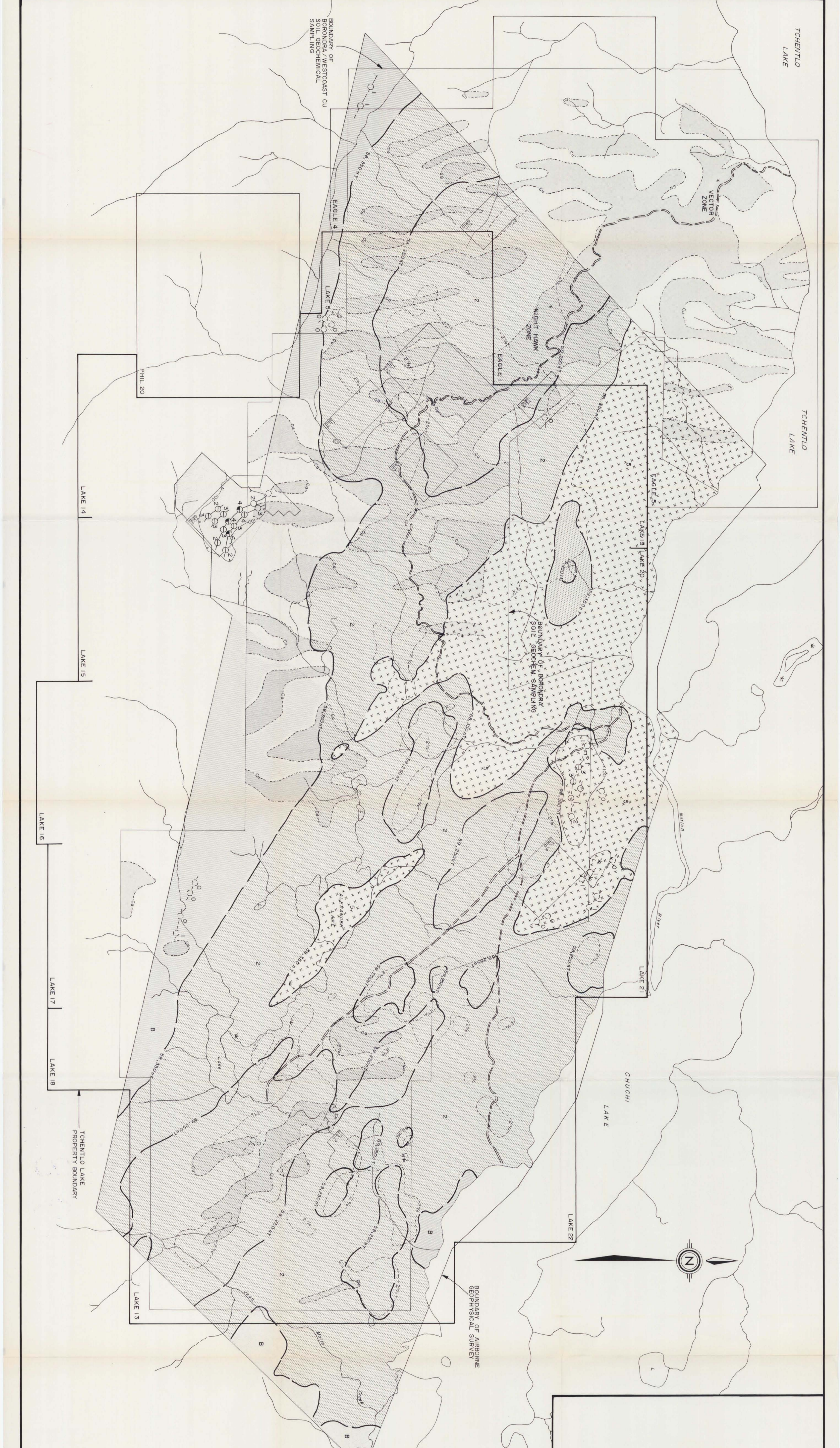
Geology, Cu Soil Geochemistry/Borondra Total Field Magnetism, HEM Conductors Weight Percent Magnetite, Grids

Figure 7

19,810

GEOLOGICAL BRANCH ASSESSMENT REPORT

Work By: R. Lane, Date Drafted: March 1990, Drafted By: F. Heptonstall, Date Revised: [blank], Revised By: [blank], NTS Number: 93N/2, SCALE: 1:20,000



BOUNDARY OF BORONDRA/WESTCOAST CU SOIL GEOCHEMICAL SAMPLING

BOUNDARY OF BORONDRA SOIL GEOCHEM SAMPLING

BOUNDARY OF AIRBORNE GEOPHYSICAL SURVEY

TCHENTLO LAKE PROPERTY BOUNDARY

GEOLOGICAL BRANCH
ASSESSMENT REPORT

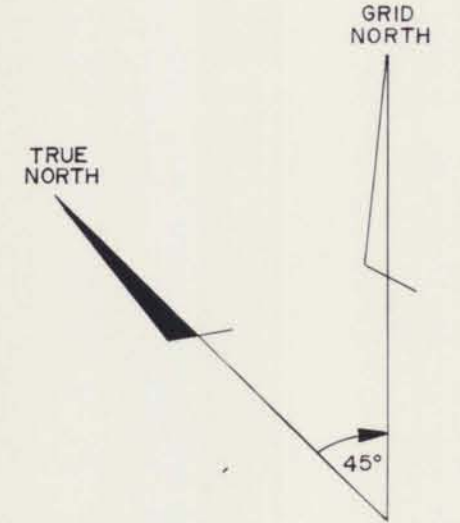
19,810



LEGEND

- Soil Sample
- Δ Stream Sediment Sample
- X Rock Chip Sample

- 076H - Sample Number
- 1 - Au (ppb)
- 0.4 - Ag (ppm)
- 32 - Cu (ppm)
- 125 - Zn (ppm)



Au - ppb

- ① 10 - 24
- ② 25 - 49 - anomalous
- ③ 50 - 99
- ④ 100 - 199
- ⑤ 200+

Ag - ppm

- ① 0.50 - 0.9
- ② 1.0 - 1.9 - anomalous
- ③ 2.0 - 9.9
- ④ 10 - 19.9
- ⑤ 20+

Cu - ppm

- ① 75 - 149
- ② 150 - 299 - anomalous
- ③ 300 - 599
- ④ 600 - 1199
- ⑤ 1200+

Zinc - ppm

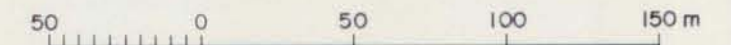
- ① 100 - 199
- ② 200 - 399 - anomalous
- ③ 400 - 799
- ④ 800 - 1599
- ⑤ 1600+



Westmin Mines Limited

Work By
R. Millar, R. Lane
Date Drafted
September 1989
Drafted By
F. Heptonstall
Date Revised
February 1990
Revised By
R. W. Lane
N.T.S. Number
93N/2E, 2W

TCHENTLO LAKE PROPERTY
TL-1 GRID
Au, Ag, Cu, & Zn Soil Geochemistry



SCALE 1:2500

Figure

8