

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 89.03.10

ASSESSMENT REPORT 17316

MINING DIVISION: Liard

PROPERTY: Rok
 LOCATION: LAT 57 47 49 LONG 129 52 24
 UTM 09 6406227 448084
 NTS 104H13W

CLAIM(S): Rok
 OPERATOR(S): Manchester Res.
 AUTHOR(S): Dupre, D.G.
 REPORT YEAR: 1988, 98 Pages

COMMODITIES
 SEARCHED FOR: Copper, Gold, Silver
 GEOLOGICAL

SUMMARY: The property is underlain by flat-lying to gently dipping Upper Triassic-Middle Jurassic andesitic volcanic rocks and minor sedimentary rocks which have been intruded by several coeval, altered alkaline stocks. Several copper-gold occurrences are present on the property. These are associated with abundant quartz veining and fracturing accompanied by magnetite in intensely altered zones. The best grade mineralization occurs at the faulted and fractured contact between the intrusive stocks and the volcanics.

WORK DONE: Geological, Geochemical, Geophysical
 GEOL 500.0 ha
 Map(s) - 2; Scale(s) - 1:2000
 MAGG 30.0 km
 Map(s) - 1; Scale(s) - 1:2000
 SOIL 904 sample(s) ;CU,AU
 Map(s) - 4; Scale(s) - 1:2000
 MINFILE: 104H

ROK Property

LOG NO: 0426	RD.
ACTION:	
FILE NO:	

GEOLOGICAL, GEOCHEMICAL
AND GEOPHYSICAL REPORT
on the
ROK PROPERTY
Liard Mining Division
N.T.S. 104-H/13 W
Latitude 57°47' North
Longitude 129°53' West
British Columbia

January 5, 1988

FILMED

on behalf of
MANCHESTER RESOURCES CORP.
Edmonton, Alberta

by
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GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,316

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INTRODUCTION

Taiga Consultants Ltd. was commissioned by Manchester Resources Corporation to carry out an exploration program over the ROK property, located in northwestern British Columbia. A four-man crew carried out 40 line km of grid establishment, detailed geological mapping, soil geochemical sampling, and magnetometer surveying in the northern part of the property during August 1987.

Several copper/gold occurrences were discovered which are localized near the contact between monzonitic or syenitic intrusions and altered extrusive units. The mineralization comprises disseminated and fracture-filling chalcopyrite, pyrite, and magnetite associated with a quartz veinlet network. The best assay results from 23 grab samples are:

<u>Sample</u>	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>Cu (%)</u>
110711	800	3.13	1.22
110712	44	15.6	1.9

The best drill intercepts from the previous TexasGulf programs were 1.07% Cu and 0.04 g/t Au over 15 m in hole D1 and 0.92% Cu and 0.037 g/t Au over 25 m in hole D2.

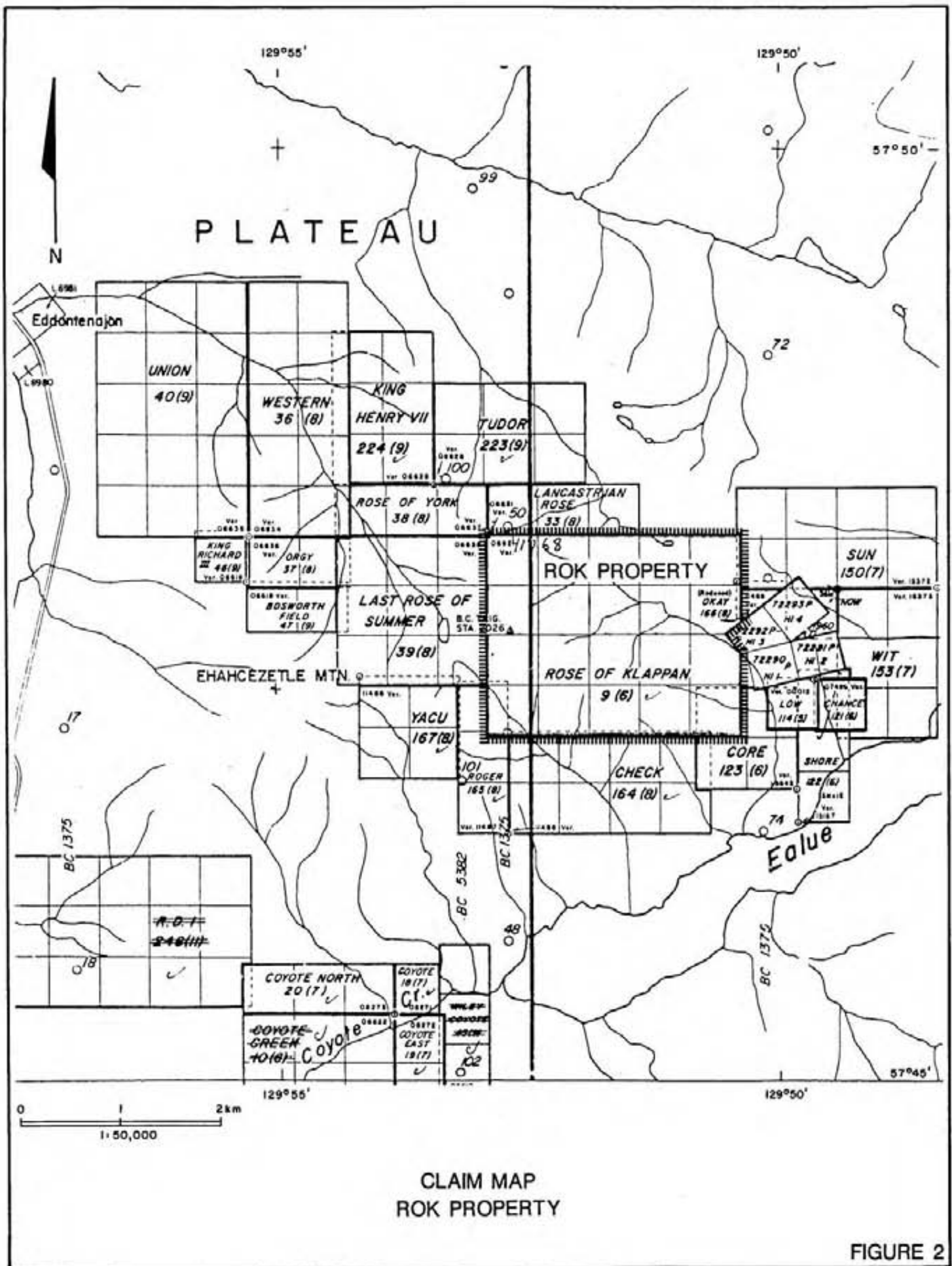
The magnetometer survey delineated several discrete anomalies which are coincident with the known mineralization. Several large Au/Cu soil geochemical anomalies were outlined in the area of the showings.

A program is presented to further evaluate the potential of the ROK property.

Location and Access

The property is situated within the Liard Mining Division in northwestern British Columbia, approximately 350 km northwest of Smithers (Figure 1) and 7 km east of the village of Iskut. The property lies immediately east





CLAIM MAP
ROK PROPERTY

FIGURE 2

of Eddontenajon Lake and north of Ealue Lake. It is centered on 57°47' North latitude and 129°53' West longitude in N.T.S. map-sheet 104-H/13 W.

Access is by helicopter from the nearby Stewart-Cassiar Highway or the "Klappan Access Road" which follows the north shore of Ealue Lake. The nearest helicopter base is located 50 km north at Dease Lake and is operated by Frontier Helicopters Limited. Scheduled air service is available from Terrace to Iskut during the summer months.

Property Status

The property consists of the ROK modified-grid located claim (20 units) registered in the name of Taiga Consultants Ltd. This claim was located on April 29, 1987, and has a record number of 4072. A copy of the recording document is attached in Appendix II. The property adjoins Falconbridge Limited's Rose property and is subject to an agreement with Falconbridge. The locations of these claims are shown on Figure 2.

Physiography

The property covers a part of Ehahcezette Mountain which forms a small massif between Ealue and Eddontenajon Lakes. The maximum elevation is 1900 m and the relief on the property is in the order of 600 m. Most of the property is above the tree line and is characterized by gentle slopes with several deeply incised valleys. Several small lakes are present on the property and could provide water for camp and drilling operations.

HISTORY OF EXPLORATION

In 1929, the "Klappan Rose" showing was discovered immediately to the east of the ROK property. A short adit was driven on a copper-bearing skarn.

During the 1960's, a prominent iron-stained zone on Ehahcezettle Mountain, above Eddontenajon Lake, was examined by a number of companies. TexasGulf Inc. (now Falconbridge Limited) staked most of the massif in 1975 (including the ROK claim) and explored the area from 1975 to 1980. Their work included geological mapping, geochemical sampling, geophysical (magnetometer and I.P.) surveying, trenching, and approximately 700 m of diamond drilling in 10 holes.

Taiga Consultants Ltd. staked the ROK claim (coincident with Falconbridge's forfeited Rose of Klappan claim) in April 1987.

1987 EXPLORATION PROGRAM

During August 1987, a four-man crew spent 12 days on the ROK property carrying out detailed geological mapping, magnetometer surveying, and soil geochemical sampling. The TexasGulf grid was re-established (60 m line spacing with 20 m station intervals) in the western part of the property. This grid was extended by hip chain and compass control over the northeastern part of the claim.

GEOLOGICAL MAPPING

In the western part of the property, 40 line km of detailed geological mapping were completed. The map-area is characterized by 10% outcrop, 60% soil cover, and 30% talus/felsenmeer. The results of the geological mapping are plotted on Maps 1 and 2 at a scale of 1:2000.

LITHOGEOCHEMISTRY

Twenty-three grab samples were collected and analyzed for copper, gold, and silver. The analytical results and sample descriptions are included in the appendices. The sample locations are plotted on Maps 1 and 2. The best assay results are:

<u>Sample</u>	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>Cu (%)</u>
110711	800	3.13	1.22
110712	44	15.6	1.9

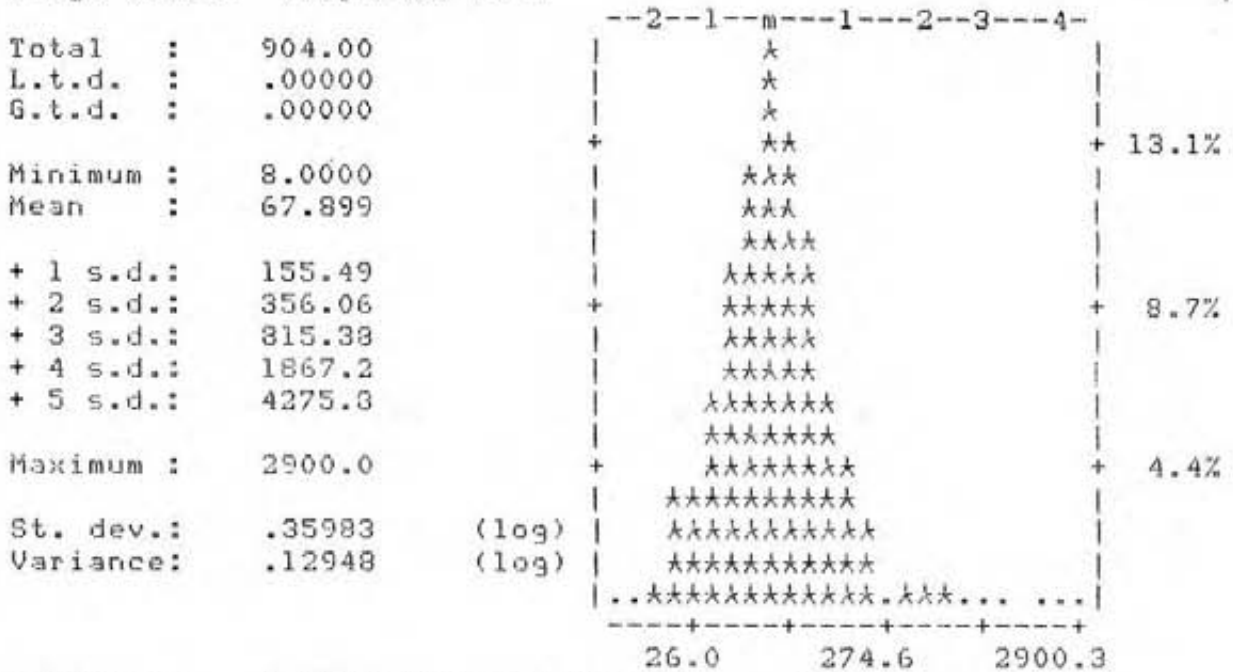
SOIL GEOCHEMISTRY

A soil geochemical sampling program was carried out in the northern and western parts of the the ROK claim, with a total of 904 B-horizon soil or talus-fines samples collected and analyzed for Cu and Au. The moderate slopes are characterized by a good soil profile while the steeper slopes are covered by talus or felsenmeer. The low, flat areas are poorly drained and exhibit organic-rich soils poorly suited for geochemistry.

The geochemical results were subjected to graphical/statistical analysis. The results are shown on Figures 3 and 4. This analysis indicates that definite anomalies are characterized by values greater than 200 ppm Cu and 20 ppb Au.

Several large copper soil geochemical anomalies were delineated which are coincident with, but much more extensive than, the known mineralization. The "East" Zone is situated near the eastern extremity of a copper anomaly (>200 ppm Cu, maximum 12,600 ppm) which is 700 m long and up to 200 m wide. Several anomalous (+20 ppb) gold anomalies occur within this copper anomaly. It is likely that the northern part of this anomaly is transported down-slope from the known mineralized zone. The "North" Zone exhibits anomalous copper values and the highest gold values (maximum 808 ppb) on the property. These Cu/Au anomalies are open to the east and warrant additional sampling.

Taiga soils. Project:K-BC-5



Skewness: 2.7760 standard error: .0815
 Kurtosis: 2.5577 standard error: .1629

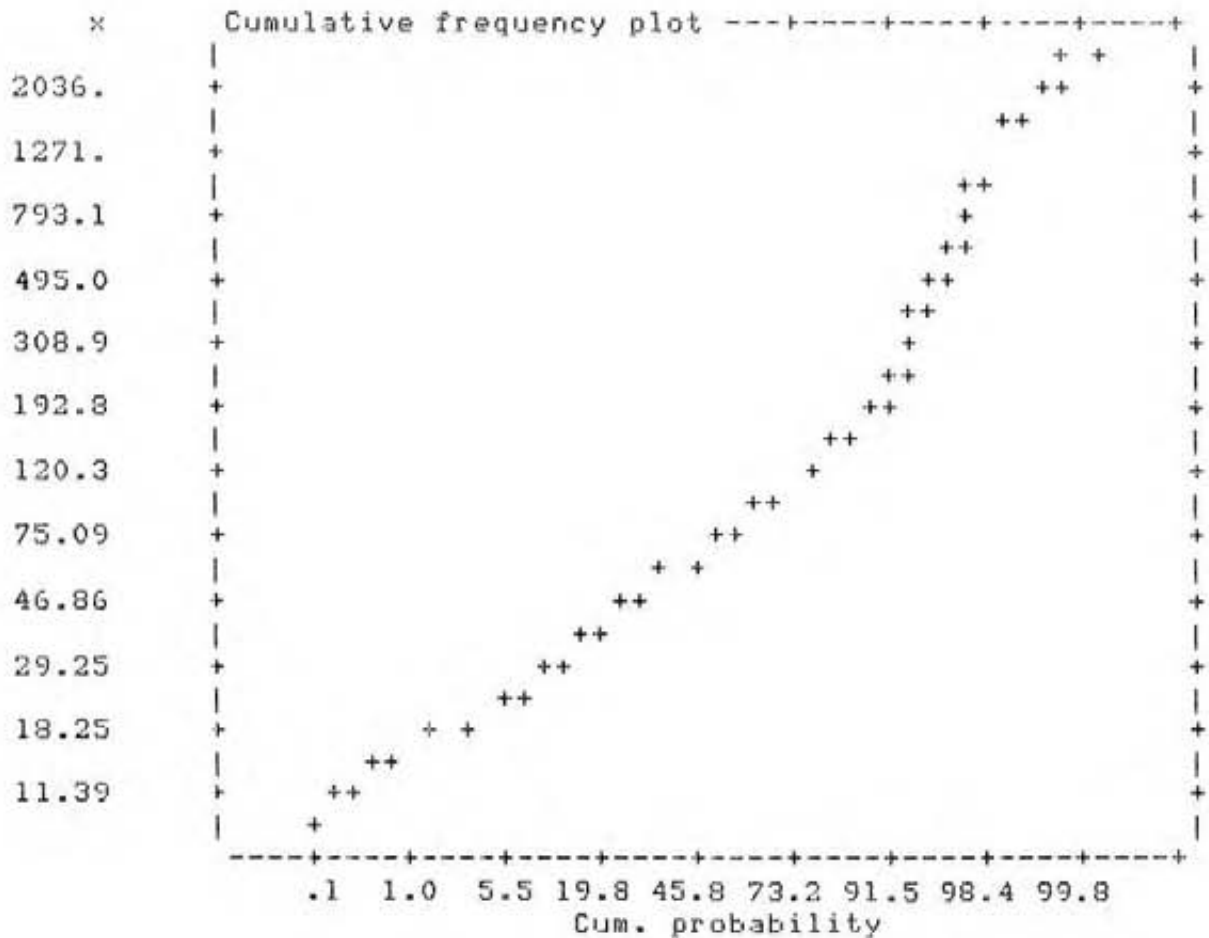


Fig. 4

MAGNETOMETER SURVEY

Several areas of the ROK property were covered by a 30-line-km magnetometer survey, using a GeoMetrics G826 portable proton precession magnetometer. Readings were obtained at 20 m intervals along lines spaced 60 m apart. A base station was established at 107+20E on the 100+00N base line. Standard looping techniques were utilized to correct for diurnal variations, and all readings were corrected to a common datum. The maximum looping time was two hours and no major drifts were encountered during the program. The results are plotted on Map 5.

Distinctive magnetic anomalies were delineated over the known mineralized and altered zones. These anomalies range up to 1000 gammas above background and are related to the magnetite content of the mineralized rocks. This technique is particularly applicable to the search for the style of mineralization known on the ROK property.

REGIONAL GEOLOGY

The property lies within the Intermontaine Belt of the Canadian Cordillera and near the northern perimeter of the Bowser Basin. The region is dominantly eugeosynclinal and characterized by allochthonous supracrustal terrains and small intrusive stocks. These assemblages were accreted during Mesozoic time against the ancestral continental margin of North America. Most of the accreted terrains are only locally metamorphosed and large areas are only moderately deformed with little disruption of stratigraphic continuity. Within these terrains are numerous areas of subaerial volcanic rocks with related or younger high-level plutons.

In the Stikine River area, several of the alkaline plutons in the 170 m.y. to 200 m.y. age range contain important copper/gold reserves. The most significant deposits are:

	<u>m.tons</u>	<u>% Cu</u>	<u>g/t Au</u>	<u>g/t Ag</u>	<u>% MoS₂</u>	<u>% Zn</u>
Schaft Creek	900	0.30	0.137		0.034	
Galore Creek/Stikine Copper	125	1.06	0.4	7.7		
Red / Chris	39.7	0.56	0.33			
Kutcho Creek	20-25	2.0		68		3.0

These occurrences belong to a group of gold-rich porphyry copper deposits which are commonly hosted by alkaline intrusions (Sillitoe, 1979). Empirical factors common to many of these deposits are an abundance of magnetite and replacement quartz in feldspar-stable assemblages.

PROPERTY GEOLOGY

The property is underlain by flat-lying to gently-dipping Upper Triassic - mid-Jurassic volcanic rocks and minor amounts of sedimentary rocks which have been intruded by several coeval, altered alkaline stocks. The sedimentary units are the youngest on the property and crop out in a northwest-southeast trending belt on the valley floor. These units are thought to be up-thrown along normal faults. The volcanic rocks are predominantly of andesitic composition and are likely subaerial in origin. Several tabular to irregularly-shaped stocks of syenitic or monzonitic composition intrude the volcanic units. The linear distribution of the monzonites suggests that pre- or post-intrusive faults controlled their distribution. Cooper (1978) reports copper-bearing and tourmaline-bearing clasts in purple andesites on the east side of Black's Creek and suggests that the volcanics may, in part, lie unconformably on green andesites and the Rose stock.

Rock Types

Siltstone (Map Unit 1): A thin band of siltstone occurs in the northeastern part of the ROK claim. Several small outcrops and abundant, in situ blocks comprise the distribution of this unit. Generally, the siltstone is light brown weathering, thin to medium bedded, and has a calcareous cement.

Limestone (Map Unit 2): This unit is approximately 50 m thick and forms a series of distinctive white to cream knolls in the valley floor. Thick bedded to massive, medium grey, featureless limestone is the most dominant lithotype but bioclastic and silty, medium bedded varieties are locally present. In places, crinoids and corals comprise up to 40% of individual outcrops. Patches of buff-brown, sugary dolomite are locally present within the more bioclastic units. The irregular, but commonly, tabular patches appear to be related to dissolution processes which are channeled along fractures or permeable zones.

Intermediate Volcanic Rocks (Map Unit 3): This unit is likely andesitic in composition and comprises flows and minor flow breccias. These rocks display a light to medium green-grey or green-brown weathered surface and a medium grey fresh surface. Hematitic varieties exhibit a dark maroon colouration. Massive, fine-grained, equigranular flows are the most common rock type but feldspar-phyric varieties containing up to 20% small (0.5 to 2.0 mm long) cream coloured plagioclase phenocrysts are relatively abundant. Some of the massive, fine-grained units may be intrusive rather than extrusive in origin. In fact, the high-level, monzonitic, intrusive rocks resemble many of the extrusive flows. Generally, the monzonite is slightly finer grained, more dense, and breaks in slabs rather than irregular blocks. Epidote and calcite are common constituents of the intermediate volcanic flows and occur as small patches or stringers.

Intermediate autobreccias are irregularly distributed within the map-area of Unit 3. This rock type comprises poorly sorted, sub-angular to sub-rounded intermediate extrusive fragments in a fine-grained, slightly darker, more mafic extrusive groundmass. The fragments range from 1 cm to 50 cm in diameter, and can make up 60% of an outcrop area or specimen. In places, the fragments are heterolithic with varicoloured feldspar-phyric or amygdaloidal varieties being the most abundant. The fragments appear to be remnants of semi-lithified flows which have been brecciated and re-incorporated within subsequent extrusive units.

Within the map-area of the intermediate volcanics, there is a lack of lithologic continuity between outcrops and distinct marker units are not recognized. The absence of flow banding, pillows, intraflow sediments, or hyaloclastite, together with abundant hematite suggests that most of the intermediate flows were deposited in a subaerial environment. A thin unit of volcanic agglomerate is, however, exposed in a trench at 105+90E/100+50N. The aquagene unit comprises poorly sorted, sub-rounded clasts of fine-grained andesite in a silty tuffaceous matrix.

Syenite (Map Unit 4): The syenite is medium- to coarse-grained, pink weathering, massive, and contains 5% to 15% distinctive glassy quartz grains up to 5 mm in diameter. Porphyritic varieties are common and contain up to 20% large (maximum 1 cm) pink, subhedral potassium feldspar phenocrysts. The fine-grained matrix is composed of plagioclase, quartz, K-feldspar, magnetite, calcite, and minor biotite. One small syenite stock was mapped in 1987 near the "North" Zone. The magnetic data suggest that this intrusion continues to the west beneath a thin veneer of intermediate volcanics.

Monzonite (Map Unit 5): Most of the copper/gold mineralization on the property is spatially related to the monzonite intrusions. This unit is fine-grained, massive, and medium green-grey on fresh surface. It resembles the massive intermediate flows but exhibits a distinctive tan weathering surface and blocky appearance. The monzonite likely represents the intrusive feeders for much of the intermediate extrusives on the property. For the most part, this unit occurs in long, narrow belts which are probably fault controlled.

An intrusive breccia consisting of quartz monzonite and purple feldspar porphyry fragments in a fine-grained matrix are reported by Cooper (1978) from outcrop and drill holes #1 and #6 in the "East" Zone. The breccia in drill hole #1 comprises various fragments of green quartz monzonite, green gabbro dyke rock, and a quartz stockwork carrying chalcopyrite.

Feldspar Porphyry Dykes (Map Unit 6): Several narrow (<5 m) northeast trending dykes were mapped in the northeastern part of the property where they intrude limestone as well as the intermediate volcanics. This rock type is composed of 5% to 20% euhedral feldspar phenocrysts up to 5 mm long sprinkled through a fine-grained mafic matrix.

Alteration

A narrow potassic (K-feldspar/biotite) alteration zone rims the eastern margin of the feldspar-stable "North" Zone syenite stock. Minor amounts of specular hematite are also associated with this zone. The potassic zone is, in turn, enveloped by a propylitic (chlorite, calcite, epidote) alteration zone. Several small chalcopyrite/bornite/magnetite showings are situated within these alteration zones.

Drilling by TexasGulf encountered intensely altered (potassic) monzonite at the "East" Zone and it is here that the best drill intercepts and surface mineralization are located. The apparent lack of coherent alteration zones was ascribed by TexasGulf geologists (Cooper, 1978) to geometrically complex intrusive contacts and post-alteration normal faulting. The relationship of the gold/copper mineralization and magnetite to zones of potassic alteration (or feldspar-stable assemblages) are characteristic features of alkaline porphyry Cu/Au deposits.

Occurrences of propylitic (chlorite, montmorillonite, calcite, epidote) alteration are scattered along the monzonite/andesite contact and are commonly accompanied by 1% to 4% disseminated pyrite and trace amounts of chalcopyrite.

Structure

Where observed, deposition features suggest that rocks on the ROK property are flat-lying to gently dipping. The distribution of map units

indicates that the major fault trend in the area is northeast-southwest with a less prominent set trending northwest-southeast. Regionally, the intersection of these two trends is thought to provide the loci for intrusion of the prospective alkaline stocks. Measurements of displacement along the faults is impossible since there are few distinctive markers. Exposures of sedimentary rocks in the northeastern part of the ROK property suggest that this block has been up-thrown along a northwesterly trending graben.

Mapping of outcrop in creek gullies or trenches show lenticular to planar zones of quartz veining and sulphide enrichment. Such a pattern suggests a strong structural control of mineralization. Analysis of fault and fracture trends in these outcrops indicates a prominent trend between 060° and 090° with northwesterly dips.

Mineralization

A number of widely scattered showings were identified during the 1987 exploration program. These showings are associated with altered, multiphase, subvolcanic alkaline stocks and the adjacent coeval andesitic extrusive rocks. The three most significant copper/gold occurrences ("West", "East", "North" Zones) are associated with areas of intense quartz veining, fracturing, and potassic or propylitic alteration. The mineralization is composed of fine-grained disseminations and stringers of chalcopyrite, bornite, pyrite, and magnetite, which are invariably associated with a fine network of grey-blue quartz veinlets. Narrow fractures partially filled with fine-grained, white, subhedral quartz are common within the altered and mineralized zones, but do not carry anomalous gold or copper values. The average sulphide content of the mineralized showings is 3% and the maximum is 10%.

The West Zone exhibits a number of chalcopyrite/pyrite showings concentrated along the western margin of a tabular monzonite "dyke". All of the outcrops in the 400 m long zone are mineralized but are separated from

each other by overburden. A grab sample from this zone (#110712) assayed .44 ppb Au, 15.6 ppm Ag, and 1.9% Cu. TexasGulf delineated coincident I.P. and magnetic anomalies over this zone but did not carry out any drilling.

The East Zone is composed of a number of mineralized showings which occur within a 200 m x 200 m area of altered monzonite and andesite. TexasGulf excavated several trenches and drilled five holes to test this zone. The best drill intercepts were:

<u>DDH</u>	<u>Length</u>	<u>% Cu</u>	<u>g/t Au</u>
#1	15 m	1.07	0.04
#2	25 m	0.92	0.037

Some of the best trench samples ranged from 0.6% to 1.5% Cu over 3 m widths. The geological mapping and magnetometer results suggest that some of the drill holes may have been drilled down the dip of the mineralized structures.

The North Zone was discovered in 1987 and comprises several occurrences of disseminated chalcopyrite and pyrite which are localized within an altered (potassic) halo surrounding a small syenitic plug. The mineralized zone is coincident with a strong Cu/Au soil geochemical anomaly. A magnetic anomaly extends westward from the "North" Zone and indicates that the mineralization may continue beneath a thin veneer of andesitic volcanics.

SIMILAR DEPOSITSPhilippines

The geology and mineralization of the ROK property are quite similar to several of the porphyry copper/gold deposits and prospects in the Philippines. All of the gold-rich deposits are associated with quartz diorite (tonalite) stocks of probable Miocene age emplaced in andesitic volcanic or volcanoclastic rocks (Sillitoe, 1979). The ore zones all carry chalcopyrite and pyrite, with or without bornite in an altered (potassic) zone dominated by biotite. Stockworks of quartz veinlets with patches of intervening silicification and abundant magnetite typify the ore zones. Magnetite also occurs alone in veinlets and disseminations. Copper and gold values vary sympathetically and the highest grades are usually coincident. At the Santo Thomas II deposit, the best gold grades are located in the bornite-rich core. This mine has reserves of +200 million tons at 0.5% Cu and 0.90 g/t Au. The 6% to 7% magnetite at Santo Thomas II was recovered from the flotation tailings at one time.

Quesnel Trough, Intermontaine Belt, British Columbia

The possibility of locating a Quesnel River (QR) type of deposit should not be discounted. Fox et al. (1980) describe the QR main zone as a large, gold-bearing pyritic zone in basaltic lavas, breccias, and tuffs situated at the contact with a series of younger volcanoclastic sediments and within an alteration halo that surrounds a small diorite stock. Host rocks are propylitized basalt, breccia, and tuff composed of varying amounts of pyrite, calcite, epidote, chlorite, and remnant volcanic fragments. It is not known whether magnetite is associated with the gold mineralization.

CONCLUSIONS

The ROK property is underlain predominantly by andesitic volcanic rocks which have been intruded by several small coeval alkaline stocks. A number of copper/gold occurrences have been discovered on the property. These are associated with abundant quartz veining and fracturing accompanied by magnetite in intensely altered zones. The best mineralization occurs at the faulted and fractured contact between the intrusive stocks and the volcanics.

TexasGulf evaluated the "East" Zone with several trenches and six drill holes. The best drill intercepts were:

<u>DDH</u>	<u>Length</u>	<u>% Cu</u>	<u>g/t Au</u>
#1	15 m	1.07	0.04
#2	25 m	0.92	0.037

The prominent control of the mineralization appears to be a major north-east-southwest trending fracture zone. The geological, geochemical, and magnetic data suggest that the previous drilling did not test the mineralized zone in the optimum orientation. This zone warrants further drilling to test the best coincident soil geochemical and magnetic anomalies.

The "West" Zone lies predominantly on the Falconbridge claims and exhibits strong soil geochemical Au/Cu, I.P., and magnetic anomalies. The I.P. anomalies in part of this zone exhibit resistivity lows and chargeability highs suggesting the possibility of high-grade sulphides. The mineralization is poorly exposed and warrants several drill holes to evaluate the bulk-tonnage Cu/Au potential.

The "North" Zone exhibits a strong magnetic anomaly and numerous high-order Cu/Au soil geochemical values. The best geochemical results (maximum 808 ppb Au) are localized along the eastern contact of the altered syenite plug. These anomalies are open to the east and definitely warrant further investigation by prospecting and additional soil sampling. The anomalies could be related to porphyry-style Cu/Au mineralization or quartz vein-shear zone occurrences.

The magnetic and soil geochemical techniques have proven to be very effective exploration techniques and should be utilized to guide the next phase of exploration.

RECOMMENDATIONS

It is recommended that the systematic exploration program (geological mapping, soil geochemical sampling, prospecting, and magnetometer surveying) utilized in 1987 be extended eastward to evaluate the continuation of the "North" Zone. This area is characterized by very steep slopes and moderate outcrop. Particular attention should be focused on prospecting for quartz vein-shear zone mineralization, as several northeast-southwest trending faults were mapped further to the northeast.

A 1200-metre drilling program is recommended to evaluate each of the three mineralized zones. Targets have been selected which exhibit coincident magnetic, soil geochemical, and I.P. responses. All the holes should be oriented at 180°, as this is perpendicular to the prominent fault/fracture systems. The proposed holes on the "West" Zone are contingent upon obtaining a favourable agreement with Falconbridge.

The parameters for the proposed drill program are tabulated below and the locations of the proposed holes are shown on Maps 1 and 2.

PARAMETERS OF PROPOSED DRILLING PROGRAM

<u>Collar Coordinates</u>	<u>Orientation</u>	<u>Inclination</u>	<u>Proposed Depth</u>
<u>West Zone</u>			
103+60E/ 87+00N	180°	-45°	250 m
104+80E/ 88+80N	180°	-45°	250 m
106+00E/ 90+00N	180°	-45°	200 m
<u>East Zone</u>			
107+20E/ 99+00N	180°	-45°	250 m
<u>North Zone</u>			
108+40E/101+80N	180°	-45°	<u>250 m</u>
		TOTAL METERAGE	1,200 m

PROPOSED EXPLORATION BUDGET

Diamond Drilling (including helicopter, mob/demob, etc.) 1200 m @ \$120/m	\$144,000
Geochemistry (includes extension of existing grid) 400 samples @ \$20/each	8,000
Geological mapping (includes core logging, prospecting)	18,000
Geophysics (magnetometer survey) 20 km @ \$125/km	<u>2,500</u>
	Sub-Total 172,500
Contingency Allowance	<u>17,500</u>
	Total <u>\$190,000</u>

ROK PROPERTY

Summary of Expenditures

Personnel	\$18,784.50
Disposable Supplies	817.55
Assays	10,861.43
Room and Board	2,600.00
Transportation & Travel	6,479.31
Equipment Rental (magnetometer)	260.00
Equipment Rental (truck)	956.41
Helicopter	11,245.83
Miscellaneous (Graphics, Air freight Reproductions, Telephone, etc.)	1,306.21
Handling Charges on Third Party Invoices	<u>2,745.29</u>
TOTAL	\$56,055.99

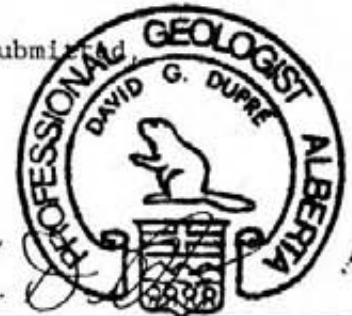
CERTIFICATE

I, David George DuPré, of 13116 Bonaventure Drive S.E. in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a graduate of the University of Calgary, B.Sc. Geology (1969), and have practised my profession continuously since graduation.
2. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta; and I am a Fellow of the Geological Association of Canada.
3. I am a Consulting Geologist associated with the firm of Taiga Consultants Ltd. with offices at Suite 400, 534 - 17th Avenue S.W., Calgary, Alberta.
4. I am the author of the report entitled "Geological, Geochemical, and Geophysical Report on the ROK PROPERTY, Liard Mining District, British Columbia", dated January 5, 1988.
5. I personally supervised the field work on the property.

DATED at Calgary, Alberta, this 5th day of January, A.D. 1988.

Respectfully submitted,



D. G. DuPré
David G. DuPré, B.Sc., P.Geol., F.G.A.C.

REFERENCES

B.C. Ministry of Energy, Mines and Petroleum Resources:
■ assessment files, including Enns, S.G. (1982)

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ROK Property

A P P E N D I X I

Rock Sample Descriptions

ROCK SAMPLE DESCRIPTIONS

<u>Sample</u>	<u>Description</u>	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>Cu (%)</u>
110701	slightly bleached and altered (potassic) fragmental andesite, minor calcite veining, trace fine-grained disseminated pyrite, trace malachite	3.0	0.03	0.004
110702	slightly bleached, kaolinitized, and silicified andesite flow rock, 1-2% fine-grained disseminated pyrite	5.0	0.21	0.001
110703	moderately fractured andesite flow rock, minor calcite veining, trace malachite	2.0	1.17	0.002
110704	moderately silicified andesite flow rock, brecciated, several jasperoid veinlets and white quartz stockwork veins, trace pyrite	<2.0	0.13	0.015
110705	Trench: fairly fresh fragmental andesite, minor potassic alteration, trace calcite stringers and chlorite patches, trace Py	32.0	0.17	0.068
110706	fragmental andesite with trace pyrite and 20% quartz stockwork, irregular network of "veins" with small euhedral white quartz crystals partially lining fractures	<2.0	0.29	0.001
110707	as above	5.0	0.38	0.004
110708	hornfels, siliceous, dense brown andesite, patches of coarse-grained black biotite, minor epidote, trace Py and Cpy	9.0	0.09	0.007
110709	fragmental andesite, abundant calcite and epidote patches, minor potassic alteration, trace pyrite	2.0	0.07	0.015
110710	intensely altered (calcite and epidote) andesite, trace pyrite, possible minor sphalerite	28.0	0.22	0.011
110711	silicified andesite flow rock, minor quartz veining with 1% pyrite, chalcopyrite, and magnetite	800.0	3.13	1.22
110712	silicified and weakly bleached fragmental andesite, minor quartz veining, 1-3% fine-grained disseminated pyrite and tr-2% Cpy	44.0	15.6	1.9

ROK Property

<u>Sample</u>	<u>Description</u>	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	<u>Cu (%)</u>
110713	Trench: silicified, sericitic(?), and highly fractured andesite, 3-5% fine-grained disseminated pyrite	<2.0	0.81	0.015
110714	Trench: silicified, fractured andesite, abundant laminated quartz veins up to 1 cm thick, 2% disseminated pyrite, trace chalcopyrite	144.0	0.91	0.61
110715	fine-grained massive monzonite, minor 1-2 cm thick white quartz stockwork	2.0	0.15	0.008
110716	Trench: monzonite, minor white quartz stockwork, trace fine-grained disseminated pyrite	32.0	1.75	0.026
110717	Trench: silicified andesite, abundant grey quartz veining up to 2 cm thick and some white quartz stockwork, 3% pyrite, trace chalcopyrite	46.0	8.1	0.21
110718	andesite with several thin (<2 cm) white quartz stockwork "veins"	2.0	0.03	0.003
110719	fragmental andesite with minor quartz stockwork	130.0	0.44	0.005
110720	andesite with minor white quartz stockwork	4.0	0.1	0.007
110721	fragmental andesite, siliceous, sericitic, 1% fine-grained disseminated and patchy pyrite and chalcopyrite	2.0	0.28	0.001
110722	fragmental andesite with white euhedral quartz crystals lining cavities and fractures	<2.0	0.07	0.003
110723	fragmental andesite with quartz stockwork	<2.0	0.11	0.001

ROK Property

A P P E N D I X I I

Record of Mineral Claim

A P P E N D I X I I I

Magnetometer Specifications

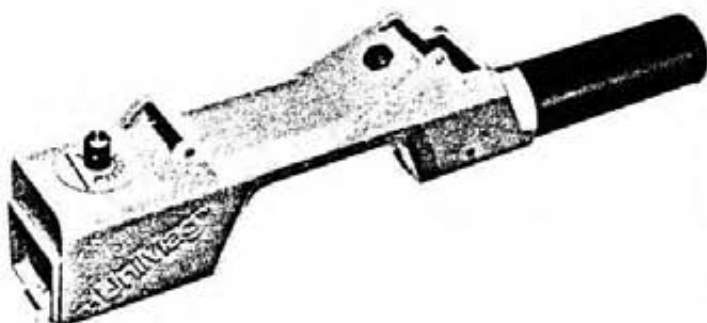
PORTABLE MAGNETOMETERS

PORTABLE PROTON MAGNETOMETER Model G-816



This unique man-carry field magnetometer provides absolute 1.0 gamma measurement of the earth's total field intensity from a single push button control. The Model G-816 Portable Proton Magnetometer does not require leveling, calibration or temperature compensation and is suited for man-carry mineral and petroleum exploration, magnetic mapping, archeological exploration and search applications. Each measurement is displayed on a 5-digit illuminated readout directly in gammas. The sensor mounts on a collapsible 8 ft. (2.5 m) aluminum staff or in a backpack when "hands-free" operation is important. Disposable carbon zinc "D" cell batteries allow up to 10,000 readings per set. Increased sensitivity to 0.25 gamma is optional. The G-816 comes complete including sensor, staff, signal cables, shoulder harness, spare batteries, operator's manual, 64-page "Applications Manual for Portable Magnetometers" and reusable field suitcase.

UNIMAG™ FIELD PROTON MAGNETOMETER Model G-836



UniMag™ Field Proton Magnetometer Model G-836 is a completely self-contained proton magnetometer for mineral exploration, geological mapping, engineering geology, research, and general follow-up of aeromagnetic reconnaissance surveys. UniMag Magnetometer features high gradient tolerance and rechargeable batteries within a single compact hand-held console. Requiring no staff, separate sensor or external cable, the UniMag Magnetometer provides absolute accuracy, 10 gamma resolution, field reliability, single push button control, and uncomplicated operation.

UniMag comes complete with batteries and sensor, adjustable shoulder strap, spare batteries, battery charger, operator's manual, 64-page "Applications Manual for Portable Magnetometers" and field attache case for storage.

RECORDING BASE STATION PROTON MAGNETOMETER Model G-826A



The Model G-826A Portable/Base Station Proton Magnetometer is compact, versatile and rugged, and may be used interchangeably for fixed station diurnal monitoring or portable man-carry applications. The G-826A system provides absolute accuracy, 1.0 gamma sensitivity (0.25 gamma sensitivity is optionally available), drift-free measurements, worldwide operation and complete freedom from calibration and orientation errors. Operation is from external 115/220 V, 50/60 Hz ac or 24 Vdc power (base station) or internal "D" cell flashlight batteries (portable). Data outputs include a 5-digit visual readout, 5 BCD data characters, and a single analog channel. The complete G-826A system includes a portable magnetometer with all man-carry accessories, converter/timer console, two high-gain sensors (one for the base station and one for the portable system), low noise 150 ft. (45 m) signal cable, analog recorder, operator's manual, 64-page "Applications Manual for Portable Magnetometers" and weather-proof cabinet.

MARINE SEARCH AND BASE STATION MAGNETOMETER Model G-806M



The G-806M Magnetometer System is a field-proven cost-effective and versatile tool for marine search/salvage, geophysical survey or fixed base station applications. Using the principle of nuclear precession, the G-806M provides absolute and drift-free measurements of the earth's total magnetic field directly in gammas. The marine system allows precise measurement and display of all earth's field changes caused by local magnetic objects or more distant geologic formations and the base station system allows accurate measurement and display of diurnal variations and magnetic storm activity.

Operation is worldwide with complete freedom from calibration and orientation errors. The G-806M electronics and a dual channel analog recorder are contained in a compact, rugged, waterproof case with marine tow system for use in any vessel up to 60 ft. (18 m) in length or base station sensor and cable.

A P P E N D I X I V

Assay Results

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PAGE: 1 OF 2

COPY: 1 OF 2

PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	FIRE ASSAY	FIRE ASSAY	CU %
	AU PPB	AG PPM	
110701	3.0	0.03	0.004
110702	5.0	0.21	0.001
110703	2.0	1.17	0.002
110704	<2.0	0.13	0.015
110705	32.0	0.17	0.068
110706	<2.0	0.29	0.001
110707	5.0	0.38	0.004
110708	9.0	0.09	0.007
110709	2.0	0.07	0.015
110710	28.0	0.22	0.011
110711	800.0	3.13	1.22
110712	44.0	15.6	1.9
110713	<2.0	0.81	0.015
110714	144.0	0.91	0.61
110715	2.0	0.15	0.008
110716	32.0	1.75	0.026
110717	46.0	8.1	0.21
110718	2.0	0.03	0.003
110719	130.0	0.44	0.005
110720	4.0	0.1	0.007
110721	2.0	0.28	0.001
110722	<2.0	0.07	0.003
110723	<2.0	0.11	0.001

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GEOCHEMICAL LABORATORY REPORT

SIGNED: _____


C. Douglas Read,
LABORATORY MANAGER

BARRINGER
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*** FINAL REPORT ***

FOOTNOTES:

P=QUESTIONABLE PRECISION; * = INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

ROK Property

A P P E N D I X V

Soil Geochemical Results

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
11620E: 9200 -N	7.0
11620E: 9220 -N	13.0
11620E: 9240 -N	2.0
11620E: 9260 -N	7.0
11620E: 9280 -N	6.0
11620E: 9300 -N	7.0
11620E: 9320 -N	2.0
11620E: 9340 -N	4.0
11620E: 9360 -N	12.0
11620E: 9380 -N	5.0
11620E: 9400 -N	4.0
11620E: 9420 -N	5.0
11620E: 9440 -N	8.0
11620E: 9460 -N	4.0
11620E: 9480 -N	3.0
11620E: 9500 -N	5.0
11620E: 9520 -N	3.0
11620E: 9540 -N	3.0
11620E: 9560 -N	7.0
11620E: 9580 -N	12.0
11620E: 9600 -N	3.0
11620E: 9620 -N	2.0
11620E: 10320 -N	<2.0 -
11620E: 10340 -N	3.0
11620E: 10360 -N	4.0
11620E: 10380 -N	3.0
11620E: 10400 -N	4.0
11620E: 10420 -N	3.0
11620E: 10440 -N	8.0
11620E: 10460 -N	3.0

11560
60
11620

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GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

AU

PPB

SAMPLE NUMBER		FIRE ASSAY AU PPB
11620E:	10480 -N	6.0
11620E:	10500 -N	8.0
11620E:	10520 -N	3.0
11620E:	10540 -N	2.0
11620E:	10560 -N	3.0
11620E:	10580 -N	7.0
11620E:	10600 -N	4.0
11620E:	10620 -N	2.0
11620E:	10640 -N	2.0
11620E:	10660 -N	<2.0
11620E:	10680 -N	3.0
11620E:	10700 -N	MS
11620E:	10720 -N	2.0
11620E:	10740 -N	<2.0
11620E:	10760 -N	<2.0
11620E:	10780 -N	12.0
11620E:	10800 -N	3.0
10660E:	9000 -N	2.0-
10660E:	9020 -N	2.0
10660E:	9040 -N	4.0
10660E:	9060 -N	3.0
10660E:	9080 -N	2.0
10660E:	9100 -N	3.0
10660E:	9120 -N	2.0
10660E:	9140 -N	2.0
10660E:	9160 -N	2.0
10660E:	9180 -N	<2.0
10660E:	9200 -N	<2.0
10660E:	9220 -N	2.0
10660E:	9240 -N	6.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

S A M P L E N U M B E R	A U	
		PPB
10660E:	9260 -N	5.0
10660E:	9280 -N	3.0
10660E:	9300 -N	6.0
10660E:	9320 -N	4.0
10660E:	9340 -N	3.0
10660E:	9360 -N	2.0
10660E:	9380 -N	4.0
10660E:	9400 -N	4.0
10660E:	9600 -N	8.0 -
10660E:	9620 -N	2.0
10660E:	9640 -N	6.0
10660E:	9660 -N	8.0
10660E:	9680 -N	6.0
10660E:	9700 -N	7.0
10660E:	9720 -N	6.0
10660E:	9740 -N	4.0
10660E:	9760 -N	5.0
10660E:	9780 -N	2.0
10660E:	9800 -N	3.0
10660E:	9820 -N	6.0
10660E:	9840 -N	11.0
10660E:	9860 -N	8.0
10660E:	9880 -N	12.0
10660E:	9900 -N	12.0
10660E:	9920 -N	11.0
10660E:	9940 -N	12.0
10660E:	9960 -N	15.0
10660E:	9980 -N	4.0
10660E:	10000 -N	2.0
10660E:	10020 -N	2.0

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	FIRE ASSAY	
	AU	PPB
10660E:	10040 -N	2.0
10660E:	10060 -N	4.0
10660E:	10080 -N	4.0
10660E:	10100 -N	5.0
10660E:	10120 -N	4.0
10660E:	10140 -N	2.0 -
11560E:	9200 -N	3.0
11560E:	9220 -N	10.0
11560E:	9240 -N	2.0
11560E:	9260 -N	6.0
11560E:	9280 -N	5.0
11560E:	9320 -N	3.0
11560E:	9340 -N	2.0
11560E:	9360 -N	2.0
11560E:	9380 -N	2.0
11560E:	9400 -N	4.0
11560E:	9420 -N	3.0
11560E:	9440 -N	3.0
11560E:	9460 -N	2.0
11560E:	9480 -N	4.0
11560E:	9500 -N	2.0
11560E:	9520 -N	3.0
11560E:	9540 -N	3.0
11560E:	9560 -N	6.0
11560E:	9580 -N	5.0
11560E:	9600 -N	3.0
11560E:	10300 -N	4.0
11560E:	10320 -N	2.0
11560E:	10340 -N	5.0
11560E:	10360 -N	4.0

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WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
11560E: 10380 -N	3.0
11560E: 10400 -N	6.0
11560E: 10420 -N	8.0
11560E: 10440 -N	5.0
11560E: 10460 -N	2.0
11560E: 10480 -N	6.0
11560E: 10500 -N	2.0
11560E: 10520 -N	3.0
11560E: 10540 -N	2.0
11560E: 10560 -N	3.0
11560E: 10580 -N	5.0
11560E: 10600 -N	3.0
11560E: 10620 -N	<2.0
11560E: 10640 -N	11.0
11560E: 10660 -N	<2.0
11560E: 10700 -N	2.0
11560E: 10720 -N	5.0
11560E: 10740 -N	3.0
11560E: 10760 -N	4.0
11560E: 10780 -N	3.0
10360E: 9600 -N	2.0
10360E: 9620 -N	3.0
10360E: 9640 -N	2.0
10360E: 9660 -N	3.0
10360E: 9680 -N	2.0
10360E: 9700 -N	4.0
10360E: 9720 -N	2.0
10360E: 9740 -N	5.0
10360E: 9760 -N	<2.0
10360E: 9780 -N	2.0

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
10360E: 9800 -N	11.0
10360E: 9820 -N	3.0
10360E: 9840 -N	3.0
10360E: 9860 -N	2.0
10360E: 9880 -N	3.0
10360E: 9900 -N	7.0
10360E: 9920 -N	4.0
10360E: 9940 -N	3.0
10360E: 9960 -N	3.0
10360E: 9980 -N	4.0
10360E: 10000 -N	6.0 [#]
11440E: 9200 -N	3.0
11440E: 9220 -N	3.0
11440E: 9240 -N	3.0
11440E: 9260 -N	2.0
11440E: 9280 -N	<2.0
11440E: 9300 -N	9.0
11440E: 9320 -N	5.0
11440E: 9340 -N	3.0
11440E: 9360 -N	2.0
11440E: 9380 -N	3.0
11440E: 9400 -N	3.0
11440E: 9420 -N	2.0
11440E: 9460 -N	6.0
11440E: 9480 -N	3.0
11440E: 9500 -N	3.0
11440E: 9520 -N	2.0
11440E: 9540 -N	2.0
11440E: 9560 -N	3.0
11440E: 9580 -N	3.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
11440E: 9600 -N	2.0
11440E: 9620 -N	2.0
11440E: 9640 -N	9.0
11440E: 10440 -N	3.0
11440E: 10460 -N	5.0
11440E: 10500 -N	2.0
11440E: 10520 -N	3.0
11440E: 10540 -N	<2.0
11440E: 10560 -N	<2.0
11440E: 10580 -N	4.0
11440E: 10600 -N	<2.0
11440E: 10620 -N	<2.0
11440E: 10640 -N	MS
11440E: 10660 -N	6.0
11440E: 10700 -N	2.0
11140E: 10380 -N	3.0
11140E: 10400 -N	2.0
11140E: 10420 -N	<2.0
11140E: 10440 -N	2.0 - duplicate NIS location - diff sample to analyze
11140E: 10460 -N	2.0
11140E: 10480 -N	<2.0 - ?
11140E: 10500 -N	3.0 - cu - trace
11140E: 10520 -N	3.0 - "
11140E: 10540 -N	4.0 - "
11140E: 10560 -N	2.0 - "
11140E: 10620 -N	3.0 - "
11140E: 10640 -N	3.0 - "
11140E: 10640 -N	3.0 - "
11140E: 10660 -N	2.0 - "
11140E: 10680 -N	8.0 - "

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CALGARY, ALBERTA T2R 1B2

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
11140E: 10700 -N	5.0
10900E: 9000 -N	3.0
10900E: 9020 -N	8.0
10900E: 9040 -N	6.0
10900E: 9060 -N	3.0
10900E: 9080 -N	5.0
10900E: 9100 -N	6.0
10900E: 9120 -N	2.0
10900E: 9140 -N	3.0
10900E: 9160 -N	2.0
10900E: 9180 -N	2.0
10900E: 9200 -N	5.0
10900E: 9220 -N	14.0
10900E: 9240 -N	3.0
10900E: 9260 -N	2.0
10900E: 9280 -N	2.0
10900E: 9300 -N	<2.0
10900E: 9320 -N	<2.0
10900E: 9340 -N	2.0
10900E: 9360 -N	<2.0
10900E: 9380 -N	5.0
10900E: 9400 -N	2.0
10900E: 9600 -N	3.0
10900E: 9620 -N	5.0
10900E: 9640 -N	4.0
10900E: 9660 -N	2.0
10900E: 9680 -N	2.0
10900E: 9700 -N	2.0
10900E: 9720 -N	3.0
10900E: 9740 -N	4.0

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CALGARY, ALBERTA T2R 1B2

ATTN: R. ALLEN

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
10900E: 9760 -N	4.0
10900E: 9780 -N	<2.0
10900E: 9800 -N	5.0
10900E: 9820 -N	2.0
10900E: 9840 -N	2.0
10900E: 9860 -N	3.0
10900E: 9880 -N	<2.0
10900E: 9900 -N	4.0
10900E: 9920 -N	<2.0
10900E: 9940 -N	2.0
10900E: 9960 -N	2.0
10900E: 9980 -N	5.0
10900E: 10000 -N	4.0
10900E: 10020 -N	<2.0
10900E: 10040 -N	3.0
10900E: 10060 -N	2.0
10900E: 10080 -N	808.0
10900E: 10100 -N	274.0
10900E: 10120 -N	86.0
10900E: 10140 -N	8.0
10900E: 10160 -N	44.0
10900E: 10180 -N	13.0
10900E: 10200 -N	10.0
10900E: 10220 -N	8.0
10900E: 10240 -N	2.0
10900E: 10260 -N	6.0
10900E: 10280 -N	4.0
10600E: 9000 -N	3.0
10600E: 9020 -N	3.0
10600E: 9040 -N	4.0

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*** FINAL REPORT ***

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CALGARY, ALBERTA T2R 1B2

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GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
10600E: 9060 -N	4.0
10600E: 9080 -N	3.0
10600E: 9100 -N	3.0
10600E: 9120 -N	4.0
10600E: 9140 -N	5.0
10600E: 9160 -N	3.0
10600E: 9180 -N	3.0
10600E: 9200 -N	5.0
10600E: 9220 -N	4.0
10600E: 9240 -N	6.0
10600E: 9260 -N	2.0
10600E: 9280 -N	5.0
10600E: 9300 -N	5.0
10600E: 9320 -N	4.0
10600E: 9340 -N	5.0
10600E: 9360 -N	5.0
10600E: 9380 -N	4.0
10600E: 9400 -N	3.0
10600E: 9600 -N	5.0
10600E: 9620 -N	8.0
10600E: 9640 -N	3.0
10600E: 9660 -N	2.0
10600E: 9680 -N	3.0
10600E: 9700 -N	4.0
10600E: 9720 -N	2.0
10600E: 9740 -N	<2.0
10600E: 9760 -N	3.0
10600E: 9780 -N	4.0
10600E: 9800 -N	4.0
10600E: 9820 -N	2.0

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*** FINAL REPORT ***

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CALGARY, ALBERTA T2R 1B2

ATTN: R. ALLEN

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

AU
PPB

SAMPLE NUMBER	AU PPB
10600E: 9840 -N	2.0
10600E: 9860 -N	2.0
10600E: 9880 -N	12.0
10600E: 9900 -N	3.0
10600E: 9920 -N	4.0
10600E: 9940 -N	3.0
10600E: 9960 -N	3.0
10600E: 9980 -N	2.0
10600E: 10000 -N	2.0
10600E: 10000 -N	3.0
10600E: 10020 -N	7.0
10600E: 10040 -N	5.0
10600E: 10060 -N	6.0
10600E: 10080 -N	3.0
10600E: 10100 -N	5.0
10480E: 9600 -N	<2.0
10480E: 9620 -N	3.0
10480E: 9640 -N	2.0
10480E: 9660 -N	2.0
10480E: 9680 -N	3.0
10480E: 9700 -N	4.0
10480E: 9720 -N	3.0
10480E: 9740 -N	3.0
10480E: 9760 -N	4.0
10480E: 9780 -N	5.0
10480E: 9800 -N	5.0
10480E: 9820 -N	3.0
10480E: 9840 -N	10.0
10480E: 9860 -N	5.0
10480E: 9880 -N	8.0

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*** FINAL REPORT ***

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WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
10480E: 9900 -N	10.0
10480E: 9920 -N	8.0
10480E: 9940 -N	2.0
10480E: 9960 -N	8.0
10480E: 9980 -N	5.0
<hr/>	
10480E: 10000 -N	8.0
10840E: 9000 -N	3.0
10840E: 9020 -N	3.0
10840E: 9040 -N	2.0
10840E: 9060 -N	4.0
10840E: 9080 -N	3.0
10840E: 9100 -N	2.0
10840E: 9120 -N	3.0
10840E: 9140 -N	3.0
10840E: 9160 -N	4.0
10840E: 9180 -N	3.0
10840E: 9200 -N	2.0
10840E: 9220 -N	2.0
10840E: 9240 -N	3.0
10840E: 9260 -N	3.0
10840E: 9280 -N	3.0
10840E: 9300 -N	2.0
10840E: 9320 -N	6.0
10840E: 9340 -N	7.0
10840E: 9600 -N	3.0
10840E: 9620 -N	8.0
10840E: 9640 -N	6.0
10840E: 9660 -N	14.0
10840E: 9680 -N	5.0
10840E: 9700 -N	4.0

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GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
10840E: 9720 -N	3.0
10840E: 9740 -N	2.0
10840E: 9760 -N	4.0
10840E: 9780 -N	5.0
10840E: 9800 -N	2.0
10840E: 9820 -N	5.0
10840E: 9840 -N	3.0
10840E: 9860 -N	3.0
10840E: 9880 -N	3.0
10840E: 9900 -N	2.0
10840E: 9920 -N	3.0
10840E: 9940 -N	2.0
10840E: 9960 -N	8.0
10840E: 9980 -N	9.0
10840E: 10000 -N	5.0
10840E: 10020 -N	3.0
10840E: 10040 -N	4.0
10840E: 10060 -N	42.0
10840E: 10080 -N	24.0
10840E: 10100 -N	36.0
10840E: 10120 -N	30.0
10840E: 10140 -N	5.0
10840E: 10160 -N	4.0
10840E: 10180 -N	3.0
10840E: 10200 -N	5.0
10840E: 10220 -N	5.0
10540E: 9600 -N	4.0
10540E: 9620 -N	4.0
10540E: 9640 -N	4.0
10540E: 9660 -N	3.0

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*** FINAL REPORT ***

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WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY
AU
PPB

SAMPLE NUMBER		FIRE ASSAY AU PPB
10540E:	9680 -N	2.0
10540E:	9700 -N	5.0
10540E:	9740 -N	4.0
10540E:	9760 -N	6.0
10540E:	9780 -N	2.0
10540E:	9800 -N	3.0
10540E:	9820 -N	3.0
10540E:	9840 -N	7.0
10540E:	9860 -N	3.0
10540E:	9880 -N	54.0
10540E:	9900 -N	46.0
10540E:	9920 -N	6.0
10540E:	9940 -N	3.0
10540E:	9960 -N	2.0
10540E:	9980 -N	3.0
10540E:	10000 -N	<2.0
10540E:	10020 -N	4.0
10540E:	10040 -N	3.0
10420E:	9600 -N	3.0
10420E:	9620 -N	3.0
10420E:	9640 -N	2.0
10420E:	9660 -N	2.0
10420E:	9680 -N	5.0
10420E:	9700 -N	5.0
10420E:	9720 -N	8.0
10420E:	9740 -N	3.0
10420E:	9760 -N	4.0
10420E:	9780 -N	4.0
10420E:	9800 -N	4.0
10420E:	9820 -N	2.0

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WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
10420E: 9840 -N	3.0
10420E: 9860 -N	3.0
10420E: 9880 -N	7.0
10420E: 9900 -N	10.0
10420E: 9920 -N	4.0
10420E: 9940 -N	5.0
10420E: 9960 -N	7.0
10420E: 9980 -N	4.0
10420E: 10000 -N	3.0 -
11800E: 10600 -N	3.0
11800E: 10620 -N	6.0
11800E: 10640 -N	<2.0
11800E: 10660 -N	3.0
11800E: 10680 -N	3.0
11800E: 10700 -N	3.0
11800E: 10720 -N	4.0
11800E: 10740 -N	2.0
11800E: 10760 -N	3.0
11800E: 10780 -N	2.0
11800E: 10800 -N	3.0
11800E: 10820 -N	2.0
11800E: 10840 -N	5.0
11800E: 10860 -N	4.0
11800E: 10880 -N	4.0
11800E: 10900 -N	2.0
11800E: 10920 -N	3.0
11800E: 10940 -N	4.0
11800E: 10960 -N	4.0
10780E: 9000 -N	2.0 -
10780E: 9020 -N	2.0 -

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	FIRE ASSAY	
	AU	PPB
10780E:	9040 -N	3.0
10780E:	9060 -N	3.0
10780E:	9080 -N	2.0
10780E:	9100 -N	4.0
10780E:	9120 -N	4.0
10780E:	9140 -N	2.0
10780E:	9160 -N	3.0
10780E:	9180 -N	4.0
10780E:	9200 -N	2.0
10780E:	9220 -N	2.0
10780E:	9240 -N	4.0
10780E:	9260 -N	3.0
10780E:	9280 -N	2.0
10780E:	9300 -N	2.0
10780E:	9320 -N	2.0
10780E:	9340 -N	4.0
10780E:	9360 -N	3.0
10780E:	9380 -N	2.0
10780E:	9400 -N	2.0
10780E:	9600 -N	3.0
10780E:	9620 -N	2.0
10780E:	9640 -N	4.0
10780E:	9660 -N	6.0
10780E:	9680 -N	5.0
10780E:	9700 -N	4.0
10780E:	9720 -N	9.0
10780E:	9740 -N	4.0
10780E:	9760 -N	2.0
10780E:	9780 -N	9.0
10780E:	9800 -N	7.0

BARRINGER MAGENTA
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CALGARY, ALBERTA T2R 1B2

ATTN: R. ALLEN

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY
AU
PPB

10780E:	9820 -N	8.0
10780E:	9840 -N	9.0
10780E:	9860 -N	10.0
10780E:	9880 -N	32.0
10780E:	9900 -N	48.0
10780E:	9920 -N	47.0
10780E:	9940 -N	42.0
10780E:	9960 -N	13.0
10780E:	9980 -N	3.0
10780E:	10000 -N	3.0
10780E:	10020 -N	4.0
10780E:	10040 -N	5.0
10780E:	10060 -N	4.0
10780E:	10080 -N	2.0
10780E:	10100 -N	5.0
10780E:	10120 -N	8.0
10780E:	10140 -N	5.0
10780E:	10160 -N	4.0
10780E:	10180 -N	3.0
10780E:	10200 -N	5.0
11260E:	9200 -N	2.0
11260E:	9220 -N	3.0
11260E:	9240 -N	3.0
11260E:	9260 -N	4.0
11260E:	9280 -N	3.0
11260E:	9300 -N	4.0
11260E:	9320 -N	4.0
11260E:	9340 -N	6.0
11260E:	9360 -N	7.0
11260E:	9380 -N	4.0

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*** FINAL REPORT ***

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4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E 6K3
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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	F I R E A S S A Y	
	A U	PPB
11260E:	9400 -N	7.0
11260E:	9420 -N	7.0
11260E:	9440 -N	4.0
11260E:	9460 -N	3.0
11260E:	9480 -N	4.0
11260E:	9500 -N	5.0
11260E:	9520 -N	3.0
11260E:	9540 -N	8.0
11260E:	9560 -N	7.0
11260E:	9580 -N	2.0
11260E:	9600 -N	<2.0
11260E:	9620 -N	3.0
11260E:	10300 -N	<2.0
11260E:	10320 -N	<2.0
11260E:	10340 -N	2.0
11260E:	10360 -N	<2.0
11260E:	10380 -N	<2.0
11260E:	10400 -N	<2.0
11260E:	10420 -N	<2.0
11260E:	10440 -N	<2.0
11260E:	10460 -N	2.0
11260E:	10480 -N	<2.0
11260E:	10500 -N	2.0
11260E:	10520 -N	<2.0
11260E:	10540 -N	MS
11260E:	10560 -N	MS
11260E:	10580 -N	3.0
11260E:	10600 -N	4.0
11260E:	10620 -N	2.0
11260E:	10640 -N	<2.0

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PHONE: (403) 920-4500

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
11260E: 10660 -N	<2.0
11260E: 10680 -N	<2.0
11260E: 10700 -N	4.0 ✓
11080E: 10260 -N	15.0
11080E: 10280 -N	93.0
11080E: 10300 -N	5.0
11080E: 10320 -N	2.0
11080E: 10340 -N	2.0
11080E: 10360 -N	2.0
11080E: 10380 -N	2.0
11080E: 10400 -N	<2.0
11080E: 10420 -N	<2.0
11080E: 10440 -N	<2.0
11080E: 10640 -N	3.0 ✓
11080E: 10660 -N	<2.0
11080E: 10680 -N	2.0
11080E: 10700 -N	<2.0 ✓
10720E: 9000 -N	2.0
10720E: 9020 -N	<2.0
10720E: 9040 -N	<2.0
10720E: 9060 -N	2.0
10720E: 9080 -N	<2.0
10720E: 9100 -N	2.0
10720E: 9120 -N	3.0
10720E: 9140 -N	15.0
10720E: 9160 -N	2.0
10720E: 9180 -N	<2.0
10720E: 9200 -N	<2.0
10720E: 9220 -N	<2.0
10720E: 9240 -N	3.0

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AUTHORITY: D. DUPRE

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R		FIRE ASSAY
		AU PPB
10720E:	9260 -N	<2.0
10720E:	9280 -N	2.0
10720E:	9300 -N	2.0
10720E:	9320 -N	3.0
10720E:	9340 -N	<2.0
10720E:	9360 -N	<2.0
10720E:	9380 -N	<2.0
10720E:	9400 -N	<2.0
10720E:	9600 -N	3.0
10720E:	9620 -N	2.0
10720E:	9640 -N	4.0
10720E:	9660 -N	3.0
10720E:	9680 -N	2.0
10720E:	9700 -N	<2.0
10720E:	9720 -N	2.0
10720E:	9740 -N	<2.0
10720E:	9760 -N	5.0
10720E:	9780 -N	5.0
10720E:	9800 -N	2.0
10720E:	9820 -N	2.0
10720E:	9840 -N	<2.0
10720E:	9860 -N	4.0
10720E:	9880 -N	4.0
10720E:	9900 -N	3.0
10720E:	9920 -N	2.0
10720E:	9940 -N	<2.0
10720E:	9960 -N	2.0
10720E:	9980 -N	<2.0
10720E:	10000 -N	<2.0
10720E:	10020 -N	2.0

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R			FIRE ASSAY
			AU PPB
10720E:	10040	-N	<2.0
10720E:	10060	-N	<2.0
10720E:	10080	-N	2.0
10720E:	10100	-N	<2.0
10720E:	10120	-N	<2.0
10720E:	10140	-N	3.0
10720E:	10160	-N	<2.0
10720E:	10180	-N	<2.0
11920E:	10620	-N	<2.0
11920E:	10640	-N	2.0
11920E:	10660	-N	3.0
11920E:	10680	-N	<2.0
11920E:	10700	-N	<2.0
11920E:	10720	-N	<2.0
11920E:	10740	-N	<2.0
11920E:	10760	-N	<2.0
11920E:	10780	-N	3.0
11920E:	10800	-N	<2.0
11920E:	10820	-N	2.0
11920E:	10840	-N	2.0
11920E:	10860	-N	<2.0
11920E:	10880	-N	<2.0
11920E:	10900	-N	<2.0
11920E:	10920	-N	<2.0
11920E:	10940	-N	<2.0
11920E:	10960	-N	3.0
11920E:	10980	-N	4.0
11920E:	11000	-N	6.0
11920E:	11020	-N	3.0
11500E:	9200	-N	2.0

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GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU PPB
11500E: 9220 -N	<2.0
11500E: 9240 -N	<2.0
11500E: 9260 -N	4.0
11500E: 9280 -N	3.0
11500E: 9300 -N	4.0
11500E: 9320 -N	2.0
11500E: 9340 -N	<2.0
11500E: 9360 -N	6.0
11500E: 9380 -N	3.0
11500E: 9400 -N	2.0
11500E: 9420 -N	<2.0
11500E: 9440 -N	<2.0
11500E: 9460 -N	3.0
11500E: 9480 -N	2.0
11500E: 9500 -N	<2.0
11500E: 9520 -N	12.0
11500E: 9540 -N	3.0
11500E: 9560 -N	4.0
11500E: 9580 -N	2.0
11500E: 9600 -N	<2.0
11500E: 9620 -N	3.0
11500E: 9640 -N	<2.0
11500E: 10240 -N	2.0
11500E: 10320 -N	<2.0
11500E: 10340 -N	3.0
11500E: 10360 -N	<2.0
11500E: 10380 -N	2.0
11500E: 10400 -N	<2.0
11500E: 10420 -N	<2.0
11500E: 10440 -N	<2.0

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*** FINAL REPORT ***

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	FIRE ASSAY	
	AU	PPB
11500E:	10460 -N	<2.0
11500E:	10480 -N	3.0
11500E:	10520 -N	2.0
11500E:	10540 -N	6.0
11500E:	10560 -N	3.0
11500E:	10580 -N	10.0
11500E:	10600 -N	2.0
11500E:	10620 -N	<2.0
11500E:	10640 -N	3.0
11500E:	10680 -N	<2.0
11500E:	10700 -N	2.0
11500E:	10720 -N	<2.0
11320E:	9200 -N	4.0
11320E:	9220 -N	3.0
11320E:	9240 -N	3.0
11320E:	9260 -N	5.0
11320E:	9280 -N	<2.0
11320E:	9300 -N	7.0
11320E:	9320 -N	<2.0
11320E:	9340 -N	<2.0
11320E:	9360 -N	<2.0
11320E:	9380 -N	<2.0
11320E:	9400 -N	<2.0
11320E:	9420 -N	3.0
11320E:	9440 -N	2.0
11320E:	9460 -N	2.0
11320E:	9480 -N	<2.0
11320E:	9500 -N	<2.0
11320E:	9520 -N	<2.0
11320E:	9540 -N	2.0

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PROJECT: K-8C-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	FIRE ASSAY	
	AU	PPB
11320E: 9560 -N		<2.0
11320E: 9580 -N		3.0
11320E: 9600 -N		3.0
11320E: 9620 -N		<2.0
11320E: 9640 -N		<2.0
11320E: 10380 -N		2.0
11320E: 10400 -N		<2.0
11320E: 10420 -N		3.0
11320E: 10440 -N		<2.0
11320E: 10460 -N		2.0
11320E: 10480 -N		2.0
11320E: 10500 -N		<2.0
11320E: 10520 -N		<2.0
11320E: 10540 -N		<2.0
11320E: 10560 -N		<2.0
11320E: 10580 -N		<2.0
11320E: 10600 -N		3.0
11320E: 10620 -N		3.0
11320E: 10640 -N		<2.0
11320E: 10660 -N		MS
11320E: 10680 -N		2.0
11320E: 10700 -N		<2.0
11380E: 9200 -N		<2.0
11380E: 9220 -N		3.0
11380E: 9240 -N		2.0
11380E: 9260 -N		4.0
11380E: 9280 -N		3.0
11380E: 9300 -N		6.0
11380E: 9320 -N		2.0
11380E: 9340 -N		<2.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	FIRE ASSAY	
	AU	PPB
11380E:	9360 -N	2.0
11380E:	9380 -N	10.0
11380E:	9400 -N	2.0
11380E:	9420 -N	<2.0
11380E:	9440 -N	<2.0
11380E:	9460 -N	<2.0
11380E:	9480 -N	2.0
11380E:	9500 -N	<2.0
11380E:	9520 -N	2.0
11380E:	9540 -N	<2.0
11380E:	9560 -N	3.0
11380E:	9580 -N	<2.0
11380E:	9600 -N	<2.0
11380E:	9620 -N	3.0
11380E:	10360 -N	<2.0
11380E:	10380 -N	2.0
11380E:	10400 -N	2.0
11380E:	10420 -N	2.0
11380E:	10440 -N	<2.0
11380E:	10460 -N	<2.0
11380E:	10480 -N	<2.0
11380E:	10500 -N	<2.0
11380E:	10520 -N	2.0
11380E:	10540 -N	<2.0
11380E:	10560 -N	3.0
11380E:	10580 -N	2.0
11380E:	10600 -N	<2.0
11380E:	10620 -N	<2.0
11380E:	10640 -N	<2.0
11380E:	10660 -N	<2.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	F I R E A S S A Y	
	A U	P P B
11380E:	10680 -N	<2.0
11380E:	10700 -N	2.0
10960E:	10180 -N	3.0
10960E:	10200 -N	3.0
10960E:	10220 -N	<2.0
10960E:	10240 -N	<2.0
10960E:	10260 -N	2.0
10960E:	10280 -N	<2.0
10960E:	10300 -N	<2.0
10960E:	10320 -N	<2.0
10960E:	10340 -N	3.0
10960E:	10360 -N	<2.0
10960E:	10380 -N	<2.0
10960E:	10400 -N	5.0
10960E:	10420 -N	<2.0
10960E:	10440 -N	<2.0
10960E:	10460 -N	<2.0
10960E:	10480 -N	3.0
10960E:	10500 -N	2.0
10960E:	10520 -N	2.0
10960E:	10540 -N	2.0
10960E:	10560 -N	<2.0
10960E:	10580 -N	<2.0
10960E:	10600 -N	2.0
10960E:	10620 -N	<2.0
10960E:	10640 -N	<2.0
10960E:	10660 -N	2.0
10960E:	10680 -N	3.0
10960E:	10700 -N	<2.0
11200E:	10140 -N	117.0

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GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

FIRE ASSAY

SAMPLE NUMBER	AU FPB
11200E: 10160 -N	3.0
11200E: 10180 -N	2.0
11200E: 10200 -N	<2.0
11200E: 10220 -N	10.0
11200E: 10240 -N	2.0
11200E: 10260 -N	2.0
11200E: 10280 -N	2.0
11200E: 10300 -N	2.0
11200E: 10320 -N	2.0
11200E: 10340 -N	3.0
11200E: 10360 -N	2.0
11200E: 10380 -N	<2.0
11200E: 10400 -N	<2.0
11200E: 10420 -N	2.0
11200E: 10440 -N	2.0
11200E: 10460 -N	2.0
11200E: 10480 -N	3.0
11200E: 10500 -N	<2.0
11200E: 10520 -N	3.0
11200E: 10540 -N	<2.0
11200E: 10560 -N	4.0
11200E: 10580 -N	<2.0
11200E: 10600 -N	3.0
11200E: 10620 -N	3.0
11200E: 10640 -N	3.0
11200E: 10660 -N	<2.0
11200E: 10680 -N	2.0
11200E: 10700 -N	2.0
11740E: 10460 -N	5.0
11740E: 10480 -N	2.0

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*** FINAL REPORT ***

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	FIRE ASSAY	
	AU	PPB
11740E: 10500 -N		5.0
11740E: 10520 -N		6.0
11740E: 10540 -N		2.0
11740E: 10560 -N		3.0
11740E: 10580 -N		3.0
11740E: 10600 -N		5.0
11740E: 10620 -N		2.0
11740E: 10640 -N		2.0
11740E: 10660 -N		3.0
11740E: 10680 -N		2.0
11740E: 10700 -N		2.0
11740E: 10720 -N		3.0
11740E: 10740 -N		3.0
11740E: 10760 -N		2.0
11740E: 10780 -N		2.0
11740E: 10800 -N		<2.0
11740E: 10820 -N		<2.0
11740E: 10840 -N		3.0
11740E: 10860 -N		4.0
11020E: 10260 -N		10.0
11020E: 10280 -N		6.0
11020E: 10300 -N		2.0
11020E: 10320 -N		2.0
11020E: 10340 -N		2.0
11020E: 10360 -N		6.0
11020E: 10380 -N		2.0
11020E: 10400 -N		3.0
11020E: 10420 -N		5.0
11020E: 10440 -N		2.0
11020E: 10600 -N		3.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	FIRE ASSAY	
	AU	PPB
11020E: 10620 -N		5.0
11020E: 10640 -N		2.0
11020E: 10660 -N		<2.0
11020E: 10680 -N		3.0
11020E: 10700 -N		3.0
11680E: 10400 -N		2.0
11680E: 10420 -N		<2.0
11680E: 10440 -N		2.0
11680E: 10460 -N		<2.0
11680E: 10480 -N		3.0
11680E: 10500 -N		5.0
11680E: 10520 -N		3.0
11680E: 10540 -N		2.0
11680E: 10560 -N		10.0
11680E: 10580 -N		2.0
11680E: 10600 -N		2.0
11680E: 10620 -N		2.0
11680E: 10640 -N		2.0
11680E: 10660 -N		<2.0
11680E: 10680 -N		3.0
11680E: 10700 -N		3.0
11680E: 10720 -N		MS
11680E: 10740 -N		MS
11680E: 10760 -N		2.0
11680E: 10780 -N		2.0
11680E: 10800 -N		2.0
11680E: 10820 -N		<2.0
11680E: 10840 -N		<2.0
11680E: 10860 -N		2.0
10300E: 9600 -N		2.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	FIRE ASSAY	
	AU	PPB
10300E: 9620 -N		2.0
10300E: 9640 -N		4.0
10300E: 9660 -N		2.0
10300E: 9680 -N		<2.0
10300E: 9700 -N		3.0
10300E: 9720 -N		6.0
10300E: 9740 -N		2.0
10300E: 9760 -N		3.0
10300E: 9780 -N		<2.0
10300E: 9800 -N		2.0
10300E: 9820 -N		2.0
10300E: 9840 -N		<2.0
10300E: 9860 -N		4.0
10300E: 9880 -N		2.0
10300E: 9900 -N		4.0
10300E: 9920 -N		15.0
10300E: 9940 -N		2.0
10300E: 9960 -N		6.0
10300E: 9980 -N		5.0
10300E: 10000 -N		2.0
11860E: 10600 -N		5.0
11860E: 10620 -N		8.0
11860E: 10640 -N		2.0
11860E: 10660 -N		<2.0
11860E: 10680 -N		<2.0
11860E: 10700 -N		3.0
11860E: 10720 -N		2.0
11860E: 10740 -N		2.0
11860E: 10760 -N		2.0
11860E: 10780 -N		3.0

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

S A M P L E N U M B E R	F I R E A S S A Y	
	A U	P P B
11860E: 10800 -N	2.0	
11860E: 10820 -N	3.0	
11860E: 10880 -N	<2.0	
11860E: 10900 -N	2.0	
11860E: 10920 -N	3.0	
11860E: 10940 -N	3.0	
11860E: 10960 -N	2.0	
11860E: 10980 -N	4.0	
11260E: 9640 -N	3.0	
11320E: 10720 -N	3.0	
11740E: 10880 -N	<2.0	

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11620E: 9200 -N	72.0
11620E: 9220 -N	86.0
11620E: 9240 -N	73.0
11620E: 9260 -N	177.0
11620E: 9280 -N	190.0
11620E: 9300 -N	79.0
11620E: 9320 -N	62.0
11620E: 9340 -N	153.0
11620E: 9360 -N	155.0
11620E: 9380 -N	50.0
11620E: 9400 -N	54.0
11620E: 9420 -N	58.0
11620E: 9440 -N	97.0
11620E: 9460 -N	71.0
11620E: 9480 -N	50.0
11620E: 9500 -N	32.0
11620E: 9520 -N	53.0
11620E: 9540 -N	37.0
11620E: 9560 -N	96.0
11620E: 9580 -N	53.0
11620E: 9600 -N	49.0
11620E: 9620 -N	72.0
11620E: 10320 -N	66.0
11620E: 10340 -N	90.0
11620E: 10360 -N	78.0
11620E: 10380 -N	69.0
11620E: 10400 -N	70.0
11620E: 10420 -N	47.0
11620E: 10440 -N	100.0
11620E: 10460 -N	49.0

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GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11620E: 10480 -N	63.0
11620E: 10500 -N	76.0
11620E: 10520 -N	50.0
11620E: 10540 -N	78.0
11620E: 10560 -N	79.0
11620E: 10580 -N	61.0
11620E: 10600 -N	60.0
11620E: 10620 -N	37.0
11620E: 10640 -N	59.0
11620E: 10660 -N	31.0
11620E: 10680 -N	40.0
11620E: 10700 -N	MS
11620E: 10720 -N	65.0
11620E: 10740 -N	68.0
11620E: 10760 -N	45.0
11620E: 10780 -N	30.0
11620E: 10800 -N	103.0
10660E: 9000 -N	26.0
10660E: 9020 -N	28.0
10660E: 9040 -N	16.0
10660E: 9060 -N	21.0
10660E: 9080 -N	32.0
10660E: 9100 -N	28.0
10660E: 9120 -N	37.0
10660E: 9140 -N	19.0
10660E: 9160 -N	18.0
10660E: 9180 -N	19.0
10660E: 9200 -N	25.0
10660E: 9220 -N	22.0
10660E: 9240 -N	23.0

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WORK ORDER: 42880-87

*** FINAL REPORT ***

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PROJECT: K-8C-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
10660E:	9260 -N	25.0
10660E:	9280 -N	33.0
10660E:	9300 -N	48.0
10660E:	9320 -N	42.0
10660E:	9340 -N	22.0
10660E:	9360 -N	20.0
10660E:	9380 -N	31.0
10660E:	9400 -N	23.0
10660E:	9600 -N	109.0
10660E:	9620 -N	72.0
10660E:	9640 -N	98.0
10660E:	9660 -N	101.0
10660E:	9680 -N	100.0
10660E:	9700 -N	202.0
10660E:	9720 -N	178.0
10660E:	9740 -N	76.0
10660E:	9760 -N	361.0
10660E:	9780 -N	62.0
10660E:	9800 -N	53.0
10660E:	9820 -N	98.0
10660E:	9840 -N	360.0
10660E:	9860 -N	1030.0
10660E:	9880 -N	360.0
10660E:	9900 -N	420.0
10660E:	9920 -N	470.0
10660E:	9940 -N	475.0
10660E:	9960 -N	415.0
10660E:	9980 -N	100.0
10660E:	10000 -N	54.0
10660E:	10020 -N	95.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10660E: 10040 -N	33.0
10660E: 10060 -N	64.0
10660E: 10080 -N	73.0
10660E: 10100 -N	99.0
10660E: 10120 -N	120.0
10660E: 10140 -N	63.0
11560E: 9200 -N	87.0
11560E: 9220 -N	179.0
11560E: 9240 -N	55.0
11560E: 9260 -N	156.0
11560E: 9280 -N	64.0
11560E: 9320 -N	82.0
11560E: 9340 -N	84.0
11560E: 9360 -N	93.0
11560E: 9380 -N	154.0
11560E: 9400 -N	50.0
11560E: 9420 -N	139.0
11560E: 9440 -N	72.0
11560E: 9460 -N	92.0
11560E: 9480 -N	81.0
11560E: 9500 -N	72.0
11560E: 9520 -N	63.0
11560E: 9540 -N	73.0
11560E: 9560 -N	123.0
11560E: 9580 -N	116.0
11560E: 9600 -N	123.0
11560E: 10300 -N	101.0
11560E: 10320 -N	67.0
11560E: 10340 -N	79.0
11560E: 10360 -N	87.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11560E: 10380 -N	66.0
11560E: 10400 -N	56.0
11560E: 10420 -N	77.0
11560E: 10440 -N	58.0
11560E: 10460 -N	62.0
11560E: 10480 -N	108.0
11560E: 10500 -N	48.0
11560E: 10520 -N	55.0
11560E: 10540 -N	77.0
11560E: 10560 -N	136.0
11560E: 10580 -N	75.0
11560E: 10600 -N	74.0
11560E: 10620 -N	84.0
11560E: 10640 -N	47.0
11560E: 10660 -N	66.0
11560E: 10700 -N	53.0
11560E: 10720 -N	60.0
11560E: 10740 -N	54.0
11560E: 10760 -N	54.0
11560E: 10780 -N	44.0
10360E: 9600 -N	42.0
10360E: 9620 -N	122.0
10360E: 9640 -N	74.0
10360E: 9660 -N	63.0
10360E: 9680 -N	37.0
10360E: 9700 -N	57.0
10360E: 9720 -N	73.0
10360E: 9740 -N	65.0
10360E: 9760 -N	72.0
10360E: 9780 -N	60.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10360E: 9800 -N	60.0
10360E: 9820 -N	72.0
10360E: 9840 -N	90.0
10360E: 9860 -N	230.0
10360E: 9880 -N	137.0
10360E: 9900 -N	151.0
10360E: 9920 -N	192.0
10360E: 9940 -N	47.0
10360E: 9960 -N	306.0
10360E: 9980 -N	118.0
10360E: 10000 -N	231.0
11440E: 9200 -N	135.0
11440E: 9220 -N	107.0
11440E: 9240 -N	118.0
11440E: 9260 -N	116.0
11440E: 9280 -N	92.0
11440E: 9300 -N	115.0
11440E: 9320 -N	132.0
11440E: 9340 -N	111.0
11440E: 9360 -N	125.0
11440E: 9380 -N	123.0
11440E: 9400 -N	110.0
11440E: 9420 -N	92.0
11440E: 9460 -N	124.0
11440E: 9480 -N	168.0
11440E: 9500 -N	80.0
11440E: 9520 -N	42.0
11440E: 9540 -N	58.0
11440E: 9560 -N	83.0
11440E: 9580 -N	40.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11440E: 9600 -N	42.0
11440E: 9620 -N	39.0
11440E: 9640 -N	35.0
11440E: 10440 -N	104.0
11440E: 10460 -N	90.0
11440E: 10500 -N	33.0
11440E: 10520 -N	100.0
11440E: 10540 -N	61.0
11440E: 10560 -N	62.0
11440E: 10580 -N	68.0
11440E: 10600 -N	59.0
11440E: 10620 -N	57.0
11440E: 10640 -N	21.0
11440E: 10660 -N	57.0
11440E: 10700 -N	79.0
11140E: 10380 -N	40.0
11140E: 10400 -N	61.0
11140E: 10420 -N	40.0
11140E: 10440 -N	90.0
11140E: 10460 -N	27.0
11140E: 10480 -N	41.0
11140E: 10500 -N	36.0
11140E: 10520 -N	66.0
11140E: 10540 -N	78.0
11140E: 10560 -N	36.0
11140E: 10620 -N	50.0
11140E: 10640 -N	71.0
11140E: 10640 -N	66.0
11140E: 10660 -N	20.0
11140E: 10680 -N	182.0

? Same location

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11140E: 10700 -N	36.0
10900E: 9000 -N	45.0
10900E: 9020 -N	46.0
10900E: 9040 -N	33.0
10900E: 9060 -N	19.0
10900E: 9080 -N	11.0
10900E: 9100 -N	10.0
10900E: 9120 -N	8.0
10900E: 9140 -N	18.0
10900E: 9160 -N	26.0
10900E: 9180 -N	21.0
10900E: 9200 -N	19.0
10900E: 9220 -N	17.0
10900E: 9240 -N	35.0
10900E: 9260 -N	38.0
10900E: 9280 -N	60.0
10900E: 9300 -N	41.0
10900E: 9320 -N	57.0
10900E: 9340 -N	50.0
10900E: 9360 -N	50.0
10900E: 9380 -N	71.0
10900E: 9400 -N	61.0
10900E: 9600 -N	83.0
10900E: 9620 -N	100.0
10900E: 9640 -N	62.0
10900E: 9660 -N	46.0
10900E: 9680 -N	88.0
10900E: 9700 -N	66.0
10900E: 9720 -N	79.0
10900E: 9740 -N	95.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10900E: 9760 -N	158.0
10900E: 9780 -N	43.0
10900E: 9800 -N	200.0
10900E: 9820 -N	50.0
10900E: 9840 -N	93.0
10900E: 9860 -N	58.0
10900E: 9880 -N	74.0
10900E: 9900 -N	55.0
10900E: 9920 -N	98.0
10900E: 9940 -N	39.0
10900E: 9960 -N	44.0
10900E: 9980 -N	470.0
10900E: 10000 -N	207.0
10900E: 10020 -N	54.0
10900E: 10040 -N	24.0
10900E: 10060 -N	216.0
10900E: 10080 -N	280.0
10900E: 10100 -N	500.0
10900E: 10120 -N	455.0
10900E: 10140 -N	162.0
10900E: 10160 -N	108.0
10900E: 10180 -N	145.0
10900E: 10200 -N	72.0
10900E: 10220 -N	177.0
10900E: 10240 -N	61.0
10900E: 10260 -N	42.0
10900E: 10280 -N	107.0
10600E: 9000 -N	25.0
10600E: 9020 -N	17.0
10600E: 9040 -N	19.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10600E: 9060 -N	20.0
10600E: 9080 -N	18.0
10600E: 9100 -N	18.0
10600E: 9120 -N	21.0
10600E: 9140 -N	17.0
10600E: 9160 -N	14.0
10600E: 9180 -N	20.0
10600E: 9200 -N	18.0
10600E: 9220 -N	15.0
10600E: 9240 -N	16.0
10600E: 9260 -N	25.0
10600E: 9280 -N	20.0
10600E: 9300 -N	27.0
10600E: 9320 -N	54.0
10600E: 9340 -N	45.0
10600E: 9360 -N	29.0
10600E: 9380 -N	40.0
10600E: 9400 -N	51.0
10600E: 9600 -N	570.0
10600E: 9620 -N	242.0
10600E: 9640 -N	64.0
10600E: 9660 -N	29.0
10600E: 9680 -N	36.0
10600E: 9700 -N	83.0
10600E: 9720 -N	88.0
10600E: 9740 -N	57.0
10600E: 9760 -N	79.0
10600E: 9780 -N	84.0
10600E: 9800 -N	166.0
10600E: 9820 -N	54.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
10600E:	9840 -N	133.0
10600E:	9860 -N	171.0
10600E:	9880 -N	640.0
10600E:	9900 -N	420.0
10600E:	9920 -N	365.0
10600E:	9940 -N	265.0
10600E:	9960 -N	460.0
10600E:	9980 -N	82.0
10600E:	10000 -N	64.0
10600E:	10000 -N	66.0
10600E:	10020 -N	82.0
10600E:	10040 -N	1520.0
10600E:	10060 -N	106.0
10600E:	10080 -N	41.0
10600E:	10100 -N	27.0
10480E:	9600 -N	49.0
10480E:	9620 -N	82.0
10480E:	9640 -N	64.0
10480E:	9660 -N	90.0
10480E:	9680 -N	161.0
10480E:	9700 -N	73.0
10480E:	9720 -N	19.0
10480E:	9740 -N	61.0
10480E:	9760 -N	71.0
10480E:	9780 -N	96.0
10480E:	9800 -N	100.0
10480E:	9820 -N	85.0
10480E:	9840 -N	108.0
10480E:	9860 -N	104.0
10480E:	9880 -N	311.0

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PROJECT: K-BC-5

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10480E: 9900 -N	201.0
10480E: 9920 -N	66.0
10480E: 9940 -N	59.0
10480E: 9960 -N	540.0
10480E: 9980 -N	77.0
10480E: 10000 -N	93.0
10840E: 9000 -N	22.0
10840E: 9020 -N	23.0
10840E: 9040 -N	21.0
10840E: 9060 -N	20.0
10840E: 9080 -N	21.0
10840E: 9100 -N	16.0
10840E: 9120 -N	18.0
10840E: 9140 -N	36.0
10840E: 9160 -N	29.0
10840E: 9180 -N	33.0
10840E: 9200 -N	52.0
10840E: 9220 -N	18.0
10840E: 9240 -N	39.0
10840E: 9260 -N	50.0
10840E: 9280 -N	38.0
10840E: 9300 -N	37.0
10840E: 9320 -N	69.0
10840E: 9340 -N	49.0
10840E: 9600 -N	71.0
10840E: 9620 -N	101.0
10840E: 9640 -N	77.0
10840E: 9660 -N	98.0
10840E: 9680 -N	103.0
10840E: 9700 -N	84.0

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WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10840E: 9720 -N	92.0
10840E: 9740 -N	56.0
10840E: 9760 -N	155.0
10840E: 9780 -N	141.0
10840E: 9800 -N	358.0
10840E: 9820 -N	600.0
10840E: 9840 -N	375.0
10840E: 9860 -N	1450.0
10840E: 9880 -N	560.0
10840E: 9900 -N	63.0
10840E: 9920 -N	38.0
10840E: 9940 -N	52.0
10840E: 9960 -N	95.0
10840E: 9980 -N	128.0
10840E: 10000 -N	95.0
10840E: 10020 -N	115.0
10840E: 10040 -N	68.0
10840E: 10060 -N	57.0
10840E: 10080 -N	66.0
10840E: 10100 -N	111.0
10840E: 10120 -N	82.0
10840E: 10140 -N	51.0
10840E: 10160 -N	70.0
10840E: 10180 -N	75.0
10840E: 10200 -N	51.0
10840E: 10220 -N	42.0
10540E: 9600 -N	40.0
10540E: 9620 -N	76.0
10540E: 9640 -N	53.0
10540E: 9660 -N	25.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10540E: 9680 -N	48.0
10540E: 9700 -N	60.0
10540E: 9740 -N	101.0
10540E: 9760 -N	314.0
10540E: 9780 -N	107.0
10540E: 9800 -N	70.0
10540E: 9820 -N	125.0
10540E: 9840 -N	106.0
10540E: 9860 -N	143.0
10540E: 9880 -N	590.0
10540E: 9900 -N	970.0
10540E: 9920 -N	570.0
10540E: 9940 -N	153.0
10540E: 9960 -N	60.0
10540E: 9980 -N	92.0
10540E: 10000 -N	202.0
10540E: 10020 -N	57.0
10540E: 10040 -N	60.0
10420E: 9600 -N	61.0
10420E: 9620 -N	93.0
10420E: 9640 -N	56.0
10420E: 9660 -N	89.0
10420E: 9680 -N	30.0
10420E: 9700 -N	55.0
10420E: 9720 -N	48.0
10420E: 9740 -N	57.0
10420E: 9760 -N	85.0
10420E: 9780 -N	97.0
10420E: 9800 -N	62.0
10420E: 9820 -N	90.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
10420E:	9840 -N	104.0
10420E:	9860 -N	133.0
10420E:	9880 -N	460.0
10420E:	9900 -N	390.0
10420E:	9920 -N	196.0
10420E:	9940 -N	160.0
10420E:	9960 -N	201.0
10420E:	9980 -N	103.0
10420E:	10000 -N	64.0
11800E:	10600 -N	72.0
11800E:	10620 -N	100.0
11800E:	10640 -N	83.0
11800E:	10660 -N	65.0
11800E:	10680 -N	80.0
11800E:	10700 -N	96.0
11800E:	10720 -N	106.0
11800E:	10740 -N	83.0
11800E:	10760 -N	106.0
11800E:	10780 -N	25.0
11800E:	10800 -N	39.0
11800E:	10820 -N	68.0
11800E:	10840 -N	80.0
11800E:	10860 -N	112.0
11800E:	10880 -N	51.0
11800E:	10900 -N	44.0
11800E:	10920 -N	54.0
11800E:	10940 -N	30.0
11800E:	10960 -N	42.0 ← <i>checked to here</i>
10780E:	9000 -N	23.0
10780E:	9020 -N	18.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
10780E:	9040 -N	15.0
10780E:	9060 -N	15.0
10780E:	9080 -N	25.0
10780E:	9100 -N	20.0
10780E:	9120 -N	22.0
10780E:	9140 -N	24.0
10780E:	9160 -N	28.0
10780E:	9180 -N	35.0
10780E:	9200 -N	42.0
10780E:	9220 -N	48.0
10780E:	9240 -N	52.0
10780E:	9260 -N	57.0
10780E:	9280 -N	58.0
10780E:	9300 -N	43.0
10780E:	9320 -N	43.0
10780E:	9340 -N	30.0
10780E:	9360 -N	32.0
10780E:	9380 -N	28.0
10780E:	9400 -N	40.0
10780E:	9600 -N	101.0
10780E:	9620 -N	100.0
10780E:	9640 -N	105.0
10780E:	9660 -N	128.0
10780E:	9680 -N	125.0
10780E:	9700 -N	82.0
10780E:	9720 -N	282.0
10780E:	9740 -N	120.0
10780E:	9760 -N	55.0
10780E:	9780 -N	485.0
10780E:	9800 -N	2900.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10780E: 9820 -N	2300.0
10780E: 9840 -N	1500.0
10780E: 9860 -N	2200.0
10780E: 9880 -N	1000.0
10780E: 9900 -N	1700.0
10780E: 9920 -N	12600.0
10780E: 9940 -N	1000.0
10780E: 9960 -N	340.0
10780E: 9980 -N	139.0
10780E: 10000 -N	102.0
10780E: 10020 -N	97.0
10780E: 10040 -N	64.0
10780E: 10060 -N	60.0
10780E: 10080 -N	45.0
10780E: 10100 -N	56.0
10780E: 10120 -N	50.0
10780E: 10140 -N	49.0
10780E: 10160 -N	14.0
10780E: 10180 -N	45.0
10780E: 10200 -N	56.0
11260E: 9200 -N	92.0
11260E: 9220 -N	93.0
11260E: 9240 -N	79.0
11260E: 9260 -N	55.0
11260E: 9280 -N	88.0
11260E: 9300 -N	76.0
11260E: 9320 -N	41.0
11260E: 9340 -N	67.0
11260E: 9360 -N	123.0
11260E: 9380 -N	174.0

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WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11260E: 9400 -N	115.0
11260E: 9420 -N	162.0
11260E: 9440 -N	54.0
11260E: 9460 -N	46.0
11260E: 9480 -N	65.0
11260E: 9500 -N	166.0
11260E: 9520 -N	182.0
11260E: 9540 -N	183.0
11260E: 9560 -N	180.0
11260E: 9580 -N	141.0
11260E: 9600 -N	116.0
11260E: 9620 -N	104.0
11260E: 10300 -N	53.0
11260E: 10320 -N	28.0
11260E: 10340 -N	70.0
11260E: 10360 -N	40.0
11260E: 10380 -N	36.0
11260E: 10400 -N	41.0
11260E: 10420 -N	49.0
11260E: 10440 -N	44.0
11260E: 10460 -N	50.0
11260E: 10480 -N	65.0
11260E: 10500 -N	58.0
11260E: 10520 -N	28.0
11260E: 10540 -N	MS
11260E: 10560 -N	MS
11260E: 10580 -N	78.0
11260E: 10600 -N	46.0
11260E: 10620 -N	36.0
11260E: 10640 -N	57.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11260E: 10660 -N	56.0
11260E: 10680 -N	23.0
11260E: 10700 -N	49.0
11080E: 10260 -N	335.0
11080E: 10280 -N	170.0
11080E: 10300 -N	65.0
11080E: 10320 -N	19.0
11080E: 10340 -N	31.0
11080E: 10360 -N	15.0
11080E: 10380 -N	17.0
11080E: 10400 -N	36.0
11080E: 10420 -N	30.0
11080E: 10440 -N	54.0
11080E: 10640 -N	55.0
11080E: 10660 -N	29.0
11080E: 10680 -N	50.0
11080E: 10700 -N	19.0
10720E: 9000 -N	22.0
10720E: 9020 -N	13.0
10720E: 9040 -N	12.0
10720E: 9060 -N	22.0
10720E: 9080 -N	26.0
10720E: 9100 -N	30.0
10720E: 9120 -N	27.0
10720E: 9140 -N	30.0
10720E: 9160 -N	31.0
10720E: 9180 -N	33.0
10720E: 9200 -N	32.0
10720E: 9220 -N	39.0
10720E: 9240 -N	22.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10720E: 9260 -N	27.0
10720E: 9280 -N	34.0
10720E: 9300 -N	23.0
10720E: 9320 -N	29.0
10720E: 9340 -N	34.0
10720E: 9360 -N	26.0
10720E: 9380 -N	19.0
10720E: 9400 -N	30.0
10720E: 9600 -N	47.0
10720E: 9620 -N	100.0
10720E: 9640 -N	73.0
10720E: 9660 -N	96.0
10720E: 9680 -N	41.0
10720E: 9700 -N	120.0
10720E: 9720 -N	85.0
10720E: 9740 -N	122.0
10720E: 9760 -N	2000.0
10720E: 9780 -N	1810.0
10720E: 9800 -N	194.0
10720E: 9820 -N	300.0
10720E: 9840 -N	360.0
10720E: 9860 -N	360.0
10720E: 9880 -N	162.0
10720E: 9900 -N	660.0
10720E: 9920 -N	1050.0
10720E: 9940 -N	830.0
10720E: 9960 -N	272.0
10720E: 9980 -N	61.0
10720E: 10000 -N	91.0
10720E: 10020 -N	60.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
10720E: 10040 -N	74.0
10720E: 10060 -N	21.0
10720E: 10080 -N	45.0
10720E: 10100 -N	57.0
10720E: 10120 -N	37.0
10720E: 10140 -N	42.0
10720E: 10160 -N	20.0
10720E: 10180 -N	44.0
11920E: 10620 -N	89.0
11920E: 10640 -N	59.0
11920E: 10660 -N	67.0
11920E: 10680 -N	53.0
11920E: 10700 -N	46.0
11920E: 10720 -N	44.0
11920E: 10740 -N	70.0
11920E: 10760 -N	174.0
11920E: 10780 -N	52.0
11920E: 10800 -N	51.0
11920E: 10820 -N	67.0
11920E: 10840 -N	48.0
11920E: 10860 -N	31.0
11920E: 10880 -N	31.0
11920E: 10900 -N	37.0
11920E: 10920 -N	29.0
11920E: 10940 -N	37.0
11920E: 10960 -N	42.0
11920E: 10980 -N	46.0
11920E: 11000 -N	33.0
11920E: 11020 -N	17.0
11500E: 9200 -N	85.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11500E: 9220 -N	44.0
11500E: 9240 -N	51.0
11500E: 9260 -N	102.0
11500E: 9280 -N	116.0
11500E: 9300 -N	132.0
11500E: 9320 -N	52.0
11500E: 9340 -N	77.0
11500E: 9360 -N	54.0
11500E: 9380 -N	49.0
11500E: 9400 -N	67.0
11500E: 9420 -N	30.0
11500E: 9440 -N	46.0
11500E: 9460 -N	79.0
11500E: 9480 -N	46.0
11500E: 9500 -N	65.0
11500E: 9520 -N	139.0
11500E: 9540 -N	84.0
11500E: 9560 -N	202.0
11500E: 9580 -N	37.0
11500E: 9600 -N	38.0
11500E: 9620 -N	41.0
11500E: 9640 -N	36.0
11500E: 10240 -N	63.0
11500E: 10320 -N	42.0
11500E: 10340 -N	86.0
11500E: 10360 -N	68.0
11500E: 10380 -N	33.0
11500E: 10400 -N	34.0
11500E: 10420 -N	71.0
11500E: 10440 -N	63.0

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
11500E:	10460 -N	31.0
11500E:	10480 -N	23.0
11500E:	10520 -N	68.0
11500E:	10540 -N	64.0
11500E:	10560 -N	62.0
11500E:	10580 -N	74.0
11500E:	10600 -N	70.0
11500E:	10620 -N	44.0
11500E:	10640 -N	59.0
11500E:	10680 -N	28.0
11500E:	10700 -N	43.0
11500E:	10720 -N	43.0
11320E:	9200 -N	149.0
11320E:	9220 -N	133.0
11320E:	9240 -N	126.0
11320E:	9260 -N	133.0
11320E:	9280 -N	155.0
11320E:	9300 -N	131.0
11320E:	9320 -N	50.0
11320E:	9340 -N	82.0
11320E:	9360 -N	95.0
11320E:	9380 -N	150.0
11320E:	9400 -N	43.0
11320E:	9420 -N	85.0
11320E:	9440 -N	74.0
11320E:	9460 -N	117.0
11320E:	9480 -N	57.0
11320E:	9500 -N	78.0
11320E:	9520 -N	143.0
11320E:	9540 -N	58.0

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AUTHORITY: D. DUPRE

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11-NUV-87
PAGE: 55 OF 63
COPY: 2 OF 2

PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
11320E:	9560 -N	126.0
11320E:	9580 -N	104.0
11320E:	9600 -N	55.0
11320E:	9620 -N	198.0
11320E:	9640 -N	116.0
11320E:	10380 -N	52.0
11320E:	10400 -N	74.0
11320E:	10420 -N	35.0
11320E:	10440 -N	43.0
11320E:	10460 -N	62.0
11320E:	10480 -N	51.0
11320E:	10500 -N	35.0
11320E:	10520 -N	54.0
11320E:	10540 -N	49.0
11320E:	10560 -N	71.0
11320E:	10580 -N	83.0
11320E:	10600 -N	19.0
11320E:	10620 -N	52.0
11320E:	10640 -N	51.0
11320E:	10660 -N	MS
11320E:	10680 -N	49.0
11320E:	10700 -N	14.0
11380E:	9200 -N	129.0
11380E:	9220 -N	149.0
11380E:	9240 -N	160.0
11380E:	9260 -N	153.0
11380E:	9280 -N	147.0
11380E:	9300 -N	153.0
11380E:	9320 -N	149.0
11380E:	9340 -N	116.0

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PAGE: 56 OF 63
COPY: 2 OF 2

PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
11380E:	9360 -N	103.0
11380E:	9380 -N	102.0
11380E:	9400 -N	87.0
11380E:	9420 -N	38.0
11380E:	9440 -N	55.0
11380E:	9460 -N	53.0
11380E:	9480 -N	33.0
11380E:	9500 -N	57.0
11380E:	9520 -N	58.0
11380E:	9540 -N	83.0
11380E:	9560 -N	80.0
11380E:	9580 -N	133.0
11380E:	9600 -N	241.0
11380E:	9620 -N	75.0
11380E:	10360 -N	129.0
11380E:	10380 -N	119.0
11380E:	10400 -N	41.0
11380E:	10420 -N	77.0
11380E:	10440 -N	45.0
11380E:	10460 -N	88.0
11380E:	10480 -N	49.0
11380E:	10500 -N	45.0
11380E:	10520 -N	66.0
11380E:	10540 -N	72.0
11380E:	10560 -N	91.0
11380E:	10580 -N	37.0
11380E:	10600 -N	72.0
11380E:	10620 -N	55.0
11380E:	10640 -N	97.0
11380E:	10660 -N	66.0

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PAGE: 57 OF 63
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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11380E: 10680 -N	52.0
11380E: 10700 -N	164.0
10960E: 10180 -N	188.0
10960E: 10200 -N	88.0
10960E: 10220 -N	84.0
10960E: 10240 -N	78.0
10960E: 10260 -N	217.0
10960E: 10280 -N	42.0
10960E: 10300 -N	33.0
10960E: 10320 -N	29.0
10960E: 10340 -N	50.0
10960E: 10360 -N	97.0
10960E: 10380 -N	49.0
10960E: 10400 -N	84.0
10960E: 10420 -N	55.0
10960E: 10440 -N	86.0
10960E: 10460 -N	99.0
10960E: 10480 -N	109.0
10960E: 10500 -N	127.0
10960E: 10520 -N	109.0
10960E: 10540 -N	50.0
10960E: 10560 -N	76.0
10960E: 10580 -N	48.0
10960E: 10600 -N	58.0
10960E: 10620 -N	21.0
10960E: 10640 -N	33.0
10960E: 10660 -N	36.0
10960E: 10680 -N	44.0
10960E: 10700 -N	25.0
11200E: 10140 -N	1460.0

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PAGE: 58 OF 63
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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11200E: 10160 -N	107.0
11200E: 10180 -N	68.0
11200E: 10200 -N	70.0
11200E: 10220 -N	152.0
11200E: 10240 -N	130.0
11200E: 10260 -N	207.0
11200E: 10280 -N	188.0
11200E: 10300 -N	55.0
11200E: 10320 -N	46.0
11200E: 10340 -N	89.0
11200E: 10360 -N	163.0
11200E: 10380 -N	55.0
11200E: 10400 -N	32.0
11200E: 10420 -N	41.0
11200E: 10440 -N	28.0
11200E: 10460 -N	51.0
11200E: 10480 -N	77.0
11200E: 10500 -N	32.0
11200E: 10520 -N	84.0
11200E: 10540 -N	45.0
11200E: 10560 -N	74.0
11200E: 10580 -N	17.0
11200E: 10600 -N	26.0
11200E: 10620 -N	46.0
11200E: 10640 -N	36.0
11200E: 10660 -N	37.0
11200E: 10680 -N	66.0
11200E: 10700 -N	54.0
11740E: 10460 -N	102.0
11740E: 10480 -N	95.0

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PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11740E: 10500 -N	48.0
11740E: 10520 -N	74.0
11740E: 10540 -N	66.0
11740E: 10560 -N	301.0
11740E: 10580 -N	100.0
11740E: 10600 -N	81.0
11740E: 10620 -N	79.0
11740E: 10640 -N	59.0
11740E: 10660 -N	31.0
11740E: 10680 -N	18.0
11740E: 10700 -N	38.0
11740E: 10720 -N	29.0
11740E: 10740 -N	31.0
11740E: 10760 -N	49.0
11740E: 10780 -N	41.0
11740E: 10800 -N	29.0
11740E: 10820 -N	38.0
11740E: 10840 -N	35.0
11740E: 10860 -N	40.0
11020E: 10260 -N	77.0
11020E: 10280 -N	171.0
11020E: 10300 -N	45.0
11020E: 10320 -N	36.0
11020E: 10340 -N	33.0
11020E: 10360 -N	44.0
11020E: 10380 -N	31.0
11020E: 10400 -N	70.0
11020E: 10420 -N	53.0
11020E: 10440 -N	84.0
11020E: 10600 -N	58.0

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PAGE: 60 OF 63
COPY: 2 OF 2

PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11020E: 10620 -N	54.0
11020E: 10640 -N	31.0
11020E: 10660 -N	53.0
11020E: 10680 -N	17.0
11020E: 10700 -N	38.0
11680E: 10400 -N	92.0
11680E: 10420 -N	93.0
11680E: 10440 -N	49.0
11680E: 10460 -N	92.0
11680E: 10480 -N	48.0
11680E: 10500 -N	76.0
11680E: 10520 -N	63.0
11680E: 10540 -N	40.0
11680E: 10560 -N	59.0
11680E: 10580 -N	61.0
11680E: 10600 -N	72.0
11680E: 10620 -N	81.0
11680E: 10640 -N	40.0
11680E: 10660 -N	62.0
11680E: 10680 -N	40.0
11680E: 10700 -N	66.0
11680E: 10720 -N	MS
11680E: 10740 -N	MS
11680E: 10760 -N	171.0
11680E: 10780 -N	136.0
11680E: 10800 -N	53.0
11680E: 10820 -N	31.0
11680E: 10840 -N	42.0
11680E: 10860 -N	37.0
10300E: 9600 -N	40.0

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PAGE: 61 OF 63
COPY: 2 OF 2

PROJECT: K-BC-5

WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER		CU PPM
10300E:	9620 -N	17.0
10300E:	9640 -N	16.0
10300E:	9660 -N	84.0
10300E:	9680 -N	57.0
10300E:	9700 -N	71.0
10300E:	9720 -N	155.0
10300E:	9740 -N	182.0
10300E:	9760 -N	62.0
10300E:	9780 -N	73.0
10300E:	9800 -N	68.0
10300E:	9820 -N	92.0
10300E:	9840 -N	94.0
10300E:	9860 -N	87.0
10300E:	9880 -N	130.0
10300E:	9900 -N	153.0
10300E:	9920 -N	336.0
10300E:	9940 -N	89.0
10300E:	9960 -N	172.0
10300E:	9980 -N	108.0
10300E:	10000 -N	121.0
11860E:	10600 -N	98.0
11860E:	10620 -N	48.0
11860E:	10640 -N	68.0
11860E:	10660 -N	49.0
11860E:	10680 -N	22.0
11860E:	10700 -N	45.0
11860E:	10720 -N	50.0
11860E:	10740 -N	39.0
11860E:	10760 -N	31.0
11860E:	10780 -N	36.0

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WORK ORDER: 4288D-87

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

SAMPLE NUMBER	CU PPM
11860E: 10800 -N	73.0
11860E: 10820 -N	34.0
11860E: 10880 -N	21.0
11860E: 10900 -N	37.0
11860E: 10920 -N	38.0
11860E: 10940 -N	37.0
11860E: 10960 -N	18.0
11860E: 10980 -N	55.0
11260E: 9640 -N	72.0
11320E: 10720 -N	20.0
11740E: 10880 -N	24.0

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PAGE: 63 OF 63
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PROJECT: K-BC-5

WORK ORDER: 4288D-87


*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: SOIL

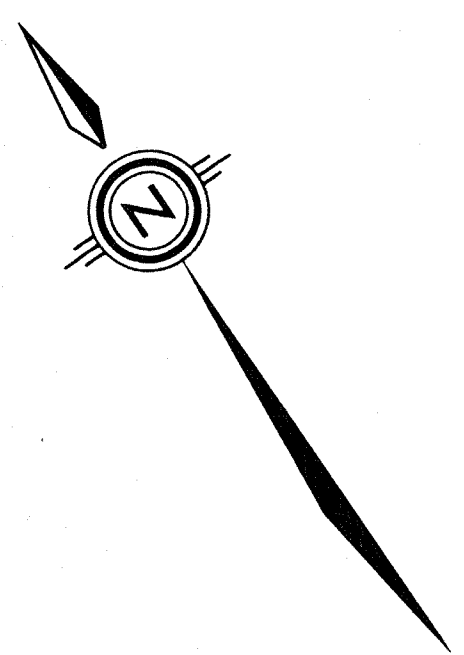
SAMPLE NUMBER	FIRE ASSAY	
	AU PPB	CU PPM
ROSE:R1	2.0	51.0
ROSE:R2	3.0	40.0
ROSE:R3	11.0	81.0
ROSE:R4	30.0	42.0
ROSE:R5	MS	MS
ROSE:R6	56.0	24.0
ROSE:R7	2.0	74.0
ROSE:R8	49.0	287.0
ROSE:R9	3.0	44.0
ROSE:R10	2.0	48.0
ROSE:R11	2.0	32.0
ROSE:11200E	62.0	242.0

SIGNED: _____


C. Douglas Read,
LABORATORY MANAGER

FOOTNOTES:

P=QUESTIONABLE PRECISION; * = INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE



L108+40E L109+00E L109+60E L110+20E L110+80E L111+40E L112+00E L112+60E L113+20E L113+80E L114+40E L115+00E L115+60E L116+20E L116+80E L117+40E L118+00E L118+60E L119+20E L119+80E

L100+00E L100+60E L101+20E L101+80E L102+40E L103+00E L103+60E L104+20E L104+80E L105+40E L106+00E L106+60E L107+20E L107+80E

103+00N
102+00N
101+00N
100+00N
99+00N
98+00N
97+00N
96+00N

110+00N
109+00N
108+00N
107+00N
106+00N
105+00N
104+00N
103+00N



GEOLOGICAL LEGEND		ABBREVIATIONS	
6	Feldspar porphyry dyke	spec	specular hematite
5	Monzonite	horn	hornblende
4	Syenite	bo	bornite
3	Intermediate volcanic	py	pyrite
	a) agglomerate	Fe	iron
	b) felspar phytic	mal	malachite
	c) massive	mag	magnetite
	d) fragmental	sp	sphalerite
2	Limestone	cc	chalcocite
1	Siltstone	cpy	chalcopyrite
		py	pyrite
		hem	hematite
		H	hornfels
		K	potassic alteration
		ep	epidote
		Si	silicified
		Ser	sericitic
		Ch	chlorite
		Ca	calcite
		Cav	calcite vein
		Qz	quartz stock work

Geophysical analyses
X 110721 - Au (ppm), Ag (ppm), Cu (%)
Sample location

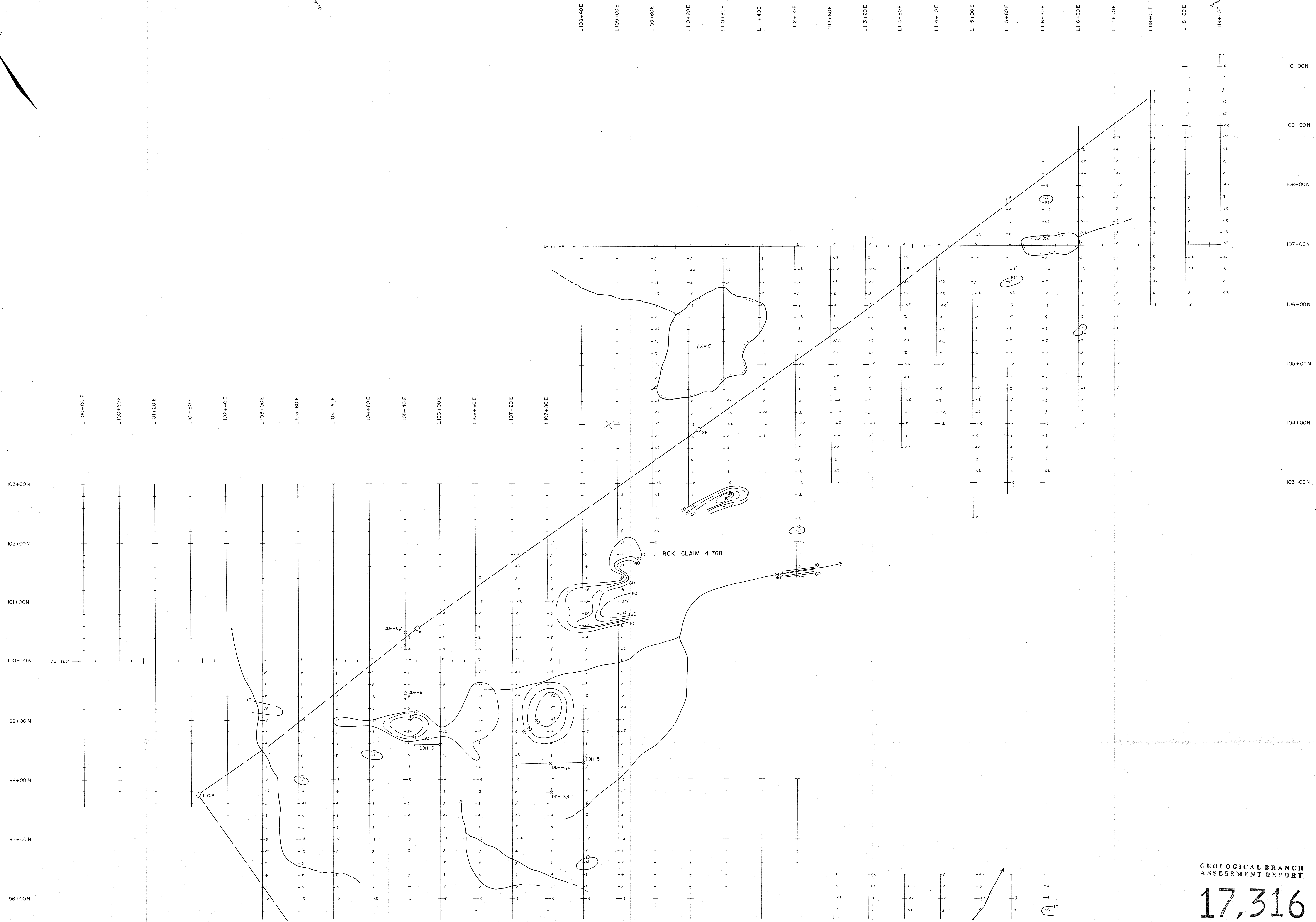
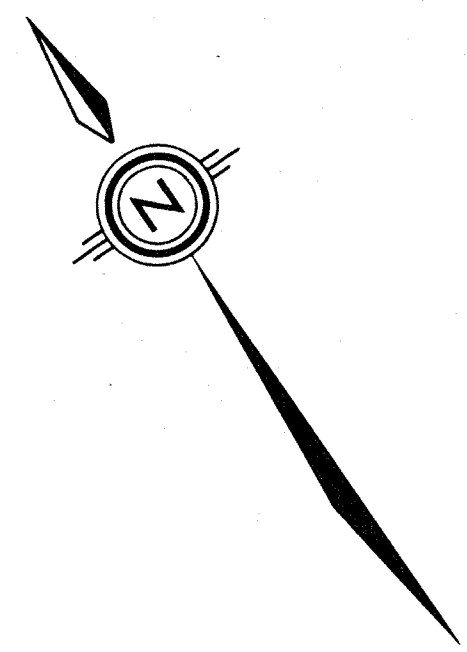
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,316

MANCHESTER RESOURCES

ROK PROPERTY
NORTH PART
GEOLOGY MAP

DATE OCT, 1987	NTS 104 H/13
PROJECT K-BC-5	MAPPED/DRAWN BY D. DUPRE
SCALE 1:2000	50 100m
TAJGA CONSULTANTS LTD	MAP 1

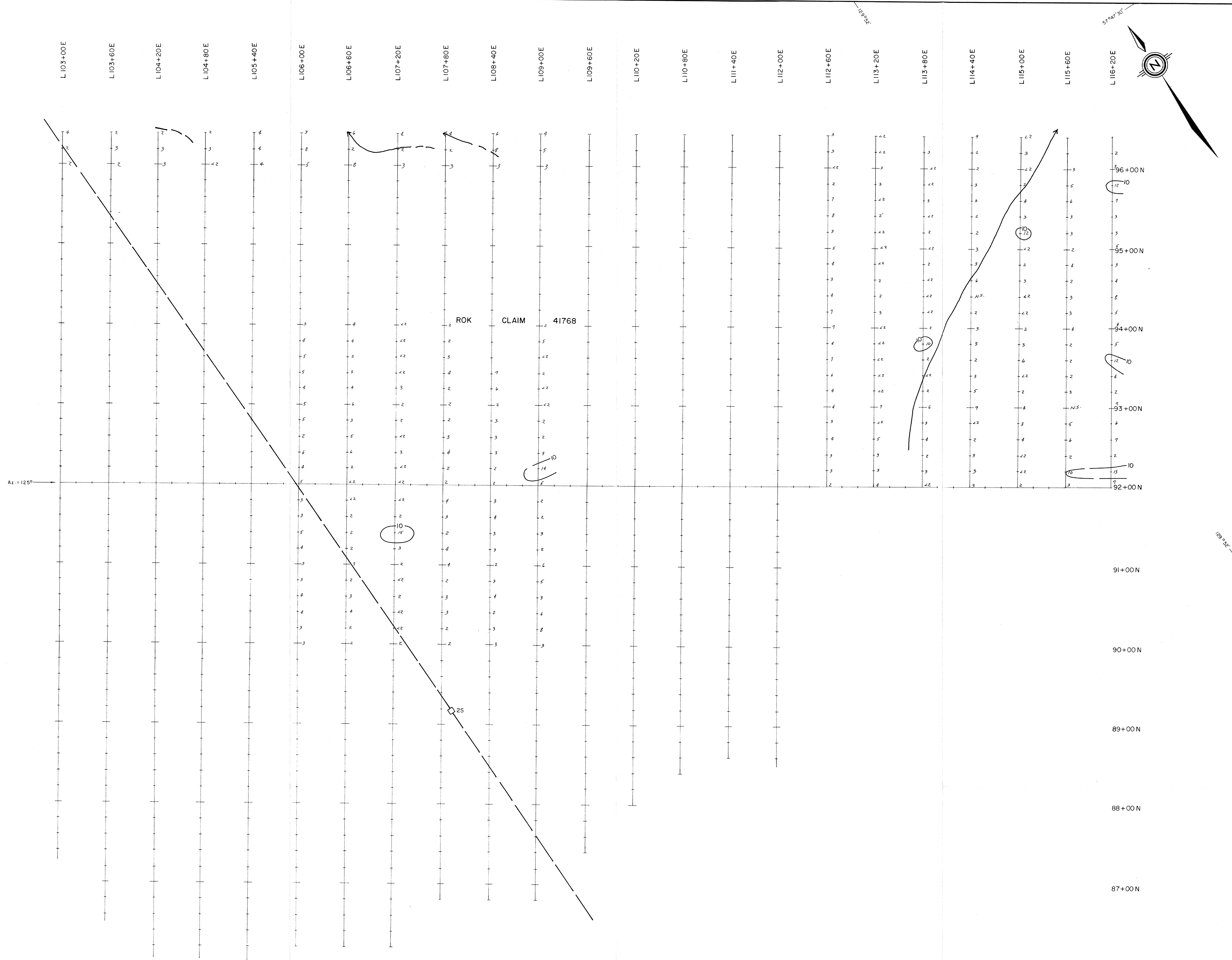


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,316

CONTOUR VALUE: 10 ppb
20 ppb
40 ppb
80 ppb
160 ppb

MANCHESTER RESOURCES	
ROK PROPERTY NORTH PART SOIL GEOCHEMISTRY (Au in ppb)	
DATE OCT, 1987	NTS 104 H/13
PROJECT K-BC-5	MAPPED/DRAWN BY D. DUPRE
SCALE 1:2000	100m
TAIGA CONSULTANTS LTD	MAP 3

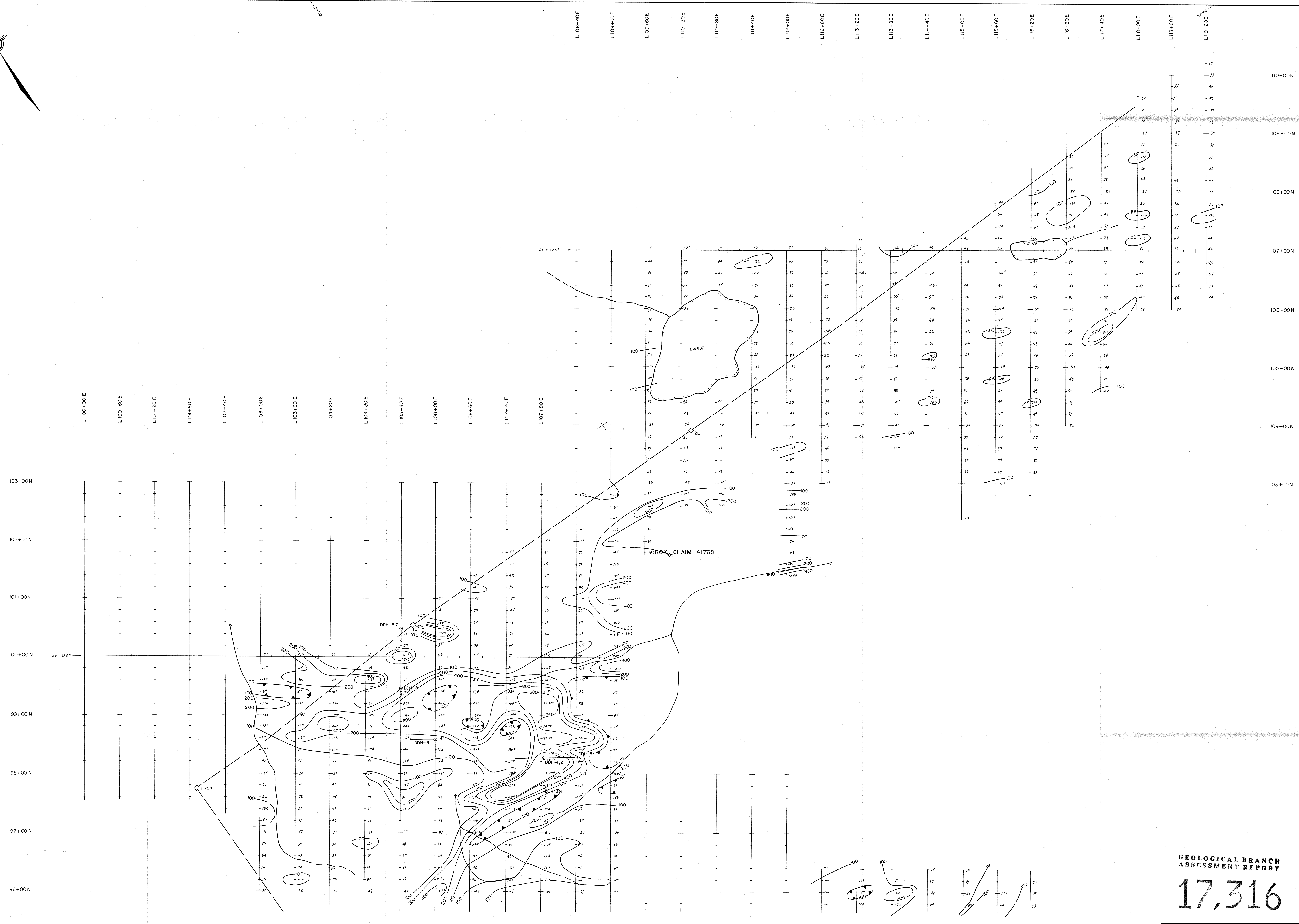
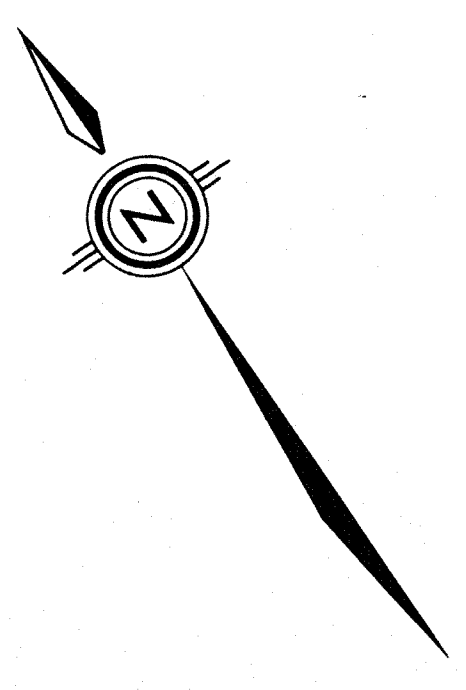


GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,316

CONTOUR VALUE: 10ppb

MANCHESTER RESOURCES	
ROK PROPERTY SOUTH PART SOIL GEOCHEMISTRY (Au in ppb)	
DATE OCT. 1987	NTS 104 H/13
PROJECT K-BC-5	MAPPED/ DRAWN BY D. DUPRE
SCALE 1:2000	0 50 100m
TAIGA CONSULTANTS LTD	MAP 4



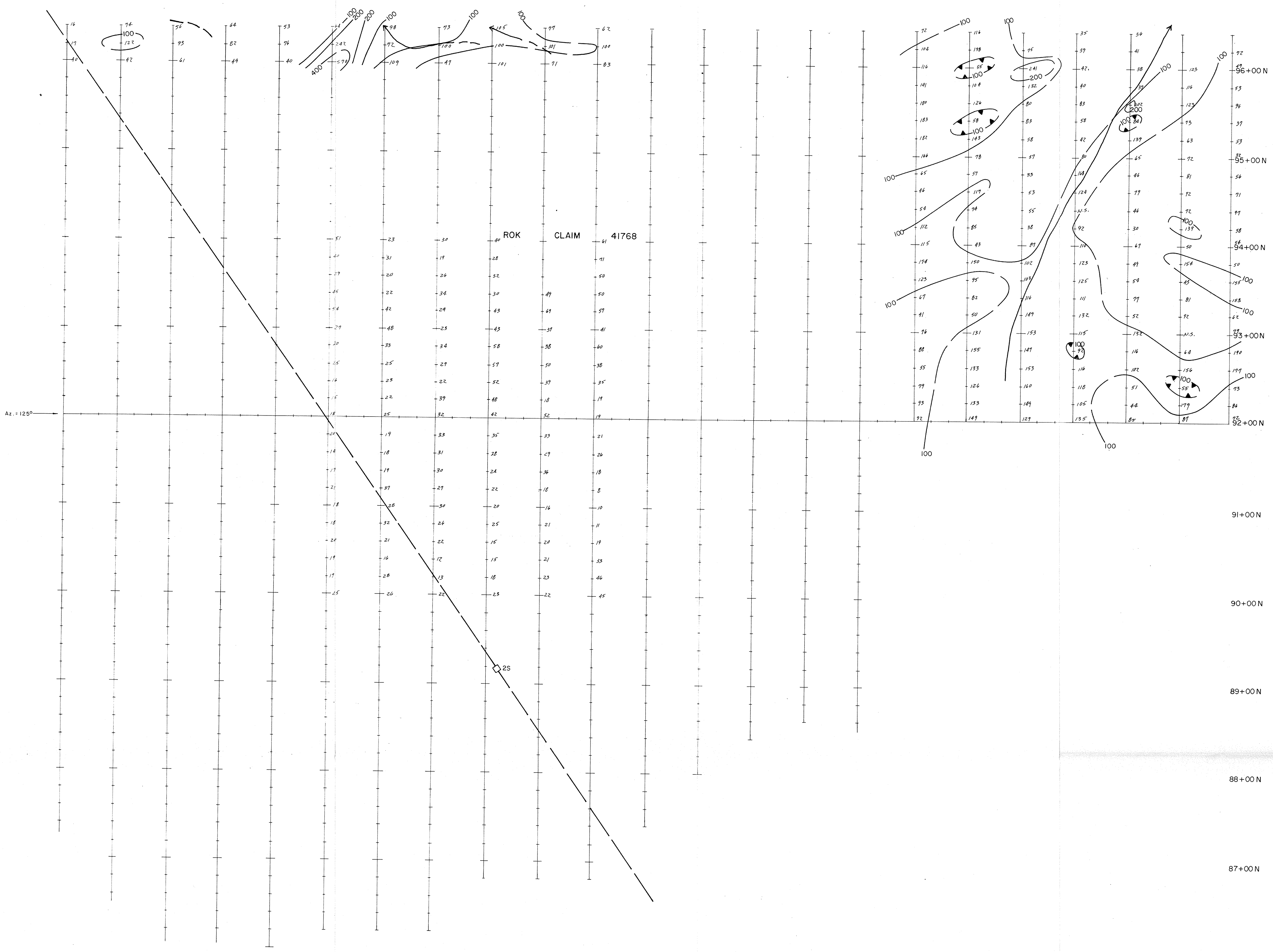
GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,316

CONTOUR VALUE: 100 ppm
200 ppm
400 ppm
800 ppm
1600 ppm

MANCHESTER RESOURCES	
ROK PROPERTY NORTH PART SOIL GEOCHEMISTRY (Cu in ppm)	
DATE OCT., 1987	NTS 104 H/13
PROJECT K-BC-5	MAPPED/ DRAWN BY D. DUPRE
SCALE 1:2000	100m
TAIGA CONSULTANTS LTD	MAP 5

L103+00E L103+60E L104+20E L104+80E L105+40E L106+00E L106+60E L107+20E L107+80E L108+40E L109+00E L109+60E L110+20E L110+80E L111+40E L112+00E L112+60E L113+20E L113+80E L114+40E L115+00E L115+60E L116+20E



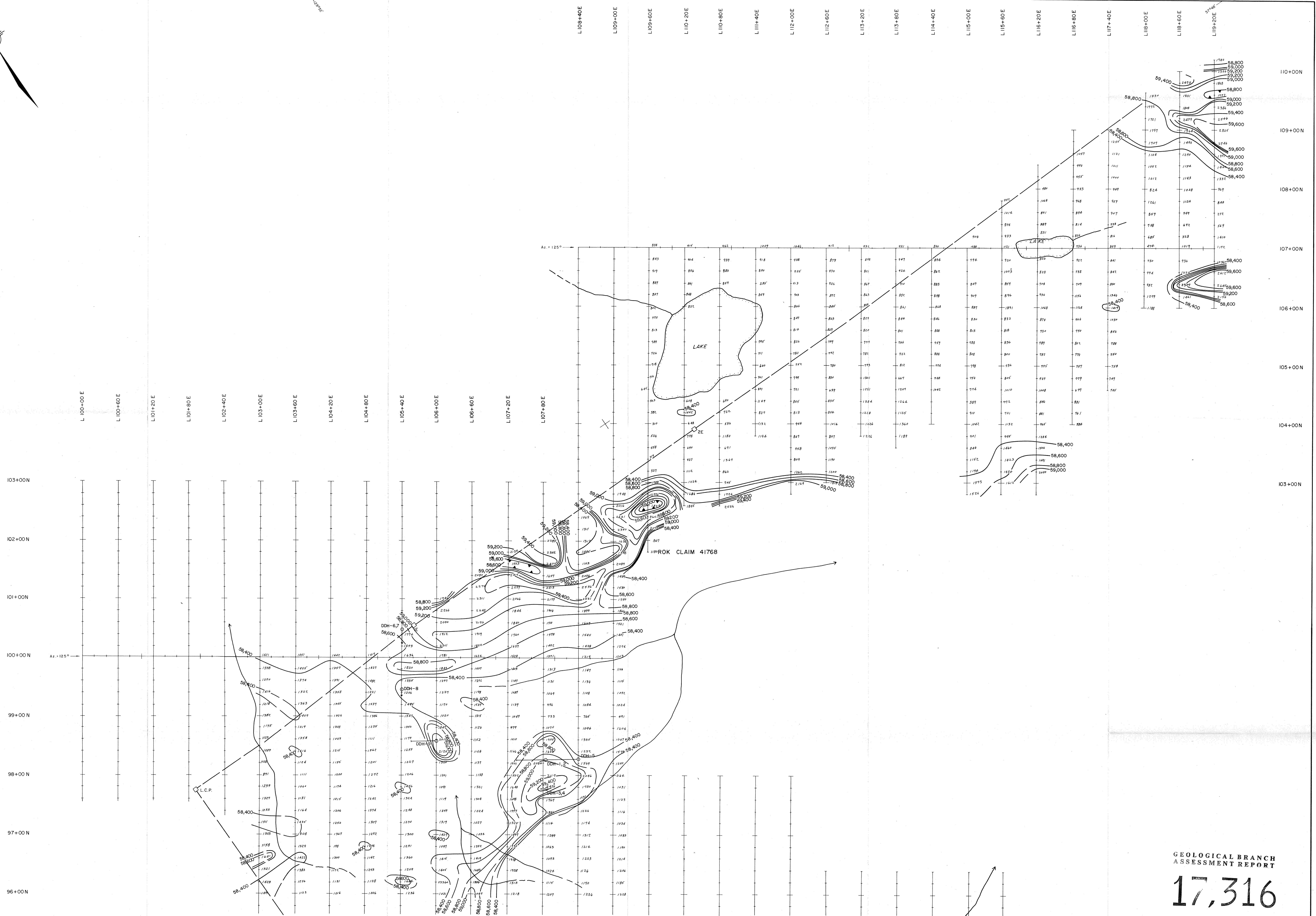
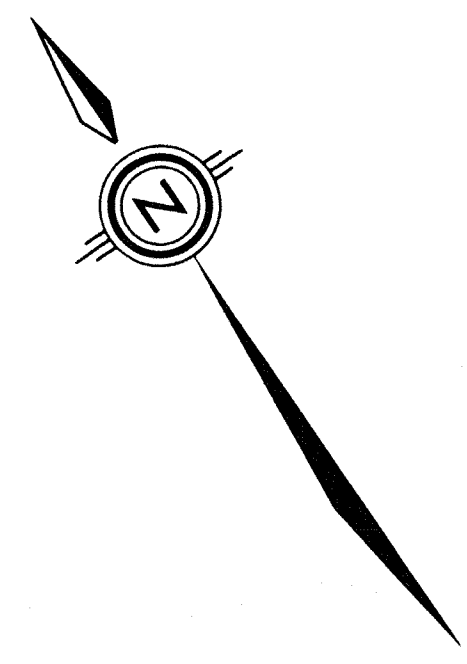
26+00N
**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

17,316

CONTOUR VALUES: 100 ppm
 200 ppm
 400 ppm

MANCHESTER RESOURCES	
ROK PROPERTY SOUTH PART SOIL GEOCHEMISTRY (Cu in ppm)	
DATE OCT., 1987	NTS 104 H/13
PROJECT K-BC-5	MAPPED/ DRAWN BY D. DUPRE
SCALE 1:2000	0 50 100m
TAIGA CONSULTANTS LTD	MAP 6

91+00N
 90+00N
 89+00N
 88+00N
 87+00N



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,316

CONTOUR VALUES: 58,400
58,600
58,800
59,000
59,200
59,400
59,600

MANCHESTER RESOURCES	
ROK PROPERTY NORTH PART MAGNETOMETER SURVEY	
DATE OCT, 1987	NTS 104 H/13
PROJECT K-BC-5	MAPPED/DRAWN BY D. DUPRE
SCALE 1:2000	1" = 50'
TAIGA CONSULTANTS LTD	MAP 7