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**ASSESSMENT REPORT
ON THE
Q.C. PROPERTY
(Q.C. 1-7, 9-10, 15 CLAIMS)**

**Liard Mining Division, British Columbia
NTS 104G/9W & 16W
Latitude: 57° 46' N
Longitude: 130° 15' W**

on behalf of
DRYDEN RESOURCE CORPORATION
Vancouver, B.C.

by
Martin G. Morrice
KEEWATIN ENGINEERING INC.
#800 - 900 West Hastings Street
Vancouver, B.C.
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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
ASL/SS2
21,903

December 10, 1991

Keewatin Engineering Inc.

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1.0 SUMMARY

The objectives of the 1991 field program on the Q.C. claims were to assess the economic mineral potential of the property, and to identify and drill favourable targets. Field work was concentrated on areas of known mineralization, but also included a reconnaissance program to evaluate areas of the property not investigated in the past. This involved grid establishment, geological mapping, soil sampling, prospecting, and induced polarization and magnetometer surveys.

Two types of mineralization are present on the property; porphyry-style Cu-Au mineralization and vein-style Au-Ag-Cu-Zn mineralization. The best surface exposures of porphyry Cu-Au mineralization (from surface chip sampling) are the HBA zone (23 m - 0.20% Cu, 38 ppb Au) and the Cliff zone (36 m - 0.25% Cu, 76 ppb Au). Three holes (total 546.8 metres) were drilled on a north-south fence into an I.P. chargeability anomaly, in the vicinity of Au and Cu soil anomalies at the Porphyry Zone. The best drill intersections are:

| PORPHYRY ZONE - 1991 DRILLING PROGRAM | | | |
|---------------------------------------|---------------|--------|-------|
| Hole No. | From - To (m) | Metres | % Cu |
| 91-1 | 8.6 - 77.6 | 69 | 0.276 |
| 91-2 | 6.0 - 69.0 | 63 | 0.190 |
| 91-3 | 75.0 - 147.0 | 72 | 0.140 |

The best vein-type mineralization is exposed in a trench at the Upper Gordon showing (0.6 m - 57.8 g/t Au, 192.2 g/t Ag, 2.72% Cu, 15.65% Zn). Two holes (164.68 metres) were drilled at the Upper Gordon showing. The best drill intersections are:

| UPPER GORDON SHOWING - 1991 DRILLING PROGRAM | | | | | | |
|----------------------------------------------|---------------|--------|--------|--------|------|------|
| Hole No. | From - To (m) | Metres | g/t Au | g/t Ag | % Cu | % Zn |
| 91-4 | 41.27 - 44.77 | 3.5 | 19.9 | 202.3 | 3.08 | 5.31 |
| 91-5 | 37.15 - 37.65 | 0.5 | 9.9 | 79.6 | 0.81 | 3.53 |

All other vein showings investigated to date are either too narrow or discontinuous to be of further interest.

Mineralization discovered during the 1991 program at the Porphyry Zone is encouraging with respect to Cu values. However, there is no apparent Cu-Au correlation. Rather, Au values appear to be associated with narrow (<1 m wide), discontinuous, quartz veins that occur randomly throughout the property. The mineralization at the Upper Gordon showing is encouraging and indicates that high gold and silver values occur over true widths of up to 2.45 metres. Both the Porphyry zone and the Upper Gordon showing warrant further work. Additional drilling to the west and east of 15000E at the Porphyry zone would determine if mineralization continues in those directions and shed further light on the Cu-Au soil association. The Upper Gordon showing should be drilled both along strike to the east and west as well as down dip. Elsewhere on the property, high gold soil anomalies to the northwest of the Orange zone, in an area of poor exposure, were investigated towards the end of the season. Grab samples of quartz float returned anomalous in several elements (13.4 g/t Au, 152.5 g/t Ag, 3,033 g/t Sb) gold values. Further work in this area should involve trenching to determine a bedrock source of these soil anomalies and drilling, if warranted.

2.0 INTRODUCTION

Keewatin Engineering Inc. was commissioned by the project operator (Dryden Resource Corporation) to carry out the 1991 exploration program on the Q.C. Property.

2.1 Location and Access

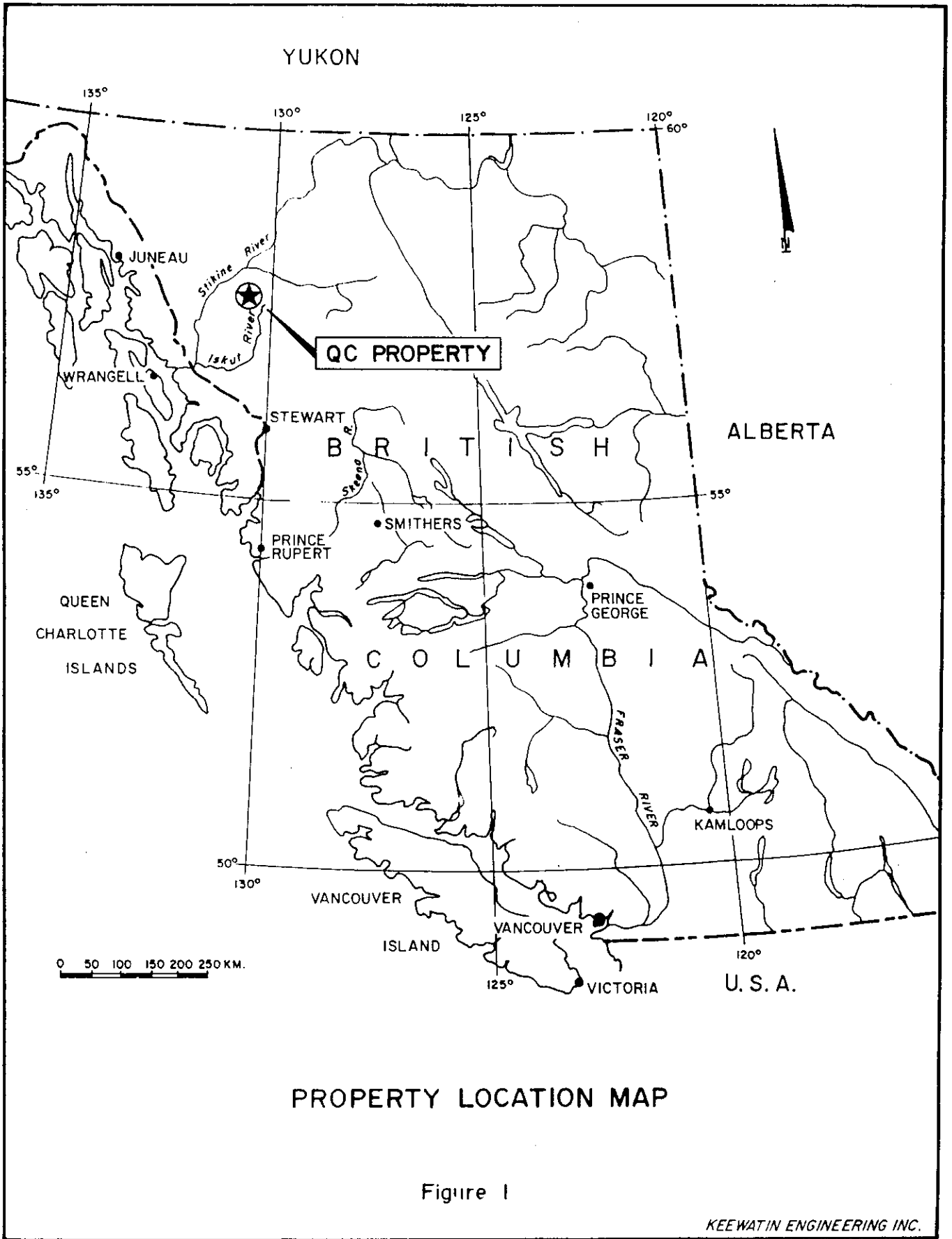
The Q.C. property is located in the Stikine region of northwestern British Columbia, approximately 400 km north of Smithers, B.C. The claims are centred at 57°46' North latitude, 130°15' West longitude on NTS map sheets 104G/9W and 16W (Figure 1). Access to the property was via helicopter chartered from Northern Mountain Helicopters, based at the village of Iskut, located 24 km to the northeast of the claims. Scheduled air service is available from Smithers to Iskut during the summer months.

Topography varies from fairly subdued with gently rolling hills atop the Klastline Plateau in the northern portion of the property to extremely rugged with steep slopes and cliffs along the deeply incised valleys of Quash Creek and its numerous tributaries. In the vicinity of the Q.C. Porphyry Zone, much of the ground is characterized by very steep north and west facing slopes and cliffs that make parts of the property relatively inaccessible. The Q.C. Vein Zone, situated about 5.5 km northwest of the Porphyry Zone, occurs in a steeply incised creek valley.

2.2 Physiography and Climate

Elevations on the property range from 975 metres (3,200 feet) above sea level along Quash Creek to 2,094 metres (6,869 feet) above sea level along the western side of the property near the southern claim boundary.

Vegetation varies from poplar, alder, balsam and spruce at the lowest elevations along the creek valleys to predominantly dwarf balsam along steeper slopes at higher elevations. The tree line occurs at about 1,370 metres (4,500 feet) above sea level. Alpine grasses and flowers are common at the highest elevations.



YUKON

135° 130° 125° 120° 60°

JUNEAU
Skeena River
Iskut River

QC PROPERTY

WRANGELL

STEWART

B R I T I S H

ALBERTA

55° 135° 55°

SMITHERS

PRINCE RUPERT

QUEEN CHARLOTTE ISLANDS

PRINCE GEORGE

C O L U M B I A

50° 130° VANCOUVER

FRASER RIVER

KAMLOOPS

ISLAND

VANCOUVER

125° VICTORIA

U. S. A.

0 50 100 150 200 250 KM.

PROPERTY LOCATION MAP

Figure 1

Precipitation is moderate, averaging 100 cm per year. Thick accumulations of snow are common during winter. Fieldwork can commence at lower elevations in June, while it is seldom possible to begin geological surface fieldwork before July and continue past September at the higher elevations.

2.3 Property Status and Ownership

The Q.C. property consists of 10 claims (196 units) in the Liard Mining Division (Figure 2). A summary of the claims status is presented in the following table:

| Claim Name | Record No. | No. of Units | Date of Record | Expiry Date* |
|------------|------------|--------------|----------------|--------------|
| Q.C. 1 | 4557 | 20 | May 6, 1988 | May 6, 1999 |
| Q.C. 2 | 4558 | 20 | May 6, 1988 | May 6, 1998 |
| Q.C. 3 | 4559 | 20 | May 6, 1988 | May 6, 1995 |
| Q.C. 4 | 4560 | 20 | May 6, 1988 | May 6, 1998 |
| Q.C. 5 | 4561 | 20 | May 6, 1988 | May 6, 1995 |
| Q.C. 6 | 4562 | 20 | May 6, 1988 | May 6, 1995 |
| Q.C. 7 | 4563 | 20 | May 6, 1988 | May 6, 1995 |
| Q.C. 9 | 4565 | 20 | May 6, 1988 | May 6, 1995 |
| Q.C. 10 | 4566 | 20 | May 6, 1988 | May 6, 1999 |
| Q.C. 15 | 4571 | 16 | May 6, 1988 | May 6, 1997 |

* Due date after filing this report.

The Q.C. claims are owned by Teck Corporation, of 1199 West Hastings, Vancouver, B.C. (90%) and Silver Standard Resources Ltd., of 1400-1199 West Hastings St., Vancouver, B.C. (10%). Triumph Resource Corporation, of 1500-675 West Hastings St., Vancouver, B.C., has an option to earn up to 50% of Teck's interest in the claims. In September, 1990, Dryden Resource Corporation, of 800-900 West Hastings St., Vancouver, B.C., optioned the Q.C. claims from Teck Corporation, Silver Standard Resources Ltd. and Triumph Resources Ltd. The terms of the option allow Dryden to earn a 50% interest in the property. This required a cash payment of \$25,000 and issuing 100,000 shares upon signing of the agreement. In addition Dryden is required to make a further cash payment of \$25,000 (by October 31, 1991)

and incur exploration expenditures of \$1,000,000 by December 31, 1994. Dryden is the project operator during the period covered by the option agreement.

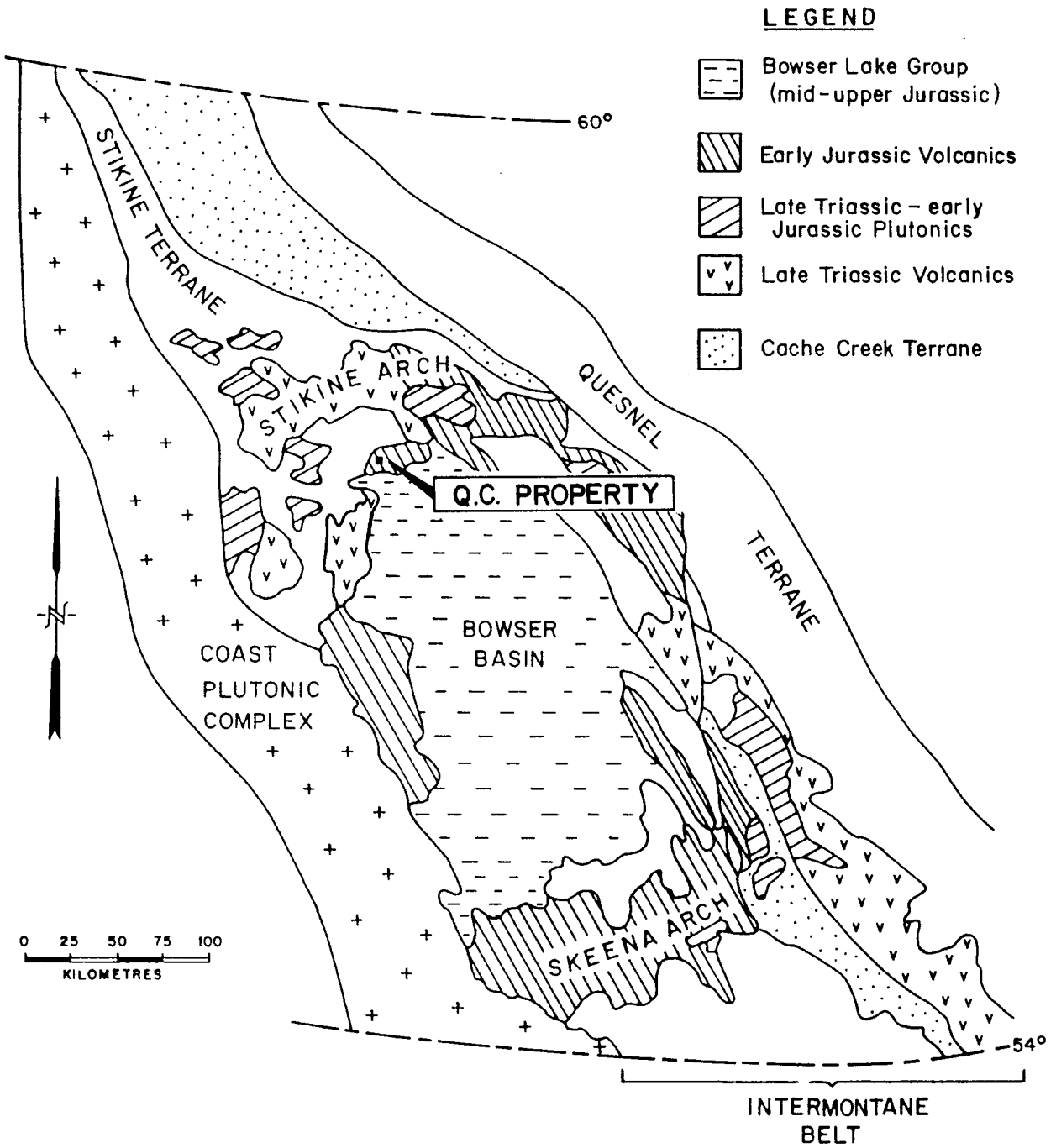
2.4 History of Exploration

The Q.C. property is located in the Stikine River area of northwestern B.C., a region well known for its alkalic plutons and associated porphyry copper-gold mineralization (Figures 3 and 4). The first recorded work carried out on the property occurred in 1964 during a regional evaluation of the Klastline Plateau by Conwest Exploration Co. Ltd. That program identified a number of porphyry copper-gold and precious metal vein targets on the plateau. One of the more significant of these was the Q.C. porphyry copper prospect which was staked in 1964. Limited property work, including silt/soil sampling and a ground magnetometer survey was also done in 1964.

In 1965, Hunttec conducted 2.19 km of Induced Potential (I.P.) and 1.83 km of ground magnetometer surveys along 2 lines on the Q.C. claims, on behalf of Conwest. Hunttec interpreted "the high apparent chargeability readings to be caused by extensive sulphide mineralization. The magnetometer and resistivity I.P. readings were very flat" (Dodds, 1965).

In 1969, additional silt sampling, geological mapping (1"=200'), soil sampling and a ground magnetometer survey were conducted by Conwest over the azurite-stained Q.C. gossan zone. The property was then optioned from Conwest by Amoco in 1970 and tested by 1,938.2 metres (6,359 feet) of drilling in nine B.Q. sized drill holes. The average grade for 916.2 metres (3,006 feet) of core recovered from holes 70-2, 3, 4, and 5 was approximately 0.12% Cu. The best intersection was in hole 70-5 which intersected 36.6 metres (120 feet) grading 0.19% Cu, 0.10 oz/ton Ag and trace Au (Grant, 1969; Webb, 1970).

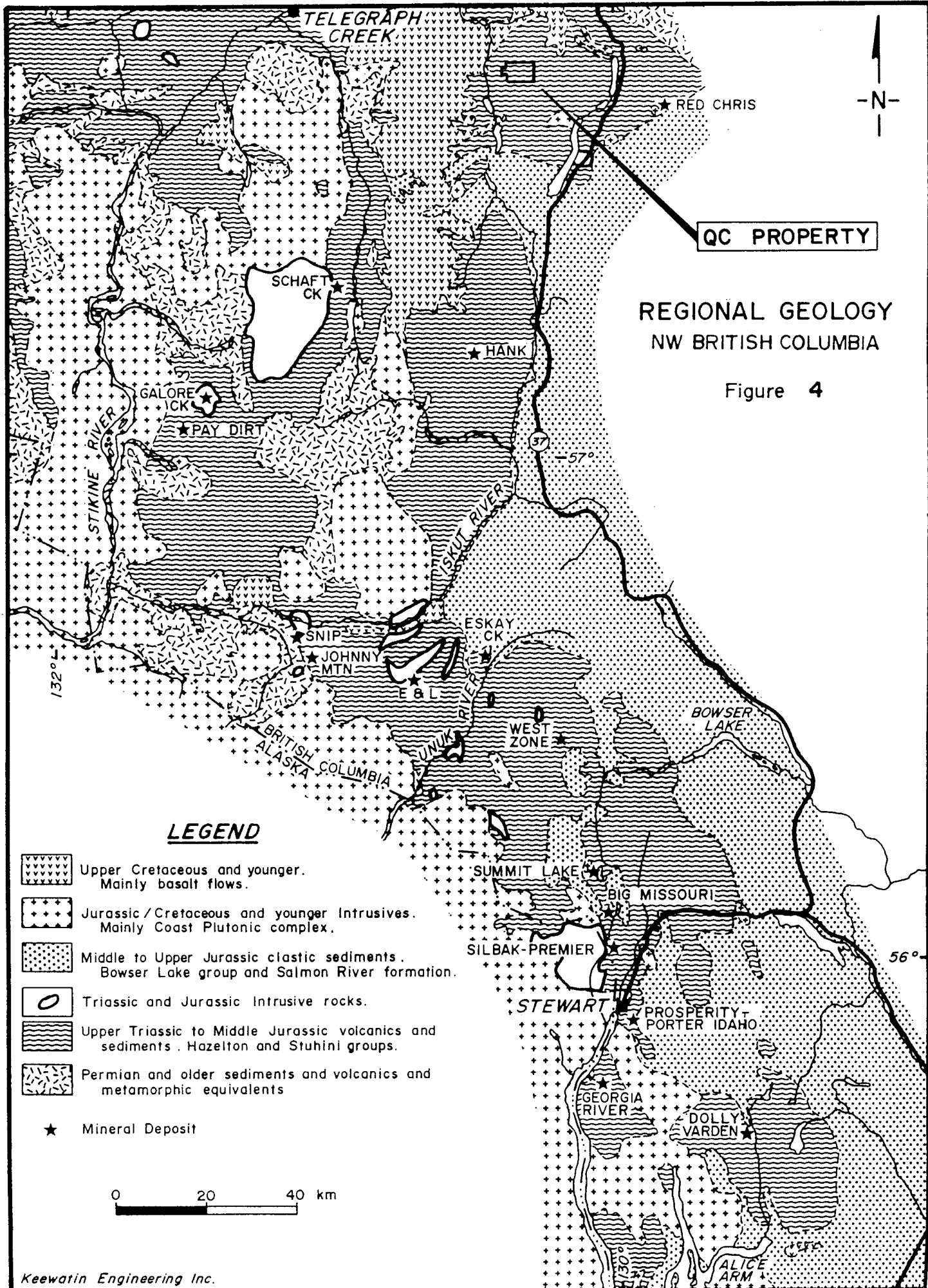
In 1970 and 1971 Silver Standard Mines Ltd. staked the A1 claims immediately west of the Q.C. property to cover several copper occurrences discovered by prospecting (Seraphim, 1971).



REGIONAL GEOLOGY
 BOWSER BASIN
 NW BRITISH COLUMBIA

(Outline of terrane boundaries and major rock groups of the Jurassic and Triassic - modified from Thomson, 1985).







Figure 3

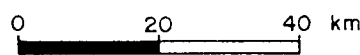


REGIONAL GEOLOGY
NW BRITISH COLUMBIA

Figure 4

LEGEND

-  Upper Cretaceous and younger. Mainly basalt flows.
-  Jurassic/Cretaceous and younger Intrusives. Mainly Coast Plutonic complex.
-  Middle to Upper Jurassic clastic sediments. Bowser Lake group and Salmon River formation.
-  Triassic and Jurassic Intrusive rocks.
-  Upper Triassic to Middle Jurassic volcanics and sediments. Hazelton and Stuhini groups.
-  Permian and older sediments and volcanics and metamorphic equivalents
- ★ Mineral Deposit



TexasGulf Canada Ltd. acquired the Q.C. property in the mid-1970's and completed a small field program (geological mapping, sampling) before letting it go in favour of other prospects in the region (Newell, 1978). From then until 1988, the entire Klastline Plateau area remained relatively inactive until the Geological Survey of Canada released the results of a regional stream sediment sampling program (National Geochemical Reconnaissance, 1988). Teck Corporation staked the Q.C.1 to Q.C.15 claims in the Quash Creek area in order to cover gold-copper geochemical anomalies resulting from this survey. Teck did some silt and soil geochemical sampling which led to the discovery of Au-Ag-Cu-Zn veins 5.5 km northwest of the Q.C. Porphyry Zone (Figure 5). Four vein systems (Main, Top, Gordon's, Upper Gordon) were exposed by hand trenching (Figure 6). The best results from bedrock sampling during this program were 1.10 oz/ton Au and 6.8 oz/ton Ag over 2.8 metres at Gordon's showing (Delaney, 1988). Teck did no work on the Porphyry Zone.

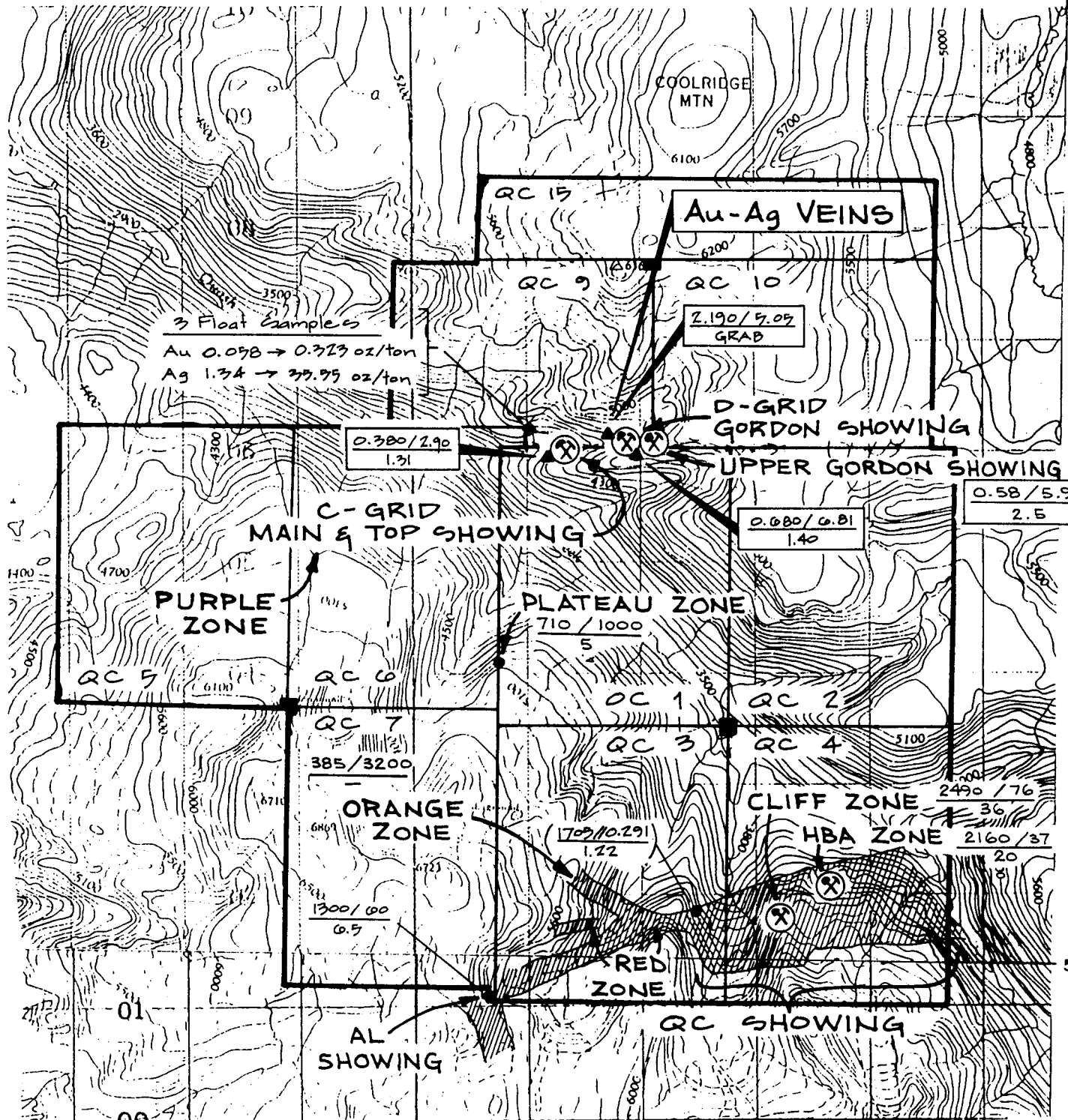
In 1990, Triumph Resources Ltd. optioned the Q.C. claims from Teck. Triumph carried out silt, contour soil and rock geochemical surveys over the Q.C. Porphyry Zone and resampled the Vein showings (Konkin, 1990).

The Q.C. claims were subsequently optioned by Dryden in the fall of 1990. In order to satisfy option terms Dryden carried out silt, soil, and rock geochemical sampling and drilled 377.04 metres (2 holes) into the western edge of a copper-gold anomaly identified in talus fines by Triumph (Figure 7). These holes intersected several 6.0 to 22.5 metre wide intervals of 1057-1435 ppm Cu and 5-140 ppb Au. Three of these intervals are included in 87 metres of 1067 ppm Cu and 21 ppb Au which was intersected in DDH 90-1 (Mehner, 1991a).

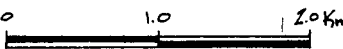
2.5 Objectives of the 1991 Work Program

The objectives of the 1991 work program were to:

- a) Further evaluate the known porphyry copper-gold and vein gold-silver-copper-zinc mineralization on the Q.C. property.
- b) Evaluate areas of the claim group away from the known mineralization.



57°30'



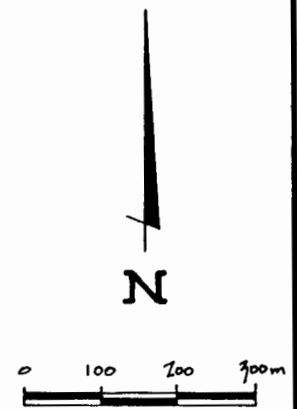
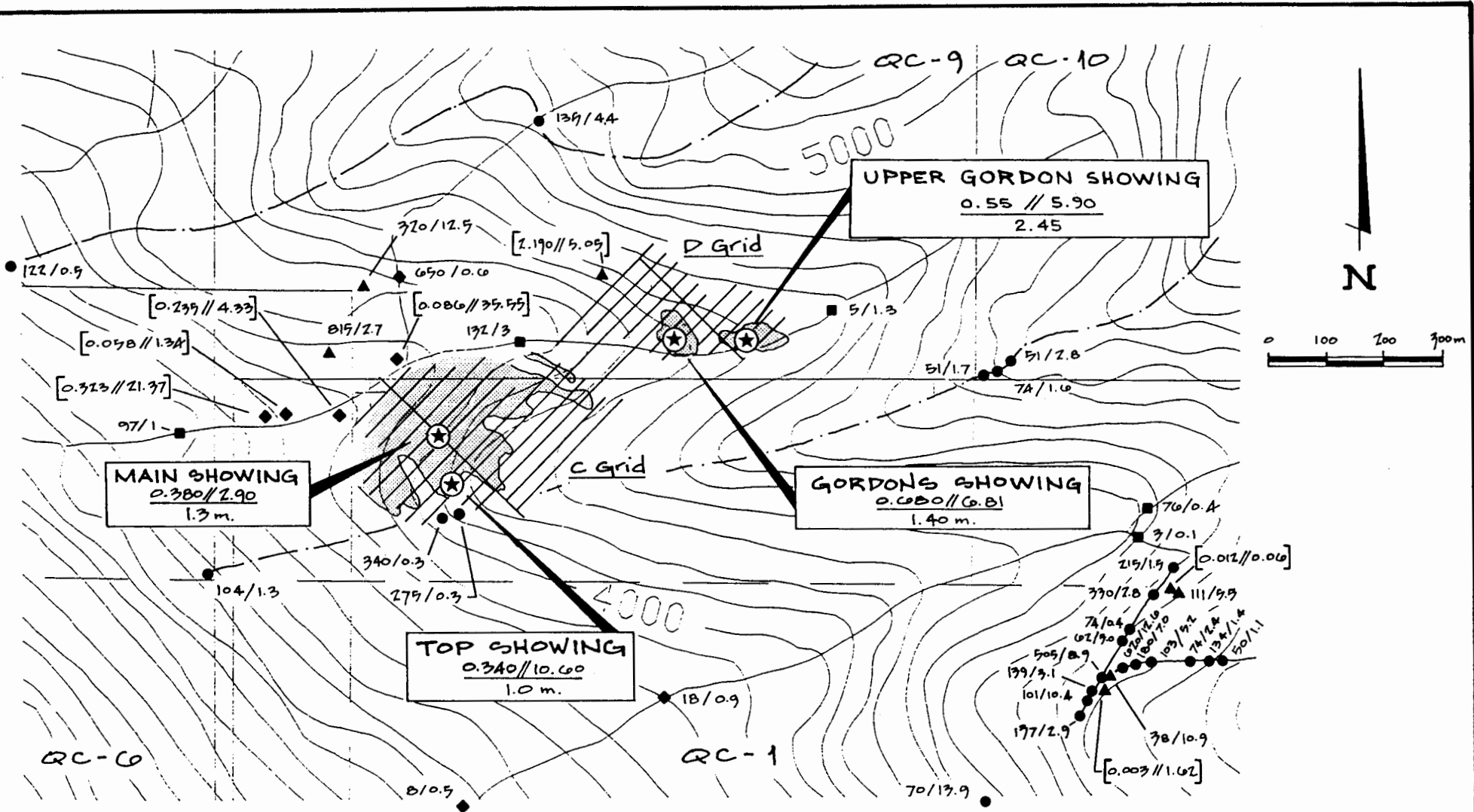
DRYDEN RESOURCE CORPORATION

QC PROPERTY

MINERALIZED AREAS

- Known porphyry alteration & mineralization
- Rock sample
- ◆ Float rock sample
- ▲ Rock sample
- $\frac{199}{49.7} / \frac{1000}{\text{metres}}$ ppm Cu / ppb Au
- $\frac{1709}{1.22} / \frac{0.291}{\text{metres}}$ ppm Cu // oz/ton Au
- $\frac{0.380}{1.31} / \frac{2.90}{\text{metres}}$ oz/ton Au / oz/ton Ag

| | |
|--------------------------------------|----------------------|
| DATE: Jan. 1991 | NTS: 104 G / 9w, 16w |
| PROJECT: | PRD. GEDL: DM |
| SCALE: 1:50000 | |
| Keewatin Engineering Inc. FIG. No. 5 | |



LEGEND

- ★ Mineralized showing
 - Au soil anomaly ≥ 100 ppb
 - silt sample with ppb Au / ppm Ag
 - ▲ Rock sample with oz/ton Au // oz/ton Ag
 - ◆ Rock float sample with ppb Au / ppm Ag
 - Reconnaissance soil line with anomalous soil (≥ 50 ppb Au), ppb Au / ppm Ag
- [0.380//2.90]
1.7 m
- oz/ton Au // oz/ton Ag
metres

NOTE: Rock, soil, silt values after Tack, 1988.

| | |
|-------------------------------------------------------------------------------------|---------------------|
| DRYDEN RESOURCE CORPORATION | |
| AXE - QC CLAIMS GOLD - SILVER VEINS SILT - SOIL - ROCK GEOCHEMISTRY | |
| DATE: Feb. 10, 1991 | NTS: 104G/9w., 16w. |
| PROJECT: Klastline | PROJ. GEOL.: DM |
| SCALE: 1:10000 | |
| Keewatin Engineering Inc. Fig. No. 6 | |

The ultimate objectives of this phase of the program were to identify potential areas that could be evaluated further by diamond drilling. The drill phase of the program was designed to:

- a) Test the potential of the Porphyry Zone to host a large, bulk tonnage copper-gold deposit.
- b) Evaluate the width and continuity of gold-silver-copper-zinc mineralization at the Vein Zone.

3.0 GEOLOGY

3.1 Regional Geology

The Q.C. property is located in the northeastern part of the Stikine Arch, within the Intermontane Tectono-Stratigraphic Belt of the Canadian Cordillera (Figures 3 and 4).

The regional geological setting comprises Upper Triassic Stuhini Group(?) siltstone, greywacke, volcanic conglomerate, and minor limestone overlain by augite porphyry basalt flows, pyroclastics and derived volcanoclastic rocks. These assemblages are overlain by Lower to Middle Jurassic augite andesite flows (in part pillowed), pyroclastics, and derived volcanoclastic rocks that are correlative with the Hazelton Group (Souther, 1971). Chert pebble conglomerate, grit, greywacke and siltstone of the Middle to Upper Jurassic Bowser Lake Group and Middle to Upper Cretaceous Sustut Group unconformably overly these units (Souther, 1971; Evanchik, 1991). A distinctive suite of massive, flow banded, and locally spherulitic rhyolite and associated pyroclastics occurs locally throughout the area. These have been variously interpreted as Lower Jurassic (Read, 1984) to Upper Cretaceous to Lower Tertiary (Souther, 1971) in age. Capping the stratigraphy are Upper Tertiary and Pleistocene basalt and olivine basalt flows, commonly with excellent columnar jointing (Souther, 1971).

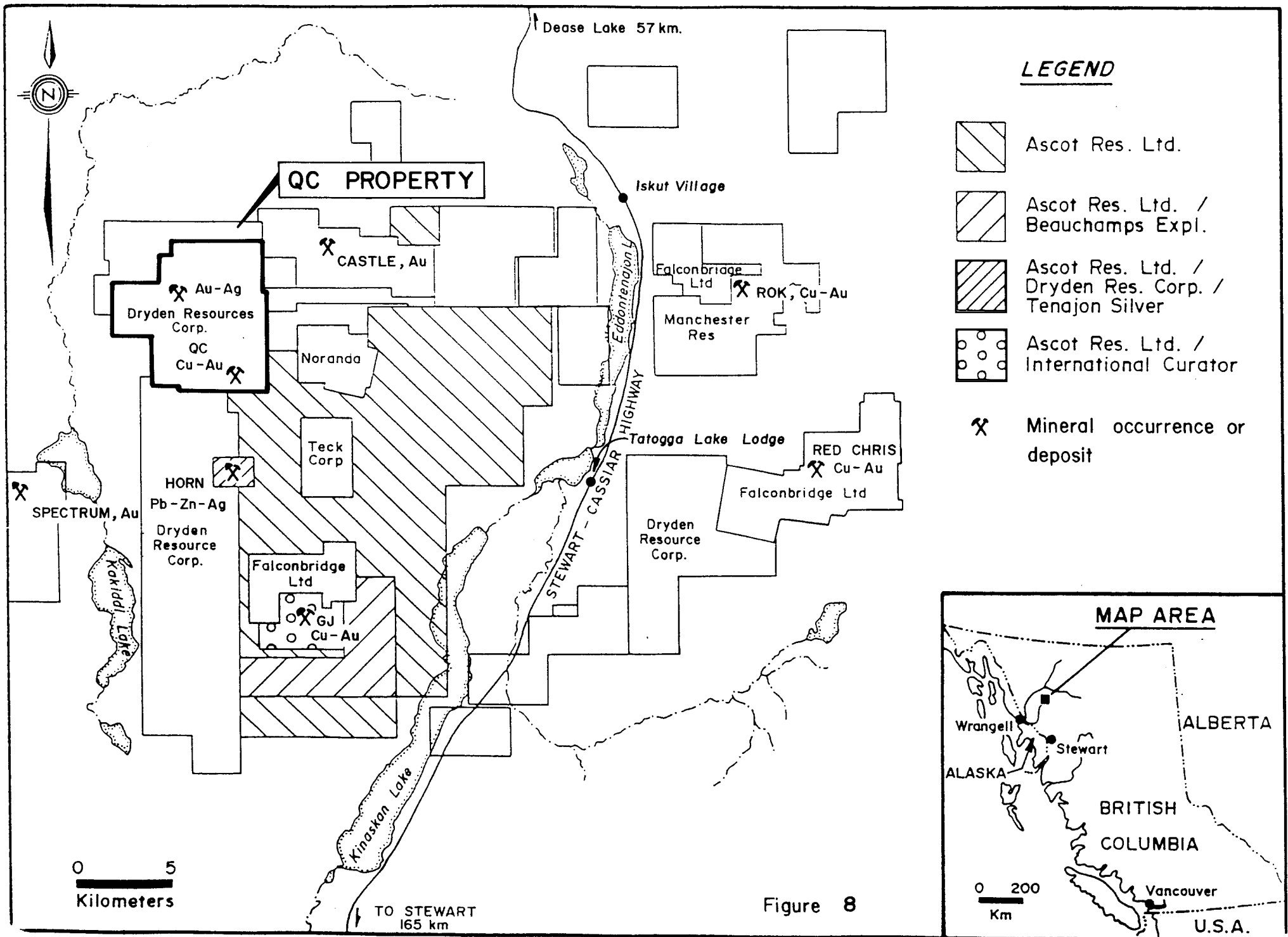
Intrusive rocks in the region are typically fine to medium grained porphyritic to equigranular diorite, granodiorite, monzodiorite, monzonite, and syenite plutons that are coeval with the Upper Triassic to Middle Jurassic volcanic assemblages. Many of the smaller alkalic plutons,

dated at 185-195 Ma (Schmitt, 1977; Logan and Koyanagi, 1989) are associated with porphyry Cu-Au or precious metal vein systems. The most significant porphyry Cu-Au deposits are listed in Table 2.

| Deposit | Reserves mil. tonnes | % Cu | g/t Au | % Mo |
|--------------|-------------------------|------|--------|-------|
| Galore Creek | 1,381 | 0.60 | 0.40 | |
| Schaft Creek | 1,000 | 0.40 | 0.32 | 0.022 |
| Red Chris | 41 | 0.56 | 0.30 | |

Within the immediate area of the Q.C. claims (Figure 8), the most significant areas of mineralization are:

- a) The Red Chris alkalic porphyry Cu-Au deposit, located 31 km east-southeast of the Q.C. claims.
- b) The GJ porphyry copper-gold prospect, located on Groat Creek 12 km south of the Q.C. claims. This showing was discovered in 1964 by Conwest Exploration Co. Ltd. Most recently, this property was explored by Ascot Resources Ltd. (Mehner, 1991b).
- c) The Rok porphyry Cu-Au prospect, located 26 km east of the Q.C. claims, was discovered by Texasgulf Inc. in 1975. This property was drilled in 1990 and 1991 by Consolidated Carina Resources Ltd. The best intersection was 27.87 metres grading 1.765% Cu and 2.26 g/t Au (Mehner, 1990).
- d) The Spectrum gold vein system, located on the east slopes of Mt. Edziza, 14 km southwest of the Q.C. claims. Recent drill intersections by Columbia Gold Mines include 14.4 metres (47.2 feet) of 13.03 g/t (0.38 oz/t) Au (Northern Miner, August 19, 1991).



- e) The Castle gold prospect located 7.5 km northeast of the Q.C. claims, where Teck Corp. and Triumph Resources Ltd. have identified a pyritic and sericitic shear zone that is 7 km long and up to 250 m wide that has yielded Au assays up to 137.2 g/t (4.0 oz/t) from grab samples and 31.9 g/t (0.93 oz/t) from one metre chip samples (Brock, 1990).
- f) The Horn silver prospect, located 5 km south of the Q.C. claims was discovered in 1964 by Conwest. This showing comprises a vein system that has returned values up to 378.6 g/t (11.04 oz/ton) Ag from grab samples over an area of 45 x 4.2 metres (Phendler, 1980).

3.2 Property Geology

The Q.C. claims are underlain by an interlayered sequence of mafic, intermediate and felsic volcanics as well as chemical or clastic sediments that are intruded by several irregular diorite sills and plugs (Map 1). The volcanics are interpreted to belong to the Stuhini Group (Upper Triassic) as they are capped to the south of the Q.C. by a fossiliferous limy sandstone with Lower Jurassic fauna (Haggart et al., 1991). At this locality, felsic volcanics (Toodoggone?) conformably overlie the sandstone. The possible Upper Triassic volcanic assemblage, however, lacks the large augite phenocrysts that are elsewhere diagnostic of potassic Upper Triassic volcanics of the North American Cordillera (eg., Mortimer, 1986). The clastic sedimentary assemblage is interpreted to be coeval with the volcanics. One distinct package of clastic sediments, located in the southwest part of the map area, is interpreted as belonging to either of the late Jurassic to early Cretaceous Bowser Lake or Sustut Groups.

3.2.1 Rock Types

The oldest lithologic unit identified on the Q.C. claims is a sequence of thick to thin bedded intermediate to felsic tuffs and minor interlayered argillite. This unit underlies much of the southern part of the claim group, south of Quash Creek. The best exposures are on either sides of Bruns and Rusty Creeks (Map 2). Weathered surfaces are medium to dark green to rusty red, depending on pyrite content. Fresh surfaces are medium to dark green. These

rocks are aphanitic to very fine grained. Thin, local and minor interbeds of feldspar crystal tuff occur along the east side of Rusty Creek. Bedding is difficult to discern in much of this unit, however, where exposures are adequate, individual beds range in thickness from <1 cm to >1 metre; most are <20 cm thick. Bedding attitudes are variable and trends range from northwest with dips of 35-55°E along the east side of Rusty Creek to east-west with dips of 40-75°N along the west side of Rusty Creek (Map 2). These rocks are interpreted to represent ash and dust tuffs and reworked tuffs, related to Late Triassic explosive volcanism.

Overlying the intermediate to felsic tuffs in the southeastern and southwestern Q.C. claims and dominating the area north of Quash Creek are thick-bedded, heterolithic, mafic lapilli tuffs and lesser tuffs (Map 2, 9). These rocks vary from medium to dark green to medium to dark maroon on fresh and weathered surfaces. They are characterized by the presence of lapilli-size (2-64 mm), subrounded to subangular mafic clasts. Individual clasts are mainly aphyric or plagioclase-phyric; hornblende-phyric clasts are less common. These rocks are poorly sorted and usually matrix-supported. They are interpreted to represent pyroclastics that have been redeposited as lahars and debris flows.

Chemical sediments comprise a very minor component of the geology on the Q.C. claims. Thin (<2 metres thick) interbeds of pyritic chert occur within the volcanic sequence in the south part of the property. One unit of chert, in the southwest corner of the Q.C.-3 claim and the southeast corner of the Q.C.-7 claim, is thick enough (10-20 metres) to be a mappable unit (Map 2). This chert unit contains 5-7% disseminated pyrite. Individual beds in this unit are 2-10 cm thick.

Clastic sediments occur as minor, thin interbeds within the volcanic sequence and as relatively thick, mappable units along Quash Creek and in the southwest corner of the Q.C.-7 claim (Maps 2 and 9). A thick, well bedded greywacke-siltstone-argillite package, interpreted as a turbidite sequence, occurs along and on both sides of Quash Creek. These sediments appear to be conformable with the underlying volcanics. Bedding ranges in thickness from <1 cm to about 1 metre. Bedding attitudes are variable, reflecting the highly folded nature of this unit. A distinct conglomerate-greywacke-siltstone-argillite assemblage, also interpreted as a turbidite sequence, occurs in the southwest corner of the Q.C.-7 claim. These greywackes are

magnetic (detrital magnetite) and coarser units are characterized by the presence of distinctive, rounded, chert pebbles. Bedding is <1 cm to about 1 metre thick; bedding attitudes are variable, trending northeast to southeast with moderate (50-65°) dips to the southeast and northwest respectively. The bedding in this unit is discordant with respect to the bedding in the structurally overlying mafic volcanics. A distinct zone of iron carbonate alteration at the contact between these sediments and the overlying volcanics may reflect a structural discontinuity, perhaps a thrust fault (Map 2). These sediments may represent an outlier of either the Bowser Lake or Sustut Groups.

Fine grained felsic volcanics/intrusives (formerly mapped as "felsite" (Delaney, 1988)) occur north of Quash Creek, in the vicinity of the Vein zone (Map 9). These felsic rocks are most likely narrow, discontinuous intrusions of unknown age.

Narrow (1 - 3 m), strongly magnetic, mafic-intermediate dykes of unknown age intrude mafic to intermediate volcanics near the Vein zone. These are too narrow to be shown on the geological map.

Several irregular sill- to dyke- to plug-like bodies of fine to medium-grained hornblende ± biotite diorite occur on the Q.C. claims. These intrusions range from dykes less than 1 metre wide to an irregular 2.5 km² plug (Map 1). Diorites are light to medium grey on fresh and weathered surfaces. Larger intrusions are medium grained equigranular and contain 40-55% plagioclase, 15-25% hornblende, 0-15% biotite, and 0-trace magnetite. A very fine grained quartz-feldspar mosaic occurs as a minor interstitial component in these equigranular rocks. Smaller dykes and border phases to some larger plugs are porphyritic with 10-25% hornblende, 0-15% biotite, and 15-40% plagioclase phenocrysts in a very fine grained quartz-feldspar groundmass. Primary K-feldspar has not been identified in any of these intrusive bodies, either through field observations or by staining. Similarly, primary quartz is absent from this suite of intrusions. Diorite intrusions contain well-developed joint sets; spacing between individual joints varies between 3-5 cm and 1 metre.

3.2.2 Metamorphism and Alteration

Over much of the property, alteration is restricted to local chlorite replacement of mafic minerals and epidote or calcite fracture fillings which may be due, in part, to regional metamorphism. The volcanics have been thermally metamorphosed to hornfels adjacent to the diorite intrusions. A zone of iron carbonate alteration occurs at the contact between turbiditic sediments and mafic volcanics in the southwest part of the claims. This alteration is interpreted to be related to a shallow dipping fault zone that marks the contact between the two lithologies.

The alteration intensity increases in the vicinity of the diorite intrusions. As this alteration appears to be related to mineralization on the Q.C. claims, it will be discussed below (Section 3.3.2).

3.2.3 Structure

Megascopic folding of the greywacke-siltstone-argillite sequence is readily observable on both sides of Quash Creek valley. Folds are tight to open. Their magnitude can be measured in metres to tens of metres. In the creek immediately west of Bruns Creek, these sediments have been tightly folded about several variably trending axial surfaces (Map 2). The greywacke-siltstone-argillite sequence in the southwest part of the claims has been folded about a large scale, northeast-trending synclinal axial surface (Map 2). Folding is not readily apparent within the volcanic sequence. However, changes in bedding attitudes in tuffs suggests a large scale northeast-trending axial surface along Bruns Creek (Map 2).

Lineaments with a variety of orientations, are apparent on aerial photographs and topographic maps on the Q.C. claims (Map 1). The most pronounced of these is the northwest-trending Quash Creek. This may represent a fault of unknown displacement or sense of movement, however lithologies across the creek are not obviously displaced. North-south trending lineaments in the cliffs on the east side of Rusty Creek may be related to jointing. An east-west trending lineament trends across Q.C.-5 and crosses Quash Creek with no apparent displacement of lithologies.

Stratigraphic units in the southwest part of the Q.C.-3 claim are fault-offset by metres to tens of metres. Faults with similar magnitudes are common at the Vein Showings where apparent offsets of individual veins are on the order of <10 cm to >50 metres (Map 16). Small-scale faulting, with displacements of <1 to 10-20 cm are common throughout the property. They are of variable orientation and offset all other structures and veins.

The supracrustal rocks on the Q.C. claims lack a penetrative fabric. Local, narrow (<1 metre), discontinuous shear zones have been recognized at several locations.

3.3 Mineralization

3.3.1 Mineralization

Two basic styles of mineralization occur on the Q.C. claims; bulk tonnage porphyry Cu-Au and high grade, vein Au-Ag-Cu-Zn mineralization (Figure 5). Porphyry mineralization is restricted to the southern part of the property on the Q.C.-3, 4 and 9 claims (Figure 7). Vein type mineralization occurs throughout the property and appears to be related to structures that postdate the porphyry mineralization. The best area of vein mineralization identified to date is at the Vein Zone on the Q.C.-1 and 9 claims (Figure 6).

Porphyry Cu-Au mineralization is generally restricted to diorite intrusions and to volcanics within 30 metres of diorite-volcanic contacts. Two zones of porphyry-style mineralization were documented during surface mapping. From east to west these are referred to as the "HBA Zone" and the "Cliff Zone" (Map 2). A third zone, referred to as the "Al Zone" occurs in the Axe claims to the immediate south of Q.C. 7 (Map 2). All have similar styles of mineralization; pyrite and chalcopyrite are the sole sulphides. Drilling in 1970, 1990, and 1991 intersected similar mineralization to the north and east of the HBA zone and to the north of the Cliff zone (Figure 5). Pyrite contents range from 2-10%, chalcopyrite ranges from 0-1%. Pyrite occurs with chalcopyrite as well as in a chalcopyrite-absent peripheral "shell" that extends up to 200 metres away from copper mineralization. The highlights of the surface grab and chip sampling and drill hole intersections are presented in Table 3:

| Zone | Type | Width (m) | % Cu | ppb Au |
|-------|--------------|-----------|-------|--------|
| Al | grab | | 0.29 | 28 |
| | grab | | 0.49 | 40 |
| | grab | | 0.37 | 23 |
| | grab | | 0.43 | 16 |
| | grab | | 0.13 | 15 |
| Cliff | chip | 36 | 0.249 | 76 |
| HBA | chip | 20 | 0.216 | 37 |
| North | DDH-Q.C.91-1 | 75.5 | 0.263 | 50 |
| | DDH-Q.C.91-2 | 66.0 | 0.183 | 35 |
| | DDH-Q.C.91-3 | 125.2 | 0.134 | 15 |
| South | DDH-70-2 | 148.1 | 0.13 | trace |
| | DDH-70-4 | 322.8 | 0.13 | trace |
| | DDH-70-5 | 300.8 | 0.12 | trace |

A noteworthy feature of the porphyry-style mineralization on the Q.C. property is the lack of accompaniment of gold with copper (Table 3), despite apparent widespread covariance of these two elements in soils and talus fines (Maps 4 and 5). Anomalous values of gold in rocks are restricted to narrow quartz \pm carbonate \pm arsenopyrite \pm chalcopyrite \pm sphalerite veins that occur throughout the Q.C. claims. Most of these veins are less than 20 cm wide. The widest (ca. 2.5 m wide) occurs at the Upper Gordon Showing (see below). In the vicinity of the Porphyry zone, many of these veins trend in a general north-south direction with steep dips. Three possibilities exist to explain the enigmatic relationship between high Au in soils and lack thereof in rocks:

- 1) A covariant Cu-Au bedrock source exists but as yet has not been discovered.
- 2) High Au in soil geochemistry reflects enrichment over background rock values.
- 3) High Au in soil geochemistry is the result of weathering of narrow Au-bearing quartz veins.

While 1) is a possibility, it is considered unlikely since extensive surface mapping, prospecting and diamond drilling have not yet encountered an area of widespread Cu-Au mineralization. The high gold in soil (100-1000 ppb Au) values would require a 10-20x enrichment over background rock values (<50 ppb Au). This would require either or both of mechanical or chemical processes. Mechanical concentration, through surface winnowing by wind and downward movement by water, is considered unlikely since soil profiles in several pits showed that gold values remained constant with depth and size fraction of soil (tables in Appendix X). Chemical concentration through incorporation in limonite, a known gold "sink", has not been evaluated, however soils on the Q.C. claims are generally limonitic. The occurrence of narrow, discontinuous gold-bearing veins throughout the property, including in the vicinity of the porphyry Cu mineralization, suggests that they have made significant contributions to the widespread gold soil anomalies on the property.

The other style of mineralization on the property is a number of gold-bearing quartz \pm pyrite \pm carbonate \pm arsenopyrite \pm sphalerite \pm chalcopyrite \pm barite veins that tend to be narrow (<1 metre wide) and discontinuous. Most of these veins occupy brittle fractures, very few are associated with shear zones. Those that are shear related are narrow and discontinuous.

Rock sampling to date of vein mineralization has yielded these significant values:

| Sample No. | Year | Type | Width (m) | g/t Au | g/t Ag | % Cu | % Zn |
|-----------------------------|------|--------|-----------|--------|--------|------|-------|
| Upper Gordon Showing | | | | | | | |
| U. Gordon | 1991 | DDH-4 | 3.5 | 19.9 | 202.3 | 3.08 | 5.31 |
| 1887-89 | 1991 | Trench | 1.0 | 17.0 | 166.3 | 0.64 | 1.99 |
| 1886 | 1991 | Trench | 0.6 | 57.8 | 192.2 | 2.72 | 15.65 |
| 1880-83 | 1991 | Trench | 3.0 | 8.2 | 84.9 | 0.35 | 0.63 |
| 1938 | 1991 | Grab | | 62.0 | 178.9 | 0.09 | 0.10 |
| 1830 | 1991 | Trench | 0.08 | 23.2 | 90.5 | 0.22 | 36.70 |
| 1939 | 1991 | Trench | 1.0 | 89.5 | 194.8 | 0.44 | 0.60 |
| 48054 | 1990 | Trench | 1.0 | 100.1 | | | |
| 48055 | 1990 | Trench | 1.0 | 13.2 | | | |
| 48056 | 1990 | Trench | 1.0 | 41.5 | | | |
| 48057 | 1990 | Trench | 1.0 | 13.0 | | | |
| 48062,63 | 1990 | Trench | 1.2 | 9.7 | | | |

| TABLE 4 Significant Rock Sample Results from Vein Systems | | | | | | | |
|--------------------------------------------------------------|------|--------|-----------|--------|--------|------|------|
| Sample No. | Year | Type | Width (m) | g/t Au | g/t Ag | % Cu | % Zn |
| Gordon's Showing | | | | | | | |
| 29612 | 1988 | Trench | 1.6 | 14.7 | 61.4 | 0.84 | 2.64 |
| 29613 | 1988 | Trench | 1.4 | 23.3 | 233.5 | 1.08 | 4.11 |
| Main Showing | | | | | | | |
| R-43 | 1988 | Trench | 0.4 | 7.4 | | | |
| R-24 | 1988 | Trench | 0.4 | 7.5 | 259.3 | | |
| R-27 | 1988 | Trench | 1.3 | 13.1 | 100.1 | | |
| R-22 | 1988 | Trench | 0.7 | 8.1 | 533.3 | | |
| R-19 | 1988 | Trench | 0.7 | 24.6 | 88.5 | | |
| 29255 | 1988 | Trench | 0.4 | 11.5 | | | |
| Top Showing | | | | | | | |
| 0100 | 1988 | Trench | 1.0 | 2.9 | | | |
| Ankerite Showing | | | | | | | |
| R-17 | 1988 | Chip | 0.5 | 3.8 | 50.1 | | |
| Red Zone | | | | | | | |
| 1819 | 1991 | Chip | 0.08 | 16.1 | 87.3 | 1.20 | 0.10 |
| 1820 | 1991 | Chip | 0.20 | 1.9 | 5.8 | 0.04 | 0.18 |
| 1821 | 1991 | Chip | 0.08 | 2.0 | 2.5 | 0.02 | 0.01 |
| 2044 | 1991 | Chip | 0.10 | 5.6 | 6.9 | 0.04 | 0.11 |
| 2045 | 1991 | Chip | 0.30 | 4.9 | 5.5 | 0.02 | 0.02 |
| 2213 | 1991 | Grab | | 19.0 | 11.0 | 0.17 | 0.01 |
| 2217 | 1991 | Grab | | 3.1 | 3.8 | 0.14 | 0.01 |
| 2218 | 1991 | Grab | | 12.1 | 12.2 | 0.13 | 0.01 |
| 2236 | 1991 | Grab | | 4.6 | 0.1 | 0.04 | 0.15 |
| 49022 | 1990 | Grab | | 9.0 | - | 0.17 | - |
| Q.C. Main Grid | | | | | | | |
| 1905 | 1991 | Chip | 1.30 | 9.7 | 7.4 | 0.25 | 0.45 |
| 1915 | 1991 | Chip | 0.30 | 1.7 | 3.4 | 0.11 | 0.13 |
| 1917 | 1991 | Chip | 0.35 | 21.1 | 15.0 | 0.07 | 0.50 |
| 1922 | 1991 | Chip | 2.00 | 5.2 | 4.9 | 0.11 | 0.01 |
| 1929 | 1991 | Chip | 0.10 | 1.0 | 5.0 | 0.01 | 0.00 |
| 1931 | 1991 | Grab | | 2.4 | 27.8 | 0.44 | 0.77 |
| 1933 | 1991 | Chip | 0.40 | 4.1 | 13.2 | 0.57 | 0.04 |
| 1879 | 1991 | Chip | 1.00 | 1.0 | 1.2 | 0.06 | 0.03 |
| 2001 | 1991 | Grab | | 12.2 | 40.5 | 0.36 | 0.46 |
| 2064 | 1991 | Chip | 0.75 | 3.7 | 3.4 | 0.05 | 0.74 |
| 2206 | 1991 | Grab | | 1.2 | 8.3 | 0.92 | 0.02 |
| 2207 | 1991 | Grab | | 7.6 | 12.6 | 0.25 | 0.09 |
| SS005 | 1990 | Grab | | 9.0 | 10.6 | 0.10 | 0.05 |
| 48084 | 1990 | Chip | 0.90 | 2.0 | 11.0 | 0.16 | 0.01 |
| 49013 | 1990 | Chip | 2.10 | 1.0 | 1.5 | 0.07 | 0.01 |
| Q.C. West Grid | | | | | | | |
| 2078 | 1991 | Chip | 0.20 | 5.6 | 7.9 | 0.16 | 6.12 |
| 2305 | 1991 | Grab | | 3.6 | 27.3 | 0.03 | 0.47 |
| 2313 | 1991 | Float | | 14.1 | 152.5 | 0.02 | 0.01 |
| 012 | 1989 | Grab | | 10.1 | 11.0 | 0.03 | 0.06 |

| Sample No. | Year | Type | Width (m) | g/t Au | g/t Ag | % Cu | % Zn |
|---------------------|------|-------|-----------|--------|--------|------|------|
| Orange Zone | | | | | | | |
| 1947 | 1991 | Grab | | 3.9 | 104.8 | 0.04 | 1.77 |
| 1948 | 1991 | Grab | | 63.5 | 1.8 | 0.09 | 1.67 |
| Q.C.-3 | | | | | | | |
| 1984 | 1991 | Float | | 1.5 | 66.3 | 0.17 | 0.80 |
| Plateau Zone | | | | | | | |
| 1961 | 1991 | Chip | 5.00 | 1.0 | 0.1 | 0.07 | 0.00 |
| 1977 | 1991 | Chip | 1.70 | 1.0 | 0.1 | 0.09 | 0.00 |
| 2402 | 1991 | Chip | 0.25 | 4.5 | 5.8 | 0.55 | 0.01 |
| 1975 | 1991 | Float | | 2.4 | 0.6 | 0.00 | 0.00 |
| Purple Zone | | | | | | | |
| 29364 | 1988 | Float | | 5.5 | 10.0 | -- | -- |

The majority of these veins are narrow and discontinuous. The only ones considered to warrant further work are located at the Vein Zone which is situated 5.5 km northwest of the Porphyry Zone. Five vein systems (Upper Gordon, Gordon's, Main, Top and Ankerite) comprise the Vein Zone (Table 4) (Maps 9, 17, 18, 19, 20, 21). The most prospective of these is the Upper Gordon Showing where 19.9 g/t Au (2.45 m true width) has been intersected in drill hole Q.C.91-4. The Upper Gordon showing comprises a number of quartz ± carbonate ± pyrite ± sphalerite ± chalcopyrite veins that are exposed in a series of trenches along a strike length of 75 metres (Map 17). Arsenopyrite is a ubiquitous but minor constituent. The sulphides are in turn cut by late calcite veins. At the east end of this exposure the vein system is broken by a number of faults with small displacements (Map 17). The vein system changes dramatically both in outcrop and drill core along strike to the west. The central part of the exposure comprises several narrow (<10 cm), sphalerite ± quartz ± chalcopyrite veins. High gold values are restricted to the veins; wallrock contains <100 ppb gold. This disjointed nature of the vein suggests either offset by faulting or that the vein developed heterogeneously in a series of en echelon segments. The latter interpretation is preferred since DDH-Q.C.91-5, while intersecting similar styles of mineralization failed to intersect the width of mineralization encountered in DDH-Q.C.91-4 despite being drilled well beyond the strike extension of the vein intersected in DDH-Q.C.91-4.

3.3.2 Alteration

Alteration over much of the property, is restricted to local chlorite replacement of mafics and epidote and calcite fracture fillings related to minor faulting or intrusive contacts.

In the vicinity of the Porphyry zone, alteration becomes significantly more intense. Here, an east-west trending propylitic alteration zone measures at least 4 km long by 0.80 km wide (Map 2). Alteration intensity, including the presence of weak quartz veining, minor clay replacement of feldspars and minor secondary potassium feldspar flooding increases with proximity to the diorite intrusive contact.

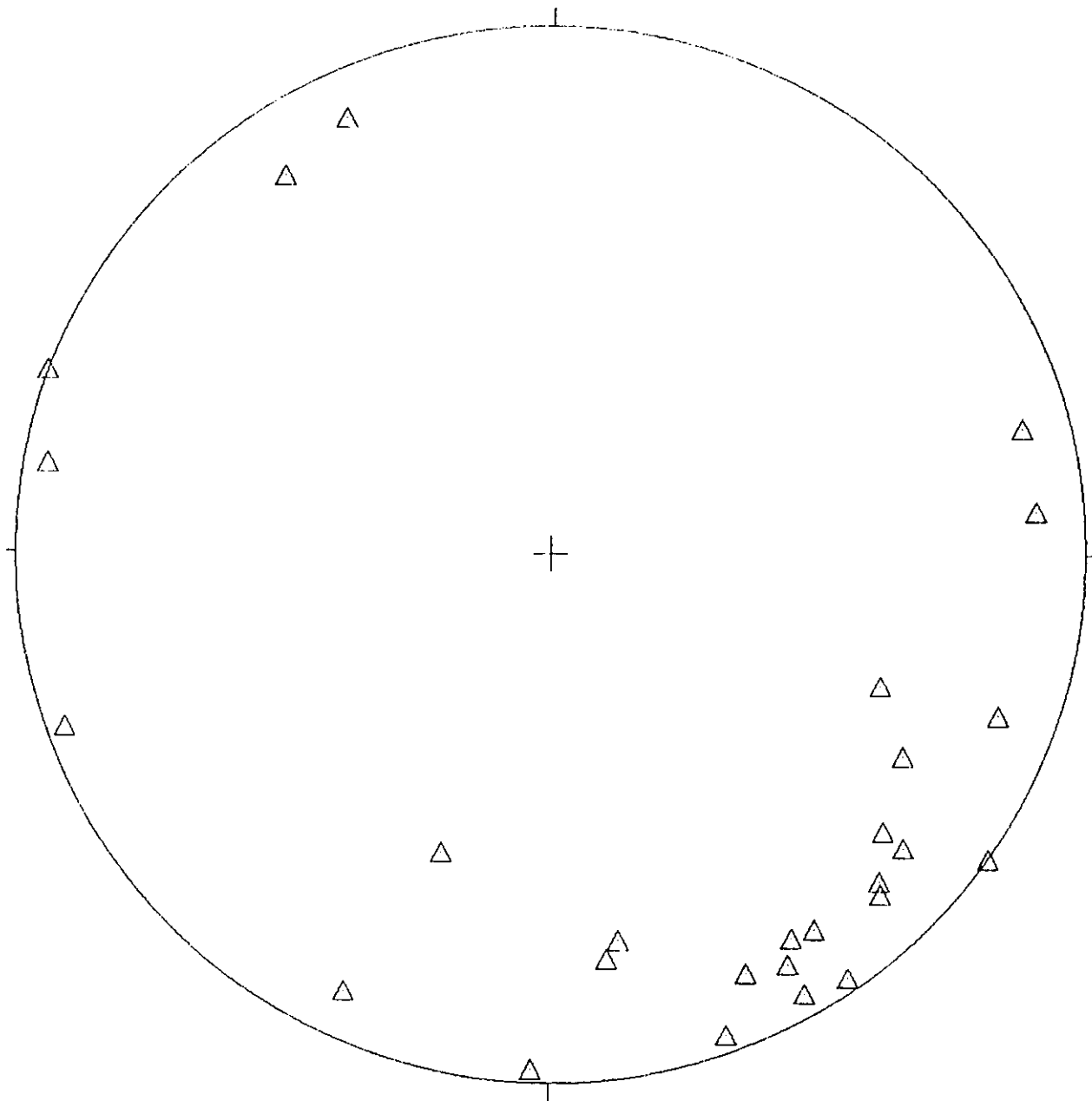
Iron carbonate alteration occurs in relatively narrow zones (<20 m wide) within mafic volcanics and diorite throughout the property. This alteration is commonly developed peripheral to quartz-carbonate veins.

3.3.3 Ore Controls

Chalcopyrite + pyrite mineralization at the Porphyry Zone occurs as fine disseminations, fracture coatings and with <5 cm wide quartz veins. The bulk of the copper mineralization occurs within small diorite intrusions and within surrounding volcanic wallrock, within 30 metres of diorite. Mineralization has been emplaced into brittle fractures that exhibit local preferred orientations. At the Cliff showing, the average trend of quartz + chalcopyrite + pyrite veins is 244° with steep (76°) northwest dips (Figures 9 and 10). On the other hand, the average trend of quartz + chalcopyrite + pyrite veins at the HBA showing is 178° with steep dips (74°) to the west (Figures 11 and 12).

Mineralization at the Vein Zone occurs as quartz + carbonate + sulphide veins emplaced into brittle fractures within diorite and mafic volcanics. Individual veins have variable trends (110° - 140°) with dips of 40°-80° to the northeast. Host rocks display variable degrees of iron carbonate alteration, which may have contributed to ground preparation by "stiffening" the host rock. These rocks exhibit only minor and local shearing. The veins themselves appear to have been subsequently broken up by small-scale brittle faults. Larger scale offsets at the

Quartz-chalcopyrite veins; Cliff Zone (QC)
North

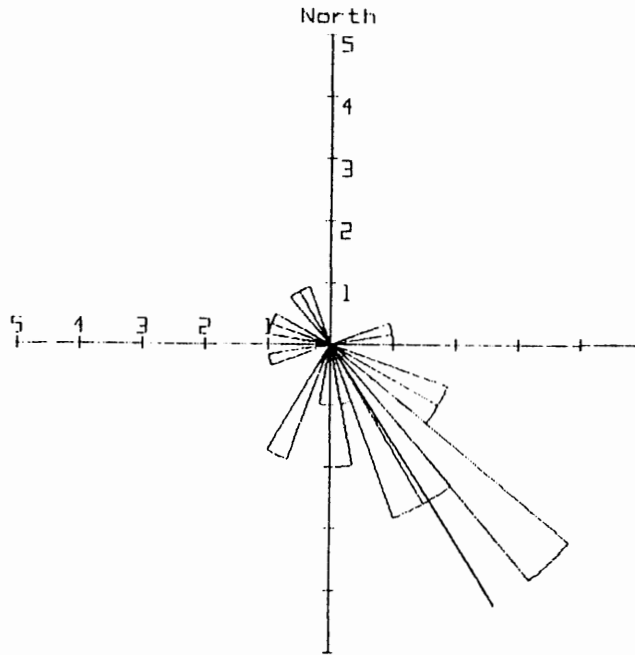


EQUAL AREA PROJECTION
Quartz-chalcopyrite veins; Cliff Zone (QC)
SPLOT by Darton Software

| | Symbol |
|-----------------|--------|
| 28 Points | △ |
| 28 Points Total | |

Figure 9

ROSE DIAGRAM OF POLE TREND FOR
Quartz-chalcopyrite veins; Cliff Zone (QC)



28 Data Points
Single Line Shows Vector Mean

Circular Mean = 149 degree(s)
Angular Dev. = 26.42
Resultant = 0.575

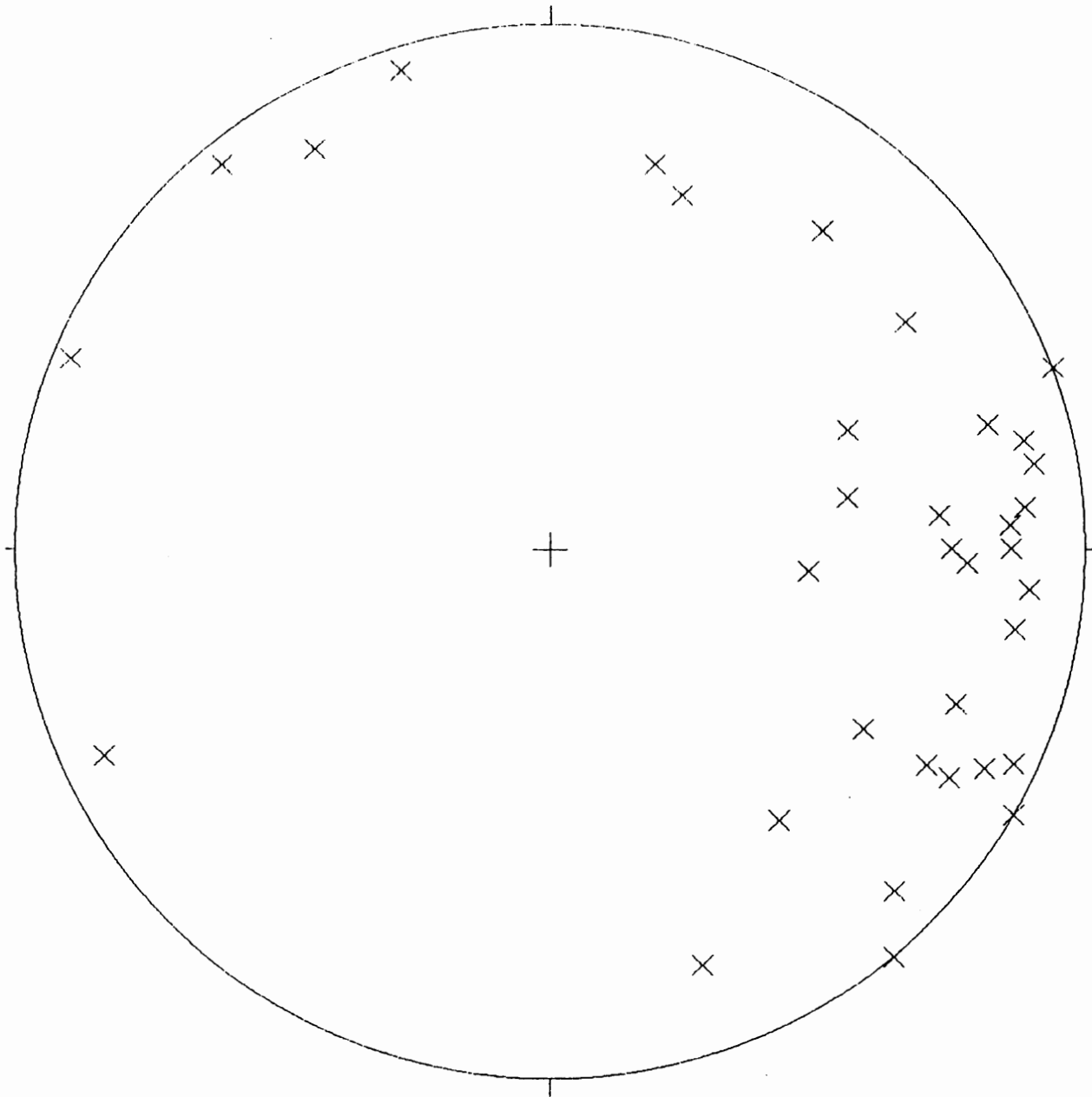
BREAKDOWN OF 10x SECTORS:

| Range (deg) | Number | % of Total | 3 | Range (deg) | Number | % of Total |
|-------------|--------|------------|---|-------------|--------|------------|
| 0- 9 | 0 | 0 | 3 | 180-189 | 1 | 4 |
| 10- 19 | 0 | 0 | 3 | 190-199 | 0 | 0 |
| 20- 29 | 0 | 0 | 3 | 200-209 | 2 | 7 |
| 30- 39 | 0 | 0 | 3 | 210-219 | 0 | 0 |
| 40- 49 | 0 | 0 | 3 | 220-229 | 0 | 0 |
| 50- 59 | 0 | 0 | 3 | 230-239 | 0 | 0 |
| 60- 69 | 0 | 0 | 3 | 240-249 | 0 | 0 |
| 70- 79 | 1 | 4 | 3 | 250-259 | 1 | 4 |
| 80- 89 | 1 | 4 | 3 | 260-269 | 0 | 0 |
| 90- 99 | 0 | 0 | 3 | 270-279 | 0 | 0 |
| 100-109 | 0 | 0 | 3 | 280-289 | 1 | 4 |
| 110-119 | 2 | 7 | 3 | 290-299 | 1 | 4 |
| 120-129 | 2 | 7 | 3 | 300-309 | 0 | 0 |
| 130-139 | 5 | 18 | 3 | 310-319 | 0 | 0 |
| 140-149 | 3 | 11 | 3 | 320-329 | 1 | 4 |
| 150-159 | 3 | 11 | 3 | 330-339 | 1 | 4 |
| 160-169 | 1 | 4 | 3 | 340-349 | 0 | 0 |
| 170-179 | 2 | 7 | 3 | 350-360 | 0 | 0 |

SPLIT by Darton Software

Figure 10

Quartz-chalcopyrite veins, HBA Zone, QC
North



EQUAL AREA PROJECTION

Quartz-chalcopyrite veins, HBA Zone, QC

SPLIT by Darton Software

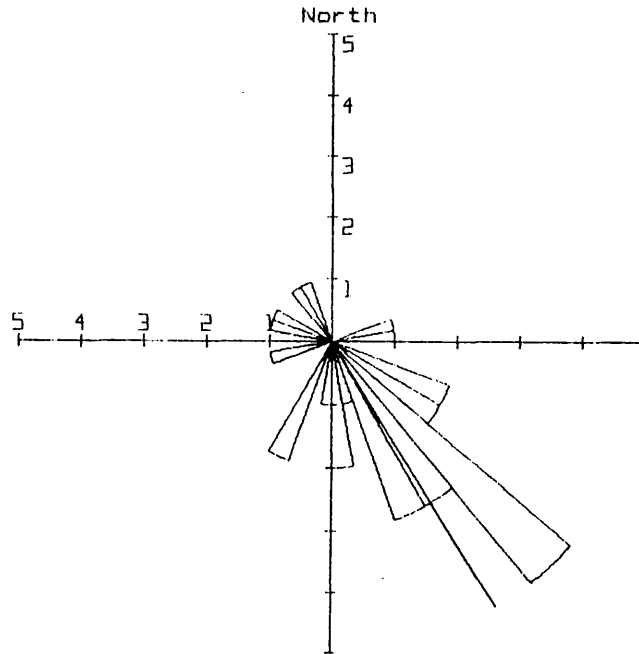
Symbol

35 Points x

35 Points Total

Figure II

ROSE DIAGRAM OF POLE TREND FOR
Quartz-chalcopyrite veins; Cliff Zone (QC)



20 Data Points
Single Line Shows Vector Mean

Circular Mean = 149 degree(s)
Angular Dev. = 26.42
Resultant = 0.575

BREAKDOWN OF 10x SECTORS:

| Range (deg) | Number | % of Total | 3 | Range (deg) | Number | % of Total |
|-------------|--------|------------|---|-------------|--------|------------|
| 0- 9 | 0 | 0 | 3 | 180-189 | 1 | 4 |
| 10- 19 | 0 | 0 | 3 | 190-199 | 0 | 0 |
| 20- 29 | 0 | 0 | 3 | 200-209 | 2 | 7 |
| 30- 39 | 0 | 0 | 3 | 210-219 | 0 | 0 |
| 40- 49 | 0 | 0 | 3 | 220-229 | 0 | 0 |
| 50- 59 | 0 | 0 | 3 | 230-239 | 0 | 0 |
| 60- 69 | 0 | 0 | 3 | 240-249 | 0 | 0 |
| 70- 79 | 1 | 4 | 3 | 250-259 | 1 | 4 |
| 80- 89 | 1 | 4 | 3 | 260-269 | 0 | 0 |
| 90- 99 | 0 | 0 | 3 | 270-279 | 0 | 0 |
| 100-109 | 0 | 0 | 3 | 280-289 | 1 | 4 |
| 110-119 | 2 | 7 | 3 | 290-299 | 1 | 4 |
| 120-129 | 2 | 7 | 3 | 300-309 | 0 | 0 |
| 130-139 | 5 | 18 | 3 | 310-319 | 0 | 0 |
| 140-149 | 3 | 11 | 3 | 320-329 | 1 | 4 |
| 150-159 | 3 | 11 | 3 | 330-339 | 1 | 4 |
| 160-169 | 1 | 4 | 3 | 340-349 | 0 | 0 |
| 170-179 | 2 | 7 | 3 | 350-360 | 0 | 0 |

SPLDT by Darton Software

Figure 12

Upper Gordon showing are due either to post-emplacement displacement or to emplacement of the vein system into an en echelon series of fractures (Map 17).

3.4 Economic Potential

There are several areas at the Porphyry zone where further copper mineralization may be found, in particular to the east and west of the mineralized zone intersected in DDH-Q.C.-91-1. However, the copper mineralization encountered to date is not associated with the elevated gold values commonly found in B.C. alkaline porphyry Cu/Au deposits.

At the Upper Gordon Showing, DDH-Q.C.-91-4 intersected a vein that is approaching economic grades and width. This showing warrants further evaluation, both along strike and down-dip.

4.0 EXPLORATION AND DEVELOPMENT

4.1 Reconnaissance and Research

The 1991 field program was devoted solely to property work on the Q.C. claims, and the adjacent Axe and Cool claims (Morrice, 1991a, b). All of the available information from the previous exploration programs was collated and interpreted prior to the 1991 field season.

4.2 Grid Establishment

Two grids were established on the south part of the claims to facilitate exploration of the known porphyry mineralization. Grids were established by compass and chaining with flagged wooden pickets placed at 50 metre intervals. Lines were not cut. Slope corrections were applied. The steep topography dictated grid orientation. The Main grid (Q.C.-4 claim) was established at right angles to the prominent gossanous, north-facing cliffs. Line 15000E, north of 10700N, follows an old cut line. The West grid was oriented to minimize potential gaps in the grid due to steep topography.

The Main grid, located on the Q.C.-4 claim, has a 1.13 km long baseline (10000N) oriented at 090°. A total of 8.26 km of grid lines, spaced 200 metres apart, were oriented at 000° (Map 2). Gaps in the grid correspond to inaccessible areas marked by north and west facing cliffs. Line 14700E was established to provide additional geophysics and mapping control in an area of known porphyry Cu-Au mineralization. Line 15400E was established with an orientation of 015° due to steep topography. The grid lines were tied in to Quash Creek.

The West grid is located in the south part of the Q.C.-3 and 7 claims, about 1 km west of the Main grid. The West grid crosses, to the south, onto the Axe claims, that are wholly owned by Dryden Resource Corporation (Map 1). The baselines of the West grid are 2.1 km long and oriented at 070°. Several offsets (10200N, 10000N, 9950N), and a 570 m gap were necessitated by cliffs. A total of 2.67 km of tielines were established, parallel to the baselines, to provide control for the grid. These tielines (10750N, 10900N) are offset in a similar fashion to the baselines due to topography. Grid lines totalling 14.91 kms were oriented at 340° and spaced at 200 metre intervals. Gaps and steps in the grid lines are due to steep topography. Line 10600E is located 250 m rather than 200 m west of 10800E due to a chaining error.

4.3 Prospecting

4.3.1 Program

Prospecting was an integral component of the 1991 field program. The areas outlined by the Main and West grids were prospected quite thoroughly, however extensive cliffs prevented some areas from being investigated. These inaccessible areas are of fairly limited extent and are not considered to be crucial in terms of the assessment of the economic potential of the property. Prospecting was also important in the evaluation of areas away from known mineralization.

The prospecting program was designed to follow-up soil or rock geochemical anomalies generated during this and earlier programs as well as to provide a blanket assessment of areas peripheral to the known mineralization.

4.3.2 Results

A number of narrow, discontinuous, gold-bearing quartz veins were discovered on the Q.C. claims by prospecting in 1991. The locations of these are indicated on Map 1. None are considered to be of further interest due to narrow widths and lack of continuity. In addition, areas of porphyry-style Cu mineralization were also found by prospecting. The most significant of these are the Cliff and HBA zones (Map 2, Figures 13 and 14).

4.4 Geological Mapping

4.4.1 Program

Geological mapping was conducted at a scale of 1:5000 over the Main and West grids and immediate surrounding areas; in an area peripheral to the Vein Zone; and, in a reconnaissance fashion, on the Q.C.-4 and 5 claims (Maps 1, 2 and 9). Control for mapping was provided by 1:5000 topographic base maps (enlarged from government 1:50000 topographic maps). The Main and West grids provided additional control for mapping. The steep topography, wide grid spacing, and inaccuracies of the topographic base maps hampered mapping control and necessitated spending considerable time and effort locating positions on the map. Tighter grid spacing would have had negligible effect; the steep topography was the overriding concern. Adequate control could only be provided by orthophotos.

Detailed mapping (1:100) was conducted at the Upper Gordon Showing (Maps 17 and 18).

Geological mapping has provided a framework within which to evaluate the mineralization on the Q.C. claims.

Z

| Sample # | Au ppb | Cu ppm |
|----------|--------|--------|
| 2103 | 51 | 2830 |
| 2102 | 50 | 2128 |
| 2101 | 16 | 1446 |
| 2039 | 8 | 829 |
| 2038 | 40 | 372 |
| 2037 | 10 | 415 |
| 2036 | 5 | 2051 |
| 2202 | 13 | 3215 |
| 2203 | 11 | 2485 |

| Sample # | Au ppb | Cu ppm |
|----------|--------|--------|
| 2115 | 11 | 2201 |
| 2114 | 19 | 2707 |
| 2113 | 20 | 2273 |
| 2112 | 17 | 1854 |
| 2111 | 27 | 1842 |
| 2110 | 41 | 1479 |
| 2109 | 131 | 2326 |
| 2108 | 86 | 2122 |
| 2107 | 40 | 2311 |
| 2106 | 42 | 2422 |
| 2105 | 27 | 2033 |
| 2104 | 12 | 1255 |

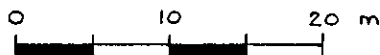
| Sample # | Au ppb | Cu ppm |
|----------|--------|--------|
| 2035 | 11 | 1815 |
| 2034 | 31 | 978 |
| 2033 | 49 | 3528 |
| 2032 | 20 | 2559 |
| 2031 | 30 | 2898 |
| 2030 | 4 | 1533 |
| 2029 | 2 | 832 |

| Sample # | Au ppb | Cu ppm |
|----------|--------|--------|
| 2028 | 22 | 1245 |
| 2027 | 49 | 544 |
| 2026 | 159 | 943 |
| 2025 | 77 | 605 |
| 2024 | 13 | 683 |
| 2023 | 69 | 816 |
| 2022 | 24 | 1934 |
| 2021 | 40 | 2433 |
| 2020 | 21 | 1600 |
| 2019 | 60 | 1183 |
| 2018 | 8 | 2154 |
| 2017 | 15 | 1949 |
| 2016 | 28 | 3293 |
| 2015 | 48 | 2673 |
| 2014 | 41 | 2796 |
| 2013 | 80 | 1555 |
| 2012 | 22 | 955 |
| 2011 | 5 | 455 |

LEGEND

I Rock chip sample

NOTE: Sample #'s prefixed by "91BC188R"



QC CLAIMS

HBA ZONE
CHIP SAMPLES

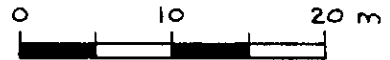
Figure 13

| SAMPLE # PREFIX | SAMPLE # | Au ppb | Cu ppm |
|--------------------|----------|-----------|-----------|
| 91D0188R | 2307 | 23 | 799 |
| | 2306 | 81 | 516 |
| | 2155 | 119 | 2034 |
| | 2154 | 42 | 1284 |
| | 2153 | 86 | 1882 |
| | 2152 | 238 | 2647 |
| | 2151 | 59 | 3016 |
| | 2150 | 58 | 2292 |
| | 2149 | 26 | 2039 |
| | 2148 | 35 | 735 |
| | 2147 | 29 | 1560 |
| | 2146 | 29 | 3951 |
| | 2145 | 26 | 2675 |
| 2144 | 168 | 6737 | |
| 2143 | 9 | 1184 | |
| 91C188R | 2142 | 12 | 641 |
| | 2141 | 33 | 668 |
| | 2140 | 23 | 245 |
| | 2139 | 104 | 914 |
| | 2138 | 52 | 1006 |
| | 2137 | 17 | 762 |
| | 2136 | 11 | 660 |
| | 2135 | 16 | 801 |
| | 2134 | 27 | 1217 |
| | 2133 | 30 | 1172 |
| | 2132 | 4 | 274 |
| | 2131 | 29 | 2021 |
| 2130 | 42 | 1604 | |
| 2129 | 198 | 1780 | |
| 2128 | 20 | 673 | |
| 2127 | 13 | 145 | |
| 2126 | 136 | 999 | |



LEGEND

I Rock chip sample



QC CLAIMS
CLIFF ZONE
CHIP SAMPLES

Figure 14

4.5 Geochemical Work

4.5.1 Program

During the 1991 field season, one stream silt, 1307 soil and 332 rock samples were collected by Keewatin Engineering Inc. from the Q.C. claims. All samples were sent to Min-En Laboratories Ltd. in Smithers, B.C. where they were processed and analyzed for gold. Pulps were then forwarded to Min-En Laboratories Ltd. in Vancouver for ICP analysis for Cu, Pb, Zn, Ag, As, Sb and Mo. Analytical procedures used by Min-En Laboratories Ltd. are outlined in Appendix III.

The soil samples were collected from the Main and West grids at the Porphyry Zone, from grid extensions at the Vein Zone and from contour soil traverses at several locations on the property (Maps 1, 3b and 10b). Sample spacing ranged from 10-50 metres; most were at 25 metre spacing. The samples were taken with the aid of a mattock. Wherever possible, samples were taken from the "B" soil horizon and placed in Kraft sample bags. Where the "B" horizon was not developed, samples were taken of whatever material, usually talus fines, that was available. A large outwash plain of glacial debris occurs near the mouth and east of Rusty Creek and, as a result, the geochemical response from this area may be masked by the thick cover. Grab rock samples were collected from sulphide-bearing outcrops and minor float throughout the property.

Sample locations were tied into their respective grids or positions on topographic maps by elevation, using an altimeter. All silt and soil sample collection sites were marked with flagging. Rock sample locations were marked by flagging and/or tyvek or aluminum tags.

Ten test pits (30-60 cm deep) on the Main grid were sampled, in profile and by size fraction to try and understand what is contributing to the high gold in soil values without any adequate bedrock explanation.

4.5.2 Results

- i) A stream silt sample was collected from a fast flowing creek that flows northward into Quash Creek to the northwest of the Main grid. This sample contains low amounts of Au, Ag, Cu, Pb, Zn, As, Sb, and Mo.

A listing of stream silt geochemistry results is available in Appendix IV. Sample description is in Appendix V and results, including those obtained in earlier programs are plotted on Maps 4 to 8 and 11 to 15. Sample numbers are shown on Maps 3a, b and 10a, b.

- ii) Reconnaissance soil sampling was carried out along contours, ridge crests and valley bottoms peripheral to the gridded areas. Six areas are characterized by anomalous values in one or more elements. These are presented in the following table:

| Area | No. of Samples | Anomalous Elements |
|---------------------------------------|----------------|----------------------|
| 1. Rusty Creek; West Side | 9 | Au (64-775 ppb) |
| | 13 | Cu (251-973 ppm) |
| 2. Q.C.-1, 6; South of Quash Creek | 8 | Au (68-480 ppb) |
| 3. Q.C.-6; South of Quash Creek | 5 | Sb (1,300-1,812 ppm) |
| | 5 | Pb (439-852 ppm) |
| | 5 | As (284-539 ppm) |
| | 5 | Cu (195-907 ppm) |
| 4. NE Q.C.-6; S Q.C.-9 | 1 | Au (116 ppb) |
| | 4 | Cu (357-463 ppm) |
| | 2 | Pb (508-1067 ppm) |
| | 5 | Zn (278-1772 ppm) |
| 5. SE Q.C.-9 | 3 | Au (62-312 ppb) |
| | 3 | As (105-303 ppm) |
| 6. SW Q.C.-1; NW Q.C.-3 | 19 | Au (61-303 ppb) |
| | 13 | As (49-142 ppm) |
| | 16 | Zn (263-803 ppm) |

- iii) Grid soil sampling was carried out at 25 metre spacing on the Main and West grids. In addition, 10 metre spaced soil samples were taken along grid extensions at the Vein Zone.

The Main grid is characterized by a broad (700 m x 800 m) multi-element (Au, Cu, As, Mo) anomaly that extends downslope from the gossanous cliffs between lines 14400E and 15200E. Other multi-element anomalies are located on lines 15400E (Au, Cu, Mo) and along 10000N between 14400E and 14700E (Au, Cu) (Maps 4-8).

The anomalous areas within this grid are summarized in the following table:

| TABLE 6 Main Grid Soil Geochemical Anomalies | | |
|-------------------------------------------------|----------------|--------------------|
| Area | No. of Samples | Anomalous Elements |
| 14,400E-15,200E; N of 10,250N | 77 | Au (60-783 ppb) |
| | 90 | Cu (250-4,114 ppm) |
| | 104 | As (10-1,729 ppm) |
| | 57 | Mo (10-90 ppm) |
| 15,400E; N of 10,000N | 9 | Au (62-228 ppb) |
| | 12 | Cu (251-1,309 ppm) |
| | 1 | As (18 ppm) |
| | 8 | Mo (11-25 ppm) |
| 10,000N; 14,400E-14,700E | 9 | Au (78-1,220 ppb) |
| | 8 | Cu (251-782 ppm) |
| | 1 | Mo (11-25 ppm) |
| 14,400E; 9,800N | 2 | Au (182-542 ppb) |
| | 2 | Cu (785-1,012 ppm) |
| | 2 | Zn (261-656 ppm) |
| | 1 | Pb (205 ppm) |
| | 2 | As (46-720 ppm) |
| | 1 | Sb (19 ppm) |

The West grid is characterized by a broad multi-element (Au, Cu, Zn, As) soil anomaly between lines 11600E and 13000E and along 10750N between 12200E and 12600E. A broad multi-element (Au, Ag, Zn, As) soil anomaly occurs north of 10750N between 12000E and 12600E (Maps 4-8).

The anomalous areas within this grid are summarized in the following table:

| TABLE 7 West Grid Soil Geochemical Anomalies | | |
|--------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
| Area | No. of Samples | Anomalous Elements |
| 11,600E-12,000E, 10,000N-10,700N | 29 | Au (60-3,450 ppb) |
| | 22 | Cu (254-1,088 ppm) |
| | 39 | Zn (252-7530 ppm) |
| | 15 | Pb (103-1,542 ppm) |
| | 45 | Ag (1.0 - 8.1 ppm) |
| | 48 | As (17-2,939 ppm) |
| | 1 | Mo (13 ppm) |
| 12,000E, S. of 10,000N; 12,000E-12,400E, S of 10,250N; 12,600E-13,200E, S of 10,650N | 72 | Au (60-1,575 ppb) |
| | 99 | Cu (267-3,539 ppm) |
| | 43 | Zn (256-1,795 ppm) |
| | 34 | Pb (104-540 ppm) |
| | 55 | Ag (1.0 - 2.9 ppm) |
| | 121 | As (10-833 ppm) |
| 12,000E, N of 10,750N; 12,200E, N of 10,500N; 12,400E-12,600E, N of 10,750N 10,750N 12,200E-12,700E | 10 | Mo (10-37 ppm) |
| | 58 | Au (63-825 ppb) |
| | 14 | Cu (260-803 ppm) |
| | 25 | Zn (258-1,619 ppm) |
| | 8 | Pb (125-861 ppm) |
| | 19 | Ag (1.0-3.9 ppm) |
| | 50 | As (17-364 ppm) |
| 2 | Sb (12-33 ppm) | |

Ten test pits, excavated on the Main grid, were sampled in profile and analyzed by size fraction in order to try and understand the distribution of gold in soils on the Q.C. property. The results of this study are presented in the tables attached to this report (Appendix X).

In general there is little in the way of consistent variations in element contents with respect to either depth in the pit or size fraction analyzed. There does appear to be higher gold values associated with the finer fraction at several pits (eg., 14600E/10500N, 15200E/10525N, 15200N/10500N). The results obtained from analysing a coarse talus fraction as rock are variable. Arsenic and molybdenum exhibit a rough correlation between high soil contents and high rock contents.

The soil geochemistry results are all plotted on Maps 4 to 8 and 11 to 15 and sample numbers are shown on Maps 3a, b and 10a. Geochemical results are available in Appendix VI and soil sample descriptions are in Appendix VII.

- iii) Rock sampling has included grab and chip samples of sulphide-bearing outcrops and grab samples of float. The results are varied. Complete rock geochemistry results are given in Appendix VIII. Sample descriptions are available in Appendix IX and geochemical results are plotted on Maps 4 to 8, 11 to 15 and 18. Sample locations are shown on Maps 3a, 3b, 10a, 10b and 18.

4.5.3 Interpretation

The results of the rock geochemistry indicate:

- 1) Several areas of the Porphyry Zone are characterized by 0.2-0.3% Cu with <100 ppb Au.
- 2) High grade gold (\pm silver \pm copper \pm zinc) values occur throughout the property. These values are associated with narrow, discontinuous veins.

4.6 Geophysical Work

4.6.1 Program

Induced polarization and magnetometer surveys were conducted over portions of the Quash Creek property within the period July 20 to 28, 1991 (Scott, 1991a, b). Sixteen km of grid lines were surveyed, covering all of the Main grid and the east half of the West grid. The West grid was surveyed at 400 metre intervals. Gaps in the coverage on individual lines are due to inaccessible cliffs. All of the geophysical results are included in Appendix XIII.

The pole-dipole array was used on the induced polarization survey, with "a" spacings of 25 metres and 75 metres, at both $n=1$ and $n=2$. The current electrode location with respect to the potential electrodes is shown on the pseudosections (Scott, 1991a; 1991b). A Scintrex

IPR11 time domain receiver, and a Scintrex IPC7 transmitter were used for the induced polarization survey. Readings were taken using a 2 second alternating square wave. The chargeability for the eighth slice is the value that has been plotted on the accompanying plans and pseudosections (M7; 690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds).

Total field magnetometer readings were taken at 12.5 metre intervals. A Scintrex MP4 was used for the magnetometer survey. A Geometrics G816 magnetometer was used as a fixed base station, which was monitored by the transmitter operator. All magnetometer readings were corrected for diurnal drift with reference to the base station.

The survey data were archived, processed, and plotted using a Toshiba 3200 microcomputer running Scintrex Soft II and proprietary software. All chargeability responses were analyzed for their spectral characteristics (cole-cole intrinsic chargeability, time constant, and frequency dependence) using Johnson's curve matching procedure. In areas of low amplitude chargeability response, the spectral parameters are commonly relatively poorly defined (Scott, 1991a, b).

4.6.2 Results

The Main Grid is characterized by a broad region (0.8 x 1.1 km) of high chargeabilities (>15 mV/V). Chargeabilities range up to 37.5 mV/V within this area. The anomalous area is open to the west. Geological considerations suggest that the anomaly closes to the east, within 100 metres of 15400E. Resistivities within the region of high chargeabilities are mostly in the 600-2000 ohm-metres range. Resistivities range up to 34200 ohm-metres and down to 250 ohm-metres (Scott, 1991 a).

The West grid has a 1.3 x 0.7 km area with chargeabilities >15 mV/V, that occupies Bruns Creek valley. In addition, high chargeabilities characterize the west part of the survey area in the vicinity of the AL Zone and along the 10750N tieline. Resistivities are mostly in the 600-2000 ohm-metres range, but vary between 311 to 11500 ohm-metres (Scott, 1991b).

The results of the magnetometer survey are included in Appendix XIII. The overall picture is of a flat magnetic signature with local highs and lows. On a broader scale, the magnetic signature increases towards the north part of the Main grid.

4.6.3 Interpretation

The area outlined by high chargeabilities on the Q.C. Main grid corresponds to limonite-stained outcrops that are so prominent at the Q.C. Porphyry zone. There, limonite staining is caused by weathering of 2-5% disseminated and fracture-controlled pyrite in mafic to felsic tuffs and diorites. Two zones of copper mineralization (Cliff and HBA Zones) occur within this anomaly. The high chargeability anomaly extends northward below the base of the limonite-stained cliffs, into an area that lacks outcrop.

Local high resistivities (eg., up to 34200 ohm-metres on line 15000E) correspond to resistive glacial moraine. Low resistivities (eg., down to 250 ohm-metres on line 14600E) are enigmatic, but may be due to local intercalations of graphitic argillite.

The large chargeability anomaly on the West grid is underlain by intermediate to felsic tuffs and minor diorite that contain 2-7% disseminated and fracture-controlled pyrite. Chalcopyrite mineralization is minor and localized. The chargeability anomaly at the west end of the survey area corresponds with a zone (AL zone) of chalcopyrite + pyrite mineralization in a 20 - 30 metre wide diorite sill and immediately adjacent volcanics. Chargeability readings decrease with depth in this area reflecting the shallow dip of the mineralized diorite. The chargeability anomaly near the north end of 12600E occurs in an area of poor outcrop that is interpreted to be underlain by diorite and sediments. Low resistivities on the West grid most likely correspond with intercalated graphitic argillites (e.g., 13000E).

The general overall flat response of the magnetic survey reflects the non-magnetic nature of most units at the Q.C. Porphyry zone. Higher magnetic readings north of 10700N, on the Main grid, correspond to magnetic mafic lapilli tuffs that were intersected in DDH Q.C.91-3.

4.7 Trenching

4.7.1 Program

A limited hand trenching program was carried out at the Upper Gordon Showing. The objectives of this program were to better expose the geology and weathered mineralization that had been sampled previously. A ten metre long trench, oriented parallel to and along the zone of mineralization, was excavated by "plugger" and blasting. In places the trench extended down about 2 metres. The trench was subsequently mapped at 1:100 (Map 17). A series of chip samples were taken across the mineralized zone (Map 18).

This trench succeeded in exposing the geology of the mineralized structure and in allowing sampling of relatively fresh sulphides, that had not been exposed previously.

4.8 Drilling

4.8.1 Program

A five hole (711.48 metre), diamond drill program was carried out on the Q.C. claims in September, 1991. Three holes (546.8 metres) were drilled along a north-south fence to test an I.P. chargeability anomaly in an area of anomalous Au and Cu soil geochemistry at the Porphyry Zone. Two holes (164.68 metres) were drilled at the Upper Gordon showing to test the continuity of Au-Ag-Cu-Zn mineralization exposed in outcrop and trench.

The helicopter-supported drill program was contracted out to Falcon Drilling of Prince George, B.C. who completed the drilling with B.G.M.-sized tools. Acid dip tests of hole inclination were taken at the end of each drilling shift; hole inclinations remained fairly constant with depth. The core from the Porphyry Zone was logged, split, sampled, and stored at the Quash Creek camp. All of the core was sampled, by splitting, at 3.0 metre intervals. Core from the Upper Gordon showing was flown by helicopter to the Iskut base camp where it was logged and sampled. The core was split and sampled by sawing. Mineralized sections were sampled at 0.5 - 1.0 metres intervals; non-mineralized sections were sampled at 2.0

metre intervals. This core was subsequently stored at a site on the Klappan Mine Road at approximately the 11 kilometre mark, immediately north of Ealue Lake.

The location of the drill holes are shown on Maps 2, 9 and 17. Cross-sections are on Maps 22 to 23. Drill logs are included in Appendix X and geochemical and assay results are in Appendix XI.

4.8.2 Results

- i) DDH-Q.C.91-1 (182.3 m, -45° @ 180°) is located on the Main grid, at 15000E/10675N, at an elevation of 1,261.9 metres (4,140 feet). The hole intersected intermediate to felsic tuffs and lesser siltstones and argillites, intruded by equigranular hornblende-biotite diorite dykes. Finely disseminated and fracture-controlled pyrite (2-5%) is present throughout the core. Chalcopyrite (0-1%) occurs as fine disseminations, fracture coatings and in association with narrow (<1 cm) quartz veins.

Alteration includes propylitization (actinolite? ± epidote ± calcite) of intermediate to felsic tuffs. Diorite dykes vary from "fresh looking" units with scattered, corroded plagioclase to moderately altered intrusives with chloritized hornblende and sericitized plagioclase.

A 6.5 metre wide (76.2 - 82.7 metres) high strain zone is characterized by remnant lithons of intermediate-felsic volcanics "suspended" in a dark carbonatized, pyritic (10-45%), foliated matrix. A similar interval in DDH Q.C.91-2, suggests that this may represent a shallow dipping (thrust?) fault (Map 22).

It is notable that the above mentioned high strain zone (76.2 - 82.7 metres) separates core that is anomalous in Mo (15 - 78 ppm) and Cu (up-hole) from core that is anomalous in As (21 - 338 ppm) (downhole) (Appendix X, XI). This corroborates the interpretation that this high strain zone is a fault. Note also that, despite encouraging copper values in the upper part of the hole, Au contents remain low (Map 22).

- ii) DDH-Q.C.91-2 (185.3 m, -45° @ 180°) is collared at an elevation of 1,322.8 metres (4,340 feet) at 15000E/10575N on the Main grid, 100 m south of DDH-Q.C.91-1.

The upper 126.7 m of the hole intersected intermediate to felsic tuffs and lesser siltstones and argillites, intruded by narrow (<20 metres wide), equigranular hornblende-biotite diorite dykes. Chalcopyrite (0-0.5%) occurs as fine disseminations, fracture coatings and in association with narrow (<1 cm) quartz veins throughout the hole. Finely disseminated and fracture-controlled pyrite (2-5%) is present throughout the upper part of the hole. Epidote invariably accompanies pyrite in veinlets and fracture fillings. The bottom 39 metres of the hole is composed of well bedded intermediate to felsic ash and dust tuffs, with only minor, local pyrite.

Alteration includes propylitization (actinolite? ± epidote ± calcite) of intermediate to felsic tuffs. Diorite dykes vary from "fresh looking" units with scattered, corroded plagioclase to moderately altered intrusives with hornblendes that have been variably altered to chlorite, biotite, or pyrite. Plagioclase is variably altered to sericite.

A 19.7 metre wide (126.7 - 146.4 metres) high strain zone is characterized by remnant lithons of intermediate-felsic volcanics "suspended" in a dark carbonatized, pyritic (10-45%), foliated matrix. A similar interval in DDH-Q.C.91-1, suggests that this may represent a shallow dipping (thrust?) fault (Map 22).

A summary of geochemistry indicates fairly constant Cu values (1000 - 2000 ppm) throughout the hole except for a "dead" zone between 69.0 and 126.7 m where Cu contents are <200 ppm (Map 22). The copper content ranges up to 3186 ppm. Note also, as with DDH-Q.C.91-1, that Au values are low. The high strain zone is characterized by anomalous, but low (<220 ppb) Au contents. Molybdenum is anomalous in the upper 66.0 metres of the hole, while As is anomalous in the lower 119.3 metres. This relationship is similar to that observed in DDH Q.C.91-1. In Q.C.91-1, however, the high strain zone separates anomalous Mo from anomalous As, while in Q.C.91-2, the high strain zone is downhole from the boundary between

anomalous Mo and anomalous As. This suggests that this pattern of mineralization predated development of the high strain zone.

- iii) DDH-Q.C.91-3 (179.2 m, -45° @ 180°) is collared at an elevation of 1,210.1 metres (3,970 feet) at 15000E/10800N on the Main grid, 125 m north of DDH-Q.C.91-1.

The upper 56.7 m of the hole intersected heterolithic, green to locally maroon, magnetic, mafic lapilli tuffs. Clasts are subrounded to subangular; most are aphyric. Plagioclase-phyric or hornblende-phyric clasts occur locally. Epidote flooding and veining and calcite veining occur locally. The bottom 122.5 m of the hole is composed entirely of variably altered equigranular hornblende-biotite diorite. Alteration is characterized by silicification, sericitization and possible K-feldspar alteration. With increasing alteration, individual minerals become more difficult to discern and the colour of the diorite changes from light-medium grey-green to medium-dark green-grey. Chalcopyrite (0-0.5%) occurs associated with molybdenite within and adjacent to narrow (<1 cm) quartz veins throughout the diorite. Finely disseminated and fracture-controlled pyrite (2-5%) is present throughout the hole. Epidote invariably accompanies pyrite in veinlets and fracture fillings.

Figure 15 is a north-south cross section along 15000E that incorporate the 1970 and 1991 drilling results.

- iv) DDH-Q.C.91-4 (75.3 m, -66° @ 170°) is collared at an elevation of 1302 metres (4272 feet) on the West grid, 27 m north of the Upper Gordon showing.

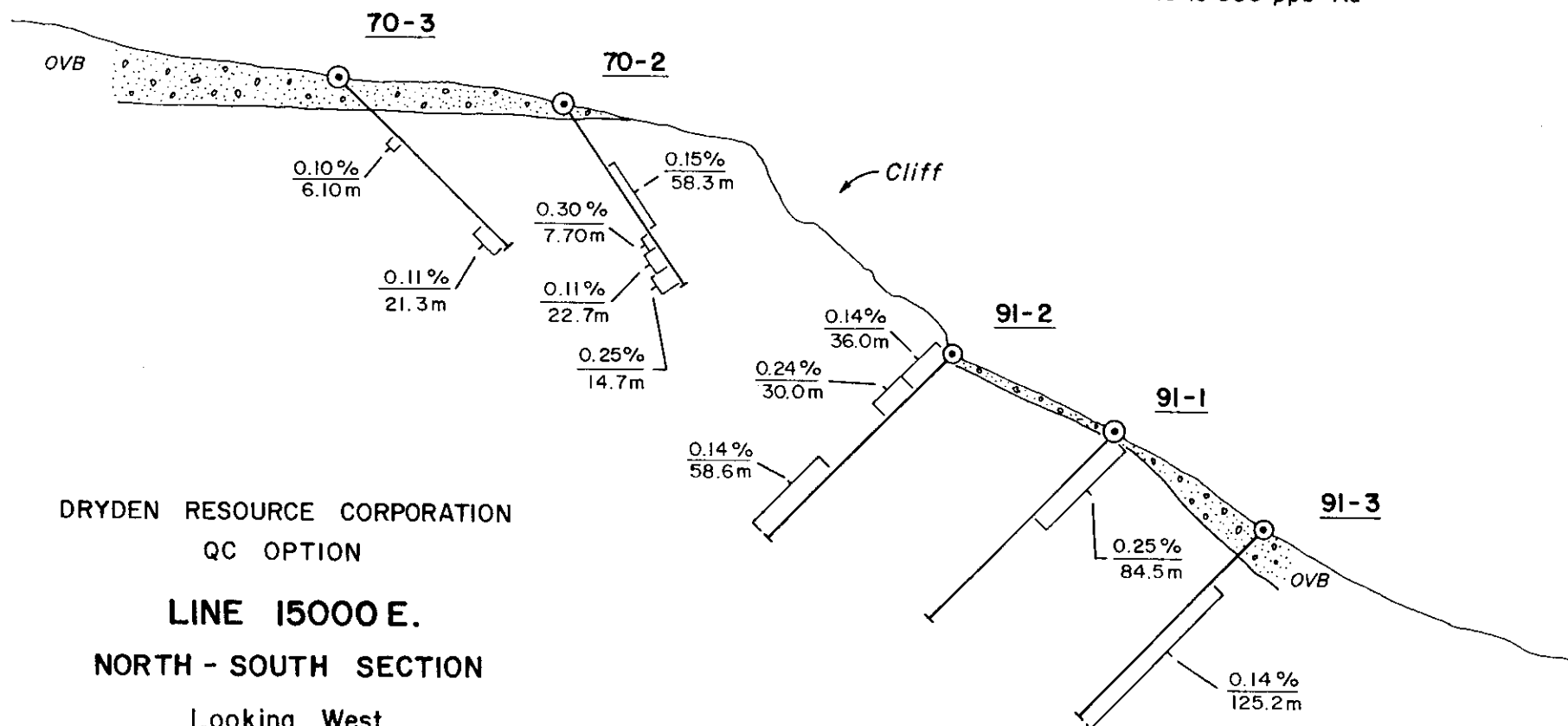
This hole intersected a well bedded sequence of green and maroon, mafic tuffs and lapilli tuffs. Graded bedding and load features indicate that this sequence is facing up hole. Several prominent, light orange-brown zones are overprinted on the volcanics and represent weathering emanating out from fractures with or without iron carbonate alteration. Narrow (<1 cm) quartz and calcite veins are conspicuous throughout the hole.

SOUTH

NORTH

I.P. CHARGEABILITY +10 mV/V

SOILS
+1000 ppm Cu (1000 to 1700 ppm)
40 to 580 ppb Au

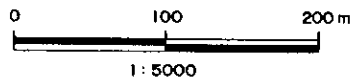


DRYDEN RESOURCE CORPORATION
QC OPTION

LINE 15000 E.
NORTH - SOUTH SECTION

Looking West

Figure 15



% Cu
metres

A very well mineralized section (41.27 - 45.08 metres) is composed of semi-massive sulphides associated with irregular quartz-carbonate veins. Sulphide contents are variable (0-10% chalcopyrite, 10-15% pyrite, 0-20% sphalerite). Thin (<10 cm) intervals of relatively unaltered mafic volcanics occur in this section (Map 23).

The well-mineralized section (41.27 - 44.77 m) comprises 3.5 metres at 19.9 g/t Au, 202.3 g/t Ag, 3.08% Cu, and 5.31% Zn. Arsenic is anomalous (3651 ppm), but not inordinately high, in this interval. The best estimate of the true thickness of this interval is about 2.47 metres. Away from this vein system, narrow sulphide veins contain anomalous gold contents; volcanics with no obvious veining contain only background Au contents.

- v) DDH-Q.C.91-5 (99.4 m, -62° @ 230°) is collared at an elevation of 1302 metres (4272 feet) on the West grid, 27 m north of the Upper Gordon showing. This hole was drilled from the same platform that was used to drill Q.C.91-4.

This hole intersected the same well bedded sequence of green and maroon, mafic tuffs and lapilli tuffs that was intersected in Q.C.91-4. The geology and alteration of Q.C.91-5 is very similar to Q.C.91-4. Q.C.91-5, however, failed to intersect the 2.5 m wide vein system that was intersected by Q.C.91-4. Q.C.91-5 did intersect several narrow (<10 cm) sphalerite + chalcopyrite + pyrite veins that contain anomalous gold contents (Map 22).

5.0 CONCLUSIONS

The Q.C. claims are located in a region of the Canadian Cordillera that contains several significant porphyry copper-gold and gold-silver vein deposits. Exploration work on the property to date has identified a large porphyry system. Widely spaced drill testing within a part of this system, has intersected wide intervals of 0.12-0.28% Cu. Gold values, however, are low. Extensive soil and rock geochemical sampling throughout the system has outlined a large area of anomalous copper and gold values and has also identified specific zones with significantly higher values in copper and gold. The potential for the porphyry system to

contain higher grade zones which could be developed into an economic copper-gold deposit remains a distinct possibility.

To the northwest, preliminary work on precious metal vein systems has yielded significant gold, silver, copper and zinc values over mineable (>1.5 m) widths at the Upper Gordon showing. This vein, open along strike and down dip, offers excellent potential to develop into a high grade deposit, amenable to underground development.

6.0 RECOMMENDATIONS

Further work at the Porphyry Zone should:

- 1) Focus on systematic drilling along sections to the west and east of 15000E in order to evaluate the mineralization intersected in the 1991 drilling campaign and test for zones of gold enrichment.
- 2) Evaluate, by drilling, areas of coincident soil geochemical anomalies and I.P. chargeability anomalies in Bruns Creek valley, on the West grid.
- 3) Evaluate, by trenching, geophysics (I.P., magnetics), and drilling, the high gold-in-soil anomalous area north of 10750N between 12000E and 12600E.


At the Vein zone, further work should involve:

- 1) Extension of Teck's 1988 grid to the east. This would allow coverage of any possible eastward extensions of the Upper Gordon vein system. Geophysics (magnetics, I.P., VLF) and soil geochemistry should be conducted over the grid.
- 2) Hand trenching of anomalous areas indicated by geophysics and/or soil geochemistry.

- 3) Drilling along strike and down-dip from DDH-Q.C.-91-4 at the Upper Gordon showing, and at new targets identified by the geophysical and trenching programs.

Respectfully submitted,

KEEWATIN ENGINEERING INC.


Martin G. Morrice, Ph.D.

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APPENDIX I

Statement of Expenditures

STATEMENT OF EXPENDITURES

Pre-Field \$ 5,100.00

Field Program

| | | |
|-----------------------------------|-----------------|------------|
| Personnel | \$88,580.00 | |
| Accommodation and Food | 23,340.00 | |
| Equipment Rental | 8,295.00 | |
| Helicopter | 43,290.00 | |
| Geochemistry | 22,070.84 | |
| Camp Construction and Maintenance | 10,253.32 | |
| Travel | 12,910.70 | |
| Drilling (711.48 m) | 55,471.80 | |
| Geophysics | 17,666.57 | |
| Handling Fees | <u>9,860.88</u> | 291,739.11 |

Note: Direct drilling charges are \$77.97/m.
All inclusive drilling costs are \$168.53/m

Tenure 7,090.00

Post-Field 18,787.31

TOTAL EXPENDITURES: **\$322,716.42**

APPENDIX II

Summary of Personnel

SUMMARY OF PERSONNEL

| Name | Position | Sampler Code | Dates Worked (1991) |
|------------------|-----------------|---------------------|-------------------------------|
| Ron Nichols | Project | | Jun. 17 - Dec. 1 (7.5 days) |
| Martin Morrice | Supervisor | MM | Jun. 17 - Dec. 12 (80.0 days) |
| Rob van Egmond | Project | RV | Jun. 17 - Sep. 16 (54.5 days) |
| Dave Mehner | Geologist | | Jun. 8 - Sep. 16 (2.0 days) |
| Ernie Olfert | Geologist | | Jun. 26 - Sep. 16 (1.0 days) |
| Sandy Gibson | Geologist | AG | Jun. 26 - Sep. 16 (2.0 days) |
| Don Coolidge | Technician | DC | Jun. 8 - Sep. 16 (37.5 days) |
| Steve Creelman | Prospector | SC | Jun. 26 - Jul. 30 (7.0 days) |
| Dave O'Brien | Prospector | DO | Jun. 26 - Jul. 19 (9.5 days) |
| Colin Anderson | Prospector | | Jun. 26 - Oct. 1 (8.0 days) |
| Curt Kauss | Prospector | CK | Jun. 26 - Jul. 19 (10.5 days) |
| Trevor Shepard | Prospector | | Jun. 26 - Sep. 16 (1.0 days) |
| Frank Ferguson | Surveyor | | Jun. 8 - Sep. 16 (10.0 days) |
| Mike Brown | Field Assistant | MB | Jun. 26 - Sep. 16 (39.5 days) |
| Grant Nagy | Field Assistant | GN | Jun. 26 - Sep. 16 (12.5 days) |
| Cam Thompson | Field Assistant | | Jun. 26 - Jul. 15 (3.0 days) |
| James Tashoots | Field Assistant | | Jun. 8 - Sep. 16 (9.0 days) |
| Bruce Richardson | Field Assistant | | Jun. 8 - Sep. 16 (9.5 days) |
| Francois Depey | Field Assistant | | Jun. 26 - Sep. 16 (2.0 days) |
| Verna Jordan | Cook | | Jun. 8 - Sep. 16 (14.5 days) |
| Bea Hopkins | Cook | | Jun. 26 - Sep. 16 (7.0 days) |

APPENDIX III

Analytical Procedures Used by Min-En Laboratories

ANALYTICAL PROCEDURES USED BY MIN-EN LABORATORIES

ICP Analysis for Cu, Pb, Zn, Ag, As, Sb, Mo

After drying the samples at 95°C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for two hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.

Au Fire Geochem

A suitable sample weight; 15.00 or 30.00 grams is fire assay pre-concentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.

Gold Assay Procedure

Samples are dried @ 95°C and when dry are crushed on a jaw crusher. The -¼ inch output of the jaw crusher is put through a secondary roll crusher to reduce it to -1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300 - 400 gram sub-sample (in accordance with Gy's statistical rules). This sub-sample is then pulverized in a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Samples are fire assayed using one assay ton sample weight. The samples are fluxed, a silver in quart added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved, diluted to volume and mixed.

These aqua regia solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 3 standard deviations of its known or the whole set is re-assayed. Likewise the blank must be less than 0.015 g/tonne.

APPENDIX IV

Silt Geochemistry Results

APPENDIX V

Silt Sample Descriptions

APPENDIX VI

Soil Geochemistry Results



MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

RECEIVED

AUG 20 1991

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3175 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Geochemical Analysis Certificate

1S-0161-XG1

Company: **KEEWATIN ENGRG.**
Project: **188**
Client: **B.WHELAN/M.MORRICE**

Date: **AUG-20-91**

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Geochemical Analysis of 30 PULP samples submitted AUG-11-91 by M.MORRICE.

| Sample Number | *AU-FIRE PFB | CU PPM |
|-----------------|--------------|--------|
| K-10000N 12800E | 10 | 838 |
| K-10000N 12825E | 79 | 773 |
| K-10000N 12850E | 1 | 631 |
| K-10000N 12875E | 20 | 1430 |
| K-10000N 12900E | 1 | 450 |
| K-10000N 12925E | 25 | 777 |
| K-10000N 12950E | 24 | 2360 |
| K-10000N 12975E | 60 | 882 |
| K-12800E 10300N | 63 | 272 |
| K-12800E 10275N | 93 | 301 |
| K-12800E 10250N | 142 | 531 |
| K-12800E 10225N | 165 | 614 |
| K-12800E 10200N | 10 | 1050 |
| K-12800E 10175N | 1 | 422 |
| K-12800E 10150N | 32 | 477 |
| K-12800E 10125N | 2 | 486 |
| K-12800E 10100N | 1 | 452 |
| K-12800E 10075N | 50 | 797 |
| K-12800E 10050N | 147 | 744 |
| K-12800E 10025N | 2 | 555 |
| K-13000E 10300N | 82 | 364 |
| K-13000E 10275N | 71 | 488 |
| K-13000E 10250N | 48 | 534 |
| K-13000E 10225N | 1 | 487 |
| K-13000E 10200N | 150 | 386 |
| K-13000E 10175N | 1 | 436 |
| K-13000E 10150N | 90 | 1440 |
| K-13000E 10125N | 94 | 1300 |
| K-13000E 10100N | 169 | 2080 |
| K-13000E 10075N | 182 | 1790 |

100 - 1 ASSAY TON.

Certified by

MIN-EN LABORATORIES



**MIN
• EN
LABORATORIES**
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Geochemical Analysis Certificate

1S-0161-XG2

Company: **KEEWATIN ENGRG.**
Project: 188
Client: B. WHELAN/M. MORRICE

Date: AUG-20-91

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Geochemical Analysis of 3 PULP samples submitted AUG-11-91 by M. MORRICE.

| Sample Number | *AU-FIRE PPB | CU PPM |
|------------------|-----------------|-----------|
| CK-13000E 10050N | 119 | 2560 |
| CK-13000E 10025N | 222 | 1580 |
| CK-13000E 10000N | 116 | 1450 |

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

COMP: KEEWATIN ENGRG.
 PROJ: QUASH CREEK
 ATTN: BONNIE WHELAN/M.MORRICE

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 1S-0199-SJ7+8
 DATE: 91/07/27
 * SOIL * (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|------------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| MB 11400E 10725N | 22 | 1.2 | 141 | 44 | 340 | 41 | 1 | 1 |
| MB 11400E 10675N | 68 | 2.3 | 78 | 4 | 154 | 15 | 1 | 1 |
| MB 11400E 10650N | 83 | 1.5 | 116 | 50 | 375 | 146 | 1 | 1 |
| MB 11400E 10625N | 39 | 2.6 | 61 | 24 | 228 | 9 | 1 | 1 |
| MB 11400E 10600N | 37 | 1.2 | 80 | 47 | 1031 | 68 | 1 | 1 |
| MB 11400E 10575N | 26 | 2.7 | 81 | 22 | 442 | 51 | 1 | 1 |
| MB 11400E 10550N | 18 | 2.2 | 87 | 64 | 565 | 68 | 1 | 1 |
| MB 11400E 10525N | 17 | 2.7 | 89 | 32 | 474 | 8 | 1 | 1 |
| MB 11400E 10500N | 25 | 2.5 | 94 | 45 | 417 | 1 | 1 | 1 |
| MB 11400E 10475N | 42 | 2.1 | 96 | 39 | 337 | 1 | 1 | 1 |
| MB 11600E 10900N | 19 | 1.4 | 71 | 28 | 171 | 1 | 1 | 1 |
| MB 11600E 10875N | 3 | 2.0 | 65 | 25 | 148 | 1 | 1 | 1 |
| MB 11600E 10850N | 2 | 1.6 | 55 | 77 | 384 | 8 | 1 | 1 |
| MB 11600E 10800N | 5 | .8 | 87 | 53 | 369 | 34 | 1 | 1 |
| MB 11600E 10650N | 46 | 2.0 | 104 | 63 | 309 | 84 | 1 | 1 |
| MB 11600E 10625N | 39 | 2.4 | 169 | 80 | 368 | 83 | 1 | 1 |
| MB 11600E 10600N | 38 | 2.4 | 129 | 84 | 453 | 142 | 1 | 1 |
| MB 11600E 10575N | 45 | 1.7 | 115 | 64 | 239 | 157 | 1 | 1 |
| MB 11600E 10550N | 58 | 1.9 | 125 | 120 | 525 | 139 | 1 | 1 |
| MB 11600E 10500N | 94 | 1.7 | 185 | 163 | 432 | 181 | 1 | 1 |
| MB 11600E 10475N | 123 | 3.1 | 273 | 225 | 560 | 486 | 1 | 1 |
| MB 11600E 10450N | 60 | 1.9 | 158 | 175 | 358 | 234 | 1 | 1 |
| MB 11600E 10425N | 78 | 1.4 | 164 | 147 | 362 | 282 | 1 | 1 |
| MB 11600E 10400N | 83 | .2 | 395 | 79 | 586 | 142 | 1 | 1 |
| MB 11600E 10375N | 61 | .5 | 246 | 72 | 655 | 91 | 1 | 1 |
| MB 11600E 10350N | 118 | 1.9 | 209 | 25 | 249 | 52 | 1 | 1 |
| MB 11600E 10325N | 219 | 1.0 | 319 | 18 | 165 | 63 | 1 | 1 |
| MB 11600E 10300N | 144 | .3 | 203 | 42 | 148 | 60 | 1 | 2 |
| MB 11600E 10275N | 193 | 2.0 | 516 | 52 | 341 | 149 | 1 | 1 |
| MB 11600E 10250N | 350 | 2.1 | 909 | 35 | 117 | 211 | 1 | 13 |
| MB 11600E 10225N | 443 | 3.6 | 393 | 20 | 132 | 134 | 1 | 5 |
| MB 11600E 10150N | 102 | .8 | 213 | 78 | 286 | 94 | 1 | 1 |
| MB11800E 10900N | 4 | .8 | 212 | 90 | 288 | 97 | 1 | 1 |
| MB11800E 10875N | 6 | 1.1 | 54 | 30 | 72 | 3 | 1 | 1 |
| MB11800E 10850N | 14 | .8 | 46 | 21 | 92 | 5 | 1 | 1 |
| MB11800E 10825N | 8 | 1.3 | 68 | 45 | 292 | 12 | 1 | 1 |
| MB11800E 10800N | 18 | 1.2 | 68 | 31 | 199 | 12 | 1 | 1 |
| MB11800E 10750N | 2 | 1.4 | 81 | 80 | 461 | 26 | 1 | 1 |
| MB11800E 10650N | 19 | 2.2 | 151 | 16 | 191 | 17 | 1 | 1 |
| MB11800E 10625N | 40 | 1.8 | 138 | 34 | 238 | 22 | 1 | 1 |
| MB11800E 10600N | 18 | 1.8 | 137 | 17 | 160 | 6 | 1 | 1 |
| MB11800E 10575N | 75 | .8 | 150 | 36 | 205 | 31 | 1 | 1 |
| MB11800E 10550N | 103 | .8 | 202 | 37 | 252 | 34 | 1 | 1 |
| MB12000E 10900N | 125 | 2.7 | 170 | 49 | 216 | 39 | 1 | 1 |
| MB12000E 10875N | 22 | 1.8 | 48 | 15 | 78 | 5 | 1 | 1 |

COMP: KEEWATIN ENGINEERING
 PROJ: 188 QUASH CREEK
 ATTN: B.WHELAN/D.MEHNER

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 1S-0473-SJ1+2
 DATE: 91/08/22
 * SOIL * (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|------------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| MB 12200E 11250N | 134 | .7 | 100 | 125 | 456 | 231 | 2 | 1 |
| MB 12200E 11225N | 162 | .4 | 65 | 34 | 297 | 163 | 1 | 1 |
| MB 12200E 11200N | 144 | .8 | 88 | 172 | 336 | 89 | 1 | 1 |
| MB 12200E 11175N | 58 | .1 | 51 | 18 | 160 | 30 | 1 | 1 |
| MB 12200E 11150N | 510 | .4 | 224 | 90 | 496 | 194 | 1 | 1 |
| MB 12200E 11125N | 99 | 1.1 | 81 | 25 | 242 | 25 | 1 | 1 |
| MB 12200E 11100N | 156 | .7 | 167 | 43 | 301 | 36 | 1 | 1 |
| MB 12200E 11075N | 550 | 1.6 | 174 | 127 | 313 | 32 | 4 | 1 |
| MB 12200E 11050N | 465 | .8 | 214 | 27 | 99 | 75 | 1 | 1 |
| MB 12200E 11025N | 680 | 2.5 | 213 | 36 | 184 | 50 | 1 | 1 |
| MB 12200E 11000N | 148 | .7 | 85 | 44 | 223 | 54 | 1 | 1 |
| MB 12200E 10975N | 197 | 1.1 | 89 | 52 | 207 | 73 | 1 | 1 |
| MB 12200E 10850N | 102 | 1.3 | 103 | 74 | 383 | 70 | 1 | 1 |
| MB 12200E 10825N | 825 | .9 | 185 | 216 | 1454 | 165 | 12 | 1 |
| MB 12200E 10800N | 100 | 1.4 | 115 | 89 | 373 | 63 | 1 | 1 |
| MB 12200E 10775N | 57 | .4 | 79 | 50 | 219 | 50 | 1 | 1 |
| MB 12400E 11250N | 23 | 1.1 | 63 | 30 | 134 | 16 | 1 | 1 |
| MB 12400E 11225N | 21 | .8 | 75 | 45 | 111 | 22 | 1 | 1 |
| MB 12400E 11200N | 28 | 1.4 | 90 | 27 | 169 | 44 | 1 | 1 |
| MB 12400E 11175N | 37 | 1.5 | 83 | 51 | 207 | 50 | 1 | 1 |
| MB 12400E 11150N | 243 | 1.1 | 96 | 58 | 321 | 57 | 1 | 1 |
| MB 12400E 11100N | 132 | 1.3 | 110 | 51 | 224 | 75 | 1 | 1 |
| MB 12400E 11075N | 60 | 1.0 | 108 | 46 | 180 | 82 | 1 | 1 |
| MB 12400E 11050N | 38 | 1.1 | 87 | 47 | 178 | 54 | 1 | 1 |
| MB 12400E 11025N | 41 | .9 | 138 | 46 | 91 | 33 | 1 | 1 |
| MB 12400E 11000N | 189 | .1 | 264 | 73 | 203 | 67 | 1 | 1 |
| MB 12400E 10925N | 70 | 2.0 | 116 | 93 | 344 | 79 | 1 | 1 |
| MB 12400E 10900N | 26 | .8 | 66 | 35 | 171 | 25 | 1 | 1 |
| MB 12400E 10875N | 18 | 1.1 | 66 | 31 | 258 | 17 | 1 | 1 |
| MB 12400E 10850N | 39 | .6 | 81 | 98 | 180 | 80 | 1 | 1 |
| MB 12400E 10825N | 199 | 1.9 | 327 | 226 | 828 | 276 | 4 | 1 |
| MB 12400E 10775N | 84 | 3.9 | 911 | 861 | 1619 | 364 | 33 | 1 |
| MB 12600E 11250N | 43 | .3 | 74 | 79 | 274 | 43 | 1 | 1 |
| MB 12600E 11225N | 39 | 1.0 | 68 | 61 | 166 | 42 | 1 | 1 |
| MB 12600E 11200N | 47 | .1 | 79 | 80 | 316 | 54 | 1 | 1 |
| MB 12600E 11175N | 38 | .1 | 79 | 81 | 402 | 46 | 1 | 1 |
| MB 12600E 11150N | 135 | 1.2 | 149 | 85 | 400 | 70 | 1 | 1 |
| MB 12600E 11125N | 63 | .8 | 133 | 76 | 309 | 62 | 1 | 1 |
| MB 12600E 11100N | 37 | .1 | 93 | 74 | 143 | 61 | 1 | 1 |
| MB 12600E 11075N | 28 | .5 | 52 | 37 | 92 | 17 | 1 | 1 |
| MB 12600E 11050N | 32 | 1.2 | 151 | 76 | 296 | 60 | 4 | 1 |
| MB 12600E 11000N | 141 | .4 | 260 | 146 | 596 | 122 | 3 | 1 |
| MB 12600E 10975N | 202 | .6 | 297 | 177 | 791 | 131 | 1 | 1 |
| MB 12600E 10950N | 60 | .8 | 124 | 65 | 303 | 57 | 1 | 1 |
| MB 12600E 10925N | 49 | .7 | 98 | 59 | 271 | 36 | 1 | 1 |
| MB 12600E 10900N | 37 | .6 | 94 | 59 | 146 | 44 | 1 | 2 |
| MB 12600E 10875N | 162 | .1 | 120 | 77 | 240 | 61 | 1 | 1 |
| MB 12600E 10850N | 420 | .2 | 88 | 78 | 409 | 62 | 1 | 1 |
| MB 12600E 10825N | 84 | .6 | 91 | 53 | 222 | 27 | 1 | 1 |
| MB 12600E 10775N | 556 | .1 | 90 | 81 | 160 | 52 | 1 | 1 |
| MB 12800E 11100N | 182 | 1.0 | 115 | 70 | 254 | 47 | 1 | 1 |
| MB 12800E 11075N | 26 | .6 | 35 | 27 | 103 | 14 | 1 | 1 |
| MB 12800E 11050N | 45 | .5 | 80 | 58 | 205 | 29 | 1 | 1 |
| MB 12800E 11025N | 19 | .9 | 54 | 30 | 120 | 17 | 1 | 1 |
| MB 12800E 11000N | 36 | 1.0 | 54 | 30 | 123 | 21 | 1 | 1 |
| MB 12800E 10975N | 24 | 1.3 | 57 | 34 | 162 | 17 | 1 | 1 |
| MB 12800E 10950N | 50 | 1.5 | 90 | 57 | 231 | 43 | 1 | 1 |
| MB 12800E 10925N | 9 | 1.1 | 22 | 13 | 60 | 6 | 1 | 1 |
| MB 12800E 10900N | 12 | 1.2 | 40 | 15 | 50 | 8 | 1 | 1 |

COMP: KEEWATIN ENGRG.
 PROJ: 188 QUASH CREEK
 ATTN: B.WHELAN/M.MORRICE

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 1S-0120-SJ1+2
 DATE: 91/07/17
 * SOILS * (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|------------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| MB 14400E 11400N | 1 | .1 | 68 | 16 | 99 | 14 | 1 | 1 |
| MB 14400E 11375N | 39 | .1 | 119 | 25 | 137 | 27 | 1 | 1 |
| MB 14400E 11350N | 2 | .5 | 44 | 17 | 125 | 4 | 1 | 1 |
| MB 14400E 11325N | 1 | .6 | 71 | 12 | 145 | 4 | 1 | 1 |
| MB 14400E 11300N | 9 | 1.0 | 49 | 12 | 87 | 1 | 1 | 1 |
| MB 14400E 11275N | 2 | .2 | 53 | 10 | 120 | 8 | 1 | 1 |
| MB 14400E 11250N | 1 | .1 | 59 | 22 | 139 | 3 | 1 | 1 |
| MB 14400E 11225N | 1 | 2.1 | 49 | 9 | 76 | 1 | 1 | 1 |
| MB 14400E 11200N | 3 | 1.0 | 45 | 12 | 82 | 7 | 2 | 1 |
| MB 14400E 11175N | 8 | .4 | 149 | 14 | 118 | 6 | 1 | 4 |
| MB 14400E 11150N | 24 | .5 | 78 | 20 | 104 | 21 | 1 | 2 |
| MB 14400E 11125N | 6 | .8 | 68 | 15 | 104 | 4 | 1 | 2 |
| MB 14400E 11100N | 2 | .4 | 75 | 20 | 77 | 5 | 1 | 2 |
| MB 14400E 11075N | 21 | .4 | 56 | 17 | 73 | 3 | 1 | 3 |
| MB 14400E 11050N | 37 | .8 | 68 | 17 | 100 | 1 | 1 | 1 |
| MB 14400E 11025N | 2 | .9 | 82 | 20 | 92 | 6 | 1 | 1 |
| MB 14400E 11000N | 36 | 1.4 | 59 | 13 | 49 | 1 | 1 | 2 |
| MB 14400E 10975N | 1 | .6 | 67 | 17 | 80 | 1 | 1 | 1 |
| MB 14400E 10950N | 2 | .2 | 67 | 12 | 107 | 1 | 1 | 1 |
| MB 14400E 10925N | 45 | 1.0 | 88 | 17 | 62 | 3 | 1 | 3 |
| MB 14400E 10900N | 23 | 1.0 | 74 | 17 | 62 | 1 | 1 | 3 |
| MB 14400E 10875N | 26 | 1.1 | 74 | 18 | 97 | 1 | 1 | 1 |
| MB 14400E 10850N | 64 | .7 | 72 | 17 | 100 | 2 | 1 | 1 |
| MB 14400E 10825N | 4 | .3 | 101 | 31 | 193 | 13 | 1 | 1 |
| MB 14400E 10800N | 63 | .8 | 78 | 21 | 208 | 1 | 1 | 1 |
| MB 14400E 10775N | 20 | .2 | 89 | 19 | 125 | 5 | 1 | 3 |
| MB 14400E 10750N | 5 | 1.0 | 76 | 16 | 100 | 1 | 1 | 1 |
| MB 14400E 10725N | 12 | .7 | 81 | 12 | 73 | 1 | 1 | 2 |
| MB 14400E 10700N | 19 | 1.5 | 70 | 8 | 80 | 1 | 1 | 1 |
| MB 14400E 10675N | 24 | 1.6 | 78 | 9 | 101 | 1 | 1 | 1 |
| MB 14400E 10650N | 37 | 1.3 | 71 | 14 | 57 | 10 | 1 | 2 |
| MB 14400E 10625N | 38 | 1.8 | 106 | 18 | 81 | 13 | 1 | 2 |
| MB 14400E 10600N | 76 | 1.0 | 132 | 16 | 75 | 40 | 1 | 2 |
| MB 14400E 10575N | 146 | .9 | 166 | 19 | 72 | 18 | 1 | 5 |
| MB 14400E 10550N | 215 | 1.1 | 335 | 23 | 75 | 24 | 1 | 5 |
| MB 14400E 10525N | 38 | .2 | 766 | 20 | 121 | 34 | 1 | 6 |
| MB 14400E 10500N | 92 | 2.6 | 349 | 20 | 45 | 15 | 1 | 7 |
| MB 14400E 10475N | 86 | 1.2 | 552 | 15 | 48 | 24 | 1 | 13 |
| MB 14400E 10450N | 60 | .7 | 664 | 23 | 113 | 85 | 4 | 3 |
| MB 14600E 11100N | 32 | .6 | 90 | 9 | 131 | 9 | 1 | 1 |
| MB 14600E 11075N | 2 | .3 | 46 | 14 | 139 | 9 | 1 | 2 |
| MB 14600E 11050N | 64 | .5 | 426 | 40 | 268 | 169 | 1 | 4 |
| MB 14600E 11025N | 130 | .6 | 388 | 29 | 163 | 252 | 1 | 1 |
| MB 14600E 11000N | 354 | .8 | 654 | 28 | 185 | 411 | 3 | 1 |
| MB 14600E 10975N | 180 | 1.1 | 483 | 33 | 131 | 230 | 2 | 2 |
| MB 14600E 10950N | 222 | .3 | 286 | 39 | 121 | 419 | 1 | 3 |
| MB 14600E 10925N | 181 | .1 | 231 | 24 | 106 | 218 | 1 | 2 |
| MB 14600E 10900N | 165 | 1.3 | 328 | 42 | 135 | 415 | 3 | 3 |
| | | | | | | | | |
| | | | | | | | | |

RECEIVED

JUL 18 1991

COMP: KEEWATIN ENGRG.

PPOJ: QUASH CREEK - *Abeydona*

ATTN: B.WHELAN/M.MORRICE

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1S-0263-SJ1+2

DATE: 91/08/06

* SOI; * (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|---------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| MB 188 088 | 118 | .7 | 128 | 83 | 220 | 33 | 1 | 1 |
| MB 188 089 | 1 | .7 | 210 | 35 | 185 | 1 | 1 | 1 |
| MB 188 090 | 5 | .6 | 166 | 30 | 178 | 2 | 1 | 1 |
| MB 188 091 | 2 | 2.1 | 178 | 31 | 289 | 3 | 1 | 1 |
| MB 188 092 | 1 | .8 | 60 | 19 | 153 | 1 | 1 | 1 |
| MB 188 093 | 2 | .6 | 154 | 34 | 219 | 16 | 1 | 1 |
| MB 188 094 | 1 | .7 | 100 | 32 | 227 | 8 | 1 | 1 |
| MB 188 095 | 1 | .2 | 72 | 40 | 174 | 11 | 1 | 1 |
| MB 188 096 | 3 | .9 | 71 | 32 | 234 | 6 | 1 | 1 |
| MB 188 097 | 5 | .3 | 117 | 42 | 219 | 6 | 1 | 1 |
| MB 188 098 | 2 | .9 | 62 | 38 | 246 | 2 | 1 | 1 |
| MB 188 099 | 1 | .8 | 75 | 52 | 341 | 12 | 1 | 1 |
| MB 188 100 | 2 | .8 | 70 | 33 | 337 | 1 | 1 | 1 |
| MB 188 101 | 1 | .9 | 69 | 34 | 311 | 11 | 1 | 1 |
| MB 188 102 | 312 | .7 | 111 | 826 | 1230 | 303 | 1 | 1 |
| MB 188 103 | 17 | .8 | 72 | 64 | 356 | 195 | 1 | 1 |
| MB 188 104 | 6 | .1 | 139 | 119 | 851 | 105 | 1 | 1 |
| MB 188 105 | 1 | .4 | 75 | 36 | 302 | 6 | 1 | 1 |
| MB 188 106 | 2 | .1 | 103 | 149 | 598 | 76 | 1 | 1 |
| MB 188 107 | 16 | 1.1 | 87 | 54 | 313 | 17 | 1 | 1 |
| MB 188 108 | 1 | .1 | 77 | 60 | 498 | 32 | 1 | 1 |
| MB 188 109 | 2 | .1 | 53 | 50 | 377 | 13 | 1 | 1 |
| MB 188 110 | 56 | .1 | 149 | 100 | 1163 | 61 | 1 | 1 |
| MB 188 111 | 3 | .4 | 116 | 35 | 314 | 5 | 1 | 1 |
| MB 188 112 | 4 | .3 | 104 | 37 | 155 | 8 | 1 | 1 |
| MB 188 113 | 6 | .5 | 100 | 27 | 213 | 6 | 1 | 1 |
| MB 188 114 | 1 | .4 | 183 | 46 | 118 | 15 | 1 | 1 |
| MB 188 115 | 1 | .3 | 85 | 27 | 67 | 15 | 1 | 1 |
| MB 188 116 | 1 | .1 | 37 | 24 | 61 | 12 | 1 | 1 |
| MB 188 117 | 2 | .1 | 54 | 45 | 110 | 11 | 1 | 1 |
| MB 188 118 | 1 | .6 | 73 | 37 | 141 | 12 | 1 | 1 |
| MB 188 119 | 63 | .1 | 57 | 53 | 157 | 15 | 1 | 1 |
| MB 188 120 | 2 | .8 | 75 | 48 | 188 | 12 | 1 | 1 |
| MB 188 121 | 1 | .6 | 63 | 60 | 120 | 11 | 1 | 1 |
| MB 188 122 | 1 | .3 | 76 | 53 | 121 | 23 | 1 | 1 |
| MB 188 123 | 3 | .1 | 314 | 56 | 117 | 13 | 1 | 1 |
| MB 188 124 | 10 | .1 | 145 | 44 | 129 | 13 | 1 | 1 |
| MB 188 125 | 2 | .1 | 70 | 56 | 203 | 16 | 1 | 1 |
| MB 188 126 | 1 | .1 | 59 | 51 | 151 | 11 | 1 | 1 |
| MB 188 127 | 1 | .7 | 70 | 64 | 167 | 16 | 1 | 1 |
| MB 188 128 | 2 | .9 | 171 | 68 | 201 | 6 | 1 | 1 |
| MB 188 129 | 1 | 2.1 | 74 | 53 | 105 | 10 | 1 | 1 |
| MB 188 130 | 1 | 1.4 | 153 | 42 | 111 | 4 | 1 | 1 |
| MB 188 131 | 1 | 1.0 | 60 | 58 | 116 | 21 | 1 | 1 |
| MB 188 132 | 2 | 1.4 | 60 | 44 | 116 | 1 | 1 | 1 |
| MB 188 133 | 47 | 1.5 | 58 | 24 | 127 | 1 | 1 | 1 |
| MB 188 135 | 12 | 1.0 | 99 | 22 | 100 | 1 | 1 | 1 |
| MB 188 136 | 2 | 1.5 | 46 | 22 | 98 | 1 | 1 | 1 |
| MB 188 137 | 5 | 2.3 | 39 | 8 | 102 | 1 | 1 | 1 |
| MB 188 138 | 1 | 1.4 | 45 | 9 | 128 | 1 | 1 | 1 |
| MB 188 139 | 1 | 2.6 | 45 | 8 | 94 | 1 | 1 | 1 |
| MB 188 140 | 6 | 1.0 | 30 | 20 | 132 | 1 | 1 | 1 |
| MB 188 141 | 1 | 1.8 | 32 | 12 | 66 | 1 | 1 | 1 |
| MB 188 142 | 3 | 1.3 | 37 | 20 | 92 | 4 | 1 | 1 |
| MB 188 143 | 2 | .8 | 70 | 17 | 124 | 7 | 1 | 1 |
| MB 188 144 | 1 | .8 | 96 | 22 | 94 | 1 | 1 | 1 |
| MB 188 145 | 1 | 2.4 | 31 | 16 | 81 | 1 | 1 | 1 |
| MB 188 146 | 1 | 2.7 | 31 | 23 | 82 | 1 | 1 | 1 |
| MB 188 147 | 2 | 2.0 | 51 | 18 | 100 | 1 | 1 | 1 |
| MB 188 148 | 1 | 1.6 | 54 | 26 | 88 | 1 | 1 | 1 |

COMP: KEEWATIN ENGRG.
 PROJ: QUASH CREEK
 ATTN: B.WHELAN/M.MORRICE

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 1S-0263-SJ3+4
 DATE: 91/08/06
 * SOIL * (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|------------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| MB 188 149 | 4 | 1.0 | 52 | 18 | 123 | 1 | 1 | 1 |
| MB 188 150 | 9 | 3.0 | 31 | 14 | 73 | 1 | 1 | 1 |
| MB 188 151 | 16 | 1.3 | 59 | 16 | 123 | 1 | 1 | 1 |
| MB 188 152 | 3 | 1.2 | 47 | 6 | 93 | 1 | 1 | 1 |
| MB 188 153 | 20 | .1 | 140 | 14 | 99 | 1 | 1 | 1 |
| MB 188 154 | 72 | .1 | 102 | 27 | 36 | 206 | 1 | 4 |
| MB 188 155 | 4 | 1.7 | 54 | 19 | 89 | 1 | 1 | 1 |
| MB 188 156 | 1 | 2.6 | 29 | 8 | 68 | 1 | 1 | 1 |
| MB 188 157 | 2 | 2.5 | 21 | 251 | 63 | 8 | 465 | 1 |
| MB 188 158 | 3 | 1.7 | 30 | 501 | 102 | 369 | 1591 | 1 |
| MB 188 159 | 2 | 2.1 | 30 | 16 | 73 | 1 | 12 | 1 |
| MB 188 160 | 2 | 1.2 | 36 | 18 | 104 | 1 | 1 | 1 |
| MB 188 161 | 122 | .1 | 65 | 99 | 503 | 554 | 30 | 6 |
| MB 188 162 | 13 | 4.3 | 28 | 973 | 110 | 99 | 1870 | 1 |
| MB 188 163 | 1 | 1.2 | 28 | 24 | 90 | 1 | 1 | 1 |
| MB 188 164 | 5 | 2.0 | 30 | 38 | 108 | 1 | 17 | 1 |
| MB 188 165 | 36 | 2.2 | 34 | 211 | 123 | 256 | 842 | 1 |
| MB 188 166 | 24 | 1.7 | 55 | 14 | 123 | 1 | 1 | 1 |
| MB 188 167 | 68 | .1 | 133 | 57 | 161 | 59 | 1 | 1 |
| MB 188 168 | 137 | .9 | 354 | 191 | 444 | 250 | 1 | 1 |
| MB 188 169 | 86 | 1.1 | 84 | 131 | 176 | 108 | 1 | 1 |
| MB 188 170 | 108 | .2 | 231 | 218 | 537 | 279 | 3 | 1 |
| MB 188 171 | 25 | 1.9 | 69 | 22 | 98 | 1 | 1 | 1 |
| MB 188 172 | 152 | .2 | 224 | 185 | 283 | 268 | 20 | 2 |
| MB 188 173 | 99 | .5 | 102 | 23 | 87 | 36 | 1 | 1 |
| MB 188 174 | 143 | 1.0 | 96 | 22 | 97 | 28 | 1 | 1 |
| MB 188 175 | 480 | 2.3 | 117 | 159 | 65 | 44 | 1 | 1 |
| MB 188 176 | 19 | 1.2 | 51 | 20 | 140 | 1 | 1 | 1 |
| MB 188 177 | 22 | 2.4 | 31 | 24 | 100 | 1 | 1 | 1 |
| MB 188 178 | 3 | 2.5 | 30 | 8 | 83 | 1 | 1 | 1 |
| MB 188 179 | 19 | 1.7 | 33 | 13 | 79 | 1 | 1 | 1 |
| MB 188 180 | 11 | 1.9 | 30 | 1 | 102 | 1 | 1 | 1 |
| MB 188 181 | 10 | 2.2 | 33 | 11 | 115 | 1 | 1 | 1 |
| MB 188 182 | 18 | .4 | 259 | 19 | 138 | 1 | 1 | 1 |
| MB 188 183 | 2 | 2.4 | 69 | 3 | 95 | 1 | 1 | 1 |
| MB 188 184 | 4 | 1.6 | 122 | 9 | 126 | 1 | 1 | 1 |
| MB 188 185 | 20 | 2.0 | 75 | 11 | 166 | 1 | 1 | 1 |
| MB 188 186 | 37 | 2.3 | 45 | 28 | 207 | 1 | 1 | 1 |
| MB 188 187 | 16 | 2.2 | 95 | 6 | 80 | 1 | 1 | 1 |
| MB 188 188 | 42 | 1.2 | 546 | 439 | 133 | 481 | 1300 | 6 |
| MB 188 189 | 64 | 1.0 | 907 | 668 | 106 | 451 | 1644 | 5 |
| MB 188 190 | 38 | 2.3 | 305 | 533 | 62 | 539 | 1812 | 1 |
| MB 188 191 | 12 | 2.1 | 206 | 930 | 63 | 413 | 1554 | 1 |
| MB 188 192 | 1 | 3.4 | 123 | 9 | 71 | 1 | 1 | 1 |
| MB 188 193 | 21 | 1.4 | 195 | 852 | 101 | 284 | 1691 | 1 |
| MB 188 194 | 5 | 2.4 | 62 | 13 | 72 | 1 | 1 | 1 |
| MB 188 195 | 4 | 2.4 | 89 | 7 | 113 | 1 | 1 | 1 |
| MB 188 196 | 6 | 1.4 | 114 | 15 | 83 | 1 | 1 | 1 |
| MB 188 197 | 1 | 3.0 | 31 | 12 | 89 | 1 | 1 | 1 |
| MB 10750N 11325E | 3 | 1.9 | 75 | 19 | 237 | 1 | 1 | 1 |
| MB 10750N 11350E | 16 | 2.0 | 110 | 34 | 315 | 1 | 1 | 1 |
| MB 10750N 11375E | 14 | 1.0 | 90 | 44 | 351 | 1 | 1 | 1 |
| MB 10750N 11400E | 19 | 2.5 | 114 | 70 | 449 | 1 | 1 | 1 |
| MB 10750N 11425E | 12 | 2.3 | 101 | 34 | 339 | 1 | 1 | 1 |
| MB 10750N 11700E | 18 | 2.8 | 98 | 204 | 730 | 23 | 1 | 1 |
| MB 10750N 11725E | 5 | 1.3 | 69 | 32 | 247 | 1 | 1 | 1 |
| MB 10750N 11750E | 13 | 1.2 | 62 | 27 | 192 | 1 | 1 | 1 |
| MB 10750N 11775E | 22 | 1.1 | 71 | 31 | 216 | 1 | 1 | 1 |
| MB 10750N 11800E | 40 | 1.0 | 73 | 28 | 238 | 1 | 1 | 1 |
| MB 10750N 11825E | 67 | .8 | 57 | 28 | 180 | 6 | 1 | 1 |

COMP: KEEWATIN ENGRG.

PROJ: 188

ATTN: BONNIE WHELAN/MARTY MORRICE

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1S-0410-SJ3+4

DATE: 91/08/17

* SOIL * (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|----------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| MB 3+00S 1+00E | 2 | 1.1 | 55 | 46 | 155 | 8 | 2 | 1 |
| MB 460 | 37 | 1.3 | 139 | 157 | 457 | 86 | 5 | 1 |
| MB 461 | 21 | 1.2 | 57 | 104 | 278 | 62 | 2 | 1 |
| MB 462 | 6 | 1.6 | 99 | 106 | 301 | 71 | 3 | 1 |
| MB 463 | 4 | .7 | 85 | 93 | 211 | 65 | 3 | 1 |
| MB 464 | 5 | 1.3 | 94 | 65 | 151 | 40 | 1 | 1 |
| MB 465 | 4 | 1.0 | 137 | 65 | 178 | 102 | 2 | 1 |
| MB 466 | 116 | 1.6 | 142 | 61 | 152 | 94 | 1 | 1 |
| MB 467 | 5 | .3 | 105 | 59 | 156 | 34 | 1 | 1 |
| MB 468 | 2 | .7 | 119 | 45 | 132 | 22 | 1 | 1 |
| MB 469 | 2 | 1.3 | 80 | 37 | 159 | 19 | 4 | 1 |
| MB 470 | 15 | .7 | 135 | 57 | 139 | 39 | 2 | 1 |
| MB 471 | 2 | .2 | 235 | 43 | 120 | 25 | 2 | 1 |
| MB 472 | 2 | .5 | 156 | 56 | 158 | 37 | 1 | 1 |
| MB 473 | 14 | 1.0 | 186 | 117 | 261 | 87 | 4 | 1 |
| MB 474 | 7 | .9 | 106 | 50 | 173 | 72 | 5 | 1 |
| MB 475 | 18 | .7 | 162 | 71 | 242 | 144 | 10 | 1 |
| MB 476 | 9 | .7 | 378 | 57 | 173 | 76 | 5 | 1 |
| MB 477 | 16 | .5 | 357 | 48 | 102 | 42 | 5 | 1 |
| MB 478 | 11 | .7 | 114 | 53 | 147 | 27 | 4 | 1 |
| MB 479 | 2 | .5 | 101 | 68 | 194 | 44 | 4 | 1 |
| MB 480 | 5 | .6 | 143 | 66 | 146 | 54 | 4 | 1 |
| MB 481 | 2 | .6 | 199 | 91 | 162 | 66 | 7 | 1 |
| MB 482 | 12 | .3 | 403 | 70 | 215 | 95 | 10 | 1 |
| MB 483 | 105 | 9.3 | 238 | 1067 | 1772 | 302 | 30 | 1 |
| MB 484 | 144 | 3.4 | 463 | 508 | 591 | 278 | 12 | 1 |
| MB 485 | 3 | .4 | 83 | 35 | 92 | 15 | 4 | 1 |
| MB 486 | 17 | .1 | 56 | 30 | 124 | 12 | 4 | 1 |
| MB 487 | 12 | .1 | 71 | 28 | 107 | 18 | 2 | 1 |
| MB 488 | 2 | .1 | 48 | 29 | 178 | 15 | 2 | 1 |
| MB 489 | 17 | .4 | 100 | 54 | 471 | 12 | 1 | 1 |
| MB 490 | 5 | .4 | 211 | 43 | 166 | 17 | 2 | 1 |
| MB 491 | 9 | 1.0 | 369 | 54 | 147 | 25 | 4 | 1 |
| MB 492 | 2 | .8 | 99 | 49 | 193 | 23 | 3 | 1 |
| MB 493 | 96 | 7.9 | 3097 | 196 | 1241 | 99 | 19 | 1 |
| MB 494 | 18 | .8 | 201 | 156 | 645 | 29 | 3 | 1 |
| MB 495 | 3 | .7 | 90 | 37 | 157 | 19 | 1 | 1 |
| MB 496 | 16 | .1 | 85 | 38 | 130 | 16 | 2 | 1 |
| MB 497 | 17 | .1 | 156 | 30 | 75 | 11 | 6 | 1 |
| MB 498 | 1 | .7 | 108 | 45 | 189 | 18 | 3 | 1 |
| MB 499 | 2 | 1.1 | 108 | 45 | 396 | 14 | 1 | 1 |
| MB 500 | 3 | .8 | 87 | 39 | 264 | 17 | 1 | 1 |
| MB 501 | 2 | .4 | 100 | 50 | 141 | 28 | 5 | 1 |
| MB 502 | 2 | .9 | 100 | 44 | 124 | 18 | 1 | 1 |
| MB 503 | 4 | .9 | 125 | 54 | 131 | 24 | 3 | 1 |
| DC 10+00W | 1 | 1.3 | 46 | 37 | 204 | 14 | 3 | 1 |
| DC 09+75W | 2 | 1.8 | 39 | 25 | 272 | 1 | 1 | 1 |
| DC 09+50W | 3 | 2.0 | 37 | 25 | 235 | 1 | 1 | 1 |
| DC 09+25W | 2 | 1.2 | 80 | 32 | 166 | 13 | 1 | 1 |
| DC 09+00W | 6 | .7 | 98 | 47 | 228 | 34 | 2 | 1 |
| DC 08+75W | 3 | .5 | 120 | 52 | 260 | 41 | 2 | 1 |
| DC 08+50W | 8 | .7 | 134 | 69 | 363 | 62 | 5 | 1 |
| DC 08+25W | 2 | .6 | 121 | 54 | 262 | 44 | 4 | 1 |
| DC 08+00W | 1 | .9 | 106 | 47 | 160 | 26 | 1 | 1 |
| DC 07+75W | 1 | .8 | 148 | 41 | 124 | 25 | 4 | 1 |
| DC 07+50W | 3 | .9 | 117 | 44 | 204 | 35 | 3 | 1 |
| DC 07+25W | 29 | .8 | 109 | 56 | 273 | 47 | 3 | 1 |
| DC 07+00W | 13 | .4 | 115 | 26 | 118 | 14 | 4 | 1 |
| DC 06+75W | 18 | .1 | 129 | 26 | 119 | 15 | 4 | 1 |
| DC 06+50W | 2 | .4 | 104 | 33 | 198 | 25 | 3 | 1 |

COMP: KEEWATIN ENGRG.

PROJ: 188

ATTN: BONNIE WHELAN/MARTY MORRICE

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1S-0410-SJ1+2

DATE: 91/08/17

• SOIL • (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|----------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MB 4+50N 0+90W | 98 | 5.4 | 376 | 409 | 802 | 251 | 20 | 1 |
| MB 4+50N 0+80W | 2 | 1.5 | 98 | 53 | 125 | 42 | 3 | 1 |
| MB 4+50N 0+70W | 4 | 1.4 | 81 | 67 | 128 | 41 | 3 | 1 |
| MB 4+50N 0+60W | 1 | .9 | 86 | 49 | 137 | 31 | 3 | 1 |
| MB 4+50N 0+50W | 2 | .2 | 47 | 36 | 63 | 26 | 6 | 1 |
| MB 4+50N 0+40W | 3 | 1.3 | 82 | 52 | 98 | 29 | 3 | 1 |
| MB 4+50N 0+20W | 2 | .7 | 46 | 41 | 102 | 22 | 3 | 1 |
| MB 4+50N 0+10W | 1 | .6 | 221 | 41 | 84 | 27 | 5 | 1 |
| MB 4+50N 0+00E | 1 | .2 | 47 | 30 | 70 | 15 | 1 | 1 |
| MB 4+50N 0+10E | 2 | .1 | 35 | 39 | 92 | 11 | 1 | 1 |
| MB 4+50N 0+20E | 1 | .4 | 49 | 37 | 89 | 16 | 1 | 1 |
| MB 4+50N 0+30E | 4 | .2 | 44 | 37 | 131 | 16 | 1 | 1 |
| MB 4+50N 0+40E | 6 | .1 | 63 | 45 | 152 | 16 | 1 | 1 |
| MB 4+50N 0+60E | 3 | .4 | 165 | 122 | 192 | 56 | 7 | 1 |
| MB 4+50N 0+80E | 15 | .1 | 1066 | 43 | 71 | 67 | 42 | 5 |
| MB 4+50N 0+90E | 2 | .1 | 63 | 52 | 118 | 20 | 3 | 1 |
| MB 4+50N 1+00E | 2 | .2 | 48 | 47 | 100 | 24 | 4 | 1 |
| MB 3+50N 1+80W | 6 | .7 | 142 | 162 | 363 | 87 | 7 | 1 |
| MB 3+50N 1+70W | 19 | 1.4 | 158 | 192 | 316 | 81 | 4 | 1 |
| MB 3+50N 0+90W | 12 | 1.0 | 128 | 81 | 205 | 49 | 3 | 1 |
| MB 3+50N 0+70W | 1 | 1.0 | 147 | 75 | 172 | 45 | 4 | 1 |
| MB 3+50N 0+50W | 4 | 1.0 | 80 | 64 | 214 | 47 | 4 | 1 |
| MB 3+50N 0+30W | 2 | 1.4 | 189 | 84 | 232 | 50 | 5 | 1 |
| MB 3+50N 0+20W | 2 | 1.4 | 105 | 76 | 459 | 38 | 3 | 1 |
| MB 3+50N 0+10W | 4 | 1.2 | 121 | 95 | 336 | 45 | 3 | 1 |
| MB 3+50N 0+00E | 2 | 1.3 | 74 | 85 | 244 | 31 | 3 | 1 |
| MB 3+50N 0+20E | 3 | 1.6 | 101 | 141 | 310 | 48 | 4 | 1 |
| MB 3+50N 0+30E | 16 | 1.8 | 90 | 79 | 367 | 36 | 1 | 1 |
| MB 3+50N 0+40E | 2 | .9 | 156 | 38 | 137 | 33 | 5 | 1 |
| MB 3+50N 0+50E | 1 | .3 | 67 | 23 | 69 | 17 | 10 | 1 |
| MB 3+50N 0+60E | 2 | .1 | 294 | 38 | 63 | 28 | 16 | 1 |
| MB 3+50N 0+80E | 1 | 1.0 | 180 | 43 | 82 | 24 | 3 | 1 |
| MB 3+50N 0+90E | 3 | .6 | 139 | 35 | 66 | 29 | 7 | 1 |
| MB 3+00S 2+00W | 2 | .2 | 77 | 25 | 78 | 7 | 4 | 1 |
| MB 3+00S 1+90W | 4 | .5 | 80 | 30 | 74 | 10 | 4 | 1 |
| MB 3+00S 1+80W | 1 | .3 | 88 | 24 | 82 | 13 | 4 | 1 |
| MB 3+00S 1+70W | 2 | .4 | 85 | 32 | 113 | 13 | 4 | 1 |
| MB 3+00S 1+60W | 2 | .5 | 65 | 44 | 95 | 11 | 4 | 1 |
| MB 3+00S 1+50W | 3 | .7 | 101 | 52 | 83 | 15 | 3 | 1 |
| MB 3+00S 1+40W | 1 | .8 | 159 | 50 | 121 | 14 | 6 | 1 |
| MB 3+00S 1+30W | 1 | .9 | 133 | 62 | 125 | 15 | 4 | 1 |
| MB 3+00S 1+20W | 2 | 1.5 | 175 | 112 | 120 | 17 | 5 | 1 |
| MB 3+00S 1+10W | 2 | 1.1 | 158 | 93 | 139 | 13 | 4 | 1 |
| MB 3+00S 1+00W | 1 | 1.4 | 153 | 104 | 149 | 24 | 6 | 1 |
| MB 3+00S 0+80W | 4 | 3.2 | 207 | 178 | 155 | 28 | 7 | 1 |
| MB 3+00S 0+70W | 2 | 1.6 | 267 | 101 | 143 | 25 | 4 | 1 |
| MB 3+00S 0+50W | 3 | 1.9 | 452 | 112 | 122 | 29 | 5 | 1 |
| MB 3+00S 0+40W | 19 | 2.9 | 943 | 149 | 115 | 21 | 7 | 1 |
| MB 3+00S 0+30W | 12 | 1.9 | 315 | 159 | 124 | 15 | 4 | 1 |
| MB 3+00S 0+10W | 22 | 8.5 | 160 | 172 | 205 | 26 | 5 | 1 |
| MB 3+00S 0+00E | 16 | 5.7 | 132 | 129 | 200 | 14 | 4 | 1 |
| MB 3+00S 0+10E | 4 | 5.3 | 184 | 264 | 446 | 28 | 5 | 1 |
| MB 3+00S 0+20E | 2 | 3.0 | 136 | 84 | 157 | 22 | 3 | 1 |
| MB 3+00S 0+30E | 3 | 4.2 | 116 | 122 | 158 | 13 | 4 | 1 |
| MB 3+00S 0+40E | 2 | 7.4 | 109 | 395 | 246 | 21 | 5 | 1 |
| MB 3+00S 0+50E | 5 | 8.6 | 137 | 189 | 170 | 22 | 5 | 1 |
| MB 3+00S 0+60E | 11 | 24.5 | 249 | 381 | 366 | 81 | 15 | 1 |
| MB 3+00S 0+70E | 2 | 1.9 | 81 | 53 | 104 | 30 | 3 | 1 |
| MB 3+00S 0+80E | 1 | 2.4 | 86 | 44 | 111 | 27 | 2 | 1 |
| MB 3+00S 0+90E | 2 | 1.6 | 57 | 43 | 168 | 26 | 3 | 1 |

COMP: KEEWATIN ENGRG.
PROJ: 181 QUASH CREEK
ATTN: B.WHELAN/D.MEHNER

MIN-EN LABS — ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 1S-0472-SJ2+3
DATE: 91/08/21
• SOIL • (ACT:F31)

| SAMPLE NUMBER | AU-FIRE PPB | AG PPM | CU PPM | PB PPM | ZN PPM | AS PPM | SB PPM | MO PPM |
|----------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| 91 RV 181 S001 | 11 | .7 | 126 | 74 | 473 | 25 | 4 | 4 |
| 91 RV 181 S002 | 180 | 1.0 | 330 | 58 | 203 | 283 | 1 | 1 |
| 91 RV 181 S003 | 27 | .2 | 198 | 32 | 115 | 59 | 1 | 1 |
| 91 RV 181 S004 | 17 | 1.4 | 82 | 25 | 122 | 15 | 1 | 1 |
| 91 RV 181 S005 | 15 | .2 | 281 | 44 | 136 | 42 | 1 | 1 |
| 91 RV 181 S006 | 10 | .6 | 99 | 26 | 51 | 20 | 1 | 2 |
| 91 RV 181 S007 | 580 | .2 | 302 | 56 | 171 | 110 | 1 | 1 |
| 91 RV 181 S008 | 63 | .2 | 283 | 70 | 132 | 157 | 1 | 1 |
| 91 RV 181 S009 | 110 | .2 | 637 | 103 | 130 | 10 | 6 | 1 |
| 91 RV 181 S010 | 453 | .7 | 415 | 33 | 118 | 1824 | 13 | 1 |

APPENDIX VII

Soil Sample Descriptions

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 186

Results Plotted By: _____

Area (Grid): Quash creek MAIN GRID

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 5th

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|-------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| | Baseline 10442N | 15375 | | | N | | | | | | | | R | 20cm | ✓ | | ✓ | | MDBR | |
| | | 15350 | 10% A.F. | | N | | | | | | | | B | 20cm | ✓ | | ✓ | | DRBR | |
| | | 15200 | m. off-line | | N | | | | | | | | A | 0 | | ✓ | ✓ | | GRB | |
| | | 15100 | m. off-line | | N | | | | | | | | A | 0 | | ✓ | ✓ | | LTBR | |
| | | 14950 | 30% A.F. | | N | | | | | | | | B | 20cm | ✓ | | ✓ | | LTBR | |
| | | 14925 | 30% A.F. | | N | | | | | | | | B | 15cm | ✓ | | ✓ | | BR | |
| | | 14900 | 20% A.F. | | N | | | | | | | | B | 15cm | ✓ | | ✓ | | BR | |
| | | 14875 | 20% A.F. | | N | | | | | | | | B | 15cm | ✓ | | ✓ | | BR | |
| | | 14850 | 40% A.F. | | N | | | | | | | | B | 15cm | ✓ | | ✓ | | LTBR | |
| | | 14825 | | | N | | | | | | | | B | 15cm | ✓ | | ✓ | | BRBR | |
| | | 14775 | ON Road | | | Flat | | | | | | | B | 15cm | ✓ | | ✓ | | BRBR | |
| | | 14750 | | | W | | | | | | | | B | 25cm | ✓ | | ✓ | | DRBR | |
| | | 14725 | | | W | | | | | | | | B | 25cm | ✓ | | ✓ | | DRBR | |
| | | 14700 | 20% A.F. | | | Flat | | | | | | | B | 25cm | ✓ | | ✓ | | LTBR | |
| | | 14675 | | | | Flat | | | | | | | B | 25cm | ✓ | | ✓ | | DRBR | |
| | | 14650 | | | Wet | | | | | | | | B | 25cm | ✓ | | ✓ | | DRBR | |
| | | 14625 | | | | Flat | | | | | | | B | 25cm | ✓ | | ✓ | | DRBR | |
| | | 14575 | | | | Flat | | | | | | | A | | | ✓ | ✓ | | BR | |
| | | 14550 | | | | Flat | | | | | | | A | | | ✓ | ✓ | | BR | |
| | | 14525 | | | | Flat | | | | | | | A | | ✓ | | ✓ | | MDBR | |
| | | 14050 | at horizon & lake shore | | | Flat | | | | | | | B | | ✓ | | ✓ | | MDBR | |
| | | 14475 | | | | Flat | | | | | | | B | | ✓ | | ✓ | | MDBR | |
| | | 14450 | 10% A.F. | | N | | | | | | | | B | | ✓ | | ✓ | | MDBR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 181
 Area (Grid): Quash creek WEST GRID
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 14/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------------|------|------|-------|---------|----------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample in cm | Good | Poor | Drift | Bedrock | Material |
| | 10600E | 10400N | SSC | | S | | | | | | | | B | 20 | / | | | | | PR |
| | | 10875N | SSC | | | | | | | | | | | 25 | / | | | | | |
| | | 10850N | 25% A.F organics | | | | | | | | | | | 15 | / | | | | | |
| | | 10825N | 25% A.F organics | | | | | | | | | | ↓ | 15 | / | | | | | |
| | | 10800N | sandy | | | | | | | | | | B | 15 | / | / | | | | |
| | | 10775N | sandy | | | | | | | | | | A | 10 | / | / | | | | ↓ |
| | | 10750N | 25% A.F organics | | | | | | | | | | B | 20 | / | | | | | RE |
| | | 10725N | organic | | | | | | | | | | | 15 | / | | | | | RE |
| | | 10700N | organics | | | | | | | | | | | 15 | / | | | | | RE |
| | | 10675N | sand silt | | | | | | | | | | | 20 | / | / | | | | RE |
| | | 10650N | sand silt | | | | | | | | | | ↓ | 20 | / | / | | | | RE |
| | | 10625N | sand silt | | | | | | | | | | B | 20 | / | / | | | | RE |
| | | 10600N | sand silt | | | | | | | | | | A | 15 | / | / | | | | RE |
| | | 10575N | sand silt | | | | | | | | | | ↓ | 10 | / | / | | | | RE |
| | | 10550N | | | | | | | | | | | A | 10 | / | / | | | | RE |
| | | 10525N | | | | | | | | | | | | | | | | | | |
| | | 10500N | } | | | | | | | | | | | | | | | | | |
| | | 10475N | } | | | | | | | | | | | | | | | | | |
| | | 10450N | } | | | | | | | | | | O% | A | 10 | / | / | | | RE |
| | | 10425N | } | | | | | | | | | | O% | A | 10 | / | / | | | RE |
| | ↓ | 10400N | } | | | | | | | | | | woss | A | 10 | / | / | | | RE |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Brown's creek (Quash creek) WEST QMO
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 24th

| Sample Number | Sample Location | | Notes | Topography | | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|----------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|------------|--------|-----------------|-------------------------|---------------------|-----------|--------|----------|--------|-------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent | Material | Colour | |
| | | | | | | | | | | | | | | | | Good | Poor | | | | Drift |
| | Tip Line | | | | | | | | | | | | | | | | | | | | |
| | 10750N | 12400E | In a garden | | NE | | | | | | | | A | surface | | ✓ | ✓ | | | LR | |
| | | 12425 E | In a garden 65% A.F. | | NE | | | | | | | | B | 10cm | | ✓ | ✓ | | | TR | |
| | | 12450 E | clay like | | E | | | | | | | | B | 10cm | ✓ | ✓ | | | YI | | |
| | | 12475 E | sandy | | E | | | | | | | | A | surface | | ✓ | ✓ | | | YI | |
| | | 12500 E | clay like | | E | | | | | | | | B | 12cm | ✓ | ✓ | | | RR | | |
| | | 12525 E | sandy | | E | | | | | | | | B | 10cm | | ✓ | ✓ | | | RR | |
| | | 12550 E | sandy | | E | | | | | | | | A | surface | | ✓ | ✓ | | | RR | |
| | | 12575 E | sandy | | E | | | | | | | | A | surface | | ✓ | ✓ | | | BR | |
| | | 12600 E | organic 50% A.F. | | E | | | | | | | | B | 20cm | ✓ | ✓ | | | BR | | |
| | | 12625 E | organic 50% A.F. | | E | | | | | | | | B | 20cm | ✓ | ✓ | | | BR | | |
| | | 12650 E | | | E | | | | | | | | A | surface | | ✓ | ✓ | | | RR | |
| | | 12675 E | N.S. - Talus no soil. | | | | | | | | | | | | | | | | | | |
| | | 12700 E | organic sandy | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | BR | |
| | | 12725 E | | | E | | | | | | | | B | 25cm | | ✓ | ✓ | | | BR | |
| | | 12750 E | N.S. - outcrop | | | | | | | | | | | | | | | | | | |
| | | 12775 E | organic 50% A.F. | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | BR | |
| | | 12800 E | N.S. | | | | | | | | | | | | | | | | | | |
| | | 12825 E | 50% A.F. on top of outcrop | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | DR | |
| | | 12850 E | organic | | E | | | | | | | | A | 5cm | | ✓ | ✓ | | | TR | |
| | | 12875 E | 25% A.F. | | E | | | | | | | | B | 5cm | | ✓ | ✓ | | | TR | |
| | | 12900 E | 25% A.F. | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | TR | |
| | | 12925 E | 25% A.F. | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | TR | |
| | | 12950 E | 50% A.F. | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | TR | |
| | | 12975 E | 50% A.F. | | E | | | | | | | | B | 25cm | | ✓ | ✓ | | | BR | |
| | 10750N | 13000E | N.S. - NO SOIL | | | | | | | | | | | | | | | | | | |
| | 1300E | 10725N | 50% A.F. | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | YI | |
| | 1300E | 10700N | organic 75% A.F. | | E | | | | | | | | B | 20cm | | ✓ | ✓ | | | TR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Quashcoab (Arms creek) WEST GRID

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 10th

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|-------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|--------------|--------------|--------|---------|----------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Poor | Parent | Bedrock | Material |
| | 10750N | 11300E | N.S. No soil | | | | | | | | | | A | 10cm | ✓ | | ✓ | | | BR |
| | | 11325 | sandy | | W | | | | | | | | A | 20cm | ✓ | | ✓ | | | BR |
| | | 11350 | sandy | | W | | | | | | | | A | 5cm | ✓ | | ✓ | | | BR |
| | | 11375 | sandy | | W | | | | | | | | A | 5cm | ✓ | | ✓ | | | BR |
| | | 11400 | sandy | | W | | | | | | | | A | 5cm | ✓ | | ✓ | | | BR |
| | | 11425 | sandy | | W | | | | | | | | A | 5cm | ✓ | | ✓ | | | BR |
| | | 11450 | | | | | | | | | | | | | | | | | | |
| | | 11475 | | | | | | | | | | | | | | | | | | |
| | | 11500 | | | | | | | | | | | | | | | | | | |
| | | 11525 | | | | | | | | | | | | | | | | | | |
| | | 11550 | | | | | | | | | | | | | | | | | | |
| | | 11575 | | | | | | | | | | | | | | | | | | |
| | | 11600 | | | | | | | | | | | | | | | | | | |
| | | 11625 | | | | | | | | | | | | | | | | | | |
| | | 11650 | | | | | | | | | | | | | | | | | | |
| | | 11675 | | | | | | | | | | | | | | | | | | |
| | | 11700 | | | | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |
| | | 11725 | organics, SSC, 20% A.F. | | E | | | | | | | | B | 15cm | | ✓ | ✓ | | | BR |
| | | 11750 | grainy | | W | | | | | | | | B | 5cm | | ✓ | ✓ | | | BR |
| | | 11775 | grainy | | W | | | | | | | | A | 5cm | | ✓ | ✓ | | | BR |
| | | 11800 | grainy | | W | | | | | | | | A | 15cm | | ✓ | ✓ | | | BR |
| | | 11825 | organics | | W | | | | | | | | B | 20cm | | ✓ | ✓ | | | BR |
| | | 11850 | organics | | W | | | | | | | | B | 20cm | | ✓ | ✓ | | | BR |
| | | 11875 | | | W | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |
| | | 11900 | | | W | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |
| | | 11925 | | | W | | | | | | | | B | 10cm | ✓ | | ✓ | | | BR |
| | | 11950 | 25% A.F. SSC | | W | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |
| | 10750N | 11975 | 25% A.F. SSC | | W | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 1488
 Area (Grid): Quash creek - (Bruno creek) WEST Q 110
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 10th

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|-----------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|--------------|--------------|--------------|------------------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Poor | Parent Drift | Material Bedrock | Colour |
| | 10900N | 10700E | cutcrop | | SE | | | | | | | | A | 0cm | | | | | BR | |
| | | 10725E | cutcrop | | SE | | | | | | | | A | 0cm | | | | | BR | |
| | | 10750E | cutcrop | | SE | | | | | | | | A | 0cm | | | | | BR | |
| | | 10775E | Tallus slope | | SE | | | | | | | | A | 0cm | | | | | BR | |
| | | 10800E | Tallus slope | | SE | | | | | | | | A | 0cm | | | | | BR | |
| | | 10825E | N.S. - Tallus | | | | | | | | | | | | | | | | | |
| | | 10850E | N.S. - SNOW | | | | | | | | | | | | | | | | | |
| | | 10875E | 50% A.F. Pea size | | | Flat | | | | | MOSS | | B | 10cm | | | | | BR | |
| | | 10900E | 75% A.F. Pea size | | | Flat | | | | | OS | | A | 0cm | | | | | BR | |
| | | 10925E | } N.S. snowpack | | | | | | | | | | | | | | | | | |
| | | 10950E | | | | | | | | | | | | | | | | | | |
| | | 10975E | | | | | | | | | | | | | | | | | | |
| | | 11000E | | | | | | | | | | | | | | | | | | |
| | | 11025E | } middle of snow pack | | | | | | | | | | A | 0cm | | | | | BR | |
| | | 11050E | | | | | | | | | | | | | | | | | | |
| | | 11100E | } snow pack | | | | | | | | | | | | | | | | | |
| | | 11125E | | | | | | | | | | | | B | 15cm | | | | | BR |
| | | 11150E | organics | | W | | | | | | | | B | 15cm | | | | | BR | |
| | | 11175E | organics | | W | | | | | | | | A | 0cm | | | | | BR | |
| | | 11200E | W.A.F. | | W | | | | | | | | A | 0cm | | | | | BR | |
| | | 11225E | sandy | | W | | | | | | | | B | 20cm | | | | | BR | |
| | | 11250E | organics | | W | | | | | | | | B | 20cm | | | | | BR | |
| | | 11275E | sandy | | W | | | | | | | | A | 0cm | | | | | BR | |
| | | 11300E | organics | | W | | | | | | | | B | 15cm | | | | | BR | |
| | 10900N | 11300E | organics | | W | | | | | | | | B | 15cm | | | | | BR | |
| | 11300E | 10875N | | | W | | | | | | | | B | 15cm | | | | | SE | |
| | | 10850N | | | W | | | | | | | | B | 20cm | | | | | BR | |
| | | 10825N | | | W | | | | | | | | A | 15cm | | | | | BR | |
| | 11300E | 10775N | | | W | | | | | | | | A | 15cm | | | | | BR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Zussh Creek (WEST GRID)
 Collectors: C.K

Results Plotted By: _____

Map: _____ N.T.S.: _____

Date: 8/7/91

| Sample Number | Sample Location | | Notes | Topography | | | | | Vegetation | | | | | Soil Data | | | | | |
|---------------|-----------------|---------|----------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|--------|-----------------|-------------------------|---------------------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | Parent Material | Colour | |
| | | | % | | | | | | | | | | | | Good | Poor | Drift | Bedrock | Colour |
| 91CK1885 | 9675 | 12200 | | | SW | | | | | | | | A | 20 | | ✓ | | | LB |
| | 650 | | N/S - talus to large | | SW | | | | | | | | A | 20 | | ✓ | | | LB |
| | 625 | | poor soil conditions | | SW | | | | | | | | A | 20 | | ✓ | | | LB |

| | | | | | | | | | | | | | | | | | | | |
|----------|-------|-------|---------------------------|--|---|--|--|--|--|--|--|--|---|----|---|---|--|--|----|
| 91CK1885 | 10025 | 12200 | 10 organics good soils | | 2 | | | | | | | | B | 30 | ✓ | | | | DB |
| | 050 | | | | 2 | | | | | | | | B | 30 | ✓ | | | | DB |
| | 075 | | | | 2 | | | | | | | | B | 40 | ✓ | | | | DB |
| | 10100 | | | | 2 | | | | | | | | B | 30 | ✓ | | | | DB |
| | 125 | | | | 2 | | | | | | | | B | 30 | ✓ | | | | DB |
| | 150 | | | | 2 | | | | | | | | A | 30 | ✓ | | | | DB |
| | 175 | | | | 2 | | | | | | | | A | 30 | ✓ | | | | DB |
| | 10200 | | | | 2 | | | | | | | | A | 40 | ✓ | | | | DB |
| | 225 | | | | 2 | | | | | | | | A | 30 | ✓ | | | | DB |
| | 250 | ↓ | 50 ang frags | | 2 | | | | | | | | A | 40 | ✓ | ✓ | | | DB |
| 91CK1885 | 10000 | 12025 | | | ✓ | | | | | | | | B | 30 | ✓ | | | | DB |
| | | 050 | | | ✓ | | | | | | | | B | 30 | ✓ | | | | DB |
| | | 075 | | | ✓ | | | | | | | | B | 30 | ✓ | | | | DB |
| | | 12100 | | | ✓ | | | | | | | | A | 30 | ✓ | | | | DB |
| | | 125 | | | ✓ | | | | | | | | B | 30 | ✓ | | | | DB |
| | | 150 | | | ✓ | | | | | | | | B | 30 | ✓ | | | | DB |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): QUASH CREEK (WEST GRID)

Map: _____ N.T.S.: _____

Collectors: C.K

Date: 8/7/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | |
|---------------|-----------------|---------|----------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | Parent | Material | Colour |
| | | | % | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| 91CK1885 | 10525N | 13000E | 10 org | | Z | | | ✓ | | | | | B | 30 | ✓ | | | | LB |
| | 550 | | 20 ang frags | | Z | | | ✓ | | | | | A | 30 | ✓ | | | | LB |
| | 575 | | 20 ang frags | | Z | | | ✓ | | | | | A | 40 | | ✓ | | | LB |
| | 10600 | | 20 org | | Z | | | | ✓ | | | | A | 30 | ✓ | | | | LB |
| | 625 | | 10 ang frags | | Z | | | | | | | | A | 30 | ✓ | | | | LB |
| | 10650 | | 40 org | | Z | | | | | | ✓ | | A | 30 | ✓ | | | | LB |
| 91CK1885 | 12275E | 10000N | good B horizon | | | | | ✓ | | | | ✓ | B | 30 | ✓ | | | | RB |
| | 250 | | | | | | | ✓ | | | | ✓ | B | 30 | | ✓ | | | DB |
| | 275 | | | | | | | ✓ | | | | ✓ | B | 40 | ✓ | | | | DB |
| | 12200 | | | | | | | ✓ | | | | ✓ | B | 30 | ✓ | | | | DB |
| 91CK1885 | 9975 | 12200E | 20 ang frags | | S | | | | | | | | B | 30 | ✓ | | | | DB |
| | 950 | | N/S snow | | S | | | | | | | | | | | | | | |
| | 975 | | talus | | S | | | | | | | | B | 40 | ✓ | | | | DB |
| | 9900 | | | | S | | | | | | | | A | 40 | | ✓ | | | DB |
| | 875 | | 20% frags | | S | | | | | | | | A | 40 | ✓ | | | | DB |
| | 850 | | | | S | | | | | | | | A | 30 | ✓ | | | | RB |
| | 825 | | | | S | | | | | | | | A | 20 | ✓ | | | | DB |
| | 9900 | | | | S | | | | | | | | A | | | ✓ | | | LB |
| | 775 | | | | S | | | | | | | | A | | | ✓ | | | LB |
| | 750 | | | | S | | | | | | | | A | | | ✓ | | | LB |
| | 725 | | N/S | | S | | | | | | | | | | | ✓ | | | LB |
| | 9700 | | | | S | | | | | | | | A | | ✓ | | | | LB |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): QUASH CREEK (WEST GRID)
 Collectors: C.K.

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: 8/7/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|---------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|--------------|--------------------------|--------------|------------------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Development Poor | Parent Drift | Material Bedrock | Colour |
| 91CK1885 | 9800N | 12000E | 20% ang frags | | N | | | | | | | | A | 30 | | ✓ | | | DB | |
| | 875 | | talus | | N | | | | | | | | A | 30 | | ✓ | | | DB | |
| | 850 | | | | N | | | | | | | | A | 40 | | ✓ | | | DB | |
| | 875 | | 40% frags | | N | | | | | | | | A | 40 | | ✓ | | | DB | |
| | 9900 | | N/S | | N | | | | | | | | | | | | | | | |
| | 925 | | N/S | | N | | | | | | | | | | | | | | | |
| | 950 | | N/S | } SNOW PACK | | | | | | | | | | | | | | | | |
| | 975 | | N/S | | | | | | | | | | | | | | | | | |
| | 10000 | | N/S | | | | | | | | | | | | | | | | | |
| | 025 | | N/S | | | | | | | | | | | | | | | | | |
| | 050 | | N/S | | | | | | | | | | | | | | | | | |
| | 075 | | | | | | | | | | | | | | | | | | | |
| | 10100 | | 10 clay | | | | | | | | | | A | 30 | ✓ | | | | DB | |
| | 125 | | 20 ang frags | | | | | | | | | | A | 30 | ✓ | ✓ | | | DB | |
| | 150 | | talus | | | | | | | | | | A | 30 | | ✓ | | | BI | |
| | 175 | | | | | | | | | | | | A | 30 | | ✓ | | | BI | |
| | 10200 | | | | | | | | | | | | A | 40 | | ✓ | | | LB | |
| | 225 | | 40 ang frags | | | | | | | | | | A | 40 | | ✓ | | | LB | |
| | 250 | | talus | | | | | | | | | | A | 30 | | ✓ | | | BI | |
| | 275 | | | | | | | | | | | | A | 40 | | ✓ | | | LB | |
| | 10300 | | | | | | | | | | | | A | 40 | | ✓ | | | DB | |
| | 325 | | | | | | | | | | | | A | 40 | ✓ | | | | LB | |
| | 350 | | | | | | | | | | | | A | 30 | | ✓ | | | DB | |
| | 375 | | | | | | | | | | | | | 30 | ✓ | | | | LB | |
| | 10400 | | | | | | | | | | | | | 30 | | ✓ | | | DB | |
| | 425 | | | | | | | | | | | | | 20 | ✓ | | | | DB | |
| | 10450 | | | | | | | | | | | | | 30 | | ✓ | | | DB | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quash creek (Brown creek WEST GRID)
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 1984

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|-----------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample in cm | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | |
| | 11600E | 10650N | Sand | | W | | | | | | 0% | | A | 25 | ✓ | | ✓ | | BR | |
| | | 10625N | SSC | | W | | | | | | 0% | | B | 10 | ✓ | | ✓ | | BR | |
| | | 10600N | SSC | | W | | | | | | 0% | | B | 10 | ✓ | | ✓ | | BR | |
| | | 10575N | SSC | | W | | | | | | moss | | B | 10 | ✓ | | ✓ | | BR | |
| | | 10550N | Tallus | | S | | | | | | moss | | B | 0 | | ✓ | ✓ | | DR | |
| | | 10525N | N.S | | S | | | | | | | | | | | | | | BR | |
| | | 10500N | Tallus | | S | | | | | | 0% | | A | 0 | | ✓ | ✓ | | BR | |
| | | 10475N | Tallus | | S | | | | | | moss | | B | 0 | | ✓ | ✓ | | DR | |
| | | 10450N | Tallus | | S | | | | | | moss | | B | 20 | | ✓ | ✓ | | DR | |
| | | 10425N | organic | | S | | | | | | moss | | A | 10 | | ✓ | ✓ | | DR | |
| | | 10400N | Tallus | | S | | | | | | 0% | | A | 0 | | ✓ | ✓ | | DR | |
| | | 10375N | Tallus | | S | | | | | | 0% | | A | 0 | | ✓ | ✓ | | DR | |
| | | 10350N | Tallus | | S | | | | | | 0% | | A | 0 | | ✓ | ✓ | | DR | |
| | | 10325N | Tallus | | S | | | | | | 0% | | A | 0 | | ✓ | ✓ | | DR | |
| | | 10300N | | | S | | | | | | 0% | | B | 20 | | ✓ | ✓ | | DR | |
| | | 10275N | | | S | | | | | | 0% | | A | 0 | | ✓ | ✓ | | DR | |
| | | 10250N | | | S | | | | | | moss | | A | 0 | ✓ | | ✓ | | DR | |
| | | 10225N | base of outcrop | | S | | | | | | 0% | | A | 0 | ✓ | | ✓ | | BR | |
| | | 10200N | N.S Tallus | | S | | | | | | | | | | | | | | | |
| | | 10175N | N.S Tallus | | S | | | | | | | | | | | | | | | |
| | 11600E | 10150N | | | | | | | | | moss | | B | 20 | ✓ | | ✓ | | DR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): QUASH CREEK (WEST GRID)
 Collectors: C. K

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: 7/7/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|----------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|--------------|----------------------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Develop-ment | Parent | Material | Colour |
| DICKERS | 12650 | 10000 | N/S } talus | | S | | | | | | | | | | | | | | | |
| | 675 | | N/S } or | | S | | | | | | | | | | | | | | | |
| | 12700 | | N/S } snow | | S | | | | | | | | | | | | | | | |
| | 725 | | N/S } pack | | S | | | | | | | | | | | | | | | |
| | 750 | | 40 ang frags | | S | | | | | | | | A | 40 | | | | | | DB |
| | 12775 | | 20 ang frags | | S | | | | | | | | " | 40 | | | | | | DB |
| DICKERS | 10000N | 13000E | 40 ang frags (talus) | | S | | | | | | | | A | 30 | | | | | | Br |
| | 025 | 13000E | 40 ang frags (talus) | | S | | | | | | | | A | 40 | | | | | | Br |
| | 050 | | " " | | S | | | | | | | | A | 40 | | | | | | LB |
| | 075 | | " " | | S | | | | | | | | A | 40 | | | | | | LB |
| | 10100 | | " " | | S | | | | | | | | A | 30 | | | | | | LB |
| | 125 | | 30 frags ang (talus) | | S | | | | | | | | A | 40 | | | | | | Br |
| | 150 | | 20 ang frags | | S | | | | | | | | A | 30 | | | | | | BI |
| | 175 | | 30 ang frags | | S | | | | | | | | A | 40 | | | | | | BI |
| | 10200 | | 40 ang frags | | S | | | | | | | | A | 30 | | | | | | BI |
| | 225 | | | | S | | | | | | | | A | 40 | | | | | | BI |
| | 250 | | 30 clay | | S | | | | | | | | A | 40 | | | | | | B |
| | 275 | | 30 clay | | S | | | | | | | | B | 30 | | | | | | R/B |
| | 10300 | | 20 clay | | N | | | | | | | | B | 30 | | | | | | DB |
| | 325 | | 20 clay | | N | | | | | | | | B | 40 | | | | | | R/B |
| | 350 | | 10 frags | | N | | | | | | | | B | 30 | | | | | | R/B |
| | 375 | | 10 ang 10 frags | | N | | | | | | | | B | 20 | | | | | | R/B |
| | 10400 | | 20 ang frags | | N | | | | | | | | B | 30 | | | | | | R/B |
| | 425 | | 20 ang frags | | N | | | | | | | | B | 40 | | | | | | R/B |
| | 450 | | 30 clay 40 frags | | N | | | | | | | | B | 30 | | | | | | LB |
| | 475 | | 20 clay 10 frags | | N | | | | | | | | B | 30 | | | | | | LB |
| | 10500 | | 10 frags ang | | N | | | | | | | | B | 30 | | | | | | LB |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 138
 Area (Grid): Quash Creek WEST GRID
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 11th

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|---------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------------|--------------|--------------|--------------|----------------|-----------------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample in cm | Horizon Good | Horizon Poor | Parent Drift | Parent Bedrock | Material Colour |
| | 11400E | 10725 N | | | | | Flat | | | | | | A | 0 | | | | | | BR |
| | | 10720 N | N.S. no soil | | | | | | | | | | | | | | | | | |
| | | 10675 N | Sand | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | | 10650 N | Sand | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | | 10625 N | Sand | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | | 10600 N | Sand | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | | 10575 N | Sand | | | | ✓ | | | | | | A | 0 | | | | | | BR |
| | | 10550 N | Sand | | | | ✓ | | | | | | A | 5cm | | | | | | BR |
| | | 10405 N | | | | | ✓ | | | | | | A | 10cm | | | | | | BR |
| | | 10400 N | | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | | 10475 N | | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | 11400E | 10450 N | N.S. snowpack | | | | | | | | | | | | | | | | | |
| | 10450E | 11375E | | | | | ✓ | | | | | | A | 5 | | | | | | BR |
| | | 11300E | Sand | | | | ✓ | | | | | | A | 5 | | | | | | BR |
| | | 11325E | Sand | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | 10450N | 11300E | | | | | ✓ | | | | | | A | 5 | | | | | | BR |
| | 11300E | 10400N | SSC | | | | ✓ | | | | | | B | 10 | | | | | | BR |
| | | 10375N | | | | | ✓ | | | | | | B | 5 | | | | | | BR |
| | | 10350N | | | | | ✓ | | | | | | B | 10 | | | | | | BR |
| | | 10325N | | | | | ✓ | | | | | | B | 10 | | | | | | BR |
| | | 10300N | | | | | ✓ | | | | | | B | 10 | | | | | | BR |
| | | 10275N | | | | | ✓ | | | | | | B | 0 | | | | | | BR |
| | | 10250N | | | | | ✓ | | | | | | B | 0 | | | | | | BR |
| | | 10225N | | | | | ✓ | | | | | | B | 0 | | | | | | BR |
| | | 10200N | | | | | ✓ | | | | | | B | 0 | | | | | | BR |
| | | 10175N | | | | | ✓ | | | | | | A | 5 | | | | | | BR |
| | | 10150N | | | | | ✓ | | | | | | A | 10 | | | | | | BR |
| | | 10125N | | | | | ✓ | | | | | | A | 0 | | | | | | BR |
| | | 10100N | | | | | ✓ | | | | | | B | 0 | | | | | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: QC 188
 Area (Grid): West Grid
 Collectors: RV

Results Plotted By: RV
 Map: _____ N.T.S.: 104 G/16 W
 Date: Aug. 23/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | | | |
|---------------|-----------------|---------|------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|------|-------------------------|---------------------|---------|---------|----------|--------|----|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | | Depth to Horizon Sample | Horizon Development | | Percent | Material | Colour | |
| | | | | | | | | | | | | | | Good | Poor | | Drift | Bedrock | | | | |
| 91 RV188 | 12200E | 10725N | talus | | | ✓ | | | | | | | | B | 20 | ✓ | | | | ✓ | Br | |
| | 12200E | 10700N | talus | | | | | | | | | | | | 20 | | | | | | | |
| | 12200E | 10725N | talus | | | | | | | | | | | | 20 | | | | | | | |
| | 12100E | 10750N | drift | | | | | | | | | | | | 20 | | | | | | | |
| | 12200E | 10725N | talus | | | | | | | | | | | | 20 | | | | | | | |
| | 12200E | 10700N | talus | | | | | | | | | | | | 20 | | | | | | | |
| | 12200E | 10750N | drift | | | | | | | | | | | | 20 | | | | | | | |
| | 12200E | 10750N | talus | | | | | | | | | | | | 10 | | | | | | Br | |
| | 12200E | 10725N | talus | | | | | | | | | | | ↓ | 15 | | | | | ✓ | BO | |
| | 12200E | 10700N | talus | | | ✓ | | | | | | | | B | 10 | | | | | ✓ | O | |
| | 12200E | 10725N | talus | | N | | | | | | | | | B | 16 | ✓ | | | | ✓ | Br | |
| | 12000E | 10925N | frost bail | | N | | | | | | | | | B | 25 | ✓ | | | | ✓ | DB | |
| | 12000E | 10950N | talus | | | | | | | | | | | | 10 | | | | | | Br | |
| | 12000E | 10975N | talus | | | | | | | | | | | | 10 | | | | | | Br | |
| | 12000E | 11000N | talus | | | | | | | | | | | | 10 | | | | | | O | |
| | 12000E | 11025N | talus | | | | | | | | | | | | 5 | | | | | | O | |
| | 12000E | 11050N | talus | | | | | | | | | | | | 10 | | | | | | O | |
| | 12000E | 11075N | talus | | | | | | | | | | | | 10 | | | | | | LR | |
| | 12000E | 11100N | frost bail | | | | | | | | | | | | 20 | | | | | | B | |
| | 12000E | 11125N | frost bail | | | | | | | | | | | | 15 | | | | | | B | |
| | 12000E | 11150N | frost bail | | | | | | | | | | | | 20 | | | | | | DB | |
| | 12000E | 11175N | frost bail | | | | | | | | | | | | 20 | | | | | | DB | |
| | 12000E | 11200N | frost bail | | | | | | | | | | | | 15 | | | | | | DB | |
| | 12000E | 11225N | frost bail | | N | | | | | | | | | B | 25 | ✓ | | | | ✓ | Dr | |
| | 11800E | 10950N | frost bail | | N | | | | | | | | | B | 10 | | | | | | ✓ | FB |
| | 11800E | 11000N | frost bail | | N | | | | | | | | | ↓ | 10 | | | | | | ↓ | FB |
| 91 RV188 | 11800E | 11050N | talus | | N | | | | | | | | | ✓ | 10 | | | | | | ✓ | Br |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Quash creek (Brunns creek) WEST CORIO

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 6th

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|--------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|--------------|--------------------------|--------------|------------------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Development Poor | Parent Drift | Material Bedrock | Colour |
| | 12400E | 9750N | High organic, 40% A.E. | | N | | | | | | | | Moss | A | 10cm | / | / | | | BR |
| | | 9775 N | Sand | | N | | | | | | | | OK | A | 10cm | / | / | | | Blk |
| | | 9800 N | N.S } snowpack | | N | | | | | | | | | | | | | | | |
| | | 9825 N | N.S } snowpack | | N | | | | | | | | | | | | | | | |
| | | 9850 N | High organics | | N | | | | | | | | Moss | A | 10cm | / | / | | | Blk |
| | | 9875 N | | | N | | | | | | | | Moss | B | 20cm | / | / | | | BR |
| | | 9900 N | | | N | | | | | | | | Moss | B | 10cm | / | / | | | BR |
| | | 9925 N | N.S } snowpack | | N | | | | | | | | | | | | | | | |
| | | 9950 N | N.S } snowpack | | N | | | | | | | | | | | | | | | |
| | | 9975 N | | | N | | | | | | | | Moss | A | 5cm | / | / | | | BR |
| | | 10000 N | | | N | | | | | | | | Moss | B | 20cm | / | / | | | Blk BR |
| | | 10025 N | N.S } snowpack | | S | | | | | | | | | | | | | | | Blk BR |
| | | 10050 N | N.S } snowpack | | S | | | | | | | | | | | | | | | Blk BR |
| | | 10075 N | | | S | | | | | | | | Moss | B | 20 | / | / | | | Blk BR |
| | | 10100 N | | | S | | | | | | | | Wet Moss | B | 25cm | / | / | | | BR |
| | | 10125 N | | | S | | | | | | | | Moss | B | 20cm | / | / | | | BR |
| | | 10150 N | | | S | | | | | | | | Moss | B | 20cm | / | / | | | BR/DN |
| | | 10175 N | organics | | S | | | | | | | | Wet Moss | B | 10cm | / | / | | | Moss |
| | | 10200 N | organics | | S | | | | | | | | Moss | B | 10cm | / | / | | | BR |
| | | 10225 N | N.S Tallus | | S | | | | | | | | | | | | | | | |
| | 12400E | 10250N | grab sample on a cliff | | S | | | | | | | | Moss | A | Surface | / | / | | | Blk BR |
| | 12600E | 9725 | Tallus, High organic | | N | | | | | | | | Moss | A | 10cm | / | / | | | Blk |
| | | 9750 | N.S } Tallus slope | | N | | | | | | | | | | | | | | | |
| | | 9775 | N.S } Tallus slope | | N | | | | | | | | | | | | | | | |
| | | 97800 | Tallus, very little soil | | N | | | | | | | | Moss | A | 10cm | / | / | | | Blk |
| | | 97825 | grab sample | | N | | | | | | | | Moss | A | 10cm | / | / | | | Blk |
| | | 97850 | grab sample | | N | | | | | | | | OK | A | Surface | / | / | | | Blk BR |
| | | 97875 | organics | | N | | | | | | | | Moss | A | 10cm | / | / | | | Blk |
| | | 99000 | organics | | N | | | | | | | | Moss | A | 10cm | / | / | | | Blk |
| | | 9925 | N.S | | N | | | | | | | | Moss | A | 10cm | / | / | | | Blk BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188 @ Quash creek

Results Plotted By: _____

Area (Grid): Brown creek - west Grid

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 24/91

| Sample Number | Sample Location | | Notes | Topography | | | Vegetation | | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|----------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|------------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample (cm) | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| | 11200N | 13025E | 70% AF 15% organic - SSC | | N | | | | | | | | R | 25 | | | | | | BR |
| | | 13050E | 50% AF 15% organic - SSC | | N | | | | | | | | B | 25 | | | | | | |
| | | 13075E | 50% AF 15% organic - SSC | | N | | | | | | | | B | 25 | | | | | | |
| | | 12100E | 60% AF 15% organic - SSC | | N | | | | | | | | R | 25 | | | | | | |
| | | 13125E | 50% AF 15% organic - SSC | | N | | | | | | | | A | 0 | | | | | | |
| | V | 13150E | 50% AF 10% organic - SSC | | V | | | | | | | | A | 0 | | | | | | V |
| | 11200E | 13175E | No Sample Swampy | | N | | | | | | MOSS | | R | 15 | | | | | | BR |
| | 13200E | 10200N | 50% AF 20% organic SSC | | N | | | | | | MOSS | | R | 15 | | | | | | BR |
| | | 10225 | 50% AF 20% " | | N | | | | | | | | B | 20 | | | | | | |
| | | 10250 | 25% AF 25% " | | N | | | | | | | | A | 10 | | | | | | |
| | | 10275 | 10% AF 40% " | | N | | | | | | | | B | 15 | | | | | | |
| | | 10300 | 20% AF 30% " | | N | | | | | | | | R | 15 | | | | | | |
| | | 10325 | 20% AF 30% " | | N | | | | | | | | R | 20 | | | | | | |
| | | 10350 | 10% AF 10% " | | N | | | | | | | | B | 20 | | | | | | |
| | | 10375 | 10% AF 10% " | | N | | | | | | | | B | 20 | | | | | | |
| | | 10400 | 10% AF 10% " | | N | | | | | | | | B | 20 | | | | | | |
| | | 10425 | 10% AF 10% " | | N | | | | | | | | B | 20 | | | | | | V |
| | | 10450 | 25% AF 25% organic SSC | | N | | | | | | | | A | 10 | | | | | | BR |
| | | 10475 | No Sample | | N | | | | | | | | | | | | | | | |
| | | 10500 | 25% AF 25% organic SSC | | S | | | | | | | | B | 20 | | | | | | BR |
| | | 10525 | 20% AF - 15% organic - SSC | | S | | | | | | | | B | 20 | | | | | | BR |
| | | 10550 | 10% AF - 10% organic - SSC | | S | | | | | | | | R | | | | | | | BR |
| | | 10575 | | | S | | | | | | | | B | | | | | | | BR |
| | | 10600 | | | S | | | | | | | | R | | | | | | | BR |
| | | 10625 | 10% AF - 10% organic - SSC | | S | | | | | | | | B | | | | | | | BR |
| | | 10650 | 50% AF - 10% organic - SSC | | S | | | | | | | | B | | | | | | | BR |
| | | 10675 | 25% AF - 10% organic - SSC | | S | | | | | | | | R | | | | | | | BR |
| | | 10700 | 25% AF - 10% organic - SSC | | V | | | | | | | | B | V | | | | | | BR |
| | | 10725 | 50% AF - 25% organic - SSC | | S | | | | | | | | B | 20 | | | | | | BR |
| | V | 10750 | 10% AF - 60% organic - SSC | | S | | | | | | | | A | 10 | | | | | | BR |
| | 13200E | 10775 | 20% AF - 20% organic - SSC | | S | | | | | | | | B | 20 | | | | | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188 Quash creek
 Area (Grid): Brown creek
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: August 10/91

| Sample Number | Sample Location | | Notes West Grid 91-MB-185-5 | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|-----------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|----------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample cm | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| | 12400E | 11250N | 10% AF - 10% organic SS | | | | | | | | | | B | 30 | ✓ | | | | BR | |
| | | 11251N | ↓ | | | | | | | | | | B | FB | ✓ | | | | ↓ | |
| | | 11252N | ↓ | | | | | | | | | | B | FB | ✓ | | | | ↓ | |
| | | 11253N | 10% AF - 10% organic SS | | | | | | | ✓ | | | R | FB | ✓ | | | | BR | |
| | | 11254N | 20% AF 10% organic SS | | | ✓ | | | | | | | A | O | | | | | BR | |
| | | 11255N | No sample snow | | | | | | | | | | | | | | | | | |
| | | 11256N | 20% AF - 10% org SSC | | | ✓ | | | | | | | B | FR | ✓ | | | | BR | |
| | | 11257N | ↓ | | | | | | | | | | R | FR | ✓ | | | | | |
| | | 11258N | 20% AF - 10% org SS | | | ✓ | | | | | | | B | FR | ✓ | | | | ↓ | |
| | | 11259N | 20% AF 10% organic SSS | | | ✓ | | | | | | | B | 30 | | ✓ | | | ↓ | |
| | | 11260N | Talus creek | | | ✓ | | | | | | | A | O | | ✓ | | | BR | |
| | | 11261N | No sample snow | | | | | | | | | | | | | | | | | |
| | | 11262N | | | | | | | | | | | | | | | | | | |
| | | 11263N | 15% AF - SSC | | | ✓ | | | | | | | A | O | | ✓ | | | BR | |
| | | 11264N | 15% AF 10% organic SSC | | | ✓ | | | | | | | B | FB | ✓ | | | | ↓ | |
| | | 11265N | 10% AF 10% organic SS | | | ✓ | | | | | | | B | FB | ✓ | | | | BR | |
| | | 11266N | 10% AF 10% organic SS | | | ✓ | | | | | | | B | FB | ✓ | | | | BR | |
| | | 11267N | 25% AF SS | | | ✓ | | | | | | | A | O | | ✓ | | | BR | |
| | | 11268N | No sample snow | | | | | | | | | | | | | | | | | |
| | ✓ | 10875N | 25% AF - 10% SSC | | | ✓ | | | | | | | A | O | | ✓ | | | BR | |
| | 12400E | 10750N | already taken | | | | | | | | | | | | | | | | | |
| | 12600E | 10750N | already taken | | | | | | | | | | | | | | | | | |
| | | 10775N | 25% AF 10% organic SSC | | | ✓ | | | | | | | | | | | | | | |
| | | 10600N | already taken | | | | | | | | | | | | | | | | | |
| | | 10525N | 5% AF 15% organic SSC | | | ✓ | | | | | | | | | | | | | | |
| | | 10550N | 25% AF 25% organic - SSC | | | ✓ | | | | | | | | | | | | | | |
| | | 10575N | 25% AF 15% organic - SS | | | ✓ | | | | | | | | | | | | | | |
| | | 10500N | ↓ | | | ✓ | | | | | | | | | | | | | | |
| | | 10425N | 25% AF 15% organic - SSC | | | ✓ | | | | | | | | | | | | | | |
| | 12600E | 10425N | 25% AF 15% organic - SSC | | | ✓ | | | | | | | | | | | | | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quach creek, (Brunswick) WEST GRID
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 6th

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|--------------|--------------------------|--------------|------------------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Development Poor | Parent Drift | Material Bedrock | Colour |
| | 12600E | 9950 N | N/S | | | | | | | | | | | | | | | | | |
| | | 9975 N | N/S | } Tallus | | | | | | | | | | | | | | | | |
| | | 10000 N | N/S | | | | | | | | | | | | | | | | | |
| | | 10025 N | N/S | } snow pack | | | | | | | | | | | | | | | | |
| | | 10050 N | N/S | | | | | | | | | | | | | | | | | |
| | | 10075 N | organics 25% A.F. | Flat | | | | | | | | moss | B | 15cm | ✓ | ✓ | | | | DRBR |
| | | 10100 N | in a seasonal stream | Flat | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10125 N | silt 10% A.F. | Flat | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | BR |
| | | 10150 N | | Flat | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10175 N | N/S - snow pack | | | | | | | | | | | | | | | | | |
| | | 10200 N | slide area 20% A.F. | South | | | | | | | | 0% | A | surface | ✓ | ✓ | | | | BR |
| | | 10225 N | organics 40% A.F. | South | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10250 N | | South | | | | | | | | scrub | B | 20cm | ✓ | ✓ | | | | BR |
| | | 10275 N | | | | | | | | | | spruce | B | 15cm | ✓ | ✓ | | | | DRBR |
| | | 10300 N | N/S - snow pack | | | | | | | | | N | | | | | | | | |
| | | 10325 N | | South | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10350 N | 20% A.F. | South | | | | | | | | 0% | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10375 N | 50% A.F. | South | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10400 N | 75% A.F. | South | | | | | | | | | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10425 N | 75% A.F. | South | | | | | | | | spruce | B | 20cm | ✓ | ✓ | | | | BR |
| | | 10450 N | 50% A.F. | South | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10475 N | 50% A.F. | South | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10500 N | 30% A.F. | South | | | | | | | | | B | 20cm | ✓ | ✓ | | | | BR |
| | | 10525 N | N/S - slide chute | | | | | | | | | 0 | | | | | | | | |
| | 12600E | 10550 N | | | | | | | | | | 0% | A | surface | ✓ | ✓ | | | | BR |
| | 12600E | 10850 | moss 10% A.F. | Flat | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10825 | N/S - outcrop | | | | | | | | | | | | | | | | | |
| | | 10800 | moss 50% A.F. | South | | | | | | | | moss | B | 20cm | ✓ | ✓ | | | | DRBR |
| | | 10875 | N/S - Tallus | | | | | | | | | | | | | | | | | |
| | 12800E | 10750 | moss organics 40% A.F. | South | | | | | | | | moss | A | 10cm | ✓ | ✓ | | | | DRBR |

Project: 188 Quash Creek

Results Plotted By: _____

Area (Grid): Bonus Creek 188

Map: _____ N.T.S.:

Collectors: Michael Brown

Date: August 10th/91

| Sample Number | Sample Location | | Notes west Grid 91-1113-189-3 | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|-------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|----------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample CM | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| | 12600E | 10950N | 25% AF - 15% organic - SSC | | | | | | | | | | A | 0 | | | | | BR | |
| | | 10925N | 50% AF - SSC | | | | | | | | | | A | 0 | | | | | BR | |
| | | 11000N | 50% AF - SSC | | | | | | | | | | A | 0 | | | | | BR | |
| | | 11025N | No Sample | | | | | | | | | | | | | | | | | |
| | | 11050N | Stream 60% AF 10% organic SSC | | | | | | | | | | A | 0 | | | | | BR | |
| | | 11075N | 25% AF 20% organic SSC | | | | | | | | | | B | 25 | | | | | | |
| | | 11000N | 35% AF 20% organic SSC | | | | | | | | | | B | 25 | | | | | | |
| | | 11125N | 50% AF | | | | | | | | | | A | 0 | | | | | | |
| | | 11150N | Stream 50% | | | | | | | | | | A | 0 | | | | | | |
| | | 11175N | 25% AF, 15% organic - SSC | | | | | | | | | | R | 20 | | | | | | |
| | | 11200N | 25% AF, 15% organic - SSC | | | | | | | | | | R | 20 | | | | | | |
| | V | 11225N | 25% AF, 15% organic - SSC | | | | | | | | | | B | 20 | | | | | V | |
| | 12600E | 11250N | 25% AF, 15% organic - SSC | | | | | | | | | | B | 15 | | | | | BR | |
| | 12800E | 11100N | 25% AF, 10% organic - SSC | | | | | | | | | | B | 15 | | | | | BR | |
| | | 11075N | 10% AF - SSC | | | | | | | | | | FB | | | | | | | |
| | | 11050N | | | | | | | | | | | FB | | | | | | | |
| | | 11025N | 25% AF - SSC | | | | | | | | | | FB | | | | | | | |
| | | 11000N | 25% AF 10% organic - SSC | | | | | | | | | | 15 | | | | | | | |
| | | 10975N | | | | | | | | | | | FB | | | | | | | |
| | | 10950N | | | | | | | | | | | FB | | | | | | | |
| | | 10925N | | | | | | | | | | | FB | | | | | | | |
| | V | 10900N | | | | | | | | | | | FB | | | | | | V | |
| | 12800E | 10975N | 25% AF - 10% organic - SSC | | | | | | | | | | R | FB | | | | | BR | |
| | 13000E | 10900N | 20% AF - 10% organic - SSC | | | | | | | | | | B | 20 | | | | | | |
| | | 10875N | 40% AF 10% organic - SSC | | | | | | | | | | B | 20 | | | | | | |
| | | 10850N | 50% AF 20% organic - SSC | | | | | | | | | | A | 5 | | | | | | |
| | | 10825N | 10% AF 20% organic - SSC | | | | | | | | | | A | 5 | | | | | | |
| | | 10800N | 10% AF 20% organic - SSC | | | | | | | | | | B | 20 | | | | | | |
| | | 10775N | 10% AF 30% organic - SSC | | | | | | | | | | B | 20 | | | | | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Ruath creek, (Ramus creek); (Rusty creek) WESTGRID

Map: _____ N.T.S.: _____

Collectors: Michael Brown + CONTOUR - RUSTY CK.

Date: July 7/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|-------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|--------|-----------------|-------------------------|--------------|---------------------|--------|----------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Development | Parent | Material |
| | 12800E | 10725N | organics 40% A.F. | | South | | | | | | | | B | 20cm | | ✓ | ✓ | | DKBR |
| | | 10700N | organics | | South | | | | | | | | B | 20cm | | ✓ | ✓ | | DKBR |
| | | 10675N | organics 0% | | South | | | | | | | | B | 20cm | | ✓ | ✓ | | DKBR |
| | | 10650N | organics | | South | | | | | | | | A | 20cm | | ✓ | ✓ | | DKBR |
| | | 10625N | High organics 30% A.F. | | South | | | | | | | | A | 20cm | | ✓ | ✓ | | DKBR |
| | | 10600N | 40% A.F. | | South | | | | | | | | B | 30cm | | ✓ | ✓ | | DKBR |
| | | 10575N | organics 10% A.F. | | South | | | | | | | | A | 10cm | | ✓ | ✓ | | DKBR |
| | | 10550N | | | South | | | | | | | | B | 15cm | ✓ | | ✓ | | BR |
| | | 10525N | organics 50% AF | | South | | | | | | | | B | 10cm | | ✓ | ✓ | | BR |
| | | 10500N | | | South | | | | | | | | | | ✓ | | ✓ | | BR |
| | | 10475N | | | South | | | | | | | | | | ✓ | | ✓ | | BR |
| | | 10450N | High organics | | South | | | | | | | | | | ✓ | | ✓ | | BR |
| | | 10425N | N.S. slide shute | | South | | | | | | | | | | | | | | |
| | | 10400N | 40% A.F. - High organic | | South | | | | | | | | | | | ✓ | ✓ | | BR |
| | | 10375N | N.S. No true soil. | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-----|--|--|------------------------|------|--|--|--|--|--|--|--|--|---|------|---|--|--|---|------|
| 012 | | | from organics 530ft | east | | | | | | | | | B | 15cm | ✓ | | | ✓ | DKBR |
| 013 | | | 625m organics 50% A.F. | east | | | | | | | | | B | 15cm | ✓ | | | ✓ | DKBR |
| 014 | | | 650m organics 526ft | east | | | | | | | | | B | 20cm | ✓ | | | ✓ | DKBR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Quash creek MAIN GRID

Map: _____ N.T.S.:

Collectors: Michael Brown

Date: July 1st

| Sample Number | Sample Location | | Notes | Topography | | | | | | | Vegetation | | | | Soil Data | | | | |
|---------------|-----------------|---------|------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|-------------------------|--------------|---------------------|--------------|------------------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Development | Parent Drift | Material Bedrock |
| | 14400E | 9600N | Tallus slope | | N | | | | | | 0% | | A | 0cm | ✓ | ✓ | | | BR |
| | | 9825N | Tallus slope | | N | | | | | | 0% | | A | 0cm | ✓ | ✓ | | | BR |
| | | 9650N | no sample | | | | | | | | | | | | | | | | |
| | | 9875N | no sample | | | | | | | | | | | | | | | | |
| | | 9900N | no sample | | | | | | | | | | | | | | | | |
| | | 9925N | no sample | | | | | | | | | | | | | | | | |
| | | 9950N | no sample | | | | | | | | | | | | | | | | |
| | | 9975N | | | N | | | | | | moss | | B | 25cm | ✓ | | ✓ | | BR |
| | | 10000N | organics | | N | | | | | | moss | | B | 20cm | ✓ | | ✓ | | BR |
| | | 10025N | No sample snow pack | | | | | | | | | | | | | | | | |
| | | 10050N | some organics | | N | | | | | | moss | | B | 20cm | ✓ | | ✓ | | MBBR |
| | | 10075N | No sample | | | | | | | | | | | | | | | | |
| | | 10100N | No sample | | | | | | | | | | | | | | | | |
| | | 10125N | No sample | | | | | | | | | | | | | | | | |
| | | 10150N | no sample - snow packs | | | | | | | | | | | | | | | | |
| | | 10175N | sand silt | | N | | | | | | scrub | | D | 20cm | ✓ | | ✓ | | DBBR |
| | | 10200N | sand silt 15% A.F. | | | | | | | | | | B | 25cm | ✓ | | ✓ | | DBBR |
| | | 10225N | organics 25% A.F. | | N | | | | | | moss | | B | 20cm | ✓ | | ✓ | | BR |
| | | 10250N | no sample - snow pack | | | | | | | | | | | | | | | | |
| | | 10275N | 10% | | N | | | | | | moss | | D | 25cm | ✓ | | ✓ | | DBBR |
| | | 10300N | 40% | | N | | | | | | moss | | B | 20cm | ✓ | | ✓ | | DBBR |
| | | 10325N | 60% | | N | | | | | | moss | | B | 20cm | ✓ | | ✓ | | BR |
| | | 10350N | 50% | | N | | | | | | 0% | | A | Surface | | ✓ | | ✓ | BR |
| | 14400E | 10375N | 40% | | N | | | | | | moss | | B | 20cm | ✓ | | ✓ | | BR |
| | 15000E | 9525N | | | | | | | | | | | A | 0 | | ✓ | | ✓ | grey |
| | | 9575N | | | N | | | | | | | | A | 0 | | ✓ | | ✓ | grey |
| | | 9700N | | | N | | | | | | | | A | 0 | | ✓ | | ✓ | grey |
| | | 9850N | | | N | | | | | | | | A | 0 | | ✓ | | ✓ | grey |
| | | 9900N | | | N | | | | | | | | A | 0 | | ✓ | | ✓ | grey |
| | | 9925N | | | N | | | | | | 0% | | A | 0 | | ✓ | | ✓ | LIBR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

41

Project: 188
 Area (Grid): Q.C. 1991 GRID (MAIN GRID)
 Collectors: Mike Brown, Don Colledge

Results Plotted By: _____
 Map: _____ N.T.S.: 104 G/16 W
 Date: July 2

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-----------------------|--------------|----------------|-----------------|-------|--------|-----------|--------|----------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top Degree Slope | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sample | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | Good | Poor | | | |
| | 14600E | 11100N | From treeline to creek, line is running on west fringe of trees and slide debris. Young Balsam Re-growth N.W. Choppen pond 75m East 100 N | ✓ | | | | | | | | | B | 20 | / | | | ✓ | B |
| | | 11075 | | | | | | | | | | | B | 20 | / | | | | |
| | | 11050 | | | | | | | | | | | B | 20 | / | | | | |
| | | 11025 | | | | | | | | | | | C | 20 | / | | | | |
| | | 11000 | | ✓ | | | | | | | | | C | 25 | | / | | | ↓ |
| | | 10975 | | ✓ | | | | | | | | | C | 15 | / | | | | R |
| | | 10950 | | | 3 | | | | | | | | B | 20 | | / | | | R/B |
| | | 10925 | | | 5 | | | | | | | | C | 25 | | / | | | B |
| | | 10900 | | | 5 | | | | | | | | B | 25 | / | | | | |
| | | 10875 | | | 14 | | | | | | | | B | 25 | / | | | | |
| | | 10850 | | | 14 | | ✓ | | | | | | C | 15 | | / | | | |
| | | 10825 | | | 20 | | | | | | | | B | 20 | / | | | | |
| | | 10800 | | | 18 | | | | | | | | B | 30 | / | | | | |
| | | 10775 | | | 20 | | | | | | | | B | 20 | / | | | | |
| | | 10750 | | | 20 | | | | | | | | B | 25 | / | | | | ↓ |
| | 14600E | 10725 N | | | S 20 | | ✓ | | | | | | B | 15 | / | | | ✓ | B |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Quash Creek

Results Plotted By: _____

Area (Grid): MAIN Grid

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 6th

| Sample Number | Sample Location | | Notes | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|--------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|-------------------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | |
| | 14600E | 10700N | slightly modified B | | | | | | | | | | B | 25cm | ✓ | | ✓ | DR BR | | |
| | | 10675N | " | | | | | | | | | | B | 15cm | ✓ | | ✓ | DR BR | | |
| | | 10650N | 50% Angular Fragments (A,F) | | | | | | | | | | B | 20cm | ✓ | | ✓ | DR BR | | |
| | | 10625N | BANK OF CREEK 20% AF | | | | | | | | | | B | 20cm | ✓ | | ✓ | BR | | |
| | | 10600N | BANK OF CREEK 40% AF | | | | | | | | | | B | 20cm | ✓ | | ✓ | BR | | |
| | | 10575N | BANK OF CREEK, Base of outcrop | | | | | | | | | | A | 10cm | ✓ | | ✓ | CR BR | | |
| | | 10550N | 10% Angular Fragments | | | | | | | | | | A | 10cm | ✓ | | ✓ | DR BR | | |
| | | 10525N | 10% Angular Fragments | | | | | | | | | | A | 20cm | ✓ | | ✓ | DR BR | | |
| | | 10500N | 40% Angular Fragments | | | | | | | | | | A | 10cm | ✓ | | ✓ | DR BR | | |
| | | 10475N | modified Talus 75% A,F | | | | | | | | | | A | 10cm | ✓ | | ✓ | DR BR | | |
| | 14600E | 10450N | Talus high organic 75% AF | | | | | | | | | | A | 10cm | ✓ | | ✓ | DR BR | | |
| | 14600E | 10400N | Talus slope 60% A,F | | | | | | | | | | A | 20cm | ✓ | | ✓ | CR BR | | |
| | | 10425N | Talus slope | | | | | | | | | | A | 5cm | ✓ | | ✓ | CR BR | | |
| | | 10450N | Talus slope | | | | | | | | | | A | 5cm | ✓ | | ✓ | CR BR | | |
| | | 10475N | No Sample | | | | | | | | | | | | | | ✓ | | | |
| | | 10500N | Talus slope, base of outcrop | | | | | | | | | | A | 5cm | ✓ | | ✓ | CR BR | | |
| | | 10525N | | | | | | | | | | | A | 10cm | ✓ | | ✓ | DR | | |
| | | 10550N | 10% Angular Fragments | | | | | | | | | | B | 25cm | ✓ | | ✓ | CR BR | | |
| | | 10575N | 10% Angular Fragments | | | | | | | | | | B | 25cm | ✓ | | ✓ | DR BR | | |
| | | 10600N | Boulders, High organic content | | | | | | | | | | A | 10cm | | ✓ | ✓ | DR BR | | |
| | | 10625N | Boulders, High organic content | | | | | | | | | | A | 10cm | | ✓ | ✓ | DR BR | | |
| | | 10650N | Boulders, High organic content | | | | | | | | | | A | 25cm | | ✓ | ✓ | DR BR | | |
| | | 10675N | 20% Angular Fragments | | | | | | | | | | A | 20cm | | ✓ | ✓ | DR | | |
| | | 10700N | | | | | | | | | | | B | 30cm | | ✓ | ✓ | DR BR | | |
| | | 10725N | High organic content | | | | | | | | | | A | 30cm | ✓ | | ✓ | BR | | |
| | | 10750N | High organic content | | | | | | | | | | A | 25cm | | ✓ | ✓ | BR | | |
| | | 10775N | 5° change in slope | | | | | | | | | | A | 25cm | | ✓ | ✓ | BR | | |
| | | 10800N | 5° change in slope | | | | | | | | | | B | 15cm | | ✓ | ✓ | BR | | |
| | 14600E | 10825N | 5° change in slope | | | | | | | | | | B | 15cm | | ✓ | ✓ | BR | | |
| | | | 40% A, F | | | | | | | | | | | | | | ✓ | BR | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Quash creek

Results Plotted By: _____

Area (Grid): MAIN GRID

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 30

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|--------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | |
| | 14800E | 10850N | 5% change in slope | 60% AE | North | | | | | | | | B | 20cm | ✓ | | ✓ | OR | | |
| | | 10875N | | 60% AE | North | | | | | | | | B | 30cm | ✓ | | ✓ | BR | | |
| | | 10900N | Break in slope | 50% AE | | | | | | | | | B | 20cm | ✓ | | ✓ | BR | | |
| | | 10925N | Flat | S.S.C | | | | | | | | | B | 20cm | ✓ | | ✓ | OR BR | | |
| | | 10950N | Flat | S.S.C | | | | | | | | | B | 20cm | ✓ | | ✓ | OR | | |
| | | 10975N | Flat | S.S.C | | | | | | | | | B | 20cm | ✓ | | ✓ | OR | | |
| | | 11000N | Flat | S.S.C | | | | | | | | | B | 20cm | ✓ | | ✓ | BR | | |
| | | 11025N | Flat | S.S.C | | | | | | | | | B | 25cm | ✓ | | ✓ | BR | | |
| | | 11050N | Flat | S.S.C | | | | | | | | | B | 25cm | ✓ | | ✓ | OR BR | | |
| | | 11075N | 25° change - down | sand, silt | North | | | | | | | | B | 20cm | ✓ | | ✓ | OR BR | | |
| | | 11100N | | sand, silt | North | | | | | | | | B | 20cm | ✓ | | ✓ | BR | | |
| | | 11125N | | sand, silt | North | | | | | | | | B | 20cm | ✓ | | ✓ | OR BR | | |
| | 14800E | 11150N | | sand, silt | North | | | | | | | | B | 20cm | ✓ | | ✓ | OR BR | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

142

Project: QC GRID # 188
 Area (Grid): QC 1991 GRID (MAIN)
 Collectors: Mike Brown, Don Colledge

Results Plotted By: _____
 Map: _____ N.T.S.: 104 6/16 W
 Date: July 1 1991

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | Soil Data | | | | | |
|---------------|-----------------|---------|-----------------|---------------|--------------------|-------|---------------------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|--------|----------|
| | Line | Station | | Valley Bottom | Direction of slope | Slope | Space/Bottom Level Ground | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | Parent | Material |
| | 14800 E | 11200 N | | | | | | | | | | B | 20 | ✓ | | | RB |
| | | 11225 | | | | | | | | | | | 30 | | | | ↓ |
| | | 11250 | | S | 10° | | | | | | | | 15 | | | | RB |
| | | 11275 | | | | | | | | | | | 15 | | | | B |
| | | 11300 | | | | | | | | | | | 25 | | | | ↓ |
| | | 11325 | | | | | | | | | | | 25 | | | | ↓ |
| | | 11350 | | S | 32° | | | | | | | | 20 | | | | ↓ |
| | | 11375 | | S | 32° | | | | | | | | 25 | ✓ | | | ↓ |
| | | 11400 | | | | | | | | | | | | | | | ↓ |
| | | 11425 | NO SAMPLE FLOOD | | | | PLANE | | | | | | | | | | |
| | 14800 F | 11450 N | NO SAMPLE FLOOD | | | | PLANE | | | | | B | 0 | | | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188 Quash Creek
 Area (Grid): 1991 or Grid (MANS)
 Collectors: Don Coolidge

Results Plotted By: _____
 Map: 104 E/16 W N.T.S.: _____
 Date: July 2 1991

| Sample Number | Sample Location | | Notes | Topography | | Vegetation | | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|--------------------------------------------------------------|---------------|--------------------|--------------|----------------|-----------------|-------|--------|--------------------|-----------|-----------------|----------------------------|--------------|---------------------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland / TALLUS | Swampy | Horizon Sampled | Depth to Horizon Sample CM | Horizon Good | Horizon Development | Parent | Material | Colour |
| | 1500 E | 11200 N | NO SAMPLE Flood PLANE | | | | | | | | | | | | | | | | B |
| | | 11175 N | NO SAMPLE Flood PLANE | | | | | | | | | | | | | | | | B |
| | | 11150 N | | | SW 28° | | | | | | | | 20 | G | | | | | |
| | | 11125 N | | | SW 28° | | | | | | | | 35 | | | | | | |
| | | 11100 N | OLD E/W CUT LINE | | SW 22° | | | | | | | | 25 | | | | | | |
| | | 11075 N | | | | ✓ | | | | | | | 30 | | | | | | |
| | | 11050 N | | | | ✓ | | | | | | | 15 | | | | | | |
| | | 11025 N | | | | ✓ | | | | | | ↓ | 5 | | | | | | |
| | | 11000 N | | | | ✓ | | | | | | 3/4 | 25 | | | | | | |
| | | 10975 N | | | S 5° | | | | | | | B | 20 | | | | | | |
| | | 10950 N | | | 11° | | | | | | | | 20 | | | | | | |
| | | 10925 N | | | 14° | | | | | | | | 20 | | | | | | |
| | | 10900 N | | | 15° | | | | | | | | 25 | | | | | | |
| | | 10875 N | 5% Py-oxis in andesite flow | | 15° | | | | | | | | 25 | | | | | | |
| | | 10850 N | | | 20° | | | | | | | | 30 | | | | | | |
| | | 10825 N | | | 20° | | | | | | | | 25 | | | | | | |
| | | 10800 N | | | 22° | | | | | | | | 28 | | | | | | |
| | | 10775 N | | | 18° | | | | | | | | 25 | | | | | | |
| | | 10750 N | | | 18° | | | | | | | ↓ | 20 | | | | | | |
| | | 10725 N | Block w 10% Py, Anzucite | | 18° | | | | | | | 3/4 | 30 | | | | | | |
| | | 10700 N | EAST side of Brook | | 25° | | | | | | | C | 100 | | | | | | |
| | | 10675 N | Open some slope | | 30° | | | | | | | ↓ | 75 | | | | | | |
| | | 10650 N | | | 30° | | | | | | | ↓ | 25 | G | | | | | |
| | | 10625 N | | | 34° | | | | | | ✓ | ↓ | 25 | P | | | | | |
| | | 10600 N | | | 36° | | | | | | ✓ | ↓ | 15 | | | | | | |
| | | 10575 N | | | 38° | | | | | | ✓ | ↓ | 15 | | | | | | ✓ |
| | | 10550 N | Rusty orange andesite exposure & contact w horizontal divide | | S 38° | | | | | | ✓ | C | 15 | | | | | | ✓ |
| | | | | | | | | | | | ✓ | ↓ | | P | | | | | B |

242

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188 Quah Creek
 Area (Grid): Q.C. 1991 GRID (MAIN)
 Collectors: Don Poolidge

Results Plotted By: _____
 Map: _____ N.T.S.: 104 6/16 W
 Date: July 2, 1991

| Sample Number | Sample Location | | Notes | Topography | | | Vegetation | | | | | Soil Data | | | | | | |
|---------------|-----------------|---------|-------------------------|---------------|--------------------|-----------------|--------------|----------------|-----------------|-------|--------|------------------|--------|-----------------|-------------------------|---------------------|--------|----------|
| | Line | Station | | Valley Bottom | Direction of slope | HTH Top Degrees | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland / T&US | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | Parent | Material |
| | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | | |
| | 15200 E | 10500 N | | | S | 38° | | | | | | | C | | | | | B |
| | | 10525 N | | | | 38° | | | | | | | C | | | | | B |
| | | 10550 N | | | | 38° | | | | | | | C | | | | | B |
| | | 10575 N | | | | 38° | | | | | | | C | | | | | 2IK |
| | | 10600 N | 40% organics | | | 35° | | | | | | | A/R | | | | | 2IK |
| | | 10625 N | frozen soil + organics | | | 11° | | | | | | | N/R | | | | | 2IK |
| | | 10650 N | prob. sample - organics | | | 38° | | | | | | | B/C | | | | | 2IK |
| | | 10675 N | | | | 38° | | | | | | | B/A | | | | | 2IK |
| | | 10700 N | | | | 22° | | | | | | | B/C | | | | | B |
| | | 10725 N | | | | 12° | | | | | | | B | | | | | |
| | | 10750 N | | | | 18° | | | | | | | C | | | | | |
| | | 10775 N | | | | 22° | | | | | | | B | | | | | |
| | | 10800 N | | | | 15° | | | | | | | B | | | | | |
| | | 10825 N | | | | 15° | | | | | | | B/C | | | | | |
| | | 10850 N | 65% Angolan Rn frags | | | 10° | | | | | | | B | | | | | |
| | | 10875 N | | | | 10° | | | | | | | B | | | | | |
| | | 10900 N | | | | 13° | | | | | | | B | | | | | |
| | | 10925 N | | | | 5° | | | | | | | B | | | | | |
| | | 10950 N | | | | 10° | | | | | | | A/R | | | | | |
| | | 10975 N | | | | 15° | | | | | | | B | | | | | |
| | | 10000 N | | | | 5° | | | | | | | B | | | | | |
| | | 11025 N | Branch above Creek | | | 20° | | | | | | | B | | | | | |
| | | 11050 N | NO SAMPLE FLOW PLANE | | | 3 | | | | | | | B | | | | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Quash Creek

Results Plotted By: _____

Area (Grid): MAIN GRID

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 3rd

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | |
|---------------|-----------------|------------|-------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|--------------|--------------------------|--------------|------------------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Development Poor | Parent Drift | Material Bedrock |
| | 15400E | 10500N | Till | | North | | | SPURCE | | | | | C | 40cm | | ✓ | ✓ | | Grey |
| | | 10475N | | | North | | | SPURCE | | | | | B | 20cm | | ✓ | ✓ | | BR |
| | | 10450N | | | North | | | SPURCE | | | | | B | 20cm | ✓ | | ✓ | | BR |
| | | 10425N | | | North | | | SPURCE | | | | | B | 20cm | ✓ | | ✓ | | MDBR |
| | | 10400N | | | North | | | SPURCE | | | | | B | 20cm | ✓ | | | ✓ | BR |
| | | 10375N | | | North | | | SPURCE | | | | | B | 25cm | ✓ | | | ✓ | MDBR |
| | | 10350N | | | North | | | SPURCE | | | | | B | 25cm | ✓ | | | ✓ | MDBR |
| | | 10325N | | | North | | | SPURCE | | | | | B | 25cm | ✓ | | | ✓ | MDBR |
| | | 10300N | | | North | | | SPURCE | | | | | B | 30cm | ✓ | | | ✓ | BR |
| | | 10275N | High organic | | North | | | SPURCE | | | | | B | 20cm | ✓ | | | ✓ | BR |
| | | 10250N | High organic | | North | | | | | | moss | | B | 20cm | | ✓ | | ✓ | BR |
| | | 10225N | High organic | | North | | | | | | moss | | B | 20cm | | ✓ | | ✓ | BR |
| | | 10200N | High organic | | North | | | | | | moss | | B | 10cm | | ✓ | | ✓ | BR |
| | | 10175N | High organic | | North | | | | | | moss | | A | 10cm | | ✓ | | ✓ | BR |
| | | 10150N | slide chute | | North | | | | | | | | A | surface | | ✓ | | ✓ | BR |
| | | 10125N | Talus slope | | North | | | | | | | | A | surface | | ✓ | | ✓ | BR |
| | | 10100N | | | North | | | | | | | | A | surface | | ✓ | | ✓ | DKBR |
| | | 10075N | | | North | | | | | | | | | | | | | | |
| | | 10050N | | | North | | | | | | | | | | | | | | |
| | | 10025N | | | North | | | | | | | | | | | | | | |
| | | St. 10000N | | | North | | | | | | moss | | A | surface | | ✓ | | ✓ | DKBR |
| | | 9975 S | | | North | | | | | | moss | | A | 20cm | | ✓ | | ✓ | DKBR |
| | | 9950 S | | | North | | | | | | moss | | A | 10cm | | ✓ | | ✓ | DKBR |
| | | 9925 S | on Top of Plateau | | North | | | | | | moss | | B | 20cm | | ✓ | | ✓ | DKBR |
| | | 9900 S | | | North | | | | | | moss | | B | 15cm | ✓ | | | ✓ | DKBR |
| | | 9875 S | | | North | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR |
| | | 9850 S | | | North | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR |
| | | 9825 S | | | North | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR |
| | | 9800 S | | | North | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR |
| | | 9775 S | | | North | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR |
| | 15400E | 9775 S | | | North | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Quash Creek
 Area (Grid): Main Grid
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 24th

| Sample Number | Sample Location | | Notes | Topography | | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|--------|-----------------|-------------------------|---------------------|------|-----------------|---------|--------|------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent Material | | Colour | |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | | |
| 15400E | ↓ | 9750S | 30% Angular Fragments | | | | | | | | | moss | B | 20cm | | ✓ | | ✓ | MOBR | | |
| | | 9725S | | | | | | | | | | | moss | B | 20cm | ✓ | | ✓ | BR | | |
| | | 9700S | | | | | | | | | | | | moss | B | 20cm | ✓ | | ✓ | BR | |
| | | 9675S | | | | | | | | | | | | moss | B | 20cm | ✓ | | ✓ | MOBR | |
| | | 9650S | | | | | | | | | | | | moss | B | 20cm | ✓ | | ✓ | ORBC | |
| 15000E | ↓ | 10150N | sandy, 30% Angular Fragments | | | | | | | | | moss | B | 25cm | | ✓ | | ✓ | YBR | | |
| 10125N | | | | | | | | | | | | | moss | B | 20cm | | ✓ | | ✓ | BR | |
| 10100N | | | | | | | | | | | | | moss | B | 20cm | ✓ | | | ✓ | RTBR | |
| 10075N | | | | | | | | | | | | | moss | B | 20cm | ✓ | | | ✓ | BR | |
| 10050N | | | | | | | | | | | | | moss | B | 10cm | ✓ | | ✓ | | LTBR | |
| 14800E | ↓ | 9975S | organics | | | | | | | | | moss | B | 10cm | ✓ | | | | ORCB | | |
| 10000N | | | | | | | | | | | | | moss | B | 10cm | ✓ | | | | BRB | |
| 10025N | | | | | | | | | | | | | | moss | B | 10cm | ✓ | | | | BR |
| 10050N | | | | | | | | | | | | | | moss | B | 20cm | ✓ | | | | BR |
| 10075N | | | | | | | | | | | | | | moss | B | 10cm | ✓ | | | | BR |
| 14800E | ↓ | 10000N | grainy | | | | | | | | | moss | B | 10cm | ✓ | | | | BR | | |
| 10125N | | | | | | | | | | | | | moss | B | 15cm | | ✓ | | | LTBR | |
| 9950S | | | | | | | | | | | | | | 0% | B | 20cm | ✓ | | ✓ | | ORBR |
| 9925S | | | | | | | | | | | | | | 0% | B | 20cm | ✓ | | ✓ | | BR |
| 10000N | | | | | | | | | | | | | | moss | B | 20cm | | | ✓ | | BR |
| 14600E | ↓ | 10025N | High organic | | | | | | | | | moss | B | 20cm | | | ✓ | | BR | | |
| | | 10050N | | | | | | | | | | | moss | B | 20cm | | | ✓ | | DRBR | |
| | | 10075N | | | | | | | | | | | | moss | B | 20cm | | | ✓ | | DRBR |
| | | 10100N | | | | | | | | | | | | | A | 10cm | | | ✓ | | BR |
| | | 10125N | | | | | | | | | | | | | moss | B | 20cm | | | ✓ | |
| 10150N | | | | | | | | | | | | moss | B | 20cm | | | ✓ | | BR | | |
| 10175N | | | | | | | | | | | | moss | B | 20cm | | | ✓ | | BR | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Area (Grid): EAST OF MAIN GRID

Collectors: FD FRANCIS DEPEY

Results Plotted By: _____

Map: _____ N.T.S.: _____

Date: 91.08.15

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | |
|---------------|-----------------|---------|----------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|---------|----------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | Percent | Material |
| 91FD188 | T0+00 | 4270' | ANG Talus Fine | | | | | | | | | | B | 10 | V | : | V | MB |
| 91FD188 | S0+50E | 4220' | SUBROUNDED | | | | | | | | V | | B | 20 | V | : | | PR |
| " | S1+00E | 4300' | SUBANGULAR | | | | | V | | | | | A | 20 | | | | DB |
| " | S1+50E | 4400' | ANG | | | | | | V | | | | B | 30 | V | | | MR |
| " | S2+50E | 4260' | ANG | | | | | | V | | | | B | 20 | V | | V | ME |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Quash creek

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 26/91

| Sample Number | Sample Location | | Notes main Grid SOIL Orientation survey | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|--------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|----------------------------|---------------------|--------|----------|--------|--|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample CM | Horizon Development | Parent | Material | Colour | |
| | 10000N | 14500E | 4 Horizons visible | | | | | | | | | | | | | | | | | |
| | | "A" | Brown, 25% organic, 20% AF, 55% SSC | | | ✓ | | | | | | moss | A | 10cm | ✓ | ✓ | | | BR. | |
| | | "B" | 10% organic, 5% AF, 85% SSC | | | ✓ | | | | | | moss | B | 20cm | ✓ | ✓ | | | BR | |
| | | "C" | 10% organic, 90% SSC | | | ✓ | | | | | | moss | C | 30cm | ✓ | ✓ | | | DRBR | |
| | | "D" | 5% organic 95% SSC | | | ✓ | | | | | | moss | D | 50cm | ✓ | ✓ | | | DRBR | |
| | 10000N | 14525E | | | | | | | | | | | | | | | | | | |
| | | "A" | 25% AF, 15% organic 60% SSC | | | ✓ | | | | | | 0% | | 10 | ✓ | ✓ | | | BR | |
| | | "B" | 25% AF, 5% organic 70% SSC | | | ✓ | | | | | | 0% | | 20 | ✓ | ✓ | | | BR | |
| | | "C" | 25% AF - 75% SSC | | | ✓ | | | | | | 0% | | 30 | ✓ | ✓ | | | BR | |
| | 14600E | 10500N | | | | | | | | | | | | | | | | | | |
| | | "A" | 50% AF 35% organic 15% SSC | | N | | | | | | | scrub | NA | 20 | ✓ | ✓ | | | DRBR | |
| | | "B" | 65% AF 15% organic 20% SSC | | N | | | | | | | scrub | NA | 60 | ✓ | ✓ | | | DRBR | |
| | 14600E | 10525N | | | | | | | | | | | | | | | | | | |
| | | "A" | 50% AF, 15% organic 30% SSC | | N | | | | | | | bedrock | NA | 25 | ✓ | ✓ | | | DRBR | |
| | | "B" | 75% AF, 25% SSC | | N | | | | | | | bedrock | NA | 50 | ✓ | ✓ | | | DRBR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Quash 135- Main Grid

Results Plotted By: _____

Area (Grid): main Grid

Map: _____ N.T.S.: _____

Collectors: Michael Brown Don Coolidge

Date: August 15th

| Sample Number | Sample Location | | Notes SOIL Profiles test pits | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | | |
|---------------|-----------------|---------|--------------------------------------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|------|-----------------|---------|--------|----|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent Material | | Colour | |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | | |
| | 14400E | 9800N | 36° slope N | | | | | | | | | | | | | | | | | | |
| | | A | 0 → 5cm 35% AF -SSC | N | | | | | | 0% | | | | | | / | / | | | | BR |
| | | B | 5 → 20cm 50% AF -SSC | N | | | | | | 0% | | | | | / | / | / | | | | BR |
| | | C | 20 → 35cm 65% AF -SSC | N | | | | | | 0% | | | | | / | / | / | | | | BR |
| | | D | 35 → 50cm 75% AF -SSC | N | | | | | | 0% | | | | | / | / | / | | | | BR |
| | 14600E | 10275N | 37° slope Base of outcrop | | | | | | | | | | | | | | | | | | |
| | | A | 0 → 5cm 35% AF 10% organic -SSC | N | | | | | | moSS | | | | | / | / | / | | | | BR |
| | | B | 5 → 20cm 60% AF 5% organic -SSC | N | | | | | | moSS | | | | | / | / | / | | | | BR |
| | | C | 20 → 35cm 75% AF 5% organic -SSC | N | | | | | | moSS | | | | | / | / | / | | | | BR |
| | 14800E | 10425N | on a talus slope 37° NW Rusty multiphase volcanic outcrop Directly above | | | | | | | | | | | | | | | | | | |
| | | A | 0 → 20cm 50% AF 10% organic -SSC | Nw | | | | | | 0% | | | | | / | / | / | | | | BR |
| | | B | 20 → 40cm " | Nw | | | | | | 0% | | | | | / | / | / | | | | BR |
| | | C | 40 → 60cm " | Nw | | | | | | 0% | | | | | / | / | / | | | | BR |
| | 15200E | 10450N | 37° Talus grab | N | | | | | | 0% | | | | | X | X | X | X | | | BR |
| | 15200E | 10475N | 37° Talus grab | N | | | | | | 0% | | | | | A | O | / | / | | | BR |
| | 15200E | 10500N | 37° Talus | N | | | | | | | | | | | | | | | | | |
| | | A | 60% AF SSC 0 → 10cm | N | | | | | | 0% | | | | | / | / | / | | | | BR |
| | | B | 60% AF SSC 10 → 20cm | N | | | | | | 0% | | | | | / | / | / | | | | BR |
| | | C | 60% AF SSC 20 → 50cm | N | | | | | | 0% | | | | | / | / | / | | | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 168

Results Plotted By: _____

Area (Grid): Quashtcreek - Rustycreek, ~~Quashtcreek~~ (contour)

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 7/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|-------------------|-----------------|---------|----------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| <u>Rustycreek</u> | | | | | | | | | | | | | | | | | | | | |
| 015 | | 625m | organics | east | | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR | |
| 016 | | 700m | High organic | east | | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR | |
| 017 | | 725m | organics 50% A.F. | east | | | | | | | moss | | B | 20cm | ✓ | | | ✓ | DKBR | |
| 018 | | 750m | organics | east | | | | | | | 0% | | A | surface | | ✓ | | ✓ | DKBR | |
| 019 | | 775m | | east | | | | | | | 0% | | A | surface | | ✓ | | ✓ | BR | |
| 020 | | 825m | 50% A.F. organics - 5180ft | east | | | | | | | moss | | B | 10cm | | ✓ | | ✓ | BR | |
| 021 | | 850m | organics | east | | | | | | | moss | | A | surface | | ✓ | | ✓ | BR | |
| 022 | | 900m | High organics | east | | | | | | | moss | | B | 15cm | | ✓ | | ✓ | DKBR | |
| 023 | | 950m | High organics | east | | | | | | | moss | | B | 10cm | | ✓ | | ✓ | DKBR | |
| 024 | | 975m | 50% A.F. | east | | | | | | | moss | | B | 12cm | | ✓ | | ✓ | DKBR | |
| 025 | | 1000m | 50% A.F. | east | | | | | | | moss | | B | 10cm | | ✓ | | ✓ | DKBR | |
| 026 | | 0m | 50% A.F. organics 4500ft | east | | | | | | | moss | | B | 15cm | | ✓ | | ✓ | DKBR | |
| 027 | | 25m | 50% A.F. organics | east | | | | | | | moss | | B | 15cm | | ✓ | ✓ | | DKBR | |
| 028 | | 50m | 50% A.F. | east | | | | | | | | | B | 25cm | ✓ | | ✓ | | BR | |
| 029 | | 75m | 50% A.F. | east | | | | | | | | | B | 25cm | ✓ | | ✓ | | BR | |
| 030 | | 100m | 50% A.F. | east | | | | | | | 0% | | B | 25cm | ✓ | | ✓ | | BR | |
| 031 | | 150m | 60% A.F. organics 4460ft | east | | | | | | | moss | | B | 20cm | | ✓ | ✓ | | DKBR | |
| 032 | | 175m | 60% A.F. organics | east | | | | | | | | | B | 20cm | | ✓ | ✓ | | DKBR | |
| 033 | | 200m | 70% A.F. | east | | | | | | | | | B | 20cm | | ✓ | ✓ | | BR | |
| 034 | | 225m | High organics 4300ft | east | | | | | | | | | B | 20cm | | ✓ | ✓ | | DKBR | |
| 035 | | 325m | 75% A.F. | east | | | | | | | | | B | 20cm | | ✓ | ✓ | | DKBR | |
| 036 | | 350m | | east | | | | | | | | | B | 20cm | | ✓ | ✓ | | BR | |
| 037 | | 375m | 50% A.F. | east | | | | | | | | | B | 20cm | | ✓ | ✓ | | BR | |
| 038 | | 400m | | east | | | | | | | | | B | 10cm | | ✓ | ✓ | | BR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 168

Results Plotted By: _____

Area (Grid): Quach Creek - Rustycreek (CONTOUR)

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 8th / 91

| Sample Number | Sample Location | | Notes | Topography | | | | | Vegetation | | | | | Soil Data | | | | | |
|------------------|-----------------|---------|-------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|--------|-----------------|-------------------------|--------------|--------------------------|--------------|------------------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Good | Horizon Development Poor | Parent Drift | Material Bedrock |
| | 14600E | 10200N | Frozen Earth | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | BR |
| | | 10225N | organic | | North | | | | | | | | B | 24cm | ✓ | | | ✓ | BR |
| | | 10250N | SURFACE GRA. B | | North | | | | | | | | B | 25cm | ✓ | | | ✓ | DRBR |
| | 14600E | 10275N | OFF OF OUTCROP | | North | | | | | | 0% | | A | 0 | | ✓ | | ✓ | BR |
| Rustycreek Ridge | | | | | | | | | | | | | | | | | | | |
| 039 | | 02m | very stratified 4920 ft | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | BR |
| 040 | | 25m | | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | DRBR |
| 041 | | 50m | 30% A.F. | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | ORBR |
| 042 | | 75m | good | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | BR |
| 043 | | 100m | excellent | | North | | | | | | | | B | 5cm | ✓ | | | ✓ | OR |
| 044 | | 125m | 10% A.F. | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | BR |
| 045 | | 150m | 10% A.F. | | North | | | | | | | | B | 10cm | ✓ | | | ✓ | ORBR |
| 046 | | 175m | organics 10% A.F. | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | OR |
| 047 | | 200m | 40% A.F. | | North | | | | | | | | B | 10cm | ✓ | | | ✓ | OR |
| 048 | | 225m | organics | | North | | | | | | | | B | 10cm | ✓ | | | ✓ | OR |
| 049 | | 250m | | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | DRBR |
| 050 | | 275m | 10% A.F. | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | ORBR |
| 051 | | 300m | | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | BR |
| 052 | | 325m | SSC | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | OR |
| 053 | | 350m | SSC | | North | | | | | | | | B | 25cm | ✓ | | | ✓ | OR BK |
| 054 | | 375m | | | North | | | | | | | | B | 25cm | ✓ | | | ✓ | DRBR |
| 055 | | 400m | | | North | | | | | | | | B | 25cm | ✓ | | | ✓ | DRBR |
| 056 | | 425m | 10% A.F. | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | ORBR |
| 057 | | 450m | S.S.C | | North | | | | | | | | B | 25cm | ✓ | | | ✓ | OR |
| 058 | | 475m | S.S.C | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | ORBR |
| 059 | | 500m | S.S.C 4480 ft elev | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | DRBR |
| 060 | | 525m | S.S.C 10% A.F. | | North | | | | | | | | B | 15cm | ✓ | | | ✓ | OR |
| 061 | | 550m | S.S.C 10% A.F. | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | OR |
| 062 | | 575m | S.S.C | | North | | | | | | | | B | 20cm | ✓ | | | ✓ | OR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 186

Results Plotted By: _____

Area (Grid): Quved creek - rusty creek (CONTOUR)

Map: _____ N.T.S.: _____

Collectors: M. Brown.

Date: July 8th

| Sample Number | Sample Location | | Notes | Topography | | | | | Vegetation | | | | | Soil Data | | | | | | |
|---------------|--------------------|--------------|----------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|--------|----------------|-------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sample | Depth to Horizon Sample | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| | <u>Rusty creek</u> | <u>ridge</u> | | | | | | | | | | | | | | | | | | |
| 063 | | 600m | SSC - 20% A.F. | N | | | | | | | | | B | 15cm | ✓ | | ✓ | | | OR |
| 064 | | 625m | SSC | N | | | | | | | | | B | 15cm | ✓ | | ✓ | | | OR |
| 065 | | 650m | very stony | N | | | | | | | | | B | 15cm | ✓ | | ✓ | | | OR |
| 066 | | 675m | SSC | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR |
| 067 | | 700m | SSC | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR |
| 068 | | 725m | SSC 10% A.F. | N | | | | | | | | | B | 15cm | ✓ | | ✓ | | | OR |
| 069 | | 750m | 10% A.F. | N | | | | | | | | | B | 15cm | ✓ | | ✓ | | | OR BR |
| 070 | | 775m | SSC | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |
| 071 | | 800m | SSC | N | | | | | | | | | R | 20cm | ✓ | | ✓ | | | BR |
| 072 | | 825m | SSC | N | | | | | | | | | R | 20cm | ✓ | | ✓ | | | BR |
| 073 | | 850m | SSC | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR BR |
| 074 | | 875m | SSC 10% A.F. | N | | | | | | | | | B | 15cm | ✓ | | ✓ | | | BR |
| 075 | | 900m | | N | | | | | | | | | B | 15cm | ✓ | ✓ | ✓ | | | BR |
| 076 | | 925m | Large boulders | N | | | | | | | | | B | 20cm | ✓ | ✓ | ✓ | | | BR |
| 077 | | 950m | Large boulders | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |
| 078 | | 975m | | N | | | | | | | | | B | 25cm | ✓ | | ✓ | | | OR BR |
| 079 | | 1000m | 40% A.F. 400ft | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | BR |
| 080 | | 1025m | 40% A.F. | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR BR |
| 081 | | 1050m | SSC | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR BR |
| 082 | | 1075m | SSC | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR BR |
| 083 | | 1100m | SSC | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR BR |
| 084 | | 1125m | SSC | N | | | | | | | | | R | 20cm | ✓ | | ✓ | | | BR |
| 085 | | 1150m | SSC | N | | | | | | | | | R | 20cm | ✓ | | ✓ | | | OR |
| 086 | | 1175m | SSC | N | | | | | | | | | R | 20cm | ✓ | | ✓ | | | OR |
| 087 | | 1200m | SSC 380 ft | N | | | | | | | | | B | 20cm | ✓ | | ✓ | | | OR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quash creek VETM SHOWING CS
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 16/81

| Sample Number | Sample Location | | Notes | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|--------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|--------------------------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample in cm. | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | |
| 085 | | 0m | Creek Bank | | | | | | | | | | A | 5 | | | | | BR | |
| 089 | | 10m | organics | | | | | | | | | | A | 0 | | | | | | |
| 090 | | 20m | solid | | | | | | | | | | A | 0 | | | | | | |
| 091 | | 30m | 50% A.F. | | | | | | | | | | B | 10 | | | | | | |
| 092 | | 40m | 50% A.F. | | | | | | | | | | R | 10 | | | | | | |
| 093 | | 50m | 50% A.F. | | | | | | | | | | R | 10 | | | | | | |
| 094 | | 60m | organics | | | | | | | | | | A | 5 | | | | | | |
| 095 | | 70m | 25% A.F. | | | | | | | | | | B | 20 | | | | | | |
| 096 | | 80m | 25% A.F. | | | | | | | | | | R | 20 | | | | | | |
| 097 | | 90m | 75% A.F. | | | | | | | | | | B | 20 | | | | | | |
| 098 | | 100m | 75% A.F. | | | | | | | | | | B | 20 | | | | | | |
| 099 | | 110m | | | | | | | | | | | A | 10 | | | | | | |
| 100 | | 120m | | | | | | | | | | | B | 20 | | | | | | |
| 101 | | 130m | | | | | | | | | | | | 10 | | | | | | |
| 102 | | 140m | | | | | | | | | | | | | | | | | | |
| 103 | | 150m | | | | | | | | | | | | | | | | | | |
| 104 | | 160m | | | | | | | | | | | | | | | | | | |
| 105 | | 170m | | | | | | | | | | | | | | | | | | |
| 106 | | 180m | | | | | | | | | | | | | | | | | | |
| 107 | | 190m | | | | | | | | | | | | | | | | | | |
| 108 | | 200m | | | | | | | | | | | | | | | | | | |
| 109 | | 210m | | | | | | | | | | | ↓ | | | | | | | |
| 110 | | 220m | | | | | | | | | | | B | | | | | | | |
| 111 | | 230m | | | | | | | | | | | A | ↓ | | | | | | |
| 112 | | 240m | | | | | | | | | | | B | 10 | | | | | | |
| 113 | | 250m | | | | | | | | | | | B | 20 | | | | | | |
| 114 | | 260m | | | | | | | | | | | A | 10 | | | | | | |
| 115 | | 270m | N.S. no soil | | | | | | | | | | | | | | | | ↓ | |
| | | 280m | | | N | | | | | | | | B | 10 | | | | | BF | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Quash creek VEINS SHOWINGS

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: July 16/91

| Sample Number | Sample Location | | Notes | Topography | | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|-----------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|------------|--------|-----------------|-------------------------------|---------------------|-----------|--------|---------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample in cm | Horizon Development | | Parent | Bedrock | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | | |
| 116 | | 290m | 50% A.F. | | N | | | | | | | | A | 10 | ✓ | ✓ | | | | BR | |
| 117 | | 300m | 50% A.F. | | N | | | | | | | | A | 20 | ✓ | ✓ | | | | BR | |
| | | 310m | N.S. | | | | | | | | | | | | | | | | | | |
| | | 320m | N.S. | | | | | | | | | | | | | | | | | | |
| 118 | | 330m | Organics | | N | | | | | | | | A | 5 | ✓ | ✓ | | | | BR | |
| 119 | | 340m | | | N | | | | | | | | A | 5 | ✓ | ✓ | | | | BR | |
| 120 | | 350m | 50% A.F. | | | | | | | | | | A | 15 | ✓ | ✓ | | | | | |
| 121 | | 360m | 50% A.F. | | | | | | | | | | A | 15 | ✓ | ✓ | | | | | |
| | | 370m | N.S. | | | | | | | | | | | | | | | | | | |
| 122 | | 380m | Organics | | | | | | | | | | A | 15 | ✓ | ✓ | | | | | |
| | | 390m | N.S. | | | | | | | | | | | | | | | | | | |
| | | 400m | N.S. | | | | | | | | | | | | | | | | | | |
| | | 410m | N.S. | | | | | | | | | | | | | | | | | | |
| 123 | | 420m | 50% A.F. | | | | | | | | | | A | 15 | ✓ | ✓ | | | | | |
| 124 | | 430m | 50% A.F. | | | | | | | | | | A | 15 | ✓ | ✓ | | | | | |
| 125 | | 440m | Organics | | | | | | | | | | A | 15 | ✓ | ✓ | | | | | |
| 126 | | 450m | Organics | | | | | | | | | | A | 15 | ✓ | ✓ | | | | | |
| | | 460m | N.S. | | | | | | | | | | | | | | | | | | |
| | | 470m | N.S. | | | | | | | | | | | | | | | | | | |
| | | 480m | N.S. | | | | | | | | | | | | | | | | | | |
| 127 | | 490m | Base of outcrop | | | | | | | | | | B | 20 | ✓ | ✓ | | | | | |
| 128 | | 500m | Organics | | | | | | | | | | A | 10 | ✓ | ✓ | | | | | |
| 129 | | 510m | SSC | | | | | | | | | | A | 20 | ✓ | ✓ | | | | | |
| 130 | | 520m | SSC | | | | | | | | | | B | 20 | ✓ | ✓ | | | | | |
| | | 530m | N.S. | | | | | | | | | | | | | | | | | | |
| 131 | | 540m | SSC | | | | | | | | | | B | 15 | ✓ | ✓ | | | | | |
| 132 | | 550m | SSC | | | | | | | | | | B | 15 | ✓ | ✓ | | | | | |
| 133 | | 560m | SSC | | V | | | | | | | | B | 15 | ✓ | ✓ | | | | V | |
| 134 | | 570m | SSC | | N | | | | | | | | B | 15 | ✓ | ✓ | | | | SSC | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quash creek - CONTOUR, SOUTH SLOPE
 Collectors: Michael Brown 4500'

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 16

| Sample Number | Sample Location | | Notes | Topography | | | | | | | Vegetation | | | | | | Soil Data | | | | |
|---------------|-----------------|---------|----------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|-------------------------------|---------------------|-----------|--------|----------|--------|-------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample in Cm | Horizon Development | | Parent | Material | Colour | |
| | | | | | | | | | | | | | | | | Good | Poor | | | | Drill |
| 135 | | 0m | organic | | NE | | | Belkan | | | | | A | 10 | | ✓ | ✓ | | BR | | |
| 136 | | 50m | organic | | | | | | | | | | A | 10 | | ✓ | ✓ | | | | |
| 137 | | 100m | SSC | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | |
| 138 | | 150m | 50% A.F. | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 139 | | 200m | 25% A.F. | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 140 | | 250m | 25% A.F. | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 141 | | 300m | 0% | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 142 | | 350m | SSC | | | | | ↓ | | | | | ↓ | ↓ | ✓ | | ✓ | | | | |
| 143 | | 400m | SSC | | | | | ↓ | | | | | B | 20 | ✓ | | ✓ | | | | |
| | | 450m | N.S. | | | | | ↓ | | | | | | | | | ✓ | | | | |
| 144 | | 500m | organic | | | | | Scrub | | | | | A | 10 | | ✓ | ✓ | | | | |
| 145 | | 550m | organic | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | |
| 146 | | 600m | organic | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 147 | | 650m | 25% A.F. | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 148 | | 700m | 25% A.F. | | | | | ↓ | | | | | ↓ | | ✓ | | ✓ | | | | |
| | | 750m | 25% A.F. | | | | | ↓ | | | | | B | 20 | ✓ | | ✓ | | | | |
| 150 | | 800m | 25% A.F. | | | | | Belkan | | | | | B | 20 | ✓ | | ✓ | | | | |
| 151 | | 850m | SSC | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | |
| 152 | | 900m | SSC | | | | | ↓ | | | | | B | 20 | ✓ | | ✓ | | | | |
| 153 | | 950m | organic | | | | | Belkan | | | | | A | 10 | ✓ | | ✓ | | | | |
| 154 | | 1000m | organic | | | | | Belkan | | | | | A | 10 | ✓ | | ✓ | | | | |
| | | 1050m | N.S. | | | | | | | | | | B | | | | ✓ | | | | |
| 155 | | 1100m | SSC | | | | | | | | | | B | 15 | | ✓ | ✓ | | | | |
| 156 | | 1150m | | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | |
| 157 | | 1200m | | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | |
| 158 | | 1250m | | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | |
| 159 | | 1300m | | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | |
| 160 | | 1350m | | | | | | ↓ | | | | | B | 5 | ✓ | | ✓ | | | | |
| 161 | | 1400m | SSC | | NE | | | ↓ | | | | | B | 20 | ✓ | | ✓ | | BR | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quash creek - CONTOUR - SOUTH SLOPE
 Collectors: Michael Brown 4500'

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 17

| Sample Number | Sample Location | | Notes | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | | |
|---------------|-----------------|---------|-------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|-------------------------|-----------|---------------------|---------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | | | |
| 162 | | 1450m | 25% AF | | NE | | | | | | | | B | 20 | ✓ | | | | | | BR |
| 163 | | 1500m | SSC | | | | | | | | | | | | ✓ | | | | | | |
| 164 | | 1550m | SSC | | | | | | | | | | | | ✓ | | | | | | |
| 165 | | 1600m | organic | | | | | | | | | | | | ✓ | | | | | | |
| 166 | | 1650m | Tamus grass | | | | | | | | | | B | 20 | ✓ | | | | | | |
| 167 | | 1700m | SSC | | | | | | | | | | A | 10 | ✓ | | | | | | |
| 168 | | 1750m | SSC | | | | | | | | | | B | 20 | ✓ | | | | | | ↓ |
| 169 | | 1800m | SSC | | ↓ | | | | | | | | B | 20 | ✓ | | | | | | ↓ |
| 170 | | 1850m | SSC | | NE | | | | | | | | B | 20 | ✓ | | | | | | BR |
| 171 | | 1900m | Large Rocks | | N | | | | | | | | B | | ✓ | | | | | | |
| 172 | | 1950m | 50% A.F. organics | | | | | | | | | | A | | ✓ | | | | | | ↓ |
| 173 | | 2000m | 50% A.F. organics | | | | | | | | | | B | | ✓ | | | | | | BR |
| 173 | | 2050m | 50% A.F. | | N | | | | | | | | B | | ✓ | | | | | | BR |
| 174 | | 2100m | N.S | | | | | | | | | | | | | | | | | | |
| 175 | | 2150m | 50% A.F. organic | | N | | | | | | | | B | 10 | ✓ | | ✓ | | | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quash creek CONTOUR - SLOPE
 Collectors: Michael Brown 4500'

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 18

| Sample Number | Sample Location | | Notes | Topography | | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|----------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|------------|--------|-----------------|-------------------------------|---------------------|-----------|-----------------|---------|--------|--|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample in cm | Horizon Development | | Parent Material | | Colour | |
| | | | | | | | | | | | | | | | | Good | Poor | Drill | Bedrock | | |
| 176 | | 5m | SSC | E | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| 177 | | 50m | | | | | | | | | | | B | | ✓ | | ✓ | | | | |
| 178 | | 100m | | | | | | | | | | | B | | ✓ | | ✓ | | | | |
| 179 | | 150m | | | | | | | | | | | B | | ✓ | | ✓ | | | | |
| 180 | | 200m | ↓ | | | | | | | | | | B | ↓ | ✓ | | ✓ | | ↓ | | |
| 181 | | 250m | SSC | | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| 182 | | 300m | Sandy | | | | | | | | | | A | 10 | ✓ | ✓ | ✓ | | BR | | |
| 183 | | 350m | SSC | | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| 184 | | 400m | 25% A.F. | | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| 185 | | 450m | SSC | | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| 186 | | 500m | SSC | | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| X | | 550m | N/S | | | | | | | | | | | | | | ✓ | | | | |
| 187 | | 600m | SSC | | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| X | | 650m | N/S | | | | | | | | | | | | | | ✓ | | | | |
| 188 | | 700m | SSC | ↓ | | | | | | | | | B | 15 | | ✓ | ✓ | | BR | | |
| 189 | | 750m | 50% A.F. | E | | | | | | | | | A | 0 | | ✓ | ✓ | | BR | | |
| 190 | | 800m | SSC | | | | | | | | | | B | 15 | ✓ | | ✓ | | CR | | |
| 191 | | 850m | ↓ | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 192 | | 900m | | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 193 | | 950m | ↓ | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 194 | | 1000m | SSC | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 195 | | 1050m | 25% A.F. | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 196 | | 1000m | 40% A.F. | | | | | | | | | | | | ✓ | | ✓ | | | | |
| 197 | | 1150m | 60% A.F. | ↓ | | | | | | | | | | | ✓ | | ✓ | | | | |
| 198 | | 1200m | 40% A.F. | E | | | | | | | | | | | ✓ | | ✓ | | | | |
| 199 | | 1250m | 40% A.F. | N | | | | | | | | | | | ✓ | | ✓ | | | | |
| 200 | | 1300m | 10% A.F. | N | | | | | | | | | | | ✓ | | ✓ | | | | |
| 201 | | 1350m | SSC | N | | | | | | | | | ↓ | 15 | ✓ | | ✓ | | CR | | |
| 202 | | 1400m | 25% A.F. | N | | | | | | | | | B | 20 | ✓ | | ✓ | | BR | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Quash creek (vein)

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 5/91

| Sample Number | Sample Location | | Soil Contour Lines Gorgon Notes 91-mB-188-S | Topography | | | | | | | | Vegetation | | | | | | Soil Data | | | | |
|---------------|-----------------|---------|------------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|------------|--------|-----------------|----------------------------|---------------------|------|-----------|----------|--------|-------|---------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample CM | Horizon Development | | Parent | Material | Colour | | |
| | | | | | | | | | | | | | | | | Good | Poor | | | | Drill | Bedrock |
| | 3600ft | 0m | No sample | | | | | | | | | | | | | | | | | | | |
| | | 25m | No sample | | | | | | | | | | | | | | | | | | | |
| 460 | | 50m | 25% AF - 10% organic - SSC | | S | | | | | | | | B | 25 | ✓ | | ✓ | | | BR | | |
| | | 75m | No sample | | | | | | | | | | | | | | | | | | | |
| 461 | | 100m | 25% AF 10% organic - SSC | | S | | | | | | | | B | 20 | ✓ | | ✓ | | | OR BR | | |
| 462 | | 125m | 25% AF - 25% organic - SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 463 | | 150m | 3600ft 20% organic 25% AF - SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 464 | | 175m | 50% AF - 10% organic - SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 465 | | 200m | 50% AF - 10% organic - SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 466 | | 225m | 25% AF - 10% organic - SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 467 | | 250m | 25% AF - 10% organic - SSC | | | | | | | | | | | | ✓ | | ✓ | | | OR | | |
| 468 | | 275m | 20% organic 75% AF - SSC | | | | | | | | | | | | ✓ | | ✓ | | | OR | | |
| 469 | | 300m | 10% AF - 10% organic SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 470 | | 325m | 10% AF - 10% organic SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 471 | | 350m | 3700ft 50% AF - 10% organic SSC | | | | | | | | | | | | ✓ | | ✓ | | | BR | | |
| 472 | | 375m | 3700ft " | | ↓ | | | | | | | | ↓ | ↓ | ✓ | | ✓ | | | BR | | |
| 473 | 3600ft | 400m | 3700ft " | | S | | | | | | | | B | 20 | ✓ | | ✓ | | | BR | | |
| 474 | 4000ft | 0m | 10% AF - 10% organic - SSC | | | | | | | | | | B | 15 | ✓ | | ✓ | | | OR BR | | |
| 475 | | 25m | autotopograb | | | | | | | | | | A | 0 | | | ✓ | | | BR | | |
| 476 | | 50m | 20% AF 30% organic - SSC | | | | | | | | | | A | 10 | | | ✓ | | | | | |
| 477 | | 75m | 10% AF - 40% organic - SSC | | | | | | | | | | A | 16 | | | ✓ | | | | | |
| 478 | | 100m | 25% AF 25% organic - SSC | | | | | | | | | | B | 15 | | | ✓ | | | | | |
| 479 | | 125m | " | | | | | | | | | | B | 15 | ✓ | | ✓ | | | | | |
| 480 | | 150m | " | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | | |
| 481 | | 175m | 15% AF - 10% organic - SSC | | | | | | | | | | B | 20 | ✓ | | ✓ | | | | | |
| 482 | | 200m | 50% AF - 25% organic SSC | | ↓ | | | | | | | | ↓ | A | 16 | | ✓ | | | ↓ | | |
| 483 | | 225m | " | | S | | | | | | | | A | 5 | | | ✓ | | | BR | | |
| | | 250m | No sample | | | | | | | | | | | | | | ✓ | | | | | |
| | | 275m | No sample | | | | | | | | | | | | | | ✓ | | | | | |
| 484 | 4000ft | 300m | " | | S | | | | | | | | ↑ | A | 10 | | ✓ | | | BR | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188 Vein (Quash Creek)

Results Plotted By: _____

Area (Grid): Vein creek S slope

Map: _____ N.T.S.: _____

Collectors: Muchael Brown

Date: August 21/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | |
|---------------|-----------------|---------|-------------------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|----------------------------|---------------------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample Ch | Horizon Development | Parent | Material | Colour |
| | | | 91-MB-188-5 | | | | | | | | | | | | | | | | |
| | | | 25m station starting at 4600ft on South slope of Vein creek | | | | | | | | | | | | | | | | |
| 485 | | 0m | 25% AF - 25% organic - SSL | | S | | | | | | | | B | 16 | ✓ | | ✓ | | BR |
| 486 | | 25m | " | | S | | | | | | | | B | 26 | ✓ | | ✓ | | BR |
| 487 | | 50m | " | | S | | | | | | | | B | 20 | ✓ | | ✓ | | BR |
| | | 75m | No Sample - outcrop | | | | | | | | | | | | | | | | |
| | | 100m | No Sample Tallies | | | | | | | | | | | | | | | | |
| 488 | | 125m | 50% AF - SSL | | S | | | | | | | | B | 25 | ✓ | | ✓ | | BR |
| 489 | | 150m | 10% AF - 10% organic - SSL | | | | | | | | | | | | | | | | |
| 490 | | 175m | " | | | | | | | | | | | | | | | | |
| 491 | | 200m | 50% AF - 20% organic - SSL | | | | | | | | | | | | | | | | |
| 492 | | 225m | 25% AF - 25% organic - SSL | | | | | | | | | | | | | | | | |
| 493 | | 250m | " | | | | | | | | | | | | | | | | |
| 494 | | 275m | " | | | | | | | | | | | | | | | | |
| 495 | | 300m | " | | | | | | | | | | | | | | | | |
| 496 | | 325m | 25% AF - 15% organic - SSL | | | | | | | | | | | | | | | | |
| 497 | | 350m | " | | | | | | | | | | | | | | | | |
| 498 | | 375m | " | | | | | | | | | | | | | | | | |
| 499 | | 400m | 15% AF - 35% organic - SSL | | | | | | | | | | | | | | | | |
| 500 | | 425m | " | | | | | | | | | | | | | | | | |
| 501 | | 450m | 40% AF - 35% organic - SSL | | | | | | | | | | | | | | | | |
| 502 | | 475m | 25% AF - 15% organic - SSL | | ↓ | | | | | | | | ↓ | ↓ | ↓ | | ↓ | | ↓ |
| 503 | | 500m | " | | S | | | | | | | | B | 25 | ✓ | | ✓ | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188 Quash

Results Plotted By: _____

Area (Grid): Quashcreek

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 22/91

| Sample Number | Sample Location | | soil contour line 50m recce - starting near purple zone & heading westward for 2.5km approx Notes 4700ft .. | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|----------------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------|--------------|---------------------------|-----------------|-------|--------|-----------|-----------|-----------------|----------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample Cm | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| 587 | | 0m | 20% AF - 10% organic - SSC | | N | | | Balsam | | | | | B | 15 | ✓ | | ✓ | | BR | |
| 588 | | 50m | 10% AF 10% organic - SSC | | | | | | | | | | | 20 | | | | | BROR | |
| 589 | | 100m | " | | | | | | | | | | | | | | | | BR | |
| 590 | | 150m | " | | | | | | | | | | | | | | | | BR | |
| 591 | | 200m | 0% AF - 10% organic - SSC | | | | | | | | | | | | | | | | BROR | |
| 592 | | 250m | " | | | | | | | | | | | | | | | | BR | |
| 593 | | 300m | " | | | | | | | | | | | | | | | | | |
| 594 | | 350m | " | | ↓ | | | ↓ | | | | | ↓ | ↓ | ↓ | | ↓ | | ↓ | |
| 595 | | 400m | " | | N | | | Balsam | | | | | B | 20 | ✓ | | ✓ | | BR | |
| | | | 442m - stream - no silt | | | | | | | | | | | | | | | | | |
| 596 | | 450m | 0% AF - 10% organic - SSC 1'x2" | | N | | | Balsam | | | | | B | 20 | ✓ | | ✓ | | BR | |
| 597 | | 500m | " | | N | | | Balsam | | | | | B | 20 | ✓ | | ✓ | | BR | |
| | | | 535m - stream - no silt 1'x2" | | | | | | | | | | | | | | | | | |
| 598 | | 550m | 0% AF - 10% organic - SSC | | Nw | | | Balsam | | | | | B | 20 | ✓ | | ✓ | | OR | |
| 599 | | 600m | " | | | | | | | | | | | | | | | | BR | |
| 600 | | 650m | 4730ft 10% AF - 10% organics - SSC | | ↓ | | | ↓ | | | | | ↓ | ↓ | ↓ | | ↓ | | BR | |
| 601 | | 700m | 4730ft 0% AF - 10% organics - SSC | | Nw | | | Balsam | | | | | B | 20 | ✓ | | ✓ | | BR | |
| 602 | | 750m | 4750ft 10% AF 10% organics - SSC | | | | | | | | | | | 15 | ✓ | | ✓ | | BR | |
| 603 | | 800m | 4750ft 25% AF 10% organics - SSC | | | | | | | | | | | 15 | ✓ | | ✓ | | BR | |
| 604 | | 850m | 4730ft 25% AF 10% organics - SSC | | ↓ | | | ↓ | | | | | ↓ | 15 | ✓ | | ✓ | | BR | |
| 605 | | 900m | 4700ft 10% AF 10% organics - SSC | | Nw | | | Balsam | | | | | B | 15 | ✓ | | ✓ | | BR | |
| | | | 930m small stream 8"x2" no silt | | | | | | | | | | | | | | | | | |
| 606 | | 950m | 15% AF, 10% organics - SSC | | Nw | | | Balsam | | | | | B | 15 | ✓ | | ✓ | | OR | |
| | | | 490m small stream - 5"x2" 4700ft | | | | | Balsam in crease - Porite | | | | | | | | | | | | |
| 607 | | 1000m | 10% AF 10% organics - SSC | | Nw | | | Balsam | | | | | B | 15 | ✓ | | ✓ | | OR | |
| 608 | | 1050m | 10% AF 10% organics - SSC | | | | | | | | | | | 15 | ✓ | | ✓ | | OR | |
| 609 | | 1100m | 20% AF 10% organics - SSC | | ↓ | | | | | | | | ↓ | 15 | ✓ | | ✓ | | BR | |
| 610 | | 1150m | 0% AF 10% organics - SSC | | Nw | | | Balsam | | | | | B | 20 | ✓ | | ✓ | | BR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188-Quash
 Area (Grid): Quash creek
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: August 27/91

| Sample Number | Sample Location | | Soil contour line 50m recti - starting on w ridge of purple zone Notes Heading westward for approx 2.5km to edge of claim - 4700ft | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|----------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample cm | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drill | Bedrock | |
| 611 | 4490m | 1190m | 1190m stream - 91-MB-188-L-611 | | | | | | | | | | | | | | | | | |
| 612 | | 1200m | 4750m 10%AF-10%organic-SSC | NW | | | | Barren | | | | | B | 15 | ✓ | | ✓ | | | BR |
| 613 | | 1250m | 4750m 5%AF-10%organic-SSC | | | | | | | | | | | | | | | | | |
| 614 | | 1300m | 4750m " | | | | | | | | | | | | | | | | | |
| 615 | | 1350m | 4750m " | ↓ | | | | | | | | | | | | | | | | |
| 616 | | 1400m | 4730m " | NW | | | | Barren | | | | | B | 15 | ✓ | | ✓ | | | BR |
| | | | 1435m stream - 1'x2" - no silt | | | | | | | | | | | | | | | | | |
| 617 | | 1450m | 10%AF-10%organic-SSC | NW | | | | Barren | | | | | B | 15 | ✓ | | ✓ | | | BR |
| 619 | | 1500m | 30%AF-10%organic-SSC | NW | | | | Barren | | | | | B | 15 | ✓ | | ✓ | | | BR |
| 619 | | 1550m | 20%AF-10%organic-SSC 4730ft | NW | | | | Barren | | | | | B | 20 | ✓ | | ✓ | | | BR |
| 620 | | 1600m | 0%AF-20%organic-SSC | NW | | | | Barren | | | | | B | 20 | ✓ | | ✓ | | | BR |
| | | | 1615m stream - small - no silt | | | | | | | | | | | | | | | | | |
| | | | 1640m - stream - small - no silt | | | | | | | | | | | | | | | | | |
| 621 | | 1650m | 0%AF-10%organic-SSC | NW | | | | Barren | | | | | B | 20 | ✓ | | ✓ | | | BR |
| 622 | | 1700m | " 4750ft | NW | | | | Barren | | | | | B | 20 | ✓ | | ✓ | | | BR |
| 623 | | 1750m | " " | NW | | | | Barren | | | | | B | 20 | ✓ | | ✓ | | | BR |
| 624 | | 1800m | " " | NW | | | | Barren | | | | | B | 10 | | ✓ | ✓ | | | BR |
| 625 | | 1850m | " " | NW | | | | Barren | | | | | B | 10 | | ✓ | ✓ | | | BR |
| 626 | | 1900m | 91-MB-188-L-626 | | | | | | | | | | | | | | | | | |
| 627 | | 1950m | 0%AF-10%organic-SSC | NW | | | | Barren | | | | | B | 15 | ✓ | | ✓ | | | BR |
| 628 | | 2000m | 4750ft 0%AF 10%organic-SSC | W | | | | | | | | | | | | | ✓ | ✓ | | OR |
| 629 | | 2050m | 4720ft " | | | | | | | | | | | | | | ✓ | ✓ | | OR |
| 630 | | 2100m | 4710ft " | | | | | | | | | | | | | | ✓ | ✓ | | OR |
| 631 | | 2150m | 4700ft " | | | | | | | | | | | | | | ✓ | ✓ | | BR |
| 632 | | 2200m | 4700ft 0%AF-0%organic-sand | | | | | | | | | | | | | | ✓ | ✓ | | BR |
| 633 | | 2250m | 0%AF-20%organic-SSC | | | | | | | | | | | | | | ✓ | ✓ | | BR |
| 634 | | 2300m | 0%AF 10%organic-SS | | | | | | | | | | | | | | ✓ | ✓ | | BR |
| 635 | | 2350m | " " | | | | | | | | | | | | | | ✓ | ✓ | | BR |
| 636 | | 2400m | 4700ft " | W | | | | Barren | | | | | | | | | ✓ | ✓ | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 88 Quash

Results Plotted By: _____

Area (Grid): Quash creek

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 24/91

| Sample Number | Sample Location | | Notes | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|-----------------------------------------------------------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|----------------------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample C _n | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| 703 | | 25m | on sw side of Quash creek, starting at 450ft 91-4B-168-S-156, moving at 214° to 550ft. 25m stations | | NE | | | | | | | | B | 25 | ✓ | | ✓ | | OR | |
| 704 | | 50m | | | | | | | | | | | | | ✓ | | | | OR | |
| 705 | | 75m | | | | | | | | | | | | | ✓ | | | | OR | |
| 706 | | 100m | | | | | | | | | | | | | ✓ | | | | OR | |
| 707 | | 125m | | | | | | | | | | | | | ✓ | | | | BR | |
| 708 | | 150m | 4700' - 10% AF - 20% ORG - SSC | | | | | | | | | | ↓ | ↓ | ✓ | | | | BR | |
| 709 | | 175m | | | | | | | | | | | B | 25 | ✓ | | | | BR | |
| 710 | | 200m | 25% AF - 20% ORG - SSC | | | | | | | | | | A | 0 | | ✓ | | | BR | |
| 711 | | 225m | 16% AF - 10% ORG - SSC | | | | | | | | | | B | 20 | ✓ | | | | BR | |
| 712 | | 250m | | | | | | | | | | | | 20 | | | | | ↓ | |
| 713 | | 275m | | | | | | | | | | | | 20 | | | | | ↓ | |
| 714 | | 300m | 0% AF - 10% ORG - 45C 445' | | | | | | | | | | | 20 | | | | | OR | |
| 715 | | 325m | 4850' 11 | | | | | | | | Moss | | | 20 | | | | | BR | |
| 716 | | 350m | 11 | | | | | | | | | | | FB20 | | | | | | |
| 717 | | 375m | 20% AF 0% ORG - 45C | | | | | | | | | | | 20 | | | | | | |
| 718 | | 400m | 0% AF - 10% ORG - 45C 4900' | | | | | | | | | | | 20 | | | | | | |
| 719 | | 425m | 11 | | | | | | | | | | | 20 | | | | | | |
| 720 | | 450m | 10% AF - 10% ORG - 45C | | | | | | | | | | | 20 | | | | | | |
| 721 | | 475m | 11 | | | | | | | | | | | FB10 | | | | | | |
| 722 | | 500m | 0% AF - 10% ORG - SSC 4960' | | | | | | | | | | | 20 | | | | | | |
| 723 | | 525m | 11 | | | | | | | | | | | | | | | | | |
| 724 | | 550m | 11 | | | | | | | | | | | | | | | | | |
| 725 | | 575m | 10% AF 10% ORG - SSC | | | | | | | | | | | | | | | | | |
| 726 | | 600m | 11 | | | | | | | | | | | | | | | | | |
| 727 | | 625m | 5050' 11 | | | | | | | | | | | | | | | | | |
| 728 | | 650m | 11 | | | | | | | | | | | | | | | | | |
| 729 | | 675m | 25% AF - 10% ORG - SSC | | | | | | | | | | | | | | | | | |
| 730 | | 700m | 11 | | ↓ | | | | | | | ↓ | | ↓ | | | | | ↓ | |
| 731 | | 725m | 10% AF - 10% ORG - SSC | | NE | | | | | | | Moss | B | 20 | ✓ | | ✓ | | BR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 185 Quash

Results Plotted By: _____

Area (Grid): Quash creek

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 24/01

| Sample Number | Sample Location | | Notes | Topography | | | | | | Vegetation | | | | | Soil Data | | | | | |
|---------------|-----------------|---------|--------------------------------------------------------------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|------------|--------|-----------|--------|-----------------|------------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample (cm) | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| 732 | | 750m | On SW side of Quash creek starting at 4500ft #91-113-100-156 Boring 2140 - until 5500ft 25m - stations | | NE | | | | | | | | B | FB20 | ✓ | | ✓ | | | BR |
| 733 | | 775m | " | | | | | | | | | | | | | | | | | |
| 734 | | 800m | 0% AF - 10% CR6 - 55C | | | | | | | | | | | | | | | | | |
| 735 | | 825m | " 5200' | | | | | | | | | | | FB20 | | | | | | |
| 736 | | 850m | " | | | | | | | | | | | 20 | | | | | | |
| 737 | | 875m | " | | | | | | | | | | | 20 | | | | | | |
| 738 | | 900m | 10% AF - 10% CR6 - 55C | | | | | | | | | | | 20 | | | | | | |
| 739 | | 925m | " 5320' | | | | | | | | | | | FR20 | | | | | | |
| 740 | | 950m | " | | | | | | | | | | | 20 | | | | | | |
| 741 | | 975m | " | | | | | | | | | | | 20 | | | | | | |
| 742 | | 1000m | 20% AF - 10% CR6 - 55 5380' | | | | | | | | | | | 20 | | | | | | |
| 743 | | 1025m | " | | | | | | | | | | | FR20 | | | | | | |
| 744 | | 1050m | " 5400' | | | | | | | | | | | 20 | | | | | | |
| 745 | | 1075m | 22% AF 10% CR6 - 55C | | | | | | | | | | | 20 | | | | | | |
| 746 | | 1100m | 0% AF - 10% CR6 - 55C | | | | | | | | | | | | | | | | | |
| 747 | | 1125m | " | | | | | | | | | | | | | | | | | |
| 748 | | 1150m | 0% AF - 0% CR6 - 55 | | ↓ | | | | | | ↓ | | ↓ | ↓ | ↓ | | ↓ | | | ↓ |
| 749 | | 1175m | 20% AF - 10% CR6 - 55C 5500 | | NE | | | | | | | ↓ | B | 20 | ✓ | | ✓ | | | BR |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 189 Quash

Results Plotted By: _____

Area (Grid): Quash creek

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 24/91

| Sample Number | Sample Location | | On SW side of Quash - starting 100m at 5500m 100m over from first line going down slope at 47° Notes to 4500ft | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|---------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|----------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample cm | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| 750 | | 0m | 10% AF 10% CR6 SSC 5500' | | NE | | | | | | | | B | FB20 | ✓ | | ✓ | | BF | |
| 751 | | 25m | 20% AF 10% CR6 - SSC | | | | | | | | | | | 20 | | | | | | |
| 752 | | 50m | 10% AF 10% CR6 - SSC | | | | | | | | | | | FB20 | | | | | | |
| 753 | | 75m | 25% AF 10% CR6 - SSC | | | | | | | | | | | FB20 | | | | | ↓ | |
| 754 | | 100m | 0% AF 10% CR6 - SSC | | | | | | | | | | | FB20 | | | | | BF | |
| 755 | | 125m | 25% AF 10% CR6 - SSC 5400ft | | | | | | | | | | | 15 | | | | | BF | |
| 756 | | 150m | 25% AF 10% CR6 - SSC | | | | | | | | | | | 15 | | | | | BF | |
| 757 | | 175m | 10% AF 10% CR6 - SSC | | | | | | | | | | | FB20 | | | | | | |
| 758 | | 200m | 0% AF 10% CR6 - SSC | | | | | | | | | | | 20 | | | | | | |
| 759 | | 225m | " " 5300' | | | | | | | | | | | | | | | | | |
| 760 | | 250m | " " | | | | | | | | | | | | | | | | | |
| 761 | | 275m | " " | | | | | | | | | | | ↓ | | | | | | |
| 762 | | 300m | " " | | | | | | | | | | | 20 | | | | | | |
| 763 | | 325m | 20% AF - 10% CR6 - SSC - 5280' | | | | | | | | | | | FB20 | | | | | | |
| 764 | | 350m | 0% AF - 10% CR6 - SSC | | | | | | | | | | | 15 | | | | | | |
| 765 | | 375m | " " | | | | | | | | | | | 15 | | | | | | |
| 766 | | 400m | " " | | | | | | | | | | | 20 | | | | | | |
| 767 | | 425m | " " | | | | | | | | | | | | | | | | | |
| 768 | | 450m | " " | | | | | | | | | | | | | | | | | |
| 769 | | 475m | " " | | | | | | | | | | | | | | | | | |
| 770 | | 500m | " " | | | | | | | | | | | | | | | | | |
| 771 | | 525m | " " | | | | | | | | | | | | | | | | | |
| 772 | | 550m | 20% AF 10% CR6 - SSC | | | | | | | | | | | | | | | | | |
| 773 | | 575m | 0% AF - 10% CR6 - SSC | | | | | | | | | | | | | | | | | |
| 774 | | 600m | 25% AF - 10% CR6 - SSC | | | | | | | | | | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 775 | | 625m | 25% AF - 10% CR6 - SSC 5000' | | NE | | | | | | | | ↓ | B | 20 | ✓ | ↓ | | BF | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188

Results Plotted By: _____

Area (Grid): Quadrant - Uem

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 6th

| Sample Number | Sample Location | | Notes (off garden) | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|---------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|----------------------------------------|---------------------|------|-----------------|---------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample C _g | Horizon Development | | Parent Material | | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | |
| | 3+50N | 0+00 | 40% AF - 15% organic - SSC | | S | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+10E | NO Sample | | | | | | | | | | | | | | | | | |
| | | 0+20E | 25% AF - 25% organic - SSC | | S | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+30E | " | | S | | | | | | ✓ | | | | ✓ | | ✓ | | | |
| | | 0+40E | 60% AF 10% organic - SSC | | S | | | | | | ✓ | | | | ✓ | | ✓ | | | |
| | | 0+50E | 70% AF 10% organic - SSC | | S | | | | | | ✓ | | | | ✓ | | ✓ | | | |
| | | 0+60E | 30% AF 10% organic - SSC | | S | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+70E | NO Sample | | | | | | | | | | | | | | | | | |
| | | 0+80E | 3% AF 30% organic - SSC | | S | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+90E | 80% AF 10% organic - SSC | | S | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 1+00E | NO Sample | | S | | | | | | | | | | | | | | | |
| | | 0+10W | 25% AF 15% organic - SSC | | | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+20W | 25% AF 15% organic - SSC | | | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+30W | 10% AF 15% organic - SSC | | | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+40W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 0+50W | 2% AF 20% organic - SSC | | | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+60W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 0+70W | 25% AF 25% organic - SSC | | | | | | | | ✓ | | | | ✓ | | ✓ | | DRBR | |
| | | 0+80W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 0+90W | 10% AF - 25% organic - SSC | | | | | | | | | | | | ✓ | | ✓ | | DRBR | |
| | | 1+00W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 1+10W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 1+20W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 1+30W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 1+40W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 1+50W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 1+60W | NO Sample | | | | | | | | | | | | | | | | | |
| | | 1+70W | 25% AF 25% organic - SSC | | ✓ | | | | | | | | | | ✓ | | ✓ | | DRBR | |
| | | 1+80W | SSC | | S | | | | | | | | | | ✓ | | ✓ | | DRBR | |

3+50N

1+90W

Sheum

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quash creek Vein
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: August 6/01

| Sample Number | Sample Location | | Extension on Existing Gordon Grid Notes | Topography | | | | | | | Vegetation | | | | | Soil Data | | | | |
|---------------|-----------------|---------|-----------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|------------|-----------|--------|-----------------|--------------------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sampled | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | |
| | 4+50N | 0+00 E | 10% AF - 10% organics - SSC | | S | | | | | | grass | | B | 20 | / | / | | | BR | |
| | | 0+10 E | | | S | | | | | | | | B | 20 | / | / | | | BR | |
| | | 0+20 E | | | S | | | | | | | | B | 20 | / | / | | | CR | |
| | | 0+30 E | | | S | | | | | | | | B | 20 | / | / | | | CR | |
| | | 0+40 E | 40% AF - 10% organics - SSC | | S | | | | | | | | B | 20 | / | / | | | OR | |
| | | 0+50 E | NO sample | | | | | | | | | | | | | | | | | |
| | | 0+60 E | 40% AF - 10% organics - SSC | | S | | | | | | | | B | 20 | / | / | | | BR | |
| | | 0+70 E | NO sample | | | | | | | | | | | | | | | | | |
| | | 0+80 E | 20% AF - 30% organics - SSC | | S | | | | | | | | B | 10 | / | / | | | CR | |
| | | 0+90 E | 30% AF - 20% organics - SSC | | S | | | | | | | | B | 20 | / | / | | | BR | |
| | | 1+00 E | 20% AF - 20% organics - SSC | | S | | | | | | | | B | 20 | / | / | | | BR | |
| | | 0+10 W | 40% AF 20% organic | | S | | | | | | grass | | B | 25 | / | / | | | BR | |
| | | 0+20 W | 40% AF 20% organic | | S | | | | | | grass | | B | 25 | / | / | | | BR | |
| | | 0+30 W | NO sample | | | | | | | | | | | | | | | | | |
| | | 0+40 W | 10% AF - 10% organic - SSC | | S | | | | | | grass | | B | 25 | / | / | | | BR | |
| | | 0+50 W | 25% AF - 15% organic - SSC | | S | | | | | | | | | 25 | / | / | | | | |
| | | 0+60 W | 10% AF 10% organic - SSC | | S | | | | | | | | | 20 | / | / | | | | |
| | | 0+70 W | 10% AF 10% organic - SSC | | S | | | | | | | | | 20 | / | / | | | | |
| | | 0+80 W | 50% AF 10% organic - SSC | | S | | | | | | | | | 20 | / | / | | | | |
| | | 0+90 W | 10% AF 10% organic - SSC | | S | | | | | | grass | | B | 20 | / | / | | | BR | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 1/2 Uem

Results Plotted By: _____

Area (Grid): Quash Creek

Map: _____ N.T.S.: _____

Collectors: Michael Brown

Date: August 7th/1961

| Sample Number | Sample Location | | adding line 300S to Top grid Notes | Topography | | | | | | | | Vegetation | | | | | | Soil Data | | | | |
|---------------|-----------------|----------|------------------------------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|------------|--------|-----------------|----------------------------|----------------------|------|-----------|----------|--------|-------|---------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample Cn | Horizon Develop-ment | | Parent | Material | Colour | | |
| | | | | | | | | | | | | | | | | Good | Poor | | | | Drill | Bedrock |
| | 300S | 1400E | 10% organic SSL | | 5 | | | | | | | | | B | 15 | ✓ | | ✓ | | OR | | |
| | | 1400E | " | | | | | | | | | | | | 15 | ✓ | | | | OR | | |
| | | 1400E | 10% AF - 10% organic - SSL | | | | | | | | | | | | 20 | ✓ | | | | BR | | |
| | | 1400E | 25% AF 10% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1400E | 20% AF - 20% organic - SSL | | | | | | | | | | | | 15 | X | ✓ | | | | | |
| | | 1400E | 40% AF - 20% organic - SSL | | | | | | | | | | | | 15 | | ✓ | | | | | |
| | | 1400E | " | | | | | | | | | | | | 15 | | ✓ | | | | | |
| | | 1400E | 35% AF - 15% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1400E | " | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1400E | " | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | BL-1400E | 40% AF - 15% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1410W | " | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1420W | No Sample | | | | | | | | | | | | | | | | | | | |
| | | 1430W | 40% AF - 20% organic | | | | | | | | | | | | 20 | ✓ | | | | | | |
| | | 1440W | " | | | | | | | | | | | | 20 | ✓ | | | | | | |
| | | 1450W | " | | | | | | | | | | | | 20 | ✓ | | | | | | |
| | | 1460W | No Sample | | | | | | | | | | | | | | | | | | | |
| | | 1470W | 40% AF 15% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1480W | 25% AF - 15% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1490W | No Sample | | | | | | | | | | | | | | | | | | | |
| | | 1400W | 40% AF 10% organic - SSL | | | | | | | | | | | | 20 | ✓ | | | | | | |
| | | 1410W | 35% AF - 15% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1420W | " | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1430W | 25% AF - 15% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1440W | " | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1450W | " | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1460W | 50% AF 20% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1470W | 25% AF 20% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1480W | 40% AF 15% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1490W | 25% AF 20% organic - SSL | | | | | | | | | | | | 25 | ✓ | | | | | | |
| | | 1400W | " | | | | | | | | | | | | 25 | ✓ | | | | | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188 KEIN

Results Plotted By: _____

Area (Grid): _____

Map: _____ N.T.S.: 104 E/16 W

Collectors: Don Phillips

Date: August 7, 1991.

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|-----------------|---------|--------------------------|---------------|--------------------|----------------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top Slope | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | |
| J1885 | | 7+00 W | Taken from ORGANICS | N | 40° | | / | | | | | | C | 25 | ✓ | ✓ | | B | | |
| | | 7+25 W | | N | 40° | | / | | | | | | B/C | 20 | | | | B | | |
| | | 7+50 W | | N | 42° | | / | | | | | | B/C | 25 | ✓ | | | B | | |
| | | 7+75 W | | N | 45° | | / | | | | | | C | 15 | | ✓ | | GRY | | |
| | | 8+00 W | | N | 40° | | / | | | | | | N/B | 25 | ✓ | | | B | | |
| | | 8+25 W | Well developed soil | N | 20° | | / | | | | | | B | 25 | ✓ | | | B | | |
| | | 8+50 W | Near break in slope | N | 30° | | / | | | | | | B | 25 | | | | B | | |
| | | 8+75 W | Slope continues to west. | N | 36° | | / | | | | | | B | 25 | | | | RE | | |
| | | 9+00 W | | NE | 20° | | / | | | | | | B | 25 | | | | RE | | |
| | | 9+25 W | | NE | 20° | | / | | | | | | B | 25 | | | | RE | | |
| | | 9+50 W | Entering flatter area | NE | 20° | | / | | | | | | B | 25 | | | | RE | | |
| | | 9+75 W | | NE | 20° | | / | | | | | | B | 20 | | | | RE | | |
| | | 10+00 W | End of line | NE | 20° | | / | | | | | | B | 20 | ✓ | | ✓ | RE | | |
| | | | | | | | | / | | | | | B | 25 | N | | ✓ | RE | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: 188
 Area (Grid): Quash Creek - Gordon's showing
 Collectors: Michael Brown

Results Plotted By: _____
 Map: _____ N.T.S.: _____
 Date: July 16/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | |
|---------------|-----------------|---------|----------------|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------------|---------------------|--------|----------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grossland | Swampy | Horizon Sampled | Depth to Horizon Sample in cm | Horizon Development | Parent | Material |
| | | | | | | | | | | | | | Good | Poor | Drift | Bedrock | | |
| | 14755 | C+40W | 10% A.F. - SSC | | E | | | SHB | | | | | B | 20 | ✓ | ✓ | | BR |
| | | C+50W | SSC | | E | | | SHB | | | | | | 20 | ✓ | ✓ | | |
| | | C+60W | SSC | | E | | | SHB | | | | | | 30 | ✓ | ✓ | | |
| | 14755 | F+20W | SSC-10% AF | | E | | | SHB | | | | | | 20 | ✓ | ✓ | | |
| | 21005 | C+30W | 10% A.F. | | E | | | | | | GRSS | | | 20 | ✓ | ✓ | | |
| | | C+40W | 40% A.F. | | E | | | | | | GRSS | | | 30 | ✓ | ✓ | | |
| | | C+50W | 25% A.F. | | E | | | | | | GRSS | | | 20 | ✓ | ✓ | | |
| | 21005 | C+60W | 10% A.F. | | E | | | | | | GRSS | | B | 20 | ✓ | ✓ | | BR |

APPENDIX VIII

Rock Geochemistry Results



**MIN
• EN
LABORATORIES**
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

RECEIVED

JUL 11 1991

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

1S-0088-RA1

Company: **KEEWATIN ENGINEERING**
Project: 188
Attn: BONNIE WHELAN/ DAVE MEHNER

Date: JUL-10-91
Copy 1. KEEWATIN ENGRG, VANCOUVER, B.C.
2. KEEWATIN ENGRG, C/O SMITHERS EXPEDITING
3. KEEWATING ENGRG, C/O MIN-EN SMITHERS BC

We hereby certify the following Assay of 29 ROCK samples
submitted JUL-05-91 by DAVE MEHNER.

| Sample Number | *AU g/tonne | *AU oz/ton |
|---------------|----------------|---------------|
| 91MM188-1819 | 16.10 | .470 |
| 91RV188-1905 | 9.70 | .283 |

*AU = 1 ASSAY TON.

Certified by _____



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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0118-RA1

Company: **KEEWATIN ENGRG.**
Project: 188
Attn: B. WHELAN/M. MORRICE

Date: JUL-16-91

Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 8 ROCK samples
submitted JUL-11-91 by M. MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|------------------|---------------------|--------------------|
| 91-DC-188-R2001 | 12.15 | .354 |
| 91-MM-188-R1820 | 1.89 | .055 |
| 91-MM-188-R1821 | 2.03 | .059 |
| 91-MM-188-R1830 | 23.20 | .677 |
| 91-MM-188-R1833 | 2.12 | .062 |
| 91-RV-188-R1915 | 1.70 | .050 |
| 91-RV-188-R1917 | 21.10 | .615 |
| 91-RV-188-R1922 | 5.20 | .152 |

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 PATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0136-RA1

Company: **KEEWATIN ENGRG.**
Project: QC 188
Attn: B. WHELAN/M. MORRICE

Date: JUL-19-91

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 1 ROCK samples
submitted JUL-15-91 by M. MORRICE.

| Sample Number | *AU g/tonne | *AU oz/ton |
|------------------|----------------|---------------|
| 91-DC-188-R-2006 | 17.30 | .505 |

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
317 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0134-RA1

Company: **KEEWATIN ENGRG.**
Project: QC 188
Attn: B. WHELAN/M. MORRICE

Date: JUL-19-91
Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 2 ROCK samples submitted JUL-15-91 by M. MORRICE.

| Sample Number | *AU g/tonne | *AU oz/ton |
|------------------|-------------|------------|
| 91-RV-188-R-1929 | 1.00 | .029 |
| 91-RV-188-R-1931 | 2.39 | .070 |

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

1S-0201-RA1

Company: **KEEWATIN ENGRG.**
Project: 188
Attn: BONNIE WHELAN/ MARTY MORRICE

Date: JUL-27-91

- Copy 1. KEEWATIN ENGRG, VANCOUVER, B.C.
2. KEEWATIN ENGRG, C/O SMITHERS EXPEDITING
3. KEEWATIN ENGRG, C/O MIN-EN LABS.

We hereby certify the following Assay of 8 ROCK samples
submitted JUL-22-91 by MARTY MORRICE.

| Sample Number | *AU g/tonne | *AU oz/ton |
|----------------|-------------|------------|
| 91RV 188 R1933 | 4.08 | .119 |
| 91RV 188 R1938 | 62.00 | 1.808 |
| 91RV 188 R1939 | 89.50 | 2.610 |
| 91RV 188 R1940 | 11.55 | .337 |
| 91SC 188 R2206 | 1.15 | .034 |
| 91SC 188 R2207 | 7.62 | .222 |
| 91SC 188 R2213 | 18.95 | .553 |
| 91DD 188 R2305 | 3.59 | .105 |

*AU = 1 ASSAY TON.

Certified by _____



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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0319-RA1

Company: **KEEWATIN ENGRG.**
Project: 188
Attn: B. WHELAN/M. MORRICE

Date: **AUG-07-91**

Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 8 ROCK samples
submitted AUG-01-91 by M. MORRICE.

| Sample Number | *AU g/tonne | *AU oz/ton |
|---------------|----------------|---------------|
| DC-188-R2044 | 5.55 | .162 |
| DC-188-R2045 | 5.71 | .167 |
| RU-188-R1947 | 3.86 | .113 |
| RU-188-R1948 | 1.78 | .052 |
| SC-188-R2217 | 3.06 | .089 |
| SC-188-R2218 | 12.10 | .353 |
| SC-188-R2233 | 1.00 | .029 |
| SC-188-R2236 | 5.68 | .166 |

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0324-RA1

Company: **KEEWATIN ENGRG.**
Project: **QUASH GREEK -181-188** *188*
Attn: **BONNIE WHELAN/MARTY MORRICE**

Date: **AUG-08-91**
Copy 1. KEEWATIN ENGRG, VANCOUVER, B.C.
2. KEEWATIN ENGRG, C/O SMITHERS EXPEDITING
3. KEEWATIN ENGRG, C/O MIN-EN LABS.

We hereby certify the following Assay of 2 ROCK samples submitted AUG-01-91 by MARTY MORRICE.

| Sample Number | *AU g/tonne | *AU oz/ton |
|---------------|-------------|------------|
| DC-188R2064 | 3.72 | .109 |
| RV-188R1950 | 1.82 | .053 |

*AU = 1 ASSAY TON.

Certified by

Bonnie Whelan



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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0409-RA1

Company: **KEEWATIN ENGRG.**
Project: 188
Attn: BONNIE WHELAN/MARTY MORRICE

Date: **AUG-17-91**
Copy 1. KEEWATIN ENGRG, VANCOUVER, B.C.
2. KEEWATIN ENGRG, C/O SMITHERS EXPEDITING
3. KEEWATIN ENGRG, C/O MIN-EN LABS.

We hereby certify the following Assay of 3 ROCK samples submitted AUG-12-91 by M.MORRICE.

| Sample Number | *AU g/tonne | *AU oz/ton |
|----------------|-------------|------------|
| 91 RV 188 1954 | 1.15 | .034 |
| 91 DL 188 2076 | 8.25 | .241 |
| 91 DL 188 2077 | 1.91 | .056 |

*AU = 1 ASSAY TON.

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FAX (604) 980-9621

AUG 26 1991

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0469-RA1

Company: **KEEWATIN ENGRG.**
Project: **QUASH CREEK 188**
Attn: **B.WHELAN/D.MEHNER**

Date: **AUG-21-91**

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 3 ROCK samples
submitted AUG-16-91 by D.MEHNER.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|-----------------|---------------------|--------------------|
| 71 RV 188 R1961 | .98 | .029 |
| 71 DC 188 R2078 | 5.57 | .162 |
| 71 DC 188 C2402 | 4.48 | .131 |

U - 1 ASSAY TON.

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0570-RA1

Company: **KEEWATIN ENGINEERING INC.**
Project: ISKUT 188
Attn: B. WHELAN/E. OLFERT

Date: AUG-29-91

Copy 1. KEEWATIN ENGRNG., VANCOUVER, B.C.
2. KEEWATIN ENGRNG., C/O SMITHERS EXP.
3. KEEWATIN ENGRNG., C/O MIN-EN LABS.

We hereby certify the following Assay of 2 ROCK samples
submitted AUG-26-91 by M.MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|------------------|---------------------|--------------------|
| 91-RV-188-R-1975 | 2.43 | .071 |
| 91-RV-188-R-1977 | .97 | .028 |

*AU - 1 ASSAY TON.

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0531-RA1

Company: **KEEWATIN ENGINEERING**
Project: 188 ISKUT
Attn: B. WHELAN/M. MORRICE

Date: **AUG-27-91**

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 9 ROCK samples submitted AUG 27 1991

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|------------------|------------------|-----------------|
| 91 MM 188 R 1880 | 12.10 | .353 |
| 91 MM 188 R 1882 | 5.93 | .173 |
| 91 MM 188 R 1883 | 12.35 | .360 |
| 91 MM 188 R 1885 | 8.20 | .239 |
| 91 MM 188 R 1886 | 57.80 | 1.686 |
| 91 MM 188 R 1887 | 15.25 | .445 |
| 91 MM 188 R 1888 | 24.95 | .728 |
| 91 MM 188 R 1889 | 8.25 | .241 |
| 91 RV 188 R 1973 | 5.29 | .154 |

*AU - 1 ASSAY TON.

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0498-RA1

Company: **KEEWATIN ENGRG.**
Project: **0488**
Client: **B. WHELAN/M. MORRICE**

Date: **AUG-26-91**

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O SMITHERS EXP.
3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 9 ROCK samples
submitted AUG-19-91 by M.MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|------------------|---------------------|--------------------|
| 01 MM 188R 1877 | 1.47 | .043 |
| 01 MM 188R 1879 | 1.02 | .030 |
| 01 MM 188R 1964 | 102.93 | 3.002 |
| 01 MM 188R 1965 | 30.40 | .887 |
| 01 MM 188R 1966 | 32.40 | .945 |
| 01 MM 188R 1967 | 8.80 | .257 |
| 01 MM 188R 1968 | 92.53 | 2.699 |
| 01 MM 188R 1969 | 5.20 | .152 |
| 01 MM 188R 1971 | 1.92 | .056 |

*AU - 1 ASSAY TON.

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

SEP 6 1991

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0614-RA1

Company: **KEEWATIN ENGRNG.**
Project: 188 ISKUT
Attn: B. WHELAN/M. MORRICE

Date: SEP-02-91

- Copy 1. KEEWATIN ENGRNG., VANCOUVER, B.C.
2. KEEWATIN ENGRNG., WINNIPEG, MAN.
3. KEEWATIN ENGRNG., C/O MIN-EN LABS.

I hereby certify the following Assay of 2 ROCK samples
submitted AUG-29-91 by M. MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|------------------|---------------------|--------------------|
| 91 RV 188R 1984 | 1.51 | .044 |
| 91 MM 188R 2313 | 14.10 | .411 |

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

APPENDIX IX

Rock Sample Descriptions

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Results Plotted By: _____

Map: _____ NTS: _____

Date: _____ Surface Underground

Project: DRYDEN QC - 188

Area (Grid): _____

Collectors: M. MORRICE

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET |
|---------------|----------------|--------------------------|--------------------|----------------------|------|-----------------|------|-------|----------------|-------------------------------------------------|-----------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| R 1800 | CK. ON E. SIDE | - EL. 4170' | — | 2cm | | | | | CLAY GOUGE | 2CM WIDE RED-BROWN CLAY W/IN DIORITE | 104G16 |
| R 1801 | CK. ON E. SIDE | - EL. 4170' | R 1801 | 2cm | | | | | Qtz-carb-py m | 2cm Qtz-cc-py-gal? moly? vein IN DIORITE | " |
| R 1802 | N. FACING | RUSTY CLIFFS - EL. 4610' | | ✓ | | | | | SIL'D. DIORITE | 1/2-2/3 M WIDE SIL'D ZONE + 3-5% PY IN DIORITE | " |
| R 1803 | RIDGE | BEHIND CAMP | R 1803 | ✓ | | | | | INT-MAF. VOLC | PERVASIVE EP'N, CC ON FR., 1-2% DISS PY | " |
| R 1804 | RIDGE | BEHIND CAMP | | ✓ | | | | | INT-MAF. VOLC | PERVASIVE EP'N, QTZ FLOODING, 3% PY | " |
| R 1805 | RIDGE | BEHIND CAMP | R 1805 | ✓ | | | | | INT-MAF. VOLC | SIL'D W/ RELICT HB PHENO'S, 5-7% DISS FR. PY | " |
| R 1806 | RIDGE | BEHIND CAMP | R 1806 | ✓ | | | | | INT-MAF. VOLC | EP'D + CHR'D, 10-60% PY IN 20CM WIDE ZONE | " |
| F 1807 | RIDGE | BEHIND CAMP, EL. 5560' | | | | | | ✓ | MAF. VOLC | FELSENMEER, PERVASIVE EP'N, SIL'N, 3-5% PY | 104G9 |
| F 1808 | RIDGE | BEHIND CAMP, EL. 5930' | F 1808 | | | | | ✓ | INT-MAF. VOLC | PERVASIVE SIL'N EP'N 1-2% DISS PY | " |
| F 1812 | N-S CK. | W OF QC ET. 5050' | F 1812 | | | | | ✓ | CHERTY TUFF | 5-10% DISS PO, 1-2% PY ON FR | " |
| F 1813 | N-S CK. | W OF QC ET. 5080' | F 1813 | | | | | ✓ | CHERTY TUFF | BUFF-GREY, 5% PY + AZURITE ON FR | " |
| R 1814 | N-S CK. | W OF QC ET. 5120' | | | | | | | MAFIC VOLC | PROPYLITIC, 5-7% FR. PY, S OF QTZ UN | " |
| R 1815 | N-S CK. | W OF QC ET. 5120' | F 1815 | | | | | | QTZ VEIN | 5% DISS. PY | " |
| R 1816 | N-S CK. | W OF QC ET. 5120' | F 1816 | | | | | | MAFIC VOLC | PROPYLITIC, 5% FR. PY, SOME QTZ LENSES | " |
| R 1817 | W SIDE | OF RUSTY CK ET. 5150' | R 1817 | | | | | | QTZ VEIN | 10CM WIDE, INTO HORNFELSED MAFIC VOLC | 104G16 |
| R 1818 | W SIDE | OF RUSTY CK ET. 4950' | R 1818 | ✓ | | | | | DIORITE | F. GR., PROPYLITIC, 3-5% PY, TR CPY ON FR | " |
| R 1819 | W SIDE | OF RUSTY CK ET. 4800' | R 1819 | | | | | | QTZ VEIN | IN SHEAR ZONE W/IN HORNESS M.V., 10-20% CPY, PY | " |
| R 1820 | W SIDE | OF BRUNS CK ET. 5020' | | ✓ | | | | | INT-MAFIC VOLC | 15-20CM WIDE SHEAR ZONE - CHR + QZ + PY ACT'N | " |
| R 1821 | W SIDE | OF BRUNS CK ET. 5020' | | ✓ | 8cm | | | | QTZ VEIN | 30-40% PY, QTZ UN CUTS MAFIC VOLC | " |
| R 1822 | W SIDE | OF BRUNS CK ET. 5020' | | ✓ | | | | | CHERTY TUFF | 3-5% FINELY DISS'D PY, TR CPY ON FR | " |
| R 1823 | QC | Main Grid | | | | 3m ² | | | DIORITE? | PROPYLITIC?, 2% DISS PY, MINOR CPY W QV | " |
| R 1824 | QC | Main Grid | | ✓ | | | | | DIORITE? | QTZ VEIN W/ CPY, PY (1% CPY) | " |
| R 1825 | QC | Main Grid | | | 2m | | | | MAFIC VOLC | + QTZ VEIN, <1% PY + CPY IN QV | " |
| R 1826 | QC | Main Grid | | | 7cm | | | | QTZ VEIN | UP TO 3-5% FR. CPY | " |
| R 1827 | QC | Main Grid | R 1827 | ✓ | | | | | DIORITE | DISS PY, FR. CONTROLLED PY | " |
| R 1828 | QC | Main Grid | | ✓ | | | | | DIORITE | W/ <1cm QV'S WITH CPY BLEBS | " |
| R 1829 | QC | Main Grid | R 1829 | | | | | ✓ | DIORITE | W/ <1cm QV'S WITH CPY BLEBS | " |
| R 1830 | QC | Vein Area | 1830 | ✓ | | | | | SPH. VEIN | 8CM WIDE SPH. VEIN | " |
| R 1831 | QC | Vein Area | 1831 | ✓ | | | | | MAFIC VOLC | 5% DISS PY, ADJACENT TO SPH. VEIN | " |
| R 1832 | QC | Vein Area | 1832 | ✓ | | | | | DIORITE | (UNALTERED) WITH CM-THICK QTZ-CPY UN | " |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Dryden QC-188
 Area (Grid): _____
 Collectors: M. MORRICE

Results Plotted By: _____
 Map: _____ NTS: 104 G/9, 104 G/16
 Date: _____ Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET |
|---------------|-------------------|------------|--------------------|----------------------|------|---------|------|-------|--------------|-----------------------------------------------------------|-----------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 1833 | QC Main Grid | | | ✓ | | | | | QTZ VN | 1.5cm wide QTZ-py VN. IN HORNFELS | 104G/16 |
| 1834 | QC Main Grid | | 1834 | ✓ | | | | | INT-MAG VOLC | HORNFELS, WITH QTZ-CPY STOCKWORK | " |
| 1835 | QC Main Grid | | 1835 | ✓ | | | | | DIORITE | EPD WITH SEVERAL < 1/2 cm QTZ-CPY VNS | " |
| 1836 | QC Main Grid | | 1836 | | 3m | | | | QTZ VN | w/ DISS'D CPY, PY (3-5%) | " |
| 1837 | QC Main Grid | | 1837 | | 1.5m | | | | Mafic volc | fr. gr with 5-10% py, cpy (fr. diss) near diorite | " |
| 1838 | QC Main Grid | | | | 2m | | | | Mafic volc | propylitic, 1-2% py + cpy (fr., diss) | " |
| 1839 | " | | | | 2m | | | | Mafic volc | locally epidatized, chl'e, 1-2% diss py, cpy | " |
| 1840 | " | | | ✓ | | | | | Mafic volc | dark chl on slip planes, 2-3% fr. py + cpy | " |
| 1841 | " | | | | 1m | | | | Diorite | qtz-py-cpy vein in diorite (1-2cm) | " |
| 1842a | " | | | | 2m | | | | Diorite | < 1% diss, fr py; 2cm wide qtz vn. | " |
| 1850 | " | CONTINUOUS | | | 3m | | | | Diorite | with 6-7, 1cm wide, QTZ-CPY VNS | " |
| 1851 | " | - GULF | | | 3m | | | | Diorite | with 4-5, 1cm wide, QTZ-CPY VNS | " |
| 1852 | " | ↓ ZONE | | | 3m | | | | Diorite | w/ 3-4, 1cm wide + 1.8cm wide QTZ-CPY VNS | " |
| 1853 | QC Main Grid | | | | | | | ✓ | MAFIC VOLC | LOOSE STOCKWORK OF DRUSY QTZ VNS, NO SULPH | " |
| 1867 | QC West Grid | | | ✓ | | | | | MAFIC TUFF | CARB'D WITH WHITE CC VETALS, 1-2% sph gal, cpy | |
| 1868 | " | | | ✓ | | | | | MAFIC TUFF | 2-3% py, cpy, sph, gal in white CC veins | |
| 1869 | " | | | ✓ | | | | | DIORITE | Fe-carb altered + veined, 2-3% py | |
| 1877 | QC - Rusty Creek | | | | | | | ✓ | Qtz-cc vein | 3-5% diss sph, aspy, cpy | |
| 1878 | QC - Main Grid | | | | | | | ✓ | Mafic volc. | Composite chip sample, 2-3% fract. py | |
| 1879 | QC - Main Grid | | | | 1m | | | | Mafic volc | 3-5% diss. py adjacent to shear zone | |
| 1880 | QC - Upper Gordon | | | | 0.4m | | | | Mafic volc | silicified w/ 50-60% py >> cpy > sp + limonite | |
| 1881 | " | | | | 0.7m | | | | " | intense Fe-carbonate alteration, 5% fr, diss py | |
| 1882 | " | | | | 1m | | | | Mafic volc? | intensely oxidized - limonite | |
| 1883 | " | | | | .75m | | | | Mafic volc | carbonatized; 5-7% fr, diss py, cpy | |
| 1884 | " | | | | .85m | | | | Mafic volc. | carbonatized, 10-20% diss. py, cc stockwork | |
| 1885 | " | | | | .6m | | | | Mafic volc | calcite stockwork, 5% diss py | |
| 1886 | " | | | | 1.4m | | | | Mafic volc | silicified w/ 10-70% py + sph + cpy | |
| 1887 | " | | | | .35m | | | | ? | high oxidized, limonite + Fe-carb + sph, cpy, py (50-70%) | |
| 1888 | " | | | | 1m | | | | Mafic volc | 2-3% diss py + 5cm wide limonite veins | |
| 1889 | " | | | | 4m | | | | ? | 1.6m calcite oxidized - hornfels + limonite veins | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Dryden QC-188
 Area (Grid): _____
 Collectors: M. MORRICE

Results Plotted By: _____
 Map: _____ NTS: _____
 Date: _____ Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|-------------------------|-------|--------------------|-------------------------|------|---------|------|-------|-----------|--------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 21890 | Lipper Gordon Shoveling | | | | 75m | | | | Wacke | intensely carbonatized; 5-7% diss py | |
| 1891 | QC-5 | | | | 3m | | | | Wacke | <1-1 1/2% diss py + cpy | |
| 1892 | QC-5 | | | | 2m | | | | Wacke | <1% diss py, cpy | |
| 1893 | QC-5 | | | | 5m | | | | Wacke | 0-2% diss py | |
| 1894 | QC-5 | | | | ✓ | | | | Wacke | trace of 1-3mm py clasts + diss py | |
| 1895 | West Grid | | | | ✓ | | | | Diorite | at Au soil anomaly - 2-3% diss py | |
| 1896 | " | | | | ✓ | | | | Diorite | at Au soil anomaly - 2-3% diss py | |
| 1897 | " | | | | ✓ | | | | Wacke | Fe-carb alt'd; 5% diss + fr py | |
| 1898 | " | | | | ✓ | | | | Diorite | Fe-carb alt'd, 5-10% diss + fr py | |
| 1899 | " | | | | | 2m | | | Wacke | Fe-carb alt'd, 5-7% diss + fr py | |
| 2309 | West Grid | | | | | 4m | | | Wacke | Fe-carb alt'd, 5% diss + fr py | |
| 2310 | " | | | | | 4m | | | Diorite | Fe-carb alt'd, 5% diss + fr py | |
| 2311 | " | | | | | 1m | | | Diorite | Fe-carb alt'd, 3-5% diss py + asp? | |
| 2312 | " | | | | | ✓ | | | Diorite | chip over 5x5m area, 3-5% diss py | |
| 2313 | " | | | | | ✓ | | | Diorite? | Qtz boxwork, 1-2% diss py - leached | |
| 2314 | " | | | | | ✓ | | | Diorite | Fe-carb alt'd, 1-2% diss py | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: QC 188
 Area (Grid): Porphyry Zone
 Collectors: Rob Van Egmond

Results Plotted By: _____
 Map: _____ NTS: 104G/16 W
 Date: _____ Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MA SHEET |
|---------------|---------------------------------------|-------|--------------------|----------------------|------|---------|------|-------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 71-RV 1900 | Ridge west of camp | 5700' | | ✓ | | | | | mafic tuff | 2-4m wide pyritic zone in prophyllitic alteration zone. 10% euhedral pyrite in calcitic tuff. | 1091 WA |
| 71-RV 1901 | Ridge west of camp | 5820' | | ✓ | | | | | andesite | Trace pyrite/malachite - pervasive epidote alteration and 5% calcite veinlets - non magnetic - prophyllitic alteration developed | |
| 71-RV 1902 | Ridge west of camp | 5920' | | ✓ | | | | | flow tuff | epidote alteration - 1-2mm blebs disseminated in prophyllitic altered tuff - 5% calcite - 1% diss py. D. 5-1mm clasts. | |
| 71-RV 1904 | Gully to bottom of bluff west of camp | 5300' | | | ✓ | (1 m) | | | siltstones | chip over: high density of quartz veins (<1cm) - diss pyrite (tr) in quartz veins and host - malachite stain on fractures - quartz veins 50% of rock. | |
| 71-RV 1905 | Gully west of camp | 5290' | | | ✓ | (1.3m) | | | quartz/sericite vein in volcanics | 10-15um vein in siliceous volcanic - dark green chlorite alteration - 50% pyrite in vein trace malachite high grade to test veins for gold. | |
| 71-RV 1906 | Gully west of camp | 5120' | | | ✓ | (2m) | | | sheared volcanics | highly sheared zone in dark green chloritic altered volcanics - 1cm pyrite vein along shear. grey-yellow alteration, calcitic on fractures. | |
| 71-RV 1907 | Base of west bluff | | | ✓ | | | | | hornblend diorite | Fresh intrusive with disseminated pyrite | |
| 71-RV 1908 | " | | | ✓ | | | | | hornblend diorite | Fresh intrusive - cross cutting quartz veins with 5% py, trsp, tr mal. | |
| 71-RV 1909 | Base of west bluff | | | | ✓ | (3.3m) | | | hornfelsed volcanics | grey green hornfelsed volcanics - 5% calcite stringers - tr mal, py. | |
| 71-RV 1910 | Base of west bluff | | | | ✓ | (4.1m) | | | silicified sediments | Fine grained - med green sediments - calcite in veinlets w tr py - rusty weathering | |
| 71-RV 1911 | Base of west bluff | | | | ✓ | (3m) | | | tuff | Med grained siliceous tuff - slightly magnetic | |
| 71-RV 1912 | Ridge East of camp | | | | ✓ | (2m) | | | mafic tuff | pyritic zone 4m x 8m in lapilli tuff | |
| 71-RV 1913 | Bluff East of camp | | | | ✓ | (4m) | | | diorite | unaltered diorite w 5-10% py | |
| 71-RV 1914 | Bluff East of camp | | | | ✓ | (3m) | | | mafic tuff | 2 - 5 10% pyrite and malachite structure | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Results Plotted By: _____

Map: _____

NTS: 104 G/16

Date: _____

Surface _____ Underground _____

Project: QC 188
 Area (Grid): Porphyry Zone
 Collectors: Kob Van Egmond

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH,m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|--------------------------------|-------|--------------------|------------------------|------|---------|------|-------|--------------|-------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| RV1915 | Bluff East of camp | | | | ✓ | (30cm) | | | mafic tuff | shear zone with siliceous centre - malachite on fractures - tr py. | |
| RV1916 | Beside 1915 @ 4910' | | | | ✓ | (3.5m) | | | mafic tuff | two shear zones (30cm each) plus host tuff included - 1 q.v. (8cm) w 1-2% gn - mal on fracture. | |
| RV1917 | Bluffs North of camp | | | ✓ | | | | | quartz vein | 30cm adjacent to diorite dike in silicified volcanic tuffs 50% Aspy tr gn, cp, py | |
| RV1918 | Beside 1917 | | | | ✓ | (4.5m) | | | diorite dike | dike adjacent to quartz vein, hornblende porph. | |
| RV1919 | 75m upstream from Gordon | | | ✓ | | | | | quartz vein | sample of sphalerite and quartz carbonate 15% sp. | |
| RV1920 | Large gully West of camp 5170' | | | ✓ | | | | | tuffs | silicified, light tan to white alteration adjacent to diorite dike tr py | |
| RV1921 | Bluff west of camp | | | | | | ✓ | | diorite/q.v. | q.v. material with diorite wall rock contains 5% cp 10% bn 5% py tr moly gn | |
| RV1922 | Bluff west of camp | | | ✓ | | | | | diorite | stock work q.v. adjacent to Fault <1% cp 3% apy tr moly 40% q.v. material. | |
| RV1923 | Bluff East of camp | | | ✓ | | | | | diorite | stock work q.v. in 3 per meter density 10% py tr cp | |
| RV1924 | Bluff East of camp | | | ✓ | | | | | diorite | conjugate q.v. sets - no sulphides 1 per 10cm density | |
| RV1925 | Bluff East of camp | | | | ✓ | (30cm) | | | quartz vein | 30-40 cm quartz calcite vein 15% sp, 5% cp, 10% py | |
| RV1926 | Bluff East of camp | | | | ✓ | (1m) | | | diorite/tuff | hanging wall to 1925 - fine grained diorite? drk | |
| RV1927 | Bluff East of camp | | | | ✓ | (1m) | | | diorite/tuff | foot wall to 1925 - fine grained diorite? green | |
| RV1928 | Bluff East of camp | | | ✓ | | | | | tuff | 40cm shear zone w quartz calcite vein - az + mal | |
| RV1929 | 15200E/10450N | | | ✓ | | | | | tuff | 15cm quartz vein w 30% corroded py | |
| RV1930 | 15200E/10450N | | | | ✓ | (1m) | | | tuff | hanging wall to sample 1929 - unaltered tuff. | |
| RV1931 | 4625' in gully North of camp | | | ✓ | | | | | vein | quartz vein, 40% sugary py 1% moly/gn - mal and azurite on fractures. | |
| RV1932 | 4620' in gully North of camp | | | | ✓ | (1m) | | | tuff | yellow altered/weathering mafic tuff, foot wall of sample 1931 | |
| RV1933 | Bluff East of camp | | | | ✓ | 40cm | | | vein | 40cm quartz calcite vein 10% py 5% cp. | |
| RV1934 | Beside 1933 | | | | ✓ | (1m) | | | diorite | hanging wall to 1933 - altered diorite (silicified) | |
| RV1935 | Beside 1933 | | | | ✓ | (1m) | | | diorite | Foot wall to 1933 - mal + az on fractures also 1cm barren q.v. | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: QC 188
 Area (Grid): Porphyry zone + Vein zone
 Collectors: Rob Van Egmond

Results Plotted By: _____
 Map: _____ NTS: 104 G/16
 Date: _____ Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|-----------------------------------------|-------|--------------------|-------------------------|--------|---------|------|-------|-----------------|--------------------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| RV1936 | Bluff East of camp | | | | ✓ (2m) | | | | diorite | 2m shear zone/Fault inc. quartz/carb vein w 5% cp, 10% py | |
| RV1937 | Beside 1936 | | | | ✓ (1m) | | | | diorite | highly silicified wall rock to sample 1936 tr cp 5% py 2% q.v. | |
| RV1938 | 25m West of of upper Gordon showing. | | | | | | | ✓ | vein | 2-3cm size float of q.v. in with carbonate altered volcanics. | |
| RV1939 | Upper Gordon showing | | | | ✓ (1m) | | | | volcanics | Resample of sample 48054 (2.917% Cu) 50cm oxidized vein? 30cm fresh silicified 20cm q.v. 20% Asp + 30% py | |
| RV1940 | line 75N on "D" grid | | | ✓ | | | | | mafic volcanics | 7% euhedral-subhedral py in slightly silicified volcanics - small trench above Gordon | |
| RV1941 | Creek east of "C" grid on ridge. | | | ✓ | | | | | diorite | hornblende porph. 10% diss. po: slightly silicified. | |
| RV1942 | 50s - 30E on "C" grid | | | | | | | ✓ | volcanics | Float from trench above? quartz/calcite vein 3% cp 5% Asp 3% py | |
| RV1943 | Creek east of "C" grid & same place 1/2 | | | ✓ (3m) | | | | | sediments | silicified and pyrotized sediments - silt + pebble conglomerates. | |
| RV1944 | Ridge down from "B" grid 5100' | | | ✓ (0.3m) | | | | | conglomerate | pebble congl. as in 1943 15% po in blebs could be clasts. 5% spec hematite | |
| RV1945 | on ridge @ 5130' | | | ✓ (3m) | | | | | sed/volc? | Fine grained grey, slightly calcareous 15% diss po 7% py tr hem. | |
| RV1946 | on ridge @ 5250' | | | ✓ (3m) | | | | | sed/volc? | thin bedded light grey silicified - representative sample 5% diss po tr py | |
| RV1947 | Orange Zone | | | ✓ | | | | | vein | q.v. / siliceous host rock (sed) 10% sp 7% py 5% As. | |
| RV1948 | Orange Zone | | | ✓ | | | | | vein | massive ga + sp + As (30% total) yellow q.v. w diss py. As | |
| RV1949 | Orange Zone | | | | ✓ (1m) | | | | diorite | green diorite - hbl & + biotite non magnetic dike 3-5m wide. | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Results Plotted By: Rob Van Egnond

Map: NTS: 104 06/16 W

Date: _____ Surface _____ Underground _____

Project: QL188
 Area (Grid): _____
 Collectors: Rob Van Egnond

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH,m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|----------------------------|-------|--------------------|------------------------|------|---------|------|-------|-----------------|------------------------------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| RV1950 | North of camp in s1k | | | | | | | | quartz vein | subrounded q.v w cpy 5%, Asp 5%, sp 3% py 10% po 5%, gn tr, native Cu ta, bo tr in bull white quartz | |
| RV1951 | Bottom of bluffs @ 15200 E | | | | 2m | | | | andesite | shear in fine grained andesite w mal on fract | |
| RV1953 | QC West Grid 12505E/10747N | | | ✓ | | | | | chert pabble | condensate w 2% blebby po/py | |
| RV1954 | Orange zone | | | ✓ | | | | | diorite | felsmeer of diorite in orange soil. | |
| RV1955 | Orange zone | | | | 2m | | | | silts? | Yellow weathering w 2% disseminated py | |
| RV1956 | West Grid | | | | 5m | | | | volcanics | talus grab green tufts | |
| RV1957 | West Grid | | | | 6m | | | | volcanics | talus grab of andesite w diss py <1% | |
| RV1958 | West Grid | | | | 5m | | | | volcanics | talus grab green bedded/massive tufts | |
| RV1959 | West Grid | | | | 6m | | | | volc./diorite | talus grab 50% diorite 50% green tufts | |
| RV1960 | West Grid | | | | 7m | | | | volcanics | talus grab green tufts trpy | |
| RV1961 | Soil line along Quash (S) | | | | | 5m | | | silts/wackes | 3% disseminated py in well bedded silts and wackes | |
| RV1962 | Soil line along Quash (S) | | | | | 3m | | | silts | silicified w quartz along fracture massive | |
| RV1963 | Soil line along Quash (S) | | | | | 2m | | | diorite | hornblende porph diorite w K-feldspar alteration | |
| RV1964 | Upper Gordon Vein | | | | | 0.5m | | | quartz/carb? | Oxide zone w boxwork - very light | |
| RV1965 | Upper Gordon Vein | | | | | 0.5m | | | quartz/carb. | alteration and veins in mafic volcanics 10% py | |
| RV1966 | Upper Gordon Vein | | | | | 0.4m | | | quartz/carb? | Oxide zone w boxwork - dark brown weathering | |
| RV1967 | Upper Gordon Vein | | | | | 0.4m | | | quartz/carb | alteration and veins in mafic volcanics | |
| RV1968 | Upper Gordon Vein | | | | | | | | | 10% limonite, 5% py yellow weathering | |
| RV1968 | Upper Gordon Vein | | | ✓ | | | | | quartz/carb? | Frothy quartz and boxwork oxides 5cm wide zone. | |
| RV1969 | Upper Gordon Vein | | | | | 0.4m | | | mafic volcanics | 30% quartz carbonate trcpy 5% limonite | |
| RV1970 | Upper Gordon Vein | | | | | 1m | | | mafic volcanics | wall rock to vein - 1% diss. py | |
| RV1971 | Upper Gordon Vein | | | ✓ | | | | | quartz/carb | 40% sp cut by brown (ankerite) veinlets. | |
| RV1972 | Lower Vein Lrk. | | | | | 2m | | | mafic dyke | highly magnetic w Feldspar porphery "Flowers" Feldspars are green, 5% hematitic limonite magnetite disseminated. | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Results Plotted By: Rob van EgmondMap: _____ NTS: 104 G116

Date: _____ Surface _____ Underground _____

Project: QL 188
Area (Grid): _____
Collectors: Rob Van Egmond

| SAMPLE NUMBER | LOCATION NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH,m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|-------------------|--------------------|------------------------|------|---------|------|-------|-----------------|-------------------------------------------------------------------------------------------------------|-------------------|
| | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| RV1973 | Upper Gordon Vein | | | 0.3m | | | | Vein | 40% massive sphalerite 5% disseminated pyrite 2% arsenopyrite cut by 2.5mm quartz/carbonate | |
| RV1974 | Upper Gordon Vein | | | 1m | | | | mafic volcanics | Hanging wall to RV 1973 silicified volc w 5% disseminated pyrite. | |
| RV1975 | West of West Grid | | ✓ | | | | | diorite | Float of silicified/chloritized diorite - g.v | |
| RV1976 | West of West Grid | | | 0.1m | | | | wackes | limonite brown zone no sulphides | |
| RV1977 | West of West Grid | | | 1.7m | | | | wackes | silt and wackes w 2% disseminated pyrite | |
| RV1978 | West of West Grid | | | 1m | | | | mudstones | rusty zone in 1m section of mudstones. | |
| RV1979 | " | | | 2.5m | | | | silt | 3% disseminated py in yellow weathering silt. | |
| RV1980 | " | | ✓ | | | | | wackes | talus grab < 1% disseminated Po | |
| RV1981 | " | | | 4m | | | | diorite | hornblend porph. w 5% epidote 2% diss py | |
| RV1982 | 12075 E / 11050 N | | ✓ | | | | | diorite | talus grab chlorite altered diorite tryp. trpo | |
| RV1983 | 12000 E / 11200 N | | ✓ | | | | | wackes | talus grab 1% diss. py in rusty wacke. | |
| RV1984 | West of West Grid | | ✓ | | | | | ? | pyritized/silicified rock with 30cm spaced py/ptz veins (1-3cm wid) - yellow weathering 1m x 1m | |
| RV1985 | West of West Grid | | ✓ | | | | | wackes | 3% disseminated/blebby py in slightly altered wackes (carbonate) | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Push 188
 Location (Grid): Q.C. 1991 Grid
 Collectors: Don Laidge

Results Plotted By: _____
 Map: _____ NTS: 104 6/16 W
 Date: July 5, 1991 Surface Underground

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|-----------------|-------|--------------------|-------------------------|------|---------|------|-------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 22000 | 14400E + 10540N | | | 3m | | | | | Mafic Volc | Grey green moderately silicified andesite. 2% fine grained Py. | |
| 22001 | Elev 4680' | | | 0.4 | | | | | Mafic Volc | Silicified volc + g/2 veining over 0.4m. Adjacent to intrusive diorite dike strike 184° dip 44° W 10% sulphides. As Py, Calc Py, Galena. Yellow oxide on some portion of outcrop. | |
| 22003 | 5120' | | | 0.5 | | | | | Mafic Volc | Calcite + malachite azurite along fracture planes. Py 2-3% TR Calc Py. | |
| 22004 | Elev 5177' | | | 0.5 | | | | | Hornblende diorite | Taken at contact w mafic volc. Azurite + malachite staining along fracture planes. 2-3% Py, Calc Py 1% (diorite). | |
| 22005 | Elev 5117' | | | 0.35 | | | | | Mafic Volc | Grey green andesite with calcite veinlets 1-2 mm in width orientated along fracture planes. Py 2-5% | |
| 22006 | Elev 5125' | | | 0.30 | | | | | Mafic Volc | Grey green Qtz carb flooded andesite Qtz carb vein lens 10-15% Py 1% Calc Py | |
| 22002 | Elev 5120' | | | 0.25 | | | | | " " | Contact w hornblende diorite. Fine lens Py 1-2% Calc Tr. | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Quash Creek 188
 Area (Grid): 1991 GC grid - Gully Zone
 Collectors: Don Loolidge

Results Plotted By: _____
 Map: _____ NTS: 104 G/16 W
 Date: July 10, 1991 Surface Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|-----------|-------|--------------------|-------------------------|------|---------|------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 22007 | Flv 4740' | | | | 0.5 | | | | Mafic Volc. Taken on east side of old exposure that discontinued contacts a diorite. Next to recessive gully. 2-5% Py, Calcite Calcite veinlets + flashing in fract. planes | | |
| 22008 | 4810' | | | | 0.8 | | | | Mafic Volc. Grey andesite w/ qtz carb veinlets 1-2 mm. Calcite present along fracture planes + malachite + pyrite 2-3% Py fine dis Calc Py 1-2% | | |
| 22009 | 4810' | | | | 1.0 | | | | Mafic Volc Grey andesite w/ calcite veinlets (1-2mm) along fracture planes oriental between 80-90° Hematite all present 4-6% Py, Calc Py - disseminated | | |
| 22010 | 4880' | | | | 0.3 | | | | Mafic Volc Grey green andesite with 1cm wide Qtz stringer $\frac{22^\circ}{90^\circ}$ - Py 10-15% - cubes. Calc Py 2-4% dis. | | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Quash 188

Results Plotted By: _____

Area (Grid): Quash 1991 GR1D

Map: _____ NTS: 104 E/16

Collectors: Don Cooling, Mike Brown, Pat Kous

Date: July 12 6/16 W Surface Underground _____

| SAMPLE NUMBER | Gully Zone | | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|------------|------------------------|--------------------|-------------------------|------------|---------|------|-------|-------------------|--------------------------------------------------------|-------------------|
| | LOCATION | NOTES | | GRAB meters | CHP meters | CHANNEL | CORE | FLOAT | | | |
| BR R2011 | ELV 4920' | | | | 2 | | | | Hornblend diorite | Felsic in appearance w/ epidote on fracture planes | |
| R2012 | | 2-4m interval | | | 2 | | | | Hornblend diorite | Contact w/ Vole. Aug + Malicite on fracture planes | |
| R2013 | | 4-6m interval | | | 2 | | | | Malic Vole | Malicite, Azurite, calcite along frac. 71% Py | |
| R2014 | | 6-8m interval | | | 2 | | | | -11- | 5-8% Py along fract planes + slabs. | |
| R2015 | | 8-10m interval | | | 2 | | | | -11- | 5% Py Mal fractures = 320" | |
| R2016 | | 10-12m interval | | | 2 | | | | -11- | TR Py; Calc Py. | |
| R2017 | | 12-14m interval | | | 2 | | | | -11- | Hardline X cutting gte carb veinlets TR Py. | |
| R2018 | | 14-16m interval | | | 2 | | | | Malic Vole | Calcite veinlets > 0.5mm 2% Azurite Py | |
| R2019 | | 16-18m interval | | | 2 | | | | -11- | Hardline calcite line w/ Py 2% | |
| R2020 | | 18-20m interval | | | 2 | | | | -11- | fine azurite + malicite on frac. planes 3% Py | |
| R2021 | | 20-22m interval | | | 2 | | | | -11- | 2% fine grained Py. Aug + Malicite on frac. | |
| R2022 | | 22-24m interval | | | 2 | | | | some -11- Epidote | Hardline X cutting calcite line infilling. | |
| R2023 | | 24-26m interval | | | 2 | | | | -11- | 4% Py - fine grained | |
| R2024 | | 26-28m interval | | | 2 | | | | Malic Vole | 2% fine Py - disseminated | |
| R2025 | | 28-30m interval | | | 2 | | | | -11- | 2% Py on fracture planes. | |
| R2026 * | | 30-32m interval | | | 2 | | | | -11- | Calcite, epidote, Aug + malicite. 4% Py, 1% Calc Py. | |
| R2027 | | 32-34m interval | | | 2 | | | | -11- 2% Py | Calcite, azurite + malicite along frac planes. TR Calc | |
| R2028 | | 4920' 34-35m | | | 1 | | | | Malic Vole | 3% disseminated sulphides 2% Py 1% Calc Py. | |
| | | * MM C-1837 @ | | | | | | | | | |
| | | center of chip sample. | | | | | | | | | |
| R2029 | 4895' | 0-2m interval | | | 2 | | | | Malic Vole | 1-2% Py pervasive | |
| R2030 | 4895' | 2-4m interval | | | 2 | | | | Malic Vole | 2% Py Pervasive malicite + azurite | |
| R2031 | 4895' | 4-6m interval | | | 2 | | | | -11- | Orz carb alt. 5% Py, TR Calc Py. | |
| R2032 | 4895' | 6-8m interval | | | 2 | | | | -11- | Orz carb alt. 5% disseminated Py | |
| R2033 | 4895' | 8-10m interval | | | 2 | | | | Malic Vole. | 5% Py occurring along frac planes. | |
| R2034 | 4895' | 10-12m interval | | | 2 | | | | Malic Vole | -11- | |
| R2035 | 4895' | 12-14m interval | | | 2 | | | | -11- | 5% fine grained diss. Py 20% Azurite. | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Quartz 188
 Area (Grid): Q.C. 1991 Grid
 Collectors: Don Cantledge Curt Klaus Mike Brown

Results Plotted By: _____
 Map: _____ NTS: 104 G/16 W
 Date: July 12, 1991 Surface: _____ Underground: _____

| SAMPLE NUMBER | Gully Zone LOCATION NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH,m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|------------------------------|--------------------|------------------------|-------------|---------|------|-------|-------------------------|------------------------------------------------------------|-------------------|
| | | | GRAB | CHIP METERS | CHANNEL | CORE | FLOAT | | | |
| R 2036 | 4825' 0-2m interval | | | 2 | | | | Handl. Diomite | At Contact w Malic Vole. Aug + Malicite on fracture planes | |
| R 2037 | 4825' 2-4m interval | | | 2 | | | | -11- | Calcite flooring 2% Py diss + calc 2% | |
| R 2038 | 4825' 4-6m interval | | | 7 | | | | -11- | Weak Argillie alt? 1-2% Py | |
| R 2039 | 4825' 6-7m interval | | | 1 | | | | -11- | 2% Bldgs of Py. Recessive gully 0.5m west. | |
| R 2101 | 4825' } 0-2m interval | | | 2 | | | | Malic Vole | 6.5m across small recessive gully 1% Calc Py 2% Py | |
| R 2102 | 4825' } 2-4m interval | | | 2 | | | | -11- | Qtz carb veinlets 7mm 1% diss calc + bldgs 1% Py | |
| R 2103 | 4825' } 4-6m interval | | | 2 | | | | -11- | Malicite + Aug on fresh surface 1% Calc Py | |
| R 2104 | 4740' 0-2m interval | | | 2 | | | | Malic Vole | Qtz carb veinlets 7% Py 1% Calc Py | |
| R 2105 | 2-4m interval | | | 2 | | | | -11- | Qtz carb veinlets 1-2mm 2% diss Calc Py | |
| R 2106 | 4-6m interval | | | 2 | | | | -11- | < 1% fine d.s. Calc Py | |
| R 2107 | 6-8m interval | | | 2 | | | | | Sparse Aug + Malicite 3% Py 7 1% Calc Py | |
| R 2108 | 8-10m interval | | | 2 | | | | | Minor Malicite stain Py 1% Calc Py 2 1% | |
| R 2109 | 10-12m interval | | | 2 | | | | Malic Vole | stacked 1mm Qtz carb vein 2-3mm Py 1% Calc Py | |
| R 2110 | 4740' 12-13m interval | | | 1 | | | | Malic Vole | At Contact w diomite. Adjacent to east side of gully 1% Py | |
| R 2111 | 4740' 0-2m interval | | | 2 | | | | Malic Vole | Hamitite + calcite alt. - weak 1% Calc Py | |
| R 2112 | 2-4m interval | | | 2 | | | | -11- ^{2%} Calc | Qtz carb veinlets 7mm + flooring frag. Phans | |
| R 2113 | 4-6m interval | | | 2 | | | | -11- | Qtz carb veinlets. Minor calcite 1% Calc TR Py | |
| R 2114 | 6-8m interval | | | 2 | | | | Malic Vole | Qtz carb hamitite vein 20" frag - 1cm 5% Calc | |
| R 2115 | 4740' 8-10m interval | | | 2 | | | | Malic Vole | Qtz carb veinlets w 1-2% diss. Py Calc Py | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: 188 Quash Creek
 Area (Grid): VEIN
 Collectors: Don Coolidge

Results Plotted By: _____
 Map: _____ NTS: 104 G/16 West
 Date: 15/7/91 Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH,m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|------------------------------------|-------|--------------------|------------------------|------|---------|------|-------|--------------------|---------------------------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 188 2116 | ONE valley south of MAIN showings. | | | 35m | | | | | Felsic Volc | 35° Near weathered surface 4-4SE span zone | |
| 360' | steep mt 60m above CK | | | | | | | | 370 Coy | 5m gauge zone below sample. Some dis. to bottom (weak) malicite on weathered surface. | |
| 188 2117 | ELV 5040' | | | 3.5m | | | | | Otz carb | milky to dusky white carbonate VEIN | |
| 188 2118 | ELV 5040' | | | 20cm | | | | | VEIN | 3.5m wide 1/2". Weak malicite on base 5% tetrahedrite plane east of wall rock. + barite | |
| 188 2118 | ELV 5040' | | | 20cm | | | | | People, green buff | Malicite + barite 2mm strike parallel with previous listed vein. Malicite occurs along fracture planes. 2% malicite | |
| 188 2119 | ELV 5030' | | | 25cm | | | | | Felsic Dike | Silica staining Tr. 1% Py. Quartz? Malicite occurs on weathered surface (weak). | |
| 188 246 | VEIN - GRID C | | | 1m | | | | | Stibic Volc | Calcite coating along frac. planes | |
| 188 R 241 | Sil line 1005 0160E | | | | | | | | Loopy, buff | 1% Py. Taken 6m above anomalous soil station. | |
| 188 R 241 | ELV 4200' | | | 0.5 | | | | | Red Alt | Taken near contact with hornblende | |
| 188 R 242 | VEIN - C GRID | | | 0.5 | | | | | Stibic Volc | dis. very sparse Py. Taken due to proximity to anomalous soil station (2865 mts) | |
| 188 R 242 | 3990' L 0150 S | | | 0.5 | | | | | Red Alt | Buff weathered rind on silicified | |
| 188 R 243 | 1140E | | | 0.75 | | | | | Volc - Mod | malicite volc. 2x4m zone. Surround etc is mod. fract | |
| 188 R 243 | Taken in Creek bed - 3620' | | | 0.75 | | | | | Stibic Volc | Buff, bleached to rusty weathering | |
| 188 R 243 | when small 5th. Flow | | | 0.75 | | | | | dark grey | Difficult to get fresh surface. Taken | |
| 188 R 243 | 5th. Flow into main creek | | | 0.75 | | | | | to green | 15m below 2-3m calcite vein. 190 | 570 (7) |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: 188 Wash
 Area (Grid): West GRID - RED ZONE - SOUTH
 Collectors: Don Carlidge

Results Plotted By: _____
 Map: _____ NTS: 104 E/16 W
 Date: July 18, 1991 Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|----------------------------------------------------------|--------------------|-------------------------|------|---------|------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|
| | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 188 2044 | Elv 5640' South of "Red Zone" | | 100m | | | | | Qtz VN 130° 52° of Qtz vein in silicified mafic volc wall rock 10 cm zone. Strike 20 m. Prominent yellow limonitic weathering 60% to massive Py | | |
| 188 2045 | 8 m down slope (and) of previous. Elv 5615' | | 30cm | | | | | Qtz VN 32° Plan to white Qtz in massive Py + silicified mafic volc wall rock in coarse Py cubes. Complete width gossn 1.5-2m | | |
| 188 2046 | ± 65m due gth along center from 91SC18B2213 | | 2m | | | | | Mafic volc buff. orange to buff weathering. Calcite along fracture planes. 5% diss + coarse cubes. Mod to Int face | | |
| 188 2064 | G.C. GRID 5030' Between lines 14900E 150N + 15000E | | 275m | | | | | Mafic volc -Qtz-calcite veined. silicified. Frequency of veins is 1/3-4cm width ± 1cm. Cross cutting. Rust stained weathering marks 360° 2x4m | | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: 188 Q.C. WEST GRID
 Area (Grid): _____
 Collectors: D. Colledge

Results Plotted By: _____
 Map: _____ NTS: 104 G/16 WEST
 Date: 104 G/16 W Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH,m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|----------------|-----------|-------|--------------------|------------------------|------|---------|--------------|-------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 20188 22078 | Elv 5300' | | | 20cm | | | | | GRETTT Argillite + WACKE | 104° 30°W Mineralized zone is associated with calcite flooding up to 20%. 20-25% coarse Py, dia 9-10mm + sphal. | |
| 20188 2079 | Elv 5580' | | | | | | 20x10 | | Qtz | GREY white Qtz flt in frothy texture on weathered surface 30-35% coarse dia silver Py. | |
| 20188 22080 | Elv 5680' | | | | 1.5m | | | | Malic Vlc | Qtz flooded 3x2m exposure - large 8kg fragment in talus. 25-35% Py = v. fine grain dark unknown sulphide. | |
| 20188 2081 | Elv 5680' | | | | | 2m | | | Diorite | GREY green hornblende diorite vs 5-7% coarse disseminated silver Py. 5x6m gossanous zone. | |
| 20188 2400 | Elv 5680' | | | | | 2m | | | Diorite | Adjacent to above sample - Some Rx type + degree of mineralization. | |
| 20188 2401 | Elv 5680 | | | | | | | | Chert? | Massive grey green chert gossan 35x15m. 10-15% visible on weathered surface. | |
| 20188 2402 | Elv 4830' | | | | | | 5x6m 2.5m | | GREY wacke | Light grey pyritized wacke above soil sample anomaly (2.25m up slope 40°) ML 175 10% Py dia + fine planes. | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: 188
 Area (Grid): QC
 Collectors: STEVE CREELMAN (GISC)

Results Plotted By: Same
 Map: _____ NTS: 104 G16 / 69
 Date: 7-11-91 Surface Underground

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET |
|------------------|-----------------------|-------|--------------------|----------------------|------|---------|------|-------|--------------------|---------------------------------------------------------------------------------|-----------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| R020 | main grid - East side | | | 0 | | | | | monz. pliorite | altered host (incompetent) (Carbonate, blky pyrite mineral, azurite) | |
| R021 | " | | | 0 | | | | | monzonite | enhanced biotite massive blky & stringer borne pyrite | |
| R022 | " | | | 0 | | | | | " | chloritic alteration massive & diss. py throughout | |
| R023 | " | | | 0 | | | | | qtz carb vein | 5cm x 5m steep fill? coarse disc py, minor chalc, borne azurite | |
| R024 | " | | | 0 | | | | | alteration | massively pyritized (50%) - spath across 2m fault making 360° | |
| R025 | " | | | 0 | | | | | chlor. alt? | azurite, py-veinlets & minor disc py, carbonate throughout | |
| R026 | " | | | 0 | | | | | " | as above py & minor chalc. diss & in blebs | |
| R027 | " | | | 0 | | | | | alteration | veins of py. to 2cm ² mal. & az. soap in fracture with carbonate | |
| R2200 | North Slope | | | 0 | | | | | Andesite Alt | min. Malachite qtz/carb stringer vein blky & diss chalc. | |
| R2201 | " | | | 0 | | | | | Basalt D. alt 2m | as above | |
| R2202 | " | | | 2m | | | | | Volcanic | Altered fractured recessive weathered minor azurite | |
| R2203 | " | | | 2m | | | | | Volcanics / D. alt | minor azurite in both rock types | |
| R2204 | Rusty Creek - G | | | 0 | | | | | Diorite | qtz veinlets blky chalc within & proximal to veinlets & disseminated in diorite | |
| R2205 | " | | | 0 | | | | | Volcanics | silicified. qtz veinlets chalc & minor pyrite | |
| R2206 | | | | | | | | | | minor sphalerite minor malachite | |
| R2206 | " | | | 0 | | | | | Altered Andesite | massive & diss chalc minor pyrite, azurite | |
| R2207 | " | | | 0 | | | | | qtz vein | containing 20% pyrite 5% chalc through | |
| | | | | | | | | | S-160 D-55W | volcanics some veins 5590 150 RS 2m along strike | |
| R2208 | " | | | 0 | | | | | Volcanics | clky to friable some qtz veinlets occasional azurite | |
| | | | | | | | | | | pyrite in blks | |
| R2209 | " | | | 0 | | | | | " | pyrite & chalc bearing in recessive fault | |
| | | | | | | | | | | close 2206, 2207 & 2208 | |
| R2210 | RED KNOB #2 | | | 0 | | | | | " | luggy, mildly silicious alteration: diss pyrite throughout | |
| R2211 | " | | | 0 | | | | | " | as above in small fault: pyrite | |
| R2212 | " | | | 0 | | | | | " | prop. alteration blky pyrite throughout | |
| R2213 | " | | | 0 | | | | | " | massive pyrite vein in fault zone (cons 4m x 3m) | |
| | | | | | | | | | | strikes 140 70% pyrite, pyrite | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: QC-188
 Area (Grid): _____
 Collectors: A.S.C. STEVE CREEGAN

Results Plotted By: SLJ
 Map: _____ NTS: 104 G 16 / G 9
 Date: _____ Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|------------------------------------------------------|-------|--------------------|-------------------------|------|---------|------|-------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| R2214 | SECOND RUSTY KNOB | | | 6 | | | | | Volcanics | Altered pyroclastic fault; 2m from R2213 massive pyroclastic & pyrite vein | |
| R2215 | " | | | 0 | | | | | " | Early siliceous altered limonite tail with course silty py & pyroclastic throughout | |
| R2216 | RED ZONE W-SIDE | | | 0 | | | | | " | Alteration of siliceous stringers; vein of vuggy, fine pyrite & kaolin in fault zone between two volcanic units, the northernmost of which is more siliceous | |
| R2217 | " | | | 0 | | | | | " | Altered gte stringers - some pyrite in blebs and disseminated pyroclastic chert / vol contact. @ 5200 | |
| R2218 | " | | | 0 | | | | | Vein high grade ultrafine py or arsenic in gte & kaolin pipe. 1m x 20cm (same sample R2217) 532 py. | | |
| R2220 | WEST GRID L10750N 12300E Boulder creek 21 5640 | | | 0 | | | | | Volc. | Altered ash zone (contact?) kaolin/sorrite vein above pyroclastic massive pyrite in blebs & disseminated throughout; minor white chert | |
| R2221 | " | | | | | | | | " | " beside 2220 in wall rock | |
| R2222 | from talus pit above 12350E | | | | | | | 0 | " | altered volc: cc stringers, limonite, blebs, pyroclastic, minor pyrite | |
| R2223 | L10750N 12600E | | | 0 | | | | | Sed? | Kaoliniferous vuggy fractured rock; blebs py, minor po | |
| R2224 | " | | | 0 | | | | | " | 2m to W in peripheral rock; py-diss throughout mass & semi-mass py, kaolin; Altered pyroclastic conglomerate | |
| R2225 | N side ORANGE ZONE @ 5450 | | | 0 | | | | | | | |
| R2226 | SECOND RUSTY KNOB 5200 face | | | 0 | | | | | Volcanics | vein alteration in fault zone x 2m mainly vuggy pyrite & massive py, kaolin | |
| | WEST GRID | | | | | | | | | | |
| R2227 | Rose of small cliffs @ 5500 | | | 0 | | | | | Alteration | mass coarse & diss. pyrite, kaolin 10% py | |
| R2228 | West wall high - Burns Cirque 5700 | | | 0 | | | | | Calc/carbonate | in argillite massive sphalerite & vuggy diss. galena 20%? - 50% 005 | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: 188 Quash Creek
 Area (Grid): West Grid, Main Showing, Main Grid.
 Collectors: DOB

Results Plotted By: _____
 Map: 104 G 16 NTS: 104 G 16
 Date: July 15 Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET / CLAIM |
|---------------|-------------------------------------|------------|--------------------|-------------------------|------|--------------|------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------|-------------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| R2300 | L1180E 10495N West Grid | | | | ✓ | | | | Sed. | 10-15cm qtz vein in qtz-carb, md grain fine grain mass. wacke 340/60W, chip over 1m | |
| R2301 | L11800E 10410N West Grid | | | | ✓ | | | | Sed. | rusty stained wacke, diss. py over ^{2m} , in small pod pinching to vein, trending approx 340° chip over 2m | |
| R2302 | L11900E 9850N West Grid | | | | ✓ | | | | Sed. | heavily fract. + stained cherty sed. coarse, fine poddy mass, and fine diss py. chip across 3m. | |
| R2303 | L11900E 9850N West Grid. | | | | ✓ | | | | Sed | Continue above chip 3m to West. | |
| R2304 | approx L11870E, 9860N West Grid. | | | | ✓ | | | | Sed. | Rusty sed near diorite(?) coarse, coarse + diss fine py, chip across 6' chip. | |
| R2305 | approx L11760E 9875N | | | | ✓ | HIGH-GRADE!! | | | | qtz vein, 3" 240/80 SE, py, sphal, cpy, vein in fract/fault 3' wide. | |
| R2306 | Main Grid CLIFF ZONE | CONTINUOUS | | | ✓ | | | | Intrus. | 2 nd to last chip in series on main zone. | |
| R2307 | Main Grid CLIFF ZONE | | | | ✓ | | | | Intrus | last chip in series on main zone. | |
| R2308 | 14475E 9850N main grid. | | | | ✓ | | | | Volc. | green, silicified and, heavily pyritic | |

K...WA...L...R... INC.

ROCK SAMPLES

Project: 108
 Area (Grid): WEST GRID
 Collectors: C.K.

Results Plotted By: _____
 Map: _____ NTS: _____
 Date: _____ Surface _____ Underground _____

| SAMPLE NUMBER | LOCATION | NOTES | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH;m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | M. SP. / C. |
|---------------|----------|-------|--------------------|------------------------|------|---------|------|-------|-----------|--------------------------------------------------|-------------|
| | | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| R2122 | 11900E | 9980N | | | | ✓ | | | SILTSTONE | 10% <i>dissepy</i> DIP 70°E STRIKE 240° | |
| R2123 | 11900E | 9970N | | | | ✓ | | | SILTSTONE | very silicious bedding @ 220° 5-10% sulphides | |
| | | | | | | | | | | silicious / atq pervasive | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Quash Creek 188
 Area (Grid): Main
 Collectors: CK/D.O.

Results Plotted By: _____
 Map: _____ NTS: _____
 Date: _____ Surface Underground _____

| SAMPLE NUMBER | LOCATION NOTES | REP. SAMPLE NUMBER m. | SAMPLE TYPE (LENGTH) | | | | | ROCK TYPE | SAMPLE DESCRIPTION | MAP SHEET |
|---------------|--------------------------|-----------------------|----------------------|------|---------|------|-------|-----------|-----------------------------------------|-----------|
| | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 2126 | beside MM 1833 | 0-3m | | ✓ | | | | Volcanics | mafic / carbonate rich / malachite | |
| 2127 | | 3-6m | | ✓ | | | | volcanics | " " " " " " | |
| 2128 | | 6-9 | | ✓ | | | | intrusive | diorite 10% malchite 5% py | |
| 2129 | | 9-12 | | ✓ | | | | volcanics | mafic / qtz carb. veining 10% py | |
| 2130 | beside MM 1835 | 12-15m | | ✓ | | | | diorite | qtz/carb veins 5% cpy / py | |
| 31 | | 15-18 | | ✓ | | | | diorite | qtz veins (5mm) 5% cpy | |
| 32 | | 18-21 | | ✓ | | | | volcanics | mafic / calcite veining | |
| 33 | beside MM 1836 | 21-24 | | ✓ | | | | diorite | qtz / hornblende 5% cpy blebby | |
| 34 | | 24-27 | | ✓ | | | | diorite | cpy veining 5% malachite | |
| 2135 | | 27-30 | | ✓ | | | | diorite | 5% py tr cpy | |
| 36 | | 30-33 | | ✓ | | | | diorite | very silicious 5% blebby cpy / py | |
| 37 | NO SAMPLE BETWEEN 33-36m | 36-39m | | ✓ | | | | | " " " " | |
| 38 | | 39-42 | | ✓ | | | | | qtz / carb veins (5mm) 2-5% py diss | |
| 39 | | 42-45 | | ✓ | | | | | tr cpy | |
| 2140 | | 45-48 | | ✓ | | | | | malachite 2-5% | |
| 41 | | 48-51 | | ✓ | | | | | qtz / hornblende 2-5% py | |
| 42 | NOTE NO 54-60m | 51-54 | | ✓ | | | | | qtz / carb 5% diss py | |
| 43 | | 60-63 | | ✓ | | | | | 3m wide qtz / carb zone 10% cpy / py | |
| 44 | | 63-66 | | ✓ | | | | | 15cm qtz veins 10% cpy | |
| 2145 | | 66-69 | | ✓ | | | | | " " " " | |
| 46 | | 69-72 | | ✓ | | | | | 10% cpy in qtz veins | |
| 47 | | 72-75 | | ✓ | | | | | tr mal. / azurite small veins | |
| 48 | | 75-78 | | ✓ | | | | | pervasive cpy / py string mal / azurite | |
| 49 | | 78-81 | | ✓ | | | | | diss chalco → rich veins (2cm) | |
| 2150 | | 81-84 | | ✓ | | | | | " " " " | |
| 51 | | 84-87 | | ✓ | | | | | 2 lrg high grade cpy veins (15cm) | |
| 52 | | 87-90 | | ✓ | | | | | cpy pervasive 20cm qtz veins | |
| 53 | beside MM 1832 | 90-93 | | ✓ | | | | | tr azurite 5% cpy | |
| 54 | | 93-96 | | ✓ | | | | | 1cm veins tr cpy / mal / azurite | |
| 2155 | | 96-99 | | ✓ | | | | | tr mal / azur. | |
| 1306 | | 99-102 | | ✓ | | | | | 1cm vein py stringers | |

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Results Plotted By: _____

Project: 158 Quash creek

Area (Grid): Quash creek main grid

Collectors: Michael Brown Don Colledge

Map: _____ NTS: _____

Date: August 15/91 Surface Underground

| SAMPLE NUMBER | LOCATION NOTES Main Grid | REP. SAMPLE NUMBER | SAMPLE TYPE (LENGTH, m) | | | | | ROCK TYPE | SAMPLE DESCRIPTION Rock samples taken from soil profile test pits | MAP SHEET / CLAIM |
|----------------------|-----------------------------|--------------------|-------------------------|------|---------|------|-------|----------------------------------------------------------------|----------------------------------------------------------------------|-------------------|
| | | | GRAB | CHIP | CHANNEL | CORE | FLOAT | | | |
| 2160 2160 | 14400E - 9800N | | ✓ | | | | | Talus GRAB - 0 → 5cm Base of cliffs - Talus grab 35% AF (A-01) | | |
| 2161 | 14400E - 9800N | | ✓ | | | | | Talus GRAB - 5cm → 20cm 50% AF Talus slope (B-02) | | |
| 2162 | 14400E - 9800N | | ✓ | | | | | Talus GRAB - 20cm → 35cm 65% AF (C-03) | | |
| 2163 | 14400E - 9800N | | ✓ | | | | | Talus GRAB - 35cm → 50cm (D-04) | | |
| 2166 | 15200E - 10600N | | ✓ | | | | | Talus (A-01) - 30° slope 25% AF - Talus slope - (0 → 20cm) | | |
| 2183 | 15200E - 10600N | | ✓ | | | | | Talus (B-02) - 30° slope 50% AF - Talus slope - (20 → 40cm) | | |
| 2167 2167 | 15200E - 10600N | | ✓ | | | | | Talus (C-03) - 30° slope 50% AF - Talus slope - (40 → 60cm) | | |
| 2168 | 10000N - 14525E | | ✓ | | | | | Talus (A-01) No slope - Talus - (0 → 10cm) | | |
| 2169 | 10000N - 14525E | | ✓ | | | | | Talus (B-02) No slope - Talus - (10 → 20cm) | | |
| 2170 | 10000N - 14525E | | ✓ | | | | | Talus (C-03) No slope - Talus - (20 → 30cm) | | |
| 2171 | 14600E - 10275N | | ✓ | | | | | Talus (A-01) 37° slope - Talus - (0 → 5cm) | | |
| 2172 | 14600E - 10275N | | ✓ | | | | | Talus (B-02) 37° slope - Talus - (5 → 20cm) | | |
| 2173 | 14600E - 10275N | | ✓ | | | | | Talus (C-03) 37° slope - Talus - (20 → 35cm) | | |
| 2174 | 14600E - 10500N | | ✓ | | | | | Talus (A-01) (0 → 20cm) Talus | | |
| 2175 | 14600E - 10500N | | ✓ | | | | | Talus (A1-02) (20 → 30cm) Talus | | |
| 2176 | 14600E - 10500N | | ✓ | | | | | Talus (A2-03) (30 → 40cm) Talus | | |
| 2177 | 14600E - 10525N | | ✓ | | | | | Talus (A-01) (0 → 20cm) Talus | | |
| 2178 | 14600E - 10525N | | ✓ | | | | | Talus (A1-02) (20 → 30cm) Talus | | |
| 2179 | 14600E - 10525N | | ✓ | | | | | Talus (A2-03) (30 → 40cm) Talus | | |
| 2180 | 14800E - 10425N | | ✓ | | | | | Talus (A-01) 50% AF 37° slope (0 → 20cm) | | |
| 2181 | 14800E - 10425N | | ✓ | | | | | Talus (B-02) 50% AF 37° slope (20 → 40cm) | | |
| 2182 | 14600E - 10425N | | ✓ | | | | | Talus (C-03) 50% AF 37° slope (40 → 60cm) | | |
| 2183 | 15200E - 10500N | | | | | | | | | |
| 2185 | 15200E - 10500N | | ✓ | | | | | Talus (A-01) 37° slope Talus (0 → 10cm) | | |
| 2186 | 15200E - 10500N | | ✓ | | | | | Talus (B-02) 37° slope Talus (10 → 30cm) | | |
| 2187 | 15200E - 10500N | | ✓ | | | | | Talus (C-03) 37° slope Talus (30 → 50cm) | | |
| 2188 | 15200E - 10525N | | ✓ | | | | | Talus (A-01) 37° slope Talus (0 → 10cm) | | |
| 2189 | 15200E - 10525N | | ✓ | | | | | Talus (B-02) 37° slope Talus (10 → 30cm) | | |
| 2190 | 15200E - 10525N | | ✓ | | | | | Talus (C-03) 37° slope Talus (30 → 50cm) | | |

APPENDIX X

Soil Orientation Survey Results - QC Porphyry Zone

| SOIL ORIENTATION SURVEY - Au - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------------------|------------|----------|---------------|---------|
| Soil Profile Pit Location | Rock Sample No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | Au ppb | Au ppb | Au ppb |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 362 | 241 | 70 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 350 | 223 | 79 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 483 | 280 | 74 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 12 | 451 | 100 |
| 14500E - 10000N (A) | No rock samples collected | 0 - 10 cm | 40 | 20 | |
| 14500E - 10000N (B) | | 10 - 20 cm | 41 | 21 | |
| 14500E - 10000N (C) | | 20 - 30 cm | 28 | 19 | |
| 14500E - 10000N (D) | | 30 - 50 cm | 37 | 27 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 22 | 10 | 9 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 21 | 17 | 10 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 18 | 15 | 4 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 215 | 182 | 57 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 154 | 158 | 20 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 341 | 391 | 59 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 897 | 481 | 22 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 832 | 523 | 18 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 571 | 494 | 40 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 173 | 263 | 22 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 495 | 207 | 19 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 311 | 180 | 29 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 160 | 123 | 24 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 155 | 92 | 22 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 112 | 77 | 11 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 17 | 103 | 15 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 154 | 81 | 30 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 200 | 70 | 31 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 312 | 160 | 63 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 341 | 167 | 46 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 279 | 151 | 60 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 347 | 261 | 32 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 420 | 240 | 47 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 418 | 170 | 32 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

| SOIL ORIENTATION SURVEY - Ag - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------|------------|----------|---------------|---------|
| Sample Location | Rock No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | Ag ppm | Ag ppm | Ag ppm |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 1.8 | 0.8 | 1.2 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 0.2 | 0.3 | 1.4 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 0.3 | 0.5 | 1.6 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 0.4 | 0.8 | 1.6 |
| 14500E - 10000N (A) | No rock | 0 - 10 cm | 1.2 | 1.3 | |
| 14500E - 10000N (B) | No rock | 10 - 20 cm | 1.3 | 1.5 | |
| 14500E - 10000N (C) | No rock | 20 - 30 cm | 1.5 | 1.6 | |
| 14500E - 10000N (D) | No rock | 30 - 50 cm | 1.4 | 1.5 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 1.3 | 1.4 | 0.3 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 1.2 | 1.4 | 0.9 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 1.4 | 1.5 | 1.0 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 0.2 | 0.2 | 0.7 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 0.2 | 0.1 | 0.4 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 0.2 | 0.1 | 1.0 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 0.8 | 0.7 | 1.1 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 1.0 | 1.9 | 1.3 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 1.0 | 1.8 | 1.1 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 0.9 | 0.9 | 1.6 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 1.0 | 1.1 | 1.7 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 0.8 | 0.9 | 1.6 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 0.3 | 0.8 | 1.3 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 0.2 | 0.1 | 1.6 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 0.2 | 0.4 | 2.3 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 2.4 | 2.7 | 1.3 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 1.6 | 1.8 | 8.7 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 1.7 | 2.8 | 1.2 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 0.9 | 1.2 | 7.8 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 0.8 | 0.6 | 1.5 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 0.7 | 0.9 | 2.6 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 0.9 | 0.9 | 1.5 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 1.2 | 0.9 | 1.1 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 0.5 | 0.5 | 1.3 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

| SOIL ORIENTATION SURVEY - Cu - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------|------------|----------|---------------|---------|
| Sample Location | Rock No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | Cu ppm | Cu ppm | Cu ppm |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 1,403 | 1,400 | 618 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 2,319 | 1,896 | 680 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 2,575 | 1,854 | 624 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 2,599 | 1,917 | 583 |
| 14500E - 10000N (A) | No rock | 0 - 10 cm | 307 | 247 | |
| 14500E - 10000N (B) | No rock | 10 - 20 cm | 259 | 225 | |
| 14500E - 10000N (C) | No rock | 20 - 30 cm | 268 | 204 | |
| 14500E - 10000N (D) | No rock | 30 - 50 cm | 254 | 223 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 224 | 215 | 135 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 209 | 181 | 165 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 197 | 183 | 238 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 391 | 381 | 100 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 440 | 385 | 93 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 609 | 506 | 85 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 1,099 | 905 | 160 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 1,311 | 1,220 | 188 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 1,424 | 1,078 | 118 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 507 | 519 | 258 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 1,200 | 1,252 | 314 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 1,258 | 986 | 384 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 3,041 | 2,130 | 401 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 2,452 | 1,862 | 1,145 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 1,928 | 1,335 | 337 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 745 | 825 | 334 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 966 | 959 | 522 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 1,063 | 1,075 | 288 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 1,632 | 1,211 | 507 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 1,610 | 1,209 | 475 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 1,637 | 1,362 | 353 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 1,664 | 1,388 | 443 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 1,642 | 1,233 | 435 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 1,522 | 1,206 | 382 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

| SOIL ORIENTATION SURVEY - Pb - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------|------------|----------|---------------|---------|
| Sample Location | Rock No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | Pb ppm | Pb ppm | Pb ppm |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 158 | 98 | 24 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 46 | 29 | 17 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 58 | 29 | 12 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 65 | 33 | 11 |
| 14500E - 10000N (A) | No rock | 0 - 10 cm | 21 | 15 | |
| 14500E - 10000N (B) | No rock | 10 - 20 cm | 21 | 16 | |
| 14500E - 10000N (C) | No rock | 20 - 30 cm | 18 | 9 | |
| 14500E - 10000N (D) | No rock | 30 - 50 cm | 17 | 17 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 20 | 16 | 2 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 17 | 12 | 6 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 20 | 14 | 16 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 30 | 29 | 6 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 36 | 28 | 6 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 27 | 34 | 5 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 55 | 47 | 4 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 54 | 51 | 2 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 54 | 38 | 4 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 32 | 32 | 8 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 47 | 40 | 1 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 54 | 41 | 8 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 9 | 12 | 6 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 8 | 8 | 7 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 2 | 5 | 10 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 26 | 21 | 3 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 9 | 25 | 12 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 7 | 9 | 1 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 11 | 10 | 7 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 7 | 5 | 9 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 8 | 8 | 7 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 6 | 7 | 4 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 10 | 7 | 6 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 9 | 5 | 5 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

| SOIL ORIENTATION SURVEY - Zn - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------|------------|----------|---------------|---------|
| Sample Location | Rock No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | Zn ppm | Zn ppm | Zn ppm |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 499 | 371 | 114 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 132 | 94 | 427 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 15 | 84 | 52 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 15 | 77 | 93 |
| 14500E - 10000N (A) | No rock | 0 - 10 cm | 112 | 101 | |
| 14500E - 10000N (B) | No rock | 10 - 20 cm | 116 | 110 | |
| 14500E - 10000N (C) | No rock | 20 - 30 cm | 131 | 117 | |
| 14500E - 10000N (D) | No rock | 30 - 50 cm | 123 | 118 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 145 | 133 | 82 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 145 | 134 | 58 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 144 | 135 | 160 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 68 | 69 | 75 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 79 | 70 | 71 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 101 | 92 | 124 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 147 | 132 | 76 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 166 | 154 | 287 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 182 | 158 | 79 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 142 | 136 | 41 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 157 | 150 | 44 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 201 | 170 | 87 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 36 | 41 | 54 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 27 | 30 | 63 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 26 | 32 | 37 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 36 | 33 | 23 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 28 | 29 | 63 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 24 | 22 | 60 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 29 | 29 | 38 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 28 | 28 | 47 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 29 | 28 | 599 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 33 | 30 | 202 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 29 | 26 | 29 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 23 | 21 | 28 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

| SOIL ORIENTATION SURVEY - As - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------|------------|----------|---------------|---------|
| Sample Location | Rock No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | As ppm | As ppm | As ppm |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 402 | 318 | 53 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 63 | 50 | 17 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 85 | 40 | 9 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 90 | 36 | 10 |
| 14500E - 10000N (A) | No rock | 0 - 10 cm | 8 | 6 | |
| 14500E - 10000N (B) | No rock | 10 - 20 cm | 1 | 4 | |
| 14500E - 10000N (C) | No rock | 20 - 30 cm | 5 | 1 | |
| 14500E - 10000N (D) | No rock | 30 - 50 cm | 1 | 1 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 1 | 1 | 1 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 1 | 1 | 13 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 1 | 1 | 38 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 139 | 138 | 16 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 145 | 128 | 20 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 164 | 152 | 16 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 931 | 748 | 40 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 1,041 | 836 | 52 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 808 | 623 | 7 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 362 | 357 | 32 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 501 | 430 | 15 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 400 | 246 | 32 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 2 | 4 | 6 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 1 | 1 | 6 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 1 | 1 | 5 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 2 | 2 | 1 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 1 | 1 | 1 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 1 | 1 | 1 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 1 | 1 | 7 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 1 | 1 | 1 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 1 | 1 | 6 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 1 | 1 | 2 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 1 | 1 | 2 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 1 | 1 | 2 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

| SOIL ORIENTATION SURVEY - Sb - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------|------------|----------|---------------|---------|
| Sample Location | Rock No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | Sb ppm | Sb ppm | Sb ppm |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 1 | 1 | 1 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 1 | 1 | 1 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 1 | 1 | 1 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 1 | 1 | 1 |
| 14500E - 10000N (A) | No rock | 0 - 10 cm | 1 | 1 | |
| 14500E - 10000N (B) | No rock | 10 - 20 cm | 1 | 1 | |
| 14500E - 10000N (C) | No rock | 20 - 30 cm | 1 | 1 | |
| 14500E - 10000N (D) | No rock | 30 - 50 cm | 1 | 1 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 1 | 1 | 1 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 1 | 1 | 1 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 1 | 1 | 1 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 1 | 1 | 1 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 1 | 1 | 1 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 1 | 1 | 1 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 1 | 1 | 1 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 1 | 1 | 1 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 1 | 1 | 1 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 1 | 1 | 1 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 1 | 1 | 1 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 1 | 1 | 1 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 1 | 1 | 1 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 1 | 1 | 1 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 1 | 1 | 1 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 1 | 1 | 1 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 1 | 1 | 11 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 1 | 1 | 1 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 1 | 1 | 8 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 1 | 1 | 1 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 1 | 1 | 1 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 1 | 1 | 1 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 1 | 1 | 1 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 1 | 1 | 1 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

| SOIL ORIENTATION SURVEY - Mo - QC "PORPHYRY ZONE" | | | | | |
|---------------------------------------------------|---------------|------------|----------|---------------|---------|
| Sample Location | Rock No. | Depth | -80 mesh | +80, -40 mesh | As Rock |
| | | | Mo ppm | Mo ppm | Mo ppm |
| 14400E - 9800N (A) | 91MB-188-2160 | 0 - 5 cm | 12 | 12 | 5 |
| 14400E - 9800N (B) | -2161 | 5 - 20 cm | 33 | 33 | 7 |
| 14400E - 9800N (C) | -2162 | 20 - 35 cm | 46 | 37 | 9 |
| 14400E - 9800N (D) | -2163 | 35 - 50 cm | 53 | 43 | 8 |
| 14500E - 10000N (A) | No rock | 0 - 10 cm | 2 | 1 | |
| 14500E - 10000N (B) | No rock | 10 - 20 cm | 1 | 1 | |
| 14500E - 10000N (C) | No rock | 20 - 30 cm | 1 | 1 | |
| 14500E - 10000N (D) | No rock | 30 - 50 cm | 1 | 1 | |
| 14525E - 10000N (A) | -2168 | 0 - 10 cm | 1 | 1 | 1 |
| 14525E - 10000N (B) | -2169 | 10 - 20 cm | 1 | 1 | 5 |
| 14525E - 10000N (C) | -2170 | 20 - 30 cm | 1 | 1 | 1 |
| 14600E - 10525N (A) | -2177 | 0 - 10 cm | 6 | 4 | 1 |
| 14600E - 10525N (A1) | -2178 | 10 - 20 cm | 7 | 5 | 1 |
| 14600E - 10525N (A2) | -2179 | 20 - 30 cm | 6 | 4 | 1 |
| 14600E - 10500N (A) | -2174 | 0 - 20 cm | 1 | 1 | 1 |
| 14600E - 10500N (A1) | -2175 | 20 - 30 cm | 1 | 1 | 1 |
| 14600E - 10500N (A2) | -2176 | 30 - 40 cm | 1 | 1 | 1 |
| 14600E - 10275N (A) | -2171 | 0 - 5 cm | 1 | 1 | 1 |
| 14600E - 10275N (B) | -2172 | 5 - 20 cm | 11 | 10 | 1 |
| 14600E - 10275N (C) | -2173 | 20 - 35 cm | 8 | 3 | 1 |
| 14800E - 10425N (A) | -2180 | 0 - 20 cm | 92 | 61 | 14 |
| 14800E - 10425N (B) | -2181 | 20 - 40 cm | 129 | 86 | 16 |
| 14800E - 10425N (C) | -2182 | 40 - 60 cm | 101 | 51 | 10 |
| 15200E - 10600N (A) | -2166 | 0 - 20 cm | 19 | 19 | 10 |
| 15200E - 10600N (B) | -2183 | 20 - 40 cm | 25 | 18 | 15 |
| 15200E - 10600N (C) | -2167 | 40 - 60 cm | 29 | 26 | 6 |
| 15200E - 10525N (A) | -2185 | 0 - 10 cm | 89 | 63 | 27 |
| 15200E - 10525N (B) | -2186 | 10 - 30 cm | 90 | 63 | 34 |
| 15200E - 10525N (C) | -2187 | 30 - 50 cm | 93 | 70 | 17 |
| 15200E - 10500N (A) | -2188 | 0 - 10 cm | 92 | 70 | 29 |
| 15200E - 10500N (B) | -2189 | 10 - 30 cm | 96 | 68 | 21 |
| 15200E - 10500N (C) | -2190 | 30 - 50 cm | 89 | 62 | 18 |

Depth indicates depth from surface in pit. For each interval, two soil size fractions (-80 mesh, +80 -40 mesh) and a coarse talus fraction (as rock) were analysed.

APPENDIX XI

Drill Logs

DRILL HOLE LOG

| | | | | | | | |
|---------------------------------------------------------------------------|--|-----------------------|---------|-------------------------|---------------|--------------------------------------|--|
| LOCATION: 15000E / 10675N | | | | DRILL HOLE NO.: QC-91-1 | | | |
| AZIMUTH: 180° | | ELEVATION: 4,140 feet | | PROPERTY: DRYDEN QC | | | |
| INCLINATION: -45° | | LENGTH: 182.3 m | | CLAIM NO: QC 4 | | | |
| | | CORE SIZE: BD-BGM | | SURVEYS | | SECTION: 15000E | |
| | | METREAGE | AZIMUTH | INCLINATION | CORR. INCLIN. | LOGGED BY: M.G. Morrice | |
| STARTED: September 2, 1991 | | 42.1 | | | -46° | DATED LOGGED: September 3-5, 1991 | |
| COMPLETED: September 4, 1991 | | 130.5 | | | -46° | DRILLING CO.: Falcon Drilling Ltd. | |
| PURPOSE: Test IP anomaly coincident with Au and Cu talus fines anomalies. | | 182.3 | | | -45° | ASSAYED BY: Min-Ea Laboratories Ltd. | |

CORE RECOVERY: 96.5%

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------|------------------------------|--------------------------|--------------------------------------|---------------------|--------------------------|---------------------|----------------------|------------------|------------------|---------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 0.00 | 5.18 | | | OVERBURDEN (Casing) - Angular blocks of fine-grained mafic volcanic, equigranular diorite. | | | | | | | | | | |
| 5.18 | 7.10 | MAFIC VOLCANIC - Fine-grained, equigranular, dark green, highly fractured with limonitic stain on fractures. 1-2% pyrite on hairline fractures. | 9401 | 5.1 | 7.1 | 2.0 | 1,591 | 20 | 0.7 | 7 | 29 | 1 | 1 | 5 |
| 7.10 | 7.75 | DIORITE - Fine-medium grained equigranular. Cut by ≤ 1 cm wide iron carbonate veins (non-weathered to limonitic). Iron carbonate veins to core axis = 25° at 7.5 m. | | | | | | | | | | | | |
| 7.75 | 10.80 | MAFIC VOLCANIC CHIPS - Essentially a gravel - <1-3 cm size chips; limonite on angular surfaces. | 9402 9403 | 7.1 8.6 | 8.6 11.6 | 1.5 3.0 | 973 0.134% | 34 11 | 0.9 1.0 | 5 6 | 31 34 | 1 1 | 1 1 | 22 4 |
| 10.80 | 23.10 | MAFIC VOLCANIC (TUFS) - Fine-grained, equigranular, dark green, bedding (cm-scale) poorly defined, cut by irregular, 1-3 mm wide quartz \pm pyrite veins, also thin epidote veins, white calcite veins. Minor chalcopyrite on fractures. 10.0 - 15.1 trace pyrite 15.1 - 23.1 2-3% pyrite, locally 10% pyrite - in pyrite-quartz veins or pyrite-epidote veins. Non-magnetic. | 9404 9405 9406 9407 | 11.6 14.6 17.6 20.6 | 14.6 17.6 20.6 23.6 | 3.0 3.0 3.0 3.0 | 0.280% 0.226% 0.199% 0.234% | 9 18 21 20 | 1.3 1.1 0.9 1.7 | 10 10 8 10 | 39 29 23 23 | 1 1 1 1 | 1 1 1 1 | 46 7 15 20 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|------|--------|----------|----------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 10.80 | 23.10 Cont'd | <p>Core Angles:</p> <p>a) Bedding: 50° at 22.3 m</p> <p>b) Quartz and pyrite veins: 20° at 15.1 m + epidote 48° at 15.3 m 35° at 16.5 m 27° at 16.7 m 43° at 16.8 m 22° at 19.0 m</p> <p>with trace chalcopyrite 8° at 20.1 m 45° at 21.2 m</p> <p>with trace chalcopyrite 40° at 22.2 m</p> <p>c) Calcite veins: 48° at 17.7 m 55° at 16.8 m 60° at 21.1 m</p> | | | | | | | | | | | | |
| 23.10 | 24.50 | <p>DIORITE - Fine-medium grained equigranular. Non-magnetic. Core angle of contact with volcanics = 5°; sharp contact with pyrite in fractures at contact and in diorite. Fractures at low angle or parallel to core axis.</p> <p>0.5% chalcopyrite (on fractures and disseminated)</p> <p>5% disseminated and fracture pyrite</p> <p>- moderate epidote alteration.</p> <p>Quartz + pyrite chalcopyrite vein: Core axis = 35° at 23.8 m (0.5 cm wide). Non-magnetic.</p> | | | | | | | | | | | | |
| 24.50 | 54.25 | <p>INTERMEDIATE-FELSIC TUFFS - Dark to light green, minor, cm-thick bedding, very highly fractured - no preferred orientation - fractures with pyrite, minor chalcopyrite, epidote, calcite; 2-3% pyrite, trace chalcopyrite. Pyrite in fractures and <0.5 cm veinlets. 34.9 - 37.3 / 38.6 - 42.1 - highly broken - limonite on fractured surfaces</p> <p>Pyritic fractures: core axis = 20° at 28.5 m</p> <p>Core Angle (bedding): 53° at 34.4 m</p> <p>25.6 - 26.9 malachite and azurite on fractures with minor chalcopyrite</p> <p>40.2 5 cm wide clay + fragment gouge zone, core angle: 28° with red fracture coating - realgar?</p> <p>Core angle of quartz vein: 52° at 42.8 m</p> <p>1-3 cm wide quartz - pyrite - chalcopyrite vein at 47.6 0 48.0 m. Core angle: 0° - 10°.</p> <p>Pyrite and epidote concentrated along central axis of vein, chalcopyrite along vein margins.</p> <p>45.25 / 46.50 minor malachite</p> <p>In this interval - 3-5% pyrite on fractures, 0.25-0.50% chalcopyrite on fractures and local disseminations, locally up to 0.5% chalcopyrite.</p> <p>Core angle of pyrite-epidote-quartz vein (0.5 cm) - 15° at 52.6 m</p> <p>Core angle of white calcite vein (0.5 cm) - 52° at 52.6 m</p> <p>52.7 0.5 cm wide, irregular quartz-epidote veins</p> <p>51.7 - 52.0 highly siliceous with possible arsenopyrite (51.7-51.9 m) - 0.5-1%</p> | 9408 | 23.6 | 26.6 | 3.0 | 0.244% | 14 | 1.1 | 11 | 28 | 4 | 1 | 41 |
| | | | 9409 | 26.6 | 29.6 | 3.0 | 0.236% | 18 | 1.6 | 36 | 22 | 3 | 1 | 58 |
| | | | 9410 | 29.6 | 32.6 | 3.0 | 0.345% | 20 | 1.6 | 23 | 30 | 1 | 1 | 50 |
| | | | 9411 | 32.6 | 35.6 | 3.0 | 0.309% | 22 | 1.4 | 14 | 38 | 1 | 1 | 41 |
| | | | 9412 | 35.6 | 38.6 | 3.0 | 0.412% | 35 | 1.4 | 24 | 50 | 1 | 1 | 42 |
| | | | 9413 | 38.6 | 41.6 | 3.0 | 0.354% | 21 | 1.6 | 14 | 65 | 4 | 1 | 25 |
| | | | 9414 | 41.6 | 44.6 | 3.0 | 0.248% | 30 | 1.7 | 14 | 29 | 1 | 1 | 21 |
| | | | 9415 | 44.6 | 47.6 | 3.0 | 0.323% | 28 | 1.5 | 9 | 46 | 1 | 1 | 43 |
| | | | 9416 | 47.6 | 50.6 | 3.0 | 0.346% | 70 | 1.7 | 16 | 38 | 1 | 1 | 78 |
| | | | 9417 | 50.6 | 53.6 | 3.0 | 0.291% | 110 | 1.6 | 16 | 40 | 8 | 1 | 53 |
| | | | 9418 | 53.6 | 56.6 | 3.0 | 0.350% | 0.11 g/t | | | | | | |
| | | | 9419 | 56.6 | 59.6 | 3.0 | 0.424% | 0.12 g/t | | | | | | |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 24.50 | 54.25 Cont'd | 52.7 - 53.85 highly broken rock, limonitic fractured faces, local malachite staining. 53.0 trace molybdenite? on fracture 55.0 - 58.9 5-7% pyrite - 0.5-1% chalcocopyrite on fractures, quite irregular ± quartz veins. 57.9 - 58.9 5-7% pyrite, 1-2% chalcocopyrite Core Angles: quartz-pyrite-chalcocopyrite vein (2 mm): 0° at 56.6 m pyrite-chalcocopyrite vein: 40° at 56.8 m quartz-chalcocopyrite vein: 20° at 58.4 m Note: increase in % chalcocopyrite towards diorite. | | | | | | | | | | | | |
| 58.90 | 62.50 | DIORITE - Medium-grained, equigranular, 3-5% disseminated pyrite, 0.5-1% chalcocopyrite with <1 cm wide quartz veins. Hornblende altered to biotite (moderate). Plagioclase altered to sericite (moderate). Core Angles: Quartz-chalcocopyrite vein (0.5 cm): 40° at 59.2 m Quartz-chalcocopyrite vein (0.5 cm): 40° at 59.3 m Diorite-volcanic contact: 75° at 62.5 m Quartz-pyrite vein: 65° at 61.8 m 61.6 - 62.45 badly broken. | 9420 | 59.6 | 62.6 | 3.0 | 0.145% | 0.02 g/t | | | | | | |
| 62.50 | 82.70 | INTERMEDIATE-FELSIC VOLCANICS (TUFFS) - Bedding vague in places, abundant fractures with variable orientations. Chalcocopyrite on fractures and with quartz veins (≤1 cm) from 62.5-65.0 m (0.5% chalcocopyrite). Pyrite on fractures throughout interval - variable orientation. Irregular (≤0.5 cm) calcite veins. Local intervals of high concentrations of pyritic fractures: 67.3-68.7; 73.9-74.4. Epidote associated with pyrite. 71.7-72.6 - 3 zones (each 5-7 cm wide) of up to 25% disseminated pyrite; minor black chlorite with pyrite clots. Core Angles: quartz + pyrite vein (4 mm) 30° at 63.1 m quartz + chalcocopyrite vein (4 mm) 20° at 64.2 m bedding 44° at 66.0 m quartz vein (4 mm) 35° at 70.0 m quartz + pyrite vein (7 mm) 25° at 75.2 m bedding 60° at 78.3 m Rock is brecciated (looks like a diamictite) to various degrees from 76.2-82.7. Mylonite to protomylonite. Characterized by light grey to pale pink siliceous fragments in a dark matrix which is soft and carbonatized; pyrite (to 10-15%), minor (trace) and local disseminated chalcocopyrite - up to 1% (0.25-1% over interval). Preferred orientation of light grey fragments, core axis = 50° at 79.2 m - foliation. Possibility that dark pyritic matrix to siliceous fragments may be disrupted argillite beds. Locally silicified. | 9421 9422 9423 9424 9425 9426 9427 | 62.6 65.6 68.6 71.6 74.6 77.6 80.6 | 65.6 68.6 71.6 74.6 77.6 80.6 83.6 | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 0.350% 0.241% 0.260% 0.238% 0.149% 0.110% 0.039% | 0.03 g/t 0.04 g/t 0.05 g/t 0.16 g/t 0.11 g/t 0.13 g/t 0.02 g/t | | | | | | |
| 82.7 | 84.3 | DIORITE - Vague looking - ghost-like plagioclase, pale grey green, equigranular, medium-grained. Hornblende altered to biotite, plagioclase slightly altered to sericite | 9428 | 83.6 | 86.6 | 3.0 | 0.003% | 0.06 g/t | | | | | | |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 84.3 | 91.3 | INTERMEDIATE-FELSIC VOLCANICS (TUFFS) - broken up. Highly fractured at 62.5-81.7 interval. Locally (90.4-90.5 m) up to 1% disseminated chalcopyrite. Fracture-controlled. Pyrite up to 5-7% in 5-10 cm wide intervals. Locally silicified. 91.25-91.30 argillite at contact with well bedded intermediate-felsic tuffs further down hole. Argillite is disrupted. Core Angle: Calcite vein (minor pyrite): 34° at 87.6 m. | 9429 9430 | 86.6 89.6 | 89.6 91.3 | 3.0 1.7 | 0.169% 0.017% | 0.09 g/t 0.04 g/t | | | | | | |
| 91.3 | 124.8 | INTERMEDIATE-FELSIC VOLCANICS (TUFFS) - Light green, well bedded (mm to cm thick). Very fine to fine grained, bedding is quite delicate in places, locally highly fractured (variable orientation) with calcite along fractures. Minor pyrite along fractures and narrow shears and disseminated, some rhythmic bedding (98.6-98.9 m) - 1 cm thick beds with medium green base (down hole) and light green top (up hole), very fine grained (dust-size). Core angle of bedding: 65° at 98.7 m. 1% pyrite, trace chalcopyrite (on fractures). 0.3-1 cm wide pyritic shear zone at 99.3 m (core angle = 65°). Pyrite is blebby (2-3 mm) disseminated, along fractures or in narrow shears. Local concentrations of pyrite. Core angle (bedding) 37° at 102.1 m Some beds (<1 cm thick) of creamy siliceous material - chert? Most are very fine grained, medium green (intermediate-felsic tuff). Most beds <1 cm thick, up to 8 cm thick. 113.2 m - feldspathic tuff layer (2 cm thick), graded, tops up-hole, core angle of bedding: 40° (tops from grading, load features) 110.0 - 110.3 m - 1 cm wide silicified pyritic shear zone (core angle = 5°) 3-5% pyrite 111.2 - 111.8 m - fault breccia zone, 1-3 cm wide with angular tuff fragments in dark matrix that is siliceous (silicified) with fine grained pyrite seams; core angle = 5° 115.5 - 116.5 m - variably brecciated light and medium green tuffs, breccia related to fault, with 2-5% disseminated pyrite. Core angle of fault (+ breccia) is 7°, about 10 cm of offset across the fault. 117.4 - 118.0 m - three, 3-7 cm wide zones of brecciated tuffs 118.4 m - minor chalcopyrite with pyrite on fractures Core Angles: 0.5 cm quartz vein: 30° at 121.5 m (0.5 cm) 0.3 cm quartz vein: 33° at 121.7 m bedding: 28° at 123.2 m quartz vein and shear (<1 cm), pyritic: 27° at 124.1 m 121.6 - 124.8 m - mostly pale green-brown, hard tuffs - is this a hornfels adjacent to the diorite? 2-3 cm wide zone of shearing and quartz veins (deformed) + pyrite (5-7%) at contact in volcanics. | 9431 9432 9433 9434 9435 9436 9437 9438 9439 9440 9441 | 91.3 94.3 97.3 100.3 103.3 106.3 109.3 112.3 115.3 118.3 121.3 | 94.3 97.3 100.3 103.3 106.3 109.3 112.3 115.3 118.3 121.3 124.3 | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 136 157 122 170 175 125 113 1332 210 174 161 | 39 27 32 23 21 17 36 3 9 15 24 | 0.8 1.0 1.1 0.9 1.0 1.0 1.0 0.7 0.9 0.5 0.8 | 19 33 17 12 12 14 19 20 18 13 11 | 26 73 41 27 38 26 19 43 72 30 26 | 74 52 53 51 37 31 45 18 13 15 14 | 1 1 1 1 1 1 3 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | | | | |
|----------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|--------|--------|--------|--------|--------|--------|--------|-----|---|---|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm | | | |
| 124.8 | 152.0 | DIORITE - Medium grained, equigranular, fairly fresh looking, hornblende + biotite bearing, local narrow (<0.5 cm) shear zones. 10% biotite, 20% hornblende, 1-2% disseminated and fracture-controlled pyrite (in discrete zones). Local zones with weak sericitic alteration of plagioclase (pale green colour). Highly broken: 126.6-126.9 m, 127.5-128.2 m, 128.5-128.8 m. Quartz veins (core angles): 40° at 125.2 m, 35° at 129.6 m (with pyrite). Pyritic shear zone: 1 cm wide, core axis = 50° at 127.5 m. 132.2 - 134.7 m - variable quartz veining and flooding, 3-5% pyrite. Plagioclase is sericitic (pale green). 133.0 m - 2-1 cm wide quartz + pyrrhotite + chalcopyrite + arsenopyrite veins (core angle = 52°) 133.5 m - 1 cm wide quartz-pyrite-chalcopyrite (minor) vein, core angle = 52°, pyrite along middle of vein. Diorite is mylonitic and sericitized in discrete zones, mylonite has sharp boundaries. <1-60 cm wide, ± quartz veins ± pyrite 135.7 - 136.3 m - mylonitic, sericitic diorite with pyrite on late fractures, irregular quartz veins, irregular calcite veins. Mylonitic fabric: 60° to core axis. 136.3 m - 1.5 cm wide vuggy pyrite vein at 60° to core axis 137.2 - 140.2 m - variable quartz flooding and veining ± pyrite; quartz-pyrite-sphalerite vein at 138.1 m (2 cm wide) 139.0 - 145.7 - about a dozen mylonite zones at high angles to core axis. 140.0 - 140.2 - 1 cm wide quartz-pyrite veins, core axis = 40°, 58° 141.2 m - mylonite ± quartz ± pyrite, core axis = 66° (3 cm wide) 141.3 m - mylonite ± quartz ± pyrite, core axis = 70° (2 cm wide) 143.4 m - 1.5 cm wide gouge zone with pyrite 148.0 m - 1-2 cm wide quartz+pyrite+arsenopyrite (1-2%) vein in mylonitized diorite. Core Angle of quartz vein = 52°. 149.3 - 149.7 - 70% of core made of two large (5-15 cm) quartz vein/flooded areas with 5-10% coarse pyrite blebs (0.5-1 cm) - 2-3% arsenopyrite on fractures. | 9442 | 124.3 | 127.3 | 3.0 | 65 | 20 | 0.8 | 14 | 31 | 59 | 1 | 1 | | | |
| | | | 9443 | 127.3 | 130.3 | 3.0 | 31 | 125 | 0.7 | 14 | 31 | 359 | 2 | 1 | | | |
| | | | 9444 | 130.3 | 133.3 | 3.0 | 46 | 118 | 3.9 | 14 | 30 | 14 | 1 | 1 | | | |
| | | | 9445 | 133.3 | 136.3 | 3.0 | 114 | 271 | 1.1 | 24 | 338 | 423 | 2 | 1 | | | |
| | | | 9446 | 136.3 | 139.3 | 3.0 | 77 | 113 | 0.6 | 12 | 41 | 32 | 1 | 1 | | | |
| | | | 9447 | 139.3 | 142.3 | 3.0 | 47 | 50 | 0.9 | 13 | 41 | 93 | 2 | 1 | | | |
| | | | 9448 | 142.3 | 145.3 | 3.0 | 52 | 68 | 0.8 | 12 | 72 | 166 | 1 | 1 | | | |
| | | | 9449 | 145.3 | 148.3 | 3.0 | 29 | 37 | 0.7 | 13 | 35 | 246 | 1 | 1 | | | |
| | | | 9450 | 148.3 | 151.3 | 3.0 | 52 | 305 | 1.0 | 12 | 55 | 269 | 2 | 1 | | | |
| | | | 152.0 | 170.1 | INTERMEDIATE TO MAFIC VOLCANICS (DUST-TUFFS AND ASH-TUFFS) - light to medium green, very fine grained, well bedded, pyrite in scattered quartz veins along fractures and finely disseminated - local concentrations (up to 5-10% over 2 cm). Average 3-5%. Core angles: bedding: 50° at 153.0 m quartz/pyrite vein: 52° at 161.6 m Pyrite ± quartz concentrations at 152.1, 153.5, 157.8, 160.1, 160.8, 161.6, 166.6. | 9451 | 151.3 | 154.3 | 3.0 | 103 | 12 | 0.8 | 16 | 34 | 58 | 1 | 1 |
| | | | | | | 9452 | 154.3 | 157.3 | 3.0 | 89 | 11 | 0.9 | 15 | 32 | 64 | 2 | 1 |
| | | | | | | 9453 | 157.3 | 160.3 | 3.0 | 121 | 38 | 1.1 | 14 | 18 | 100 | 2 | 1 |
| | | | | | | 9454 | 160.3 | 163.3 | 3.0 | 113 | 53 | 0.8 | 13 | 18 | 122 | 2 | 1 |
| | | | | | | 9455 | 163.3 | 166.3 | 3.0 | 125 | 3 | 0.7 | 13 | 26 | 52 | 3 | 1 |
| 9456 | 166.3 | 169.3 | | | | 3.0 | 121 | 2 | 0.6 | 14 | 28 | 23 | 1 | 1 | | | |
| 9457 | 169.3 | 172.3 | | | | 3.0 | 115 | 31 | 1.1 | 12 | 23 | 41 | 1 | 1 | | | |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|-------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 171.6 | 182.3 | | | INTERMEDIATE TO MAFIC VOLCANICS (TUFFS, LAPILLI TUFFS) - ash, dust size, well bedded (cm - 0.5 cm), medium green - bedding is locally disrupted - soft sediment deformation? Bedding (core angle) 40° at 180° 178.7 - 180.2 m - lapilli tuff, intermediate to mafic, heterolithic, poorly sorted within well bedded tuff sequence. Clasts are mainly aphyric, minor plagioclase-phyric. Debris flow? | 9458 | | 172.3 | 175.3 | 3.0 | 129 | 6 | 1.0 | 9 | 23 |
| | | | 9459 | 175.3 | 178.3 | 3.0 | 139 | 17 | 1.1 | 7 | 21 | 23 | 1 | 1 |
| | | | 9460 | 178.3 | 181.3 | 3.0 | 175 | 100 | 1.2 | 10 | 18 | 85 | 1 | 1 |
| | | | 9461 | 181.3 | 182.3 | 1.0 | 116 | 18 | 1.1 | 6 | 20 | 9 | 1 | 1 |
| | 182.3 | END OF HOLE | | | | | | | | | | | | |

DRILL HOLE LOG

| | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|---------|-------------------------|---------------|--------------------------------------|--|
| LOCATION: 1500E/10575N | | | | DRILL HOLE NO.: QC-91-2 | | | |
| AZIMUTH: 180° | | ELEVATION: 4,340 feet | | PROPERTY: DRYDEN QC | | | |
| INCLINATION: -45° | | LENGTH: 185.3 m | | CLAIM NO: QC-4 | | | |
| CORE SIZE: BD-BGM | | SURVEYS | | | | SECTION: 15000E | |
| | | METREAGE | AZIMUTH | INCLINATION | CORR. INCLIN. | LOGGED BY: M.G. Morrice | |
| STARTED: September 4, 1991 | | 66.4 | | | -47° | DATED LOGGED: September 6-8, 1991 | |
| COMPLETED: September 6, 1991 | | 121.3 | | | -47° | DRILLING CO.: Falcon Drilling Ltd. | |
| PURPOSE: Fill out section in vicinity of anomalous Au and Cu talus fines, test (to south) Ca mineralization encountered in QC-91-1. | | 185.3 | | | -48° | ASSAYED BY: Min-En Laboratories Ltd. | |
| | | | | | | | |

CORE RECOVERY: 95.4%

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 0.0 | 3.0 | OVERBURDEN (Casing) | | | | | | | | | | | | |
| 3.0 | 11.0 | INTERMEDIATE - FELSIC VOLCANICS (TUFFS) - medium-dark green, quite hard, very fine grained, equigranular, moderately fractured, rock is highly broken in places between 3.0 and 9.2 m (angular chips with limonite-stained faces). Bedding: core angle 46° at 3.3 m. Pyrite and epidote alteration along fractures. Minor ash-size tuff (feldspathic), angular plagioclase crystals, 0.5-1.0 mm. 1-2% pyrite on fractures. Trace - 0.25% chalcopyrite on fractures, minor azurite. 9.2-9.4 m, 10.0-10.5 m - hydrothermal brecciated volcanics with 5% pyrite on irregular fractures, + epidote and chlorite alteration. 2-3 mm quartz-pyrite veins, core axis = 33° at 10.8 m | 9462 | 3.0 | 6.0 | 3.0 | 841 | 21 | 1.0 | 10 | 20 | 1 | 1 | 9 |
| | | | 9463 | 6.0 | 9.0 | 3.0 | 1,424 | 50 | 1.0 | 10 | 25 | 1 | 1 | 18 |
| | | | 9464 | 9.0 | 12.0 | 3.0 | 1,270 | 19 | 1.2 | 9 | 16 | 1 | 1 | 32 |
| 11.0 | 28.1 | DIORITE - medium-grained, equigranular, hornblende + biotite-bearing; porphyritic at contact (11.0-11.2 m), hornblendes are slightly chloritic. 1-2% disseminated pyrite and 2% pyrite on fractures, ± epidote. Locally up to 10% pyrite. Trace to 0.25% chalcopyrite. Minor calcite veins. 15.7 m - 1 cm quartz-pyrite vein (core angle = 41°). Trace of azurite, malachite. 16.1 m - pyrite vein (2-5 cm) along fracture (core angle - 22°) Local areas of epidotized mafics - correspond to higher disseminated pyrite zones (12.7-13.1 m, 13.2-13.5 m, 15.4-15.6 m, 15.9-16.2 m). 18.0-18.5 m - pyritic shear/fracture zones within altered diorite (mafic altered to pyrite, epidote, clinozoisite), 7-10% pyrite. | 9465 | 12.0 | 15.0 | 3.0 | 1,381 | 10 | 1.2 | 10 | 24 | 5 | 1 | 59 |
| | | | 9466 | 15.0 | 18.0 | 3.0 | 1,271 | 18 | 1.0 | 9 | 24 | 1 | 1 | 21 |
| | | | 9467 | 18.0 | 21.0 | 3.0 | 1,390 | 24 | 1.2 | 13 | 23 | 14 | 1 | 17 |
| | | | 9468 | 21.0 | 24.0 | 3.0 | 1,403 | 13 | 1.3 | 11 | 17 | 8 | 1 | 103 |
| | | | 9469 | 24.0 | 27.0 | 3.0 | 1,314 | 21 | 1.3 | 11 | 21 | 7 | 1 | 35 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|-------------------|-------------------------|----------------|-------------------|---------------|----------------|--------------|-------------|----------------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | Au ppm | Sb ppm | Mo ppm |
| 11.0 | 28.1 Cont'd | 18.1 m - pyritic shear (core angle = 15°), 1 cm wide with quartz 19.4 m - pyritic fracture (1-3 mm) (core angle = 30°) 19.7 m - quartz + pyrite + chalcopyrite bleeding out over 1 cm from central fracture (core angle = 20°) 20.0 m - 2-3 mm wide quartz - chalcopyrite - pyrite vein (core angle = 21°) 21.7 m - chalcopyrite + pyrite on fracture (core angle = 35°) 22.5 m - 1.5 cm wide quartz + pyrite vein (core angle = 31°), chalcopyrite on fractures near vein 24.7-24.9 m - altered diorite, hornblende to pyrite, with quartz-pyrite veins + possible K-feldspar alteration (white haloes to quartz veins), quartz-pyrite veins (core angle = 34°, 22°). Bleached, altered diorite has sharp contact with fresher diorite (marked by presence of unaltered hornblende). 27.1 m - 0.6 cm vuggy quartz + pyrite + trace chalcopyrite vein (core angle = 45°) 27.2-27.3 m - altered diorite (pyrite + epidote) with 0.5 cm wide quartz + pyrite vein, trace chalcopyrite (core angle = 25°). 28.1 m - diorite-volcanic contact, sharp, core angle = 50°. | | | | | | | | | | | | |
| 28.1 | 34.7 | MAFIC-INTERMEDIATE VOLCANICS (TUFFS) - fine grained, aphyric, medium to dark green, cut by abundant <1.5 cm wide quartz veins - stockwork. 28.3 m - 1 cm wide quartz-pyrite vein (core angle = 44°) 28.5 m - 1 cm wide quartz-pyrite-chalcopyrite vein (core angle = 44°) Irregular quartz - pyrite-chalcopyrite veins 1 mm - 1.5 cm wide - variety of orientations. About 0.25-0.5% chalcopyrite in this interval, 5-7% pyrite, minor malachite, azurite. In this interval, about 2-3 quartz veins per 25 cm. Rock is badly broken. | 9470 9471 9472 | 27.0 30.0 33.0 | 30.0 33.0 36.0 | 3.0 3.0 3.0 | 1,429 1,818 1,903 | 30 25 11 | 1.4 1.3 1.0 | 9 10 13 | 27 30 39 | 1 3 14 | 1 1 1 | 31 70 33 |
| 34.7 | 39.6 | DIORITE - hornblende-biotite, medium-grained, equigranular, local epidote + pyrite alteration. 35.1 m - 0.5 cm wide quartz-chalcopyrite-pyrite-molybdenite vein (core angle = 30°) Trace-0.25 % chalcopyrite, locally to 0.5% associated with quartz veins. 37.1-37.4 m - white quartz vein - barren looking - some molybdenite at margins. Trace - 0.25% chalcopyrite. | 9473 | 36.0 | 39.0 | 3.0 | 1,124 | 14 | 1.2 | 14 | 25 | 7 | 1 | 48 |
| 39.6 | 45.5 | INTERMEDIATE VOLCANICS (TUFFS) - dark green, very fine grained, aphyric, locally quite siliceous. Cut by several <1 cm quartz-pyrite-chalcopyrite veins, irregular calcite veins, epidote along fractures. 3-5% pyrite in interval, locally to 10%, fracture-controlled + disseminated in diorite (after hornblende). Trace-0.25% chalcopyrite. 43.8 m - quartz-pyrite-molybdenite vein/alteration zone - 2 cm wide. 43.1-43.4 m - diorite, minor 0.5 cm wide quartz-pyrite vein, pyritic fractures. Lower contact - core angle = 90°, medium-grained, equigranular. 44.0-44.4 m - diorite, medium-grained, equigranular. | 9474 9475 | 39.0 42.0 | 42.0 45.0 | 3.0 3.0 | 2,599 2,203 | 32 31 | 1.6 1.5 | 12 14 | 27 33 | 1 4 | 1 1 | 38 55 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------|--------------------------------------------|------------------------------------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 45.5 | 49.1 | | | DIORITE - equigranular, altered (silicified?, K-feldspar?). Rock is badly broken. Hornblende altered to epidote + pyrite, pyrite veins, calcite veins. 3-5% disseminated + fracture-controlled pyrite. | 9476 9477 | | 45.0 48.0 | 48.0 51.0 | 3.0 3.0 | 2,028 2,354 | 24 41 | 1.1 1.4 | 13 13 | 45 59 |
| 49.1 | 77.6 | INTERMEDIATE VOLCANIC (TUFFS) - Very fine grained, aphyric, cut by irregular pyrite, epidote, pyrite + epidote, calcite, quartz veins. Minor ash-size beds (feldspar crystals, ≤ 0.5 mm), most are fine grained. 2-3% pyrite, fracture-controlled, disseminated. Trace-0.25% chalcopyrite (locally to 1% fracture-controlled + disseminated). 53.6-54.0 m - diorite, medium-grained, equigranular, hornblende-bearing. 54.3-54.7 m - diorite, equigranular, medium-grained. 57.8-58.5 m - diorite, equigranular, medium-grained; irregular contact with volcanics 60.5 m - 3 mm wide calcite vein (core angle = 10°) 59.7-60.0 m - diorite with trace chalcopyrite, core angle of upper contact = 25° 61.3 m - quartz-barite vein (0.5 cm), core angle = 25° 61.4 m - irregular fractures with pyrite + chalcopyrite 62.1-63.0 m - weak to moderate bleaching (iron carbonate alteration) - pyrite, quartz + pyrite veins (<0.5 cm) - 5-10% pyrite in interval. 64.6 m - trace chalcopyrite associated with 2 mm wide calcite vein (core angle = 35°) 66.1-68.6 m - very badly broken, with clay gouge present. 68.6-69.2 m - volcanics are a pale brown-green, hard, iron-carbonate? alteration? 72.0-73.3 m - iron-carbonate altered volcanic (pale brown-green) with quartz-carbonate veins (72.6-73.0 m) ≤ 1 cm wide, contains <1% of a steel-grey metallic mineral, non-magnetic, can scratch with knife. Note the colour change of volcanics is not accompanied by decrease in hardness - rock is very hard. 70.5-77.6 m - intermediate-felsic tuffs, can see disrupted bedding, mostly dust tuffs, minor ash tuffs, minor chert breccia layers-soft sediment deformation? 2-3% disseminated pyrite. Bedding - core angle = 62° at 74 m, 55° at 75.3 m. 77.5-77.6 m - badly broken. | 9478 9479 9480 9481 9482 9483 9484 9485 9486 | 51.0 54.0 57.0 60.0 63.0 66.0 69.0 72.0 75.0 | 54.0 57.0 60.0 63.0 66.0 69.0 72.0 75.0 78.0 | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 2,617 2,065 2,306 2,435 3,220 1,936 115 171 127 | 120 40 44 60 53 78 16 32 19 | 1.6 1.7 1.4 0.8 1.3 1.0 0.4 0.2 0.6 | 17 11 13 14 22 28 20 18 19 | 42 37 43 44 44 99 36 98 71 | 7 1 1 1 17 40 39 36 34 | 10 1 1 1 5 4 2 2 1 | 35 26 22 20 65 8 1 1 1 |
| 77.6 | 85.8 | DIORITE - medium-grained, equigranular, hornblende-biotite-bearing. Plagioclase altered (weak-moderate) to sericite. Hornblende altered to sericite? biotite? Pale brown-grey. Rock has a hazy look - crystal outlines are not sharply defined. 2-3% disseminated + fracture-controlled pyrite, trace chalcopyrite (fracture-controlled). Minor late calcite veins (<4 mm). Sharp contact with volcanics down-hole, core angle = 32°. 77.6-79.3 m - badly broken 81.5-81.9 m - intermediate-felsic volcanic, 1 cm wide irregular pyrite vein. | 9487 9488 9489 | 78.0 81.0 84.0 | 81.0 84.0 87.0 | 3.0 3.0 3.0 | 149 134 125 | 27 85 28 | 0.2 0.5 0.6 | 18 20 21 | 63 43 51 | 56 1,034 55 | 1 2 2 | 1 1 2 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------|-------------------------------------------|---------------------------------|------------------------------|---------------------------|---------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------|-----------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 85.8 | 99.1 | <p>INTERMEDIATE-FELSIC VOLCANICS (TUFFS) - very fine grained tuffs (dust-size), medium green, irregular fractures with pyrite; some extremely fine grained, siliceous, cream coloured beds.</p> <p>Very well bedded, ≤ 1 cm thick.</p> <p>Locally 2-3% disseminated pyrite.</p> <p>1-2% fractured-controlled pyrite. Local chlorite alteration along fractures.</p> <p>Minor mafic-intermediate ash-size tuff with < 1 mm angular plagioclase crystals.</p> <p>Grading - tops down the hole.</p> <p>Irregular calcite veins (≤ 2 mm), scattered through interval, concentrated from 98.4-99.1 m.</p> <p>Bedding, core angle = 40° at 88.6 m.</p> <p>94.3 m - quartz-calcite vein (4 mm), core angle = 55°</p> <p>98.2 m - thinly bedded intermediate-felsic tuffs, bedding core angle = 42°.</p> | 9490 9491 9492 9493 | 87.0 90.0 93.0 96.0 | 90.0 93.0 96.0 99.0 | 3.0 3.0 3.0 3.0 | 112 110 103 161 | 11 10 11 10 | 0.8 0.7 0.8 0.8 | 14 19 24 24 | 25 33 46 42 | 37 43 40 42 | 1 1 1 1 | 1 1 2 1 |
| 99.1 | 112.2 | <p>DIORITE - hornblende-biotite, medium-grained equigranular, mostly fresh-looking, black hornblende, variably sericitized white plagioclase</p> <p>99.1-100.3 m - hazy looking, silicified?</p> <p>1-2% disseminated + fracture-controlled pyrite.</p> <p>100.4 m - 1 cm wide quartz-pyrite vein, core angle = 49°</p> <p>102.7 m - quartz-pyrite-chalcocopyrite vein, 2 cm wide, core angle = 40°</p> <p>103.7 m - 0.5 cm wide quartz vein, core angle = 28°</p> <p>104.0 m - 0.2 cm wide pyrite vein, core angle = 32°</p> <p>108.3 m - albite(?) - quartz-calcite vein. 4 cm wide, core angle = 25°; plagioclase + biotite have altered to sericite adjacent to vein.</p> <p>108.4 m - 1 cm wide massive pyrite vein (core angle = 23°) within intense-moderately sericitized diorite.</p> <p>111.0 m - 10 cm wide quartz-pyrite-chalcocopyrite vein in sericitized diorite (core angle = 90°).</p> | 9494 9495 9496 9497 9498 | 99.0 102.0 105.0 108.0 111.0 | 102.0 105.0 108.0 111.0 114.0 | 3.0 3.0 3.0 3.0 3.0 | 76 140 74 190 97 | 9 50 19 97 30 | 0.7 1.1 0.4 0.1 0.7 | 14 14 10 19 13 | 36 42 37 38 41 | 22 30 34 101 50 | 1 1 1 1 1 | 1 1 1 1 1 |
| 112.2 | 118.0 | <p>INTERMEDIATE-FELSIC VOLCANICS (TUFFS) - dust tuffs, light to dark green, irregular quartz-chlorite veins, irregular calcite veins. 2-3% pyrite on fractures.</p> <p>117.2 m - 4 mm quartz vein (core angle = 46°)</p> <p>116.4-116.5 m - diorite, contact has core angle = 25°</p> | 9499 | 114.0 | 117.0 | 3.0 | 154 | 20 | 0.7 | 12 | 42 | 21 | 1 | 1 |
| 118.0 | 120.7 | <p>DIORITE - hornblende-biotite, medium-grained, equigranular, upper contact, core angle = 45°. 2-3% disseminated pyrite, local weak-moderate sericite alteration of plagioclase, biotite, hornblende.</p> | 9500 | 117.0 | 120.0 | 3.0 | 140 | 15 | 0.2 | 14 | 37 | 13 | 1 | 1 |
| 120.7 | 126.7 | <p>INTERMEDIATE-MAFIC VOLCANICS (TUFFS) - fine-grained tuffs (fine ash), light to medium green, irregular calcite veins, 1-2% disseminated pyrite, trace chalcocopyrite.</p> | 9501 9502 | 120.0 123.0 | 123.0 126.7 | 3.0 3.7 | 172 150 | 14 78 | 0.9 0.5 | 14 16 | 36 33 | 15 28 | 1 1 | 1 1 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 126.7 | 146.4 | MYLONITIC INTERMEDIATE-MAFIC VOLCANICS, INTERMEDIATE VOLCANICS (TUFFS) - variably tectonized and impregnated with fine grained pyrite, fragmental-looking rock with light grey to white, cm-size fragments in dark green to grey, pyrite-rich matrix, some of fragments are broken quartz veins. similar to "diamictite" of QC-91-1. Most likely a cataclasite with undeformed lithons of intermediate-mafic tuffs. 10% disseminated pyrite in interval, locally to 40%, minor chalcopryrite - one large (2-3 cm) bleb at 128.6 m. Locally schistose (eg. at 129 m, core angle = 55°) Core angle = 50° of schistosity at 137.9 m. Core angle = 52° of schistosity adjacent to segmented quartz vein at 138.6 m. | 9503 | 126.7 | 127.7 | 1.0 | 1,009 | 30 | 1.0 | 18 | 12 | 14 | 1 | 8 |
| | | | 9504 | 127.7 | 128.7 | 1.0 | 1,949 | 62 | 1.5 | 21 | 12 | 29 | 2 | 10 |
| | | | 9505 | 128.7 | 129.7 | 1.0 | 2,261 | 120 | 1.5 | 16 | 18 | 25 | 2 | 8 |
| | | | 9506 | 129.7 | 130.7 | 1.0 | 1,823 | 29 | 0.9 | 16 | 16 | 15 | 1 | 8 |
| | | | 9507 | 130.7 | 131.7 | 1.0 | 3,186 | 22 | 1.3 | 16 | 25 | 8 | 1 | 14 |
| | | | 9508 | 131.7 | 132.7 | 1.0 | 310 | 24 | 0.4 | 17 | 16 | 21 | 1 | 1 |
| | | | 9509 | 132.7 | 133.7 | 1.0 | 213 | 20 | 0.3 | 16 | 16 | 20 | 1 | 1 |
| | | | 9510 | 133.7 | 134.7 | 1.0 | 1,429 | 41 | 0.8 | 16 | 24 | 20 | 1 | 5 |
| | | | 9511 | 134.7 | 135.7 | 1.0 | 1,534 | 79 | 0.5 | 17 | 19 | 18 | 1 | 8 |
| | | | 9512 | 135.7 | 136.7 | 1.0 | 1,407 | 40 | 1.0 | 17 | 14 | 27 | 2 | 21 |
| | | | 9513 | 136.7 | 137.7 | 1.0 | 1,162 | 28 | 0.5 | 15 | 10 | 17 | 1 | 12 |
| | | | 9514 | 137.7 | 138.7 | 1.0 | 2,152 | 100 | 1.1 | 19 | 15 | 24 | 3 | 43 |
| | | | 9515 | 138.7 | 139.7 | 1.0 | 1,538 | 210 | 1.0 | 21 | 87 | 40 | 4 | 27 |
| | | | 9516 | 139.7 | 140.7 | 1.0 | 1,186 | 54 | 0.6 | 21 | 29 | 25 | 3 | 43 |
| | | | 9517 | 140.7 | 141.7 | 1.0 | 608 | 12 | 0.3 | 17 | 36 | 17 | 2 | 3 |
| | | | 9518 | 141.7 | 142.7 | 1.0 | 1,109 | 15 | 0.6 | 20 | 16 | 16 | 1 | 8 |
| | | | 9519 | 142.7 | 143.7 | 1.0 | 931 | 22 | 0.8 | 17 | 15 | 21 | 2 | 7 |
| 9520 | 143.7 | 144.7 | 1.0 | 1,113 | 30 | 0.9 | 18 | 21 | 21 | 1 | 6 | | | |
| 9521 | 144.7 | 145.7 | 1.0 | 1,500 | 31 | 1.2 | 17 | 13 | 13 | 1 | 9 | | | |
| 9522 | 145.7 | 146.4 | 0.7 | 1,167 | 29 | 0.9 | 16 | 38 | 7 | 1 | 2 | | | |
| 146.4 | 185.3 | INTERMEDIATE-FELSIC, MAFIC VOLCANICS (TUFFS) - fine to very fine grained, aphyric; medium to dark green, locally silicified. Local epidote alteration along irregular fractures and in cm-size blobs. Minor calcite veins. 3-5% pyrite, trace-0.25% chalcopryrite on fractures, pyrite occurs with epidote. 149.4 m - pyrite + epidote on fracutre, core angle = 20° 149.8 m - bedding (≤1 cm thick) in creamy intermediate-felsic dust tuffs, core angle = 30° 150.4 m - quartz + pyrite vein, 2 cm wide, core angle = 55° 151.8-153.3 m - rock is bleached to a light to medium grey, is siliceous and brecciated with pyritic matrix to angular hydrothermal breccia, cut by four creamy white albite(?) + quartz veins. All with similar core angles (44°), 0.3-2 cm wide. Also grey quartz with pyrite as matrix to breccia. 10% pyrite in this interval. Contacts of the bleached zone are gradational with volcanics on either side. Bleaching may be due to silicification - note that there are other slightly bleached zones in this volcanic unit, usually with pyritic fractures, however pyritic fractures are not confined to bleached zones. | 9523 | 146.4 | 149.4 | 3.0 | 1,342 | 19 | 1.1 | 17 | 40 | 7 | 1 | 2 |
| | | | 9524 | 149.4 | 152.4 | 3.0 | 1,440 | 4 | 0.6 | 18 | 41 | 17 | 1 | 17 |
| | | | 9525 | 152.4 | 155.4 | 3.0 | 1,796 | 2 | 0.8 | 17 | 43 | 15 | 1 | 5 |
| | | | 9526 | 155.4 | 158.4 | 3.0 | 1,312 | 10 | 1.0 | 14 | 39 | 8 | 1 | 1 |
| | | | 9527 | 158.4 | 161.4 | 3.0 | 2,276 | 30 | 1.0 | 15 | 42 | 6 | 1 | 4 |
| | | | 9528 | 161.4 | 164.4 | 3.0 | 1,236 | 19 | 0.9 | 13 | 28 | 7 | 1 | 1 |
| | | | 9529 | 164.4 | 167.4 | 3.0 | 1,511 | 12 | 1.1 | 13 | 34 | 2 | 1 | 10 |
| | | | 9530 | 167.4 | 170.4 | 3.0 | 2,022 | 14 | 1.6 | 17 | 33 | 8 | 1 | 19 |
| | | | 9531 | 170.4 | 173.4 | 3.0 | 1,185 | 11 | 1.3 | 13 | 31 | 5 | 1 | 6 |
| | | | 9532 | 173.4 | 176.4 | 3.0 | 1,047 | 20 | 1.2 | 12 | 37 | 3 | 4 | 5 |
| | | | 9533 | 176.4 | 179.4 | 3.0 | 1,059 | 18 | 1.1 | 14 | 37 | 6 | 1 | 6 |
| 9534 | 179.4 | 182.4 | 3.0 | 994 | 12 | 0.9 | 13 | 40 | 9 | 1 | 10 | | | |
| 9535 | 182.4 | 185.7 | 2.9 | 1,196 | 10 | 0.9 | 14 | 38 | 11 | 1 | 9 | | | |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-----------------|-------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | Au ppm | Sb ppm | Mo ppm |
| 146.4 | 185.3 Cont'd | | | 154.1 m - pyrite + epidote fractures, core angle = 45°, other orientations. 164.8 m - pyrite-epidote vein, core angle = 28°. 164.0-185.3 m - rock is highly fractured, epidote, pyrite, epidote + pyrite, calcite along fractures; random orientations. 169.3-170.1 m - bleached, brecciated, pyritic matrix, pyrite + epidote on fractures. Trace-0.25% chalcopyrite on fractures. 171.8 m - badly fractured, quartz vein + epidote alteration, core angle = 08°. 182.4 m - 2 cm wide shear zone with calcite-pyrite vein, core angle = 50°. | | | | | | | | | | |
| | 185.3 | END OF HOLE | | | | | | | | | | | | |

DRILL HOLE LOG

| | | | | | | | |
|----------------------------------------------------------------------------|--|-------------------|--|-------------------------|--|--------------------------------------|--|
| LOCATION: 15000E/10800N | | | | DRILL HOLE NO.: QC-91-3 | | | |
| AZIMUTH: 180° | | ELEVATION: 3,970' | | PROPERTY: DRYDEN QC | | | |
| INCLINATION: -45° | | LENGTH: 179.2 m | | CLAIM NO: QC-4 | | | |
| | | CORR SIZE: BD-BGM | | SURVEYS | | SECTION: 15000E | |
| STARTED: September 6, 1991 | | 72.5 | | | | LOGGED BY: M.G. Morrice | |
| COMPLETED: September 9, 1991 | | 104.9 | | | | DATED LOGGED: September 8-10, 1991 | |
| PURPOSE: Test north extension of Cu mineralization encountered in QC-91-1. | | 157.9 | | | | DRILLING CO.: Falcon Drilling Ltd. | |
| | | 179.2 | | | | ASSAYED BY: Min-Es Laboratories Ltd. | |

CORE RECOVERY: 90.5%

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | Au ppm | Sb ppm | Mo ppm |
| 0.0 | 36.0 | OVERBURDEN - (0.0-6.1 m - casing). Boulders of volcanics. | | | | | | | | | | | | |
| 36.0 | 56.7 | MAFIC VOLCANICS (LAPILLI TUFFS) - heterolithic, feldspar- and hornblende-phyric clasts, mostly green, locally maroon, local moderate- to intense-epidote flooding, irregular 1-3 mm calcite veins. 0-0.5% disseminated + fracture-controlled pyrite. Volcanics are mainly maroon from 36.0-41.4 m. 43.0-43.7 m - very highly broken 45.1-47.2 m - very highly broken - fault zone? 42.1-42.3 m - intensely epidotized maroon volcanics are quite magnetic. 49.0-56.7 m - minor malachite staining. Several badly broken intervals (49.1-49.3 m, 54.0-54.1 m, 54.8-54.9 m). | 9536 9537 9538 9539 9450 9541 9542 | 36.0 39.0 42.0 45.0 48.0 51.0 54.0 | 39.0 42.0 45.0 48.0 51.0 54.0 57.0 | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 645 173 395 833 281 349 1,230 | 1 4 3 8 4 5 10 | 0.5 0.7 0.5 0.1 0.1 0.1 0.3 | 18 13 17 16 15 16 20 | 65 54 72 82 45 43 69 | 4 2 8 29 6 10 12 | 2 1 2 1 1 1 1 | .1 1 1 1 1 1 4 |
| 56.7 | 179.2 | DIORITE - medium-grained, equigranular, medium grey, individual crystals are quite hazy-altered. - sericite alteration moderate, silicification + pyrite along fractures - 5-10% pyrite, very minor quartz-pyrite-chalcopyrite veins, 1-2 cm wide, trace to 0.25% chalcopyrite. - local epidote alteration Note: chalcopyrite in quartz veins - usually about 2-5% in vein, all veins \leq 1.5 cm wide and widely spaced (about 1/metre) - local silicification in diorite, especially near quartz veins (91.6-93.9 m) - minor irregular calcite veins (<3 mm). | 9543 9544 9545 9546 9547 9548 9549 9550 9551 9552 | 57.0 60.0 63.0 66.0 69.0 72.0 75.0 78.0 81.0 84.0 | 60.0 63.0 66.0 69.0 72.0 75.0 78.0 81.0 84.0 87.0 | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 1,687 839 934 1,213 1,297 951 1,492 1,476 1,423 1,687 | 20 19 5 6 2 12 10 22 15 21 | 1.2 0.6 0.5 1.1 0.9 1.0 1.3 1.2 1.0 1.3 | 14 13 12 11 10 11 10 9 12 11 | 28 22 23 15 22 24 14 19 18 13 | 8 6 8 6 14 10 7 12 4 7 | 1 1 1 1 14 1 1 1 1 1 | 22 16 25 10 19 9 24 41 11 36 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | | |
|-----------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm | |
| 56.7 | 179.2 Cont'd | - diorite has a variable appearance reflecting varying degrees of alteration. With increasing alteration: | 9553 | 87.0 | 90.0 | 3.0 | 2,013 | 28 | 1.4 | 13 | 15 | 6 | 1 | 26 | |
| | | a) individual crystals become more difficult to resolve | 9554 | 90.0 | 93.0 | 3.0 | 2,015 | 20 | 1.1 | 13 | 15 | 6 | 1 | 55 | |
| | | b) colour changes from light-medium grey-green to medium-dark green-grey. | 9555 | 93.0 | 96.0 | 3.0 | 1,392 | 21 | 1.1 | 12 | 14 | 5 | 1 | 128 | |
| | | - alteration is combination of sericitization and silicification | 9556 | 96.0 | 99.0 | 3.0 | 1,869 | 10 | 1.3 | 11 | 14 | 8 | 1 | 51 | |
| | | 66.7 m - pyrite vein, core angle = 25° | 9557 | 99.0 | 102.0 | 3.0 | 1,893 | 15 | 1.4 | 11 | 14 | 7 | 1 | 36 | |
| | | 9558 | 102.0 | 105.0 | 3.0 | 1,586 | 10 | 1.4 | 13 | 22 | 9 | 1 | 28 | | |
| | | 70.8-70.9 m - two - 1 cm wide parallel quartz-pyrite-molybdenite veins - molybdenite near outer wall of quartz vein, core angle = 36° | 9559 | 105.0 | 108.0 | 3.0 | 747 | 9 | 1.0 | 12 | 15 | 10 | 1 | 13 | |
| | | 9560 | 108.0 | 111.0 | 3.0 | 945 | 4 | 1.0 | 11 | 16 | 7 | 1 | 24 | | |
| | | 72.5-73.2 m - mafic lapilli tuff, magnetic, plagioclase-pyritic clasts | 9561 | 111.0 | 114.0 | 3.0 | 1,051 | 7 | 1.0 | 14 | 14 | 9 | 1 | 13 | |
| | | 77.3 m - 1.5 cm wide albite-quartz-pyrite-chalcopyrite vein, core angle = 80° | 9562 | 114.0 | 117.0 | 3.0 | 1,258 | 3 | 0.8 | 13 | 17 | 6 | 1 | 11 | |
| | | 80.8 m - 4 mm quartz-pyrite-chalcopyrite vein, core angle = 32° | 9563 | 117.0 | 120.0 | 3.0 | 1,109 | 28 | 0.5 | 15 | 20 | 10 | 1 | 26 | |
| | | 84.1 m - 3 mm quartz-pyrite vein, core angle = 76° | 9564 | 120.0 | 123.0 | 3.0 | 1,602 | 15 | 0.7 | 9 | 17 | 5 | 1 | 15 | |
| | | 84.2 m - salmon-coloured 1 cm wide K-feldspar(?) - quartz vein - pyrite - chalcopyrite vein, core angle = 50° | 9565 | 123.0 | 126.0 | 3.0 | 1,180 | 8 | 0.7 | 10 | 17 | 3 | 1 | 28 | |
| | | 9566 | 126.0 | 129.0 | 3.0 | 1,173 | 19 | 0.6 | 10 | 15 | 2 | 1 | 27 | | |
| | | 85.9 m - 0.5 cm quartz-pyrite-chalcopyrite-molybdenite vein, core angle = 15° | 9567 | 129.0 | 132.0 | 3.0 | 1,348 | 20 | 1.0 | 11 | 16 | 6 | 1 | 20 | |
| | | 89.7 m - 1-4 mm quartz-pyrite-chalcopyrite vein, core angle = 15° | 9568 | 132.0 | 135.0 | 3.0 | 1,535 | 23 | 1.1 | 10 | 17 | 8 | 1 | 38 | |
| | | 89.8 m - 2-3 mm quartz-pyrite-chalcopyrite vein, core angle = 32° | 9569 | 135.0 | 138.0 | 3.0 | 1,464 | 10 | 1.0 | 11 | 20 | 7 | 1 | 29 | |
| | | 91.7-92.9 m - diorite with 6 1-3 cm quartz-pyrite-chalcopyrite veins + silica flooding, 0.25-0.5% chalcopyrite in interval. Poor quartz stockwork developed. | 9570 | 138.0 | 141.0 | 3.0 | 1,695 | 15 | 1.1 | 10 | 22 | 6 | 1 | 80 | |
| | | 9571 | 141.0 | 144.0 | 3.0 | 1,464 | 10 | 1.3 | 10 | 14 | 6 | 1 | 17 | | |
| | | 91.8 m - 0.5 cm quartz-pyrite-chalcopyrite vein, core angle = 07° | 9572 | 144.0 | 147.0 | 3.0 | 1,146 | 9 | 0.6 | 13 | 13 | 5 | 1 | 43 | |
| | | 92.2 m - core angle = 12°, 0.5 cm wide quartz-pyrite-chalcopyrite vein | 9573 | 147.0 | 150.0 | 3.0 | 1,515 | 10 | 0.9 | 19 | 20 | 55 | 2 | 38 | |
| | | - core angle = 68°, 0.5 cm wide quartz-pyrite-chalcopyrite vein | 9574 | 150.0 | 153.0 | 3.0 | 1,279 | 13 | 1.4 | 16 | 20 | 37 | 1 | 15 | |
| | | 92.8 m - 0.5 cm wide quartz-pyrite-chalcopyrite vein, core angle = 25° | 9575 | 153.0 | 156.0 | 3.0 | 1,299 | 4 | 1.5 | 15 | 19 | 14 | 1 | 29 | |
| | | 94.8-95.4 m - fresh looking diorite, medium-grained equigranular, hornblende-biotite, 3-5% disseminated + fracture-controlled pyrite. Epidote alteration with pyrite, trace chalcopyrite. | 9576 | 156.0 | 159.0 | 3.0 | 856 | 98 | 1.6 | 19 | 15 | 17 | 1 | 55 | |
| | | 9577 | 159.0 | 162.0 | 3.0 | 1,184 | 3 | 1.5 | 13 | 16 | 20 | 1 | 9 | | |
| | | 9578 | 162.0 | 165.0 | 3.0 | 877 | 1 | 1.1 | 15 | 19 | 7 | 1 | 48 | | |
| | | 96.9-97.4 m - silicified diorite with 10% disseminated + fracture-controlled pyrite, 0.25-0.5% fracture-controlled chalcopyrite. | 9579 | 165.0 | 168.0 | 3.0 | 1,140 | 9 | 1.1 | 14 | 20 | 11 | 1 | 67 | |
| | | 9580 | 168.0 | 171.0 | 3.0 | 1,211 | 3 | 1.2 | 13 | 21 | 1 | 1 | 40 | | |
| | | 100.3 m - 1 cm wide quartz vein, broken up, with 3-5% chalcopyrite | 9581 | 171.0 | 174.0 | 3.0 | 1,575 | 19 | 1.5 | 16 | 24 | 9 | 1 | 61 | |
| | | 108.5 m - 1 cm wide quartz-pyrite-molybdenite vein, core angle = 06° coarse pyrite in core, fine molybdenite near vein margins. | 9582 | 174.0 | 177.0 | 3.0 | 1,499 | 20 | 1.2 | 18 | 25 | 9 | 1 | 107 | |
| | | 9583 | 177.0 | 179.2 | 2.2 | 932 | 22 | 1.4 | 13 | 22 | 8 | 1 | 12 | | |
| | | 111.8 m - 0.5 cm quartz-pyrite-chalcopyrite veins, core angle = 40° | | | | | | | | | | | | | |
| | | 114.3 m - irregular 0.5 cm quartz-pyrite-chalcopyrite vein | | | | | | | | | | | | | |
| | | 116.4 m - 0.5 cm wide quartz-chalcopyrite-pyrite vein, core angle = 32° | | | | | | | | | | | | | |
| | | 118.0 m - 0.5 cm wide quartz-pyrite-chalcopyrite vein, core angle = 53° | | | | | | | | | | | | | |
| | | 119.6 m - 0.5 cm wide quartz-pyrite vein, core angle = 35° | | | | | | | | | | | | | |
| | | 124.2 m - 1 cm wide quartz-pyrite-chalcopyrite vein, core angle = 45° | | | | | | | | | | | | | |
| | | 124.7 m - 1 cm wide quartz-pyrite-chalcopyrite vein, core angle = 02° | | | | | | | | | | | | | |
| | | 125.4 m - 0.5 cm wide quartz-pyrite-chalcopyrite vein, core angle = 44° | | | | | | | | | | | | | |
| | | 133.6 m - 0.5 cm wide quartz-pyrite-chalcopyrite vein, core angle = 45° | | | | | | | | | | | | | |
| 134.0 m - 0.5 cm wide quartz-pyrite-epidote-chalcopyrite vein, core angle = 33° | | | | | | | | | | | | | | | |
| 137.7 m - 1 cm wide quartz-pyrite-molybdenite-chalcopyrite vein, core angle = 73° | | | | | | | | | | | | | | | |
| 139.6 m - 1 cm wide quartz-pyrite-chalcopyrite vein, core angle = 12° | | | | | | | | | | | | | | | |
| 140.3 m - 1.5 cm wide quartz-molybdenite-pyrite vein, core is broken. | | | | | | | | | | | | | | | |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | |
|----------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|----|--------|----------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | Sr ppm | Sb ppm |
| 56.7 | 179.2 Cont'd | <p>141.1-144.8 m - less altered diorite, individual crystals are distinct - cut by pyrite-epidote, quartz-pyrite-chalcopryrite veins, minor (intermediate-felsic) volcanic inclusion</p> <p>- 143.4, 144.4, 144.7 - 0.5 cm wide quartz-pyrite-chalcopryrite-molybdenite veins, core angles = 30°, 32°, 42°</p> <p>143.8-152.8 m - intensely altered, silicified ± sericitized - can't make out individual crystals</p> <p>145.0 m - 1 cm wide quartz-pyrite-chalcopryrite-molybdenite vein with silicified halo.</p> <p>148.4 m - 0.5 cm wide quartz-pyrite-chalcopryrite vein, core angle = 40°</p> <p>149.7 m - 1 cm wide quartz-pyrite-chalcopryrite vein, core angle = 34°</p> <p>151.0 m - 3-4 cm wide quartz-pyrite vein - irregular.</p> <p>155.2 m - 1 cm wide quartz-pyrite-chalcopryrite-molybdenite(?) vein, core angle = 01°</p> <p>155.8 m - 2 cm wide fault gouge - angular diorite fragments in orange-brown clay - sand size matrix. Core angle = 45°, sharp contacts.</p> <p>157.0 m - shear zone (4 cm wide) with massive pyrite veins (1 cm wide). Core angle of shear zone = 30°, with associated quartz-pyrite vein.</p> <p>157.7 m - 1.5 cm wide quartz-pyrite-molybdenite vein, core angle = 40°</p> <p>158.0 m - quartz-pyrite vein (1 cm wide), core angle = 25°</p> <p>158.3-158.5 m - quartz flooding + pyrite + chalcopryrite</p> <p>161.4 m - 1 cm wide quartz-pyrite-chalcopryrite vein, core angle = 20°</p> <p>162.3 m - 1 cm wide quartz-pyrite-chalcopryrite vein, core angle = 35°</p> <p>162.9 m - 2 - 0.5 cm wide quartz-pyrite-chalcopryrite veins, core angle = 90°</p> <p>163.5 m - 1 cm wide quartz-chalcopryrite-pyrite vein, core angle = 73°</p> <p>164.0-164.3 m - irregular quartz-pyrite-chalcopryrite veins + quartz flooding.</p> <p>164.4 m - 1 cm wide quartz-chalcopryrite-molybdenite vein, core angle = 80°</p> <p>165.0 m - 2 cm wide quartz-molybdenite-pyrite-chalcopryrite vein. Molybdenite on seams at vein margin and in vein centre.</p> <p>165.4-165.9 m - altered diorite that has been tectonized-brecciated with 15% pyrite in matrix.</p> <p>166.5 m - 1-2 cm wide quartz-pyrite-chalcopryrite vein, core angle = 25°</p> <p>167.0-167.2 m - quartz veining + flooding with 15% pyrite, trace-0.25% chalcopryrite.</p> <p>167.7-168.0 m - irregular, 1-2 cm wide shear zone at shallow angle (05°) to core axis with 1 cm wide quartz-pyrite-chalcopryrite vein.</p> <p>170.7 m - 0.5 cm wide quartz-pyrite-chalcopryrite-molybdenite vein, core angle = 90°</p> <p>173.2 m - 1 cm wide quartz-pyrite-molybdenite-chalcopryrite vein, core angle = 40°</p> <p>173.8 m - 1 cm wide quartz-pyrite-chalcopryrite-molybdenite vein, core angle = 41°</p> <p>174.3 m - 1 cm wide quartz-pyrite-chalcopryrite-molybdenite vein, core angle = 28°</p> <p>174.9-175.0 m - 1 cm wide quartz-pyrite-molybdenite-chalcopryrite veins, core angle = 40°</p> <p>179.1 m - 1 cm wide quartz-pyrite-molybdenite alteration, core angle = 35°</p> <p>Note: Variable epidote alteration in diorite from 170.0-179.0 m associated with quartz veins. Hornblende altered to chlorite.</p> | | | | | | | | | | | |
| | 179.2 | END OF HOLE | | | | | | | | | | | |

DRILL HOLE LOG

| | | | | | | | |
|-----------------------------------------------------------------------|--|-----------------------------|---------|-------------------------|---------------|--------------------------------------|--|
| LOCATION: QC Vein (Upper Gordon Showing) | | | | DRILL HOLE NO.: QC-91-4 | | | |
| AZIMUTH: 170° | | ELEVATION: 1,302 m (4,272') | | PROPERTY: DRYDEN QC | | | |
| INCLINATION: -65° | | LENGTH: 75.28 m | | CLAIM NO: QC 9 | | | |
| CORE SIZE: BD-BGM | | SURVEYS | | SECTION: | | | |
| | | METREAGE | AZIMUTH | INCLINATION | CORR. INCLIN. | | |
| STARTED: September 9, 1991 | | 17.4 | | | -66° | LOGGED BY: R. Van Egmond | |
| COMPLETED: September 10, 1991 | | 75.28 | | | -66° | DATED LOGGED: September 10-12, 1991 | |
| PURPOSE: To test Upper Gordon showing quartz carbonate vein at depth. | | | | | | DRILLING CO.: Falcon Drilling Ltd. | |
| | | | | | | ASSAYED BY: Min-Ea Laboratories Ltd. | |

CORE RECOVERY: 92.2%

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | Al ppm | Sb ppm | Mo ppm |
| 0 | 3.05 | OVERBURDEN (Casing) | | | | | | | | | | | | |
| 3.05 | 15.45 | MAFIC VOLCANIC (TUFF > LAPILLI TUFF) - Medium grained, dark to medium green, moderate chlorite alteration. Local lapilli fragments - weakly magnetic. 5% quartz vein stringers broken up/patchy, 1 mm - 1 cm. Quartz veins 8.33 m - 1 cm quartz vein with tuff fragments included, core angle = 45° 9.12 m - 1 cm oxidized vein, core angle = 21° 11.38 m - 2 mm quartz vein, core angle = 21° 13.15 m - 1.2 cm quartz vein zones with tuff fragments in vein, core angle = 30° 15.34 m - 5 mm quartz vein, core angle = 40° 10% iron carbonate alteration in distinct zones locally associated with joints or fractures: 3.52 - 6.89 m - pervasive alteration 9.12 - 11.23 m - 5%-10% pervasive alteration 11.42 - 11.47 m - core angle = 47° joint 12.23 - 12.65 m - core angle = 35° joint 13.15 - 14.08 m - 3% blebby pyrite (2 mm) in chloritic tuff 13.45 m - 5 cm broken up quartz vein with 10% pyrite, 30% arsenopyrite in vein 14.33 - 14.65 m - core angle = 58° joint and gouge zone 14.92 - 15.04 m - core angle = 45° joint Some brown zones may be weathering or oxidation along joints | 09602 | 3.05 | 5.05 | 2.00 | 73 | 1 | 0.1 | 24 | 153 | 13 | 1 | 2 |
| | | | 09603 | 5.05 | 7.05 | 2.00 | 28 | 3 | 0.1 | 24 | 136 | 16 | 1 | 1 |
| | | | 09604 | 7.05 | 9.05 | 2.00 | 44 | 9 | 0.2 | 21 | 101 | 17 | 1 | 1 |
| | | | 09605 | 9.05 | 11.05 | 2.00 | 8 | 6 | 0.1 | 21 | 116 | 12 | 1 | 1 |
| | | | 09606 | 11.05 | 13.08 | 2.03 | 37 | 2 | 0.5 | 23 | 84 | 15 | 1 | 1 |
| | | | 09584 | 13.08 | 14.08 | 1.00 | 804 | 716 | 5.8 | 42 | 3,225 | 100 | 9 | 33 |
| | | | 09585 | 14.08 | 15.08 | 1.00 | 158 | 50 | 0.6 | 22 | 461 | 32 | 5 | 2 |
| | | | 09607 | 15.08 | 17.08 | 2.00 | 60 | 1 | 0.7 | 26 | 80 | 17 | 1 | 1 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | | | | | | | |
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| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm | | | | | | |
| 15.45 | 38.15 | INTERMEDIATE VOLCANICS (LAPILLI TUFFS) - maroon to green matrix with heterolithic tuff fragments 3 mm to 30 mm. Lapilli clasts are subangular, light green siliceous, dark green mafic, and maroon tuffs, matrix supported. Local thin ash beds. 1% broken quartz vein stringers throughout. 35.88 - 38.15 m - light-medium green alteration-sericite? Bedding: 32.68 - 32.99 m - series of 2 mm - 3 mm ash beds in section of tuff, core angle = 47° 33.67 m - 2 mm - 5 mm ash layers, core angle = 42° 35.48 m - 3 mm red ash layer, core angle = 47° 36.54 m - 3 mm ash layer, core angle = 26° Quartz veins: 25.52 m - 10 mm quartz vein, core angle = 40° 25.78 m - 5 mm quartz vein, core angle = 38° 32.42 m - 4 mm tension gash quartz vein, core angle = 20° 35.88 m - 35 mm broken quartz vein, core angle = 28° - localized iron carbonate alteration zones associated with joints and fractures as well as pervasive zones occur up hole from 28.72 m. Iron carbonate zones: 18.29 - 18.69 m - pervasive alteration associated with quartz veins 18.77 m - 1 cm zone with fracture, core angle = 35° 19.09 - 19.29 m - strong alteration, dark brown on fractures 20.08 - 20.26 m - pervasive alteration associated with 5 mm quartz vein 20.77 - 21.64 m - pervasive alteration with clay gouge and dark brown fractures 23.50 - 24.23 m - very broken core - clay gouge, strong iron carbonate alteration and brecciation 24.23 - 28.72 m - patchy zones | 09608 | 17.08 | 18.29 | 1.21 | 78 | 1 | 0.1 | 23 | 56 | 12 | 1 | 1 | | | | | | |
| | | | 09586 | 18.29 | 19.29 | 1.00 | 60 | 20 | 0.7 | 75 | 23 | 23 | 3 | 1 | 1 | | | | | |
| | | | 09609 | 19.29 | 20.64 | 1.34 | 25 | 3 | 0.3 | 23 | 41 | 11 | 1 | 1 | 1 | | | | | |
| | | | 09587 | 20.64 | 21.64 | 1.00 | 50 | 22 | 0.4 | 100 | 15 | 15 | 3 | 1 | 1 | | | | | |
| | | | 09610 | 21.64 | 23.64 | 2.00 | 7 | 2 | 0.4 | 22 | 44 | 16 | 1 | 1 | 1 | | | | | |
| | | | 09611 | 23.64 | 25.64 | 2.00 | 38 | 1 | 0.5 | 23 | 38 | 16 | 1 | 1 | 1 | | | | | |
| | | | 09612 | 25.64 | 27.64 | 2.00 | 36 | 2 | 0.4 | 25 | 69 | 19 | 1 | 1 | 1 | | | | | |
| | | | 09613 | 27.64 | 29.64 | 2.00 | 351 | 4 | 0.7 | 27 | 63 | 14 | 1 | 3 | 1 | | | | | |
| | | | 09614 | 29.64 | 31.64 | 2.00 | 9 | 2 | 0.2 | 22 | 48 | 9 | 1 | 1 | 1 | | | | | |
| | | | 09615 | 31.64 | 33.64 | 2.00 | 12 | 2 | 1.0 | 17 | 51 | 41 | 3 | 1 | 1 | | | | | |
| | | | 09616 | 33.64 | 35.64 | 2.00 | 20 | 4 | 0.7 | 18 | 47 | 24 | 1 | 1 | 1 | | | | | |
| | | | 09617 | 35.64 | 38.27 | 2.63 | 48 | 7 | 0.7 | 20 | 44 | 20 | 1 | 1 | 1 | | | | | |
| | | | 38.15 | 41.27 | MAFIC VOLCANICS (TUFFS > LAPILLI TUFFS) - 2 - 5 mm mafic fragments, 2% disseminated and blebby pyrite, 5% broken quartz vein stringers with pyrite and sphalerite. 39.75 m - quartz/sphalerite vein - 6 mm, core angle = 34° 39.85 m - sphalerite vein - 5 mm, core angle = 30° 39.90 - 40.10 m - quartz/sphalerite/pyrite vein, irregular and broken, core angle = 5° 40.12 m - quartz/sphalerite/pyrite vein - 17 mm, core angle = 15° 40.43 m - quartz/sphalerite/pyrite vein - 4 mm, broken/brecciated, core angle = 30° 40.43 - 41.27 m - very broken core with hematite on fracture surfaces | 09601 | 38.27 | 39.27 | 1.00 | 190 | 69 | 2.3 | 1,931 | 44 | 104 | 7 | 6 | | | |
| | | | | | | 09588 | 39.27 | 40.27 | 1.00 | 1,324 | 2.00 g/t | 27.0 | 60,120 | 258 | 304 | 17 | 11 | | | |
| | | | | | | 09589 | 40.27 | 41.27 | 1.00 | 340 | 286 | 4.0 | 6,116 | 86 | 590 | 9 | 4 | | | |
| | | | | | | 41.27 | 45.08 | QUARTZ-CARBONATE VEIN - Irregular sulphide mineralization - 0-10% chalcopyrite - 10-15% pyrite - 0-20% sphalerite - chalcopyrite occurs as massive patches 2 mm - 10 mm. - pyrite occurs as massive patches and disseminations - sphalerite - black, occurs as massive veins cut by small quartz carbonate veins or as matrix between chalcopyrite and pyrite | 09590 | 41.27 | 41.77 | 0.50 | 6.524% | 20.17 g/t | 306.0 g/t | 1.19% | 248 | 2,160 | 96 | 1 |
| | | | | | | | | | 09591 | 41.77 | 42.27 | 0.50 | 2.335% | 24.73 g/t | 164.1 g/t | 3.28% | 288 | 2,422 | 49 | 8 |
| 09592 | 42.27 | 42.77 | | | | | | | 0.50 | 2.457% | 15.17 g/t | 175.0 g/t | 6.48% | 536 | 4,352 | 58 | 38 | | | |
| | | | 09593 | 42.77 | 43.27 | 0.50 | 1.882% | 11.60 g/t | 159.5 g/t | 6.26% | 398 | 839 | 48 | 34 | | | | | | |
| | | | 09594 | 43.27 | 43.77 | 0.50 | 4.623% | 29.00 g/t | 240.9 g/t | 10.82% | 323 | 1,044 | 72 | 17 | | | | | | |
| | | | 09595 | 43.77 | 44.27 | 0.50 | 1.656% | 25.00 g/t | 223.6 g/t | 8.19% | 758 | 9,396 | 106 | 44 | | | | | | |
| | | | 09596 | 44.27 | 44.77 | 0.50 | 2.094% | 13.90 g/t | 147.0 g/t | 0.96% | 227 | 5,350 | 58 | 11 | | | | | | |
| | | | 09597 | 44.77 | 45.08 | 0.31 | 0.791% | 7.03 g/t | 64.9 g/t | 1.17% | 130 | 3,547 | 42 | 10 | | | | | | |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 41.27 | 45.08 Cont'd | <ul style="list-style-type: none"> - tuff blocks in vein have 2% finely disseminated pyrite - slight chloritic alteration, subangular tuff fragments throughout vein, 1 cm - 15 cm. - quartz/carbonate white-orange - quartz associated with chalcopyrite and pyrite - quartz/carbonate associated with sphalerite + chalcopyrite + pyrite | | | | | | | | | | | | |
| | | 41.27 - 41.77 m - predominantly pyrite and chalcopyrite in quartz carbonate vein. 1 cm-3 cm angular tuff fragments. Broken core. 35% pyrite, 10% chalcopyrite, <0.2% sphalerite, 20% tuff | | | | | | | | | | | | |
| | | 41.77 - 42.27 m - large tuff section (16 cm) disseminated and blebby pyrite with chalcopyrite and sphalerite patches in vein. Solid core. 15% pyrite, 5% chalcopyrite, 5% sphalerite, 25% tuff. | | | | | | | | | | | | |
| | | 42.27 - 42.77 m - massive pyrite/chalcopyrite/sphalerite to disseminated and blebby pyrite/chalcopyrite in vein. Lapilli tuff fragments. Very broken core @ 42.32 m. 10% pyrite, 5% chalcopyrite, 5% sphalerite, 30% tuff. | | | | | | | | | | | | |
| | | 42.77 - 43.27 m - 16 cm section of tuff - contact with vein - core angle = 46°. individual veins 2 cm - 4 cm, 1 massive sphalerite and pyrite vein (4 cm). Solid core. | | | | | | | | | | | | |
| | | 43.27 - 43.77 m - 10% pyrite, 5% chalcopyrite, 7% sphalerite, 45% tuff. predominantly mineralized vein with subangular tuff fragments sphalerite fills in between chalcopyrite and pyrite. | | | | | | | | | | | | |
| | | 43.77 - 44.27 m - 20% pyrite, 10% chalcopyrite, 15% sphalerite, 7% tuff. Irregular contact with tuff section, 20 mm massive sphalerite vein (core angle = 25°), cut and brecciated by later quartz-carbonate veining. Pyrite blebby to massive granular. Solid core. | | | | | | | | | | | | |
| | | 44.27 - 44.77 m - 10% pyrite, 1% chalcopyrite, 15% sphalerite, 10% tuff. sphalerite stringers (3 mm) brecciated and broken tuff plus vein - blebby chalcopyrite and pyrite. | | | | | | | | | | | | |
| | | 44.77 - 45.08 m - 15% pyrite, 5% chalcopyrite, 10% sphalerite, 30% tuff. zoned pyrite/sphalerite disseminated in tuff - vein has blebby and disseminated pyrite/sphalerite/chalcopyrite. | | | | | | | | | | | | |
| | | 45.08 m - 7% pyrite, 3% chalcopyrite, 5% sphalerite, 40% tuff. bottom contact? joint at contact?, core angle = 47° | | | | | | | | | | | | |
| 45.08 | 69.94 | MAFIC VOLCANICS (LAPILLI TUFFS) - Maroon to green. Subangular heterolithic clasts, dark green to maroon, matrix supported. Three ash layers. Lapilli fragments 2 mm to 30 mm in size. <0.2% quartz/carbonate stringers. Local iron carbonate alteration zones. <ul style="list-style-type: none"> 50.61 - 51.32 m - brecciation and calcite stringers 51.32 - 51.87 m - quartz/carbonate breccia/stockwork <1% sphalerite. 52.16 - 53.47 m - trace disseminated and blebby pyrite 63.89 - 65.51 m - zone of medium grained tuff, medium green with occasional elongated dark green mafic tuff fragments | 09598 | 45.08 | 46.08 | 1.00 | 200 | 43 | 1.8 | 1,029 | 25 | 55 | 5 | 1 |
| | | | 09599 | 46.08 | 47.08 | 1.00 | 99 | 61 | 1.0 | 243 | 23 | 53 | 5 | 1 |
| | | | 09618 | 47.08 | 49.08 | 2.00 | 142 | 6 | 1.9 | 24 | 37 | 29 | 2 | 1 |
| | | | 09619 | 49.08 | 51.32 | 2.24 | 103 | 19 | 0.5 | 26 | 51 | 69 | 2 | 1 |
| | | | 09600 | 51.32 | 51.87 | 0.55 | 57 | 37 | 0.6 | 67 | 40 | 53 | 4 | 1 |
| | | | 09620 | 51.87 | 53.87 | 2.00 | 214 | 11 | 1.4 | 26 | 102 | 28 | 1 | 1 |
| | | | 09621 | 53.87 | 55.87 | 2.00 | 141 | 3 | 0.8 | 20 | 44 | 15 | 1 | 1 |
| | | | 09622 | 55.87 | 57.87 | 2.00 | 15 | 4 | 0.8 | 17 | 54 | 21 | 1 | 1 |
| | | | 09623 | 57.87 | 59.87 | 2.00 | 6 | 8 | 0.7 | 15 | 59 | 17 | 1 | 1 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------|--------------------------------------|-------------------------|------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | As ppb | Ag ppm | Pb ppm | Zn ppm | Al ppm | Sb ppm | Mo ppm |
| 45.08 | 69.94 Cont'd | 64.76 m - 5 cm of brecciated black tuff? 5% quartz in matrix. 64.96 m - brecciated tuff, angular 0.5 cm - 1.0 cm fragments with quartz/carbonate and dark green (chlorite?) matrix. 65.26 - 65.36 m - brecciated tuff, 0.5 cm - 2.0 cm size fragments of tuff with dark green chlorite matrix, sharp upper contact, core angle = 30° Bedding: 47.03 m - 2 cm ash layer, core angle = 51° 53.41 m - 4 mm ash layer, core angle = 32° 68.69 m - maroon lapilli tuff layer, core angle = 75° Quartz-carbonate veins: 45.08 - 45.31 m - pyrite/chlorite alteration adjacent to vein - dark green 45.31 - 47.00 m - 1 mm-3 mm chlorite altered lithic fragments in tuff after interval grades to larger lapilli tuff. 45.74 m - 1 cm vein, core angle = 54° 45.80 m - brecciation of tuff by chlorite? foliation in chloritic matrix, core angle = 51°, parallel broken-quartz carbonate vein. 47.29 m - elongation of lapilli fragments, foliation, and 1 mm - 3 mm quartz carbonate veins 47.29 m - foliation, core angle = 50° 47.33 m - vein, core angle = 51° 47.40 m - elongation of lapilli fragments, core angle = 52° 55.65 m - 2 cm broken quartz vein, core angle = 40° 57.75 m - 3 cm brecciated quartz vein, core angle = 31° 66.09 m - 1 cm quartz vein with iron-carbonate alteration, core angle = 65° 66.14 m - 1 cm quartz vein, core angle = 40° 65.22 m - 2.5 cm quartz/carbonate vein, core angle = 30° Iron-carbonate alteration zones: 57.45 - 58.00 m - associated with fractures 2 per 10 cm 58.62 - 59.14 m - associated with gouge zones (fault?) 60.78 - 60.85 m - associated with joint 61.01 - 61.09 m - associated with joint and quartz vein 61.58 - 62.00 m - associated with badly fractured core 62.65 - 63.09 m - associated with badly broken core 63.89 - 64.44 m - weak alteration associated with fractures and badly broken core | 09624 09625 09626 09627 09628 | 59.87 61.87 63.87 65.87 67.87 | 61.87 63.87 65.87 67.87 | 2.00 2.00 2.00 2.00 2.00 | 13 5 27 5 4 | 2 1 61 9 3 | 0.7 0.2 1.0 0.6 0.8 | 11 16 20 17 17 | 65 73 60 44 36 | 15 10 22 12 14 | 1 1 2 1 1 | 1 1 2 1 1 |
| 69.94 | 75.28 | MAFIC VOLCANICS (TUFTS) - medium green - dark green, locally 3 mm lapilli fragments - 1% irregular quartz fracture fill (1 mm - 2 mm). Trace disseminated pyrite locally. 70.00 - 70.93 m - moderately broken core with 2% irregular quartz carbonate veins 72.02 - 72.61 m - gouge zone; badly broken core and tuff breccia in clay gouge. 72.96 - 73.31 m - gouge zone; clay gouge with tuff breccia, angle with fresh core = 25° 74.45 - 75.28 m - brecciated tuff - tuff matrix, foliation core angle = 52°, 3 mm irregular quartz vein, subparallel core axis 75.05 m - two - 3 mm ash layers bedding, core angle = 40° | 09629 09630 09631 | 69.87 71.87 73.87 | 71.87 73.87 75.28 | 2.00 2.00 2.00 | 87 52 160 | 2 6 20 | 0.8 0.2 0.5 | 20 21 20 | 80 66 50 | 20 15 27 | 1 1 2 | 1 1 1 |
| | 75.28 | END OF HOLE | | | | | | | | | | | | |

DRILL HOLE LOG

| | | | | | |
|------------------------------------------------------------------------------------------------------------|-------------------|-------------------------|---------|-------------|--------------------------------------|
| LOCATION: QC Vein (Upper Gordon Showing) | | DRILL HOLE NO.: QC-91-5 | | | |
| AZIMUTH: 230° | ELEVATION: | PROPERTY: DRYDEN QC | | | |
| INCLINATION: -65° | LENGTH: 99.36 m | CLAIM NO: QC-9 | | | |
| | CORB SIZE: BD-BGM | SECTION: | | | |
| STARTED: September 10, 1991 | | METREAGE | AZIMUTH | INCLINATION | CORR. INCLIN. |
| COMPLETED: September 11, 1991 | | 75.0 | | | 62° |
| PURPOSE: Test lateral extent of vein gold mineralization exposed in trench and intersected in DDH QC-91-4. | | | | | |
| CORE RECOVERY: 95.6% | | | | | |
| | | | | | LOGGED BY: M.G. Morrice |
| | | | | | DATED LOGGED: September 11-13, 1991 |
| | | | | | DRILLING CO.: Falcon Drilling Ltd. |
| | | | | | ASSAYED BY: Min-En Laboratories Ltd. |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 0 | 3.0 | OVERBURDEN (Casing) | | | | | | | | | | | | |
| 3.0 | 18.2 | MAFIC VOLCANIC - Flow?, Dyke? Very fine grained, aphyric, dark green, local 1-5 mm quartz-filled amygdules, 5-7% amygdules near contact with mafic lapilli tuffs down-hole. Amygdules are stretched parallel to contact, core angle = 36°. Contact is chilled over 3-4 cm, most likely intrusive, core angle of contact = 27°. Rock is variably altered (iron-carbonate) from nil to moderate - corresponds with change in colour from dark green to light brown cut by abundant narrow white quartz veins (1-6 mm), about 10 veins per 0.5 m - barren - core angles are steep, especially abundant from 11.0 - 12.2 m, 13.5 - 14.4 m. Quartz veins: core angle = 55° at 5.3 m core angle = 60° at 7.3 m core angle = 65° at 8.0 m core angle = 56° at 10.73 m core angle = 65° at 11.12 m core angle = 63° at 11.22 m core angle = 70° at 14.37 m core angle = 25° at 15.00 m core angle = 79° at 15.70 m core angle = 32° at 16.60 m core angle = 55° at 17.64 m | 9632 | 3.05 | 5.00 | 1.95 | 5 | 11 | 0.3 | 20 | 166 | 16 | 1 | 1 |
| | | | 9633 | 5.00 | 7.00 | 2.00 | 4 | 7 | 0.2 | 19 | 183 | 14 | 1 | 1 |
| | | | 9634 | 7.00 | 9.00 | 2.00 | 3 | 2 | 0.4 | 17 | 167 | 15 | 1 | 1 |
| | | | 9635 | 9.00 | 11.00 | 2.00 | 3 | 4 | 0.2 | 17 | 224 | 17 | 1 | 1 |
| | | | 9636 | 11.00 | 13.00 | 2.00 | 4 | 3 | 0.3 | 17 | 143 | 14 | 1 | 1 |
| | | | 9637 | 13.00 | 15.00 | 2.00 | 3 | 3 | 0.4 | 19 | 82 | 16 | 1 | 1 |
| | | | 9638 | 15.00 | 17.00 | 2.00 | 7 | 2 | 0.3 | 18 | 86 | 13 | 1 | 1 |
| | | | 9639 | 17.00 | 19.00 | 2.00 | 35 | 7 | 0.7 | 20 | 77 | 49 | 3 | 2 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 3.0 | 18.2 Cont'd | Also, several <0.5 - 3.0 cm wide quartz + iron-carbonate veins. - at 4.9 m - 4 cm wide with irregular, 1 cm wide limonite veins (after sulfides?), core angle = 54° - at 5.55 m - 0.5 cm wide with limonite (earthy, red-brown), core angle = 33° - at 4.63 m, 3 cm wide quartz - iron-carbonate vein, core angle = 44° - 7.5 - 8.9 m irregular quartz-carbonate veins ± limonite - at 10.47 m, 1 cm wide quartz + iron-carbonate vein, core angle = 45° - 12.9 - 13.3 - irregular quartz + iron-carbonate veins - at 15.05 m, 4 cm wide quartz + iron-carbonate vein, core angle = 58° - iron-carbonate alteration (weak to moderate) - 7.5-9.7 m, 12.85-13.5 m. - at 17.48 m, 1-1.5 cm quartz + iron-carbonate + limonite vein, core angle = 45° | | | | | | | | | | | | |
| 18.2 | 28.7 | MAFIC VOLCANICS (LAPILLI TUFFS, TUFFS) - heterolithic, poorly sorted, interbedded mafic tuffa. Clasts are 1 mm to 5 cm in diameter, subangular to subrounded, aphyric, plagioclase-phyric, hornblende-phyric, dark green, locally maroon, some maroon clasts in green matrix. Local thin mafic tuff interbeds. Lapilli tuff beds 5-20 cm thick. 24.4 - 24.84 m - ash and dust tuffa, thin-bedded (0.5 - 2.0 cm thick), core angle = 75°, graded - tops down-hole. 24.25 - 26.3 m - iron-carbonate alteration Quartz veins less abundant than previous interval (3.0-18.2 m), 1-20.5 m, ≤0.5 cm wide. Core angle = 40° at 19.25 m Core angle = 60° at 23.7 m Quartz + iron-carbonate veins, several in interval. Core angle = 12° at 20.12 m, 1 cm wide Core angle = 19° at 24.6 m, 0.5 cm wide 25.3 - 27.15 m - variably brecciated, hydrothermal? tectonic? with 1-3% disseminated pyrite + 0.5 cm wide quartz + pyrite ± minor galena veins at 26.45 (core angle = 40°) and 26.80 m (core angle = 15°). Both veins are broken up - local shearing of vein at 26.80 m, core angle = 15°. | 9640 9641 9642 9643 9644 | 19.00 21.00 23.00 25.00 27.00 | 21.00 23.00 25.00 27.00 29.00 | 2.00 2.00 2.00 2.00 2.00 | 164 43 372 148 74 | 9 2 2 4 2 | 0.9 0.7 0.9 1.3 0.3 | 20 16 20 37 17 | 110 72 107 1,036 218 | 29 24 30 24 9 | 2 1 2 1 1 | 1 1 2 4 1 |
| 28.7 | 71.5 | MAFIC VOLCANICS (TUFFS > LAPILLI TUFFS) - well-bedded interlayered mafic lapilli tuffa. Quartz, quartz-carbonate veins have decreased in frequency to about 1-2 /metre. Green to locally maroon, light orange-brown where pervasively altered to iron-carbonate (weak to moderate). Local brecciation and disruption of bedding. Trace-1% pyrite. Bedding at 29.75 m, core angle = 25° Note - weak calcite alteration - permeates + in narrow (<3 mm) veins. A lot of the brown discoloration is due to weathering - to clay - not sure how much iron-carbonate alteration is present. Locally well-foliated to schistose - well developed schistosity - 34.35 - 35.0 m (core angle = 25°) with 3-5% pyrite, broken up quartz veins, chlorite alteration - shear zone? 30.25 m - 3 cm wide quartz vein, core angle = 12°, within iron-carbonate altered section. 30.00 - 31.30 m - weak to moderate iron-carbonate alteration 31.35 - 31.70 m - trace - 10% disseminated pyrite in ash tuffa. | 9645 9646 9647 9648 9649 9650 9651 9652 9653 9654 9655 9656 9657 9658 | 29.00 31.00 33.00 35.00 36.15 37.15 37.15 37.65 38.65 40.65 42.65 44.65 46.65 47.85 49.30 | 31.00 33.00 35.00 36.15 37.15 37.65 38.65 40.65 42.65 44.65 46.65 47.85 49.30 51.30 | 2.00 2.00 2.00 1.15 1.00 0.50 1.00 2.00 2.00 2.00 2.00 1.20 1.45 2.00 | 56 81 68 27 54 8,096 87 69 116 126 81 32 2,465 136 | 8 3 39 5 2 9.90 g/t 10 2 7 12 2 14 412 6 | 0.8 0.9 0.9 0.8 1.3 79.6 1.0 0.9 1.0 0.9 0.6 0.5 6.9 1.1 | 16 20 23 19 22 66 19 19 19 22 22 31 51 26 | 267 83 69 168 1,169 35,326 1,121 1,058 734 599 445 1,099 4,387 602 | 14 17 23 12 12 131 12 10 22 24 46 29 128 20 | 1 1 1 1 1 25 1 1 1 1 1 1 2 1 | 1 1 1 1 1 5 1 1 1 1 1 1 5 3 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 28.7 | 71.5 | Note: branching dark maroon alteration in orange-brown iron-carbonate altered tuffs - looks dendritic - limonite? - spatially related to fractures - result of weathering. | 9659 | 51.30 | 53.30 | 2.00 | 141 | 3 | 0.6 | 20 | 456 | 7 | 1 | 2 |
| | Cont'd | - at 32.4 m, 1-2 cm wide quartz vein, core angle = 37° | 9660 | 53.30 | 56.30 | 3.00 | 95 | 2 | 0.7 | 23 | 365 | 13 | 1 | 1 |
| | | - at 32.6 m, 1 cm wide quartz vein, core angle = 90° | 9661 | 56.30 | 58.30 | 2.00 | 130 | 119 | 1.6 | 46 | 4,961 | 22 | 1 | 1 |
| | | 33.5 m - 2 cm quartz-pyrite vein,, 2-3% pyrite near vein margins, core angle = 12° | 9662 | 58.30 | 59.00 | 0.70 | 20 | 8 | 0.6 | 29 | 959 | 18 | 1 | 1 |
| | | | 9663 | 59.00 | 59.50 | 0.50 | 298 | 635 | 3.6 | 42 | 5,586 | 178 | 7 | 4 |
| | | | 9664 | 59.50 | 61.50 | 2.00 | 88 | 28 | 1.3 | 28 | 390 | 65 | 2 | 2 |
| | | 35.20 - 35.50 m - lapilli tuff with intensely sericitized plagioclase phenocrysts in clasts. | 9665 | 61.50 | 63.50 | 2.00 | 450 | 622 | 7.8 | 44 | 4,998 | 90 | 2 | 1 |
| | | 37.15 - 37.65 m - chlorite altered mafic tuffs - moderate to intense, with an 8 cm (true width) pyrite - sphalerite - chalcopyrite vein, core angle = 25°, from 37.37-37.54 cm. | 9666 | 63.50 | 65.50 | 2.00 | 18 | 23 | 0.8 | 19 | 173 | 36 | 1 | 1 |
| | | | 9667 | 65.50 | 67.50 | 2.00 | 113 | 6 | 0.8 | 20 | 62 | 15 | 1 | 1 |
| | | | 9668 | 67.50 | 69.50 | 2.00 | 64 | 8 | 0.7 | 19 | 56 | 17 | 1 | 1 |
| | | 37.9 - 38.4 m - irregular quartz + iron-carbonate veins \leq 0.5 cm wide. | 9669 | 69.50 | 71.50 | 2.00 | 85 | 2 | 0.8 | 19 | 50 | 14 | 1 | 1 |
| | | 38.65 - 46.45 m - variably discoloured to light orange-brown, especially intense from 40.5 - 41.45 - related to two clay gouge zones in this interval - faults? 1 cm wide at 40.75, core angle = 28°, 15 cm wide (core length) at 41.4 m, core angle = 25° | | | | | | | | | | | | |
| | | 40.1 - 40.6 m - 2-3% disseminated pyrite and fracture-controlled pyrite. | | | | | | | | | | | | |
| | | 45.8 - 46.2 m - brecciated with dark green mineral on fractures-chlorite. 2% disseminated pyrite. | | | | | | | | | | | | |
| | | 47.85 - 49.3 m - variably chloritized mafic tuffs with several 1-3 mm pyrite \pm sphalerite \pm chalcopyrite \pm quartz veins. | | | | | | | | | | | | |
| | | 49.45 - 49.55 m - narrow (<2 mm) irregular, broken calcite vein stockwork. | | | | | | | | | | | | |
| | | 49.6 m - clay gouge zone, core angle = 45° | | | | | | | | | | | | |
| | | 49.65 m - 1 cm wide quartz vein, core angle = 62° | | | | | | | | | | | | |
| | | 49.8 m - clay gouge zone, core angle = 30° | | | | | | | | | | | | |
| | | 50.6 - 51.3 m - variable chlorite alteration - causing brecciation | | | | | | | | | | | | |
| | | 51.6 m - quartz + iron-carbonate vein (1 cm wide), core angle = 32° | | | | | | | | | | | | |
| | | 52.8 m - quartz + iron-carbonate vein, core angle = 30° | | | | | | | | | | | | |
| | | 54.0 m - bedding, mm-cm scale, in ash tuffs, core angle = 50° | | | | | | | | | | | | |
| | | 54.5 - 55.3 m - 2% disseminated pyrite in tuffs. | | | | | | | | | | | | |
| | | 56.7 - 57.3 m - tuffs are pale green-grey. | | | | | | | | | | | | |
| | | 57.07 m - 1.5 cm wide quartz-pyrite-sphalerite vein, core angle = 30° | | | | | | | | | | | | |
| | | 57.35 m - 2 mm wide pyrite-sphalerite vein | | | | | | | | | | | | |
| | | 57.4-58.58 m - 2-3% disseminated pyrite | | | | | | | | | | | | |
| | | 50.15 m - 2 cm wide quartz-iron carbonate-pyrite-sphalerite(?) vein, core angle = 70° | | | | | | | | | | | | |
| | | 59.4 m - 2 cm wide quartz-iron-carbonate-pyrite-sphalerite(?)-arsenopyrite(?) vein, core angle = 63° | | | | | | | | | | | | |
| | | 59.3 m - quartz-arsenopyrite(?) vein - possible arsenopyrite is very fine grained, steel grey colour - 1.5 cm wide, core angle = 60° | | | | | | | | | | | | |
| | | 59.9 m - 5 cm wide clay fault gouge, core angle = 35° | | | | | | | | | | | | |
| | | 59.55 - 60.15 m - five, 0.5-2.0 cm wide quartz veins - broken | | | | | | | | | | | | |
| | | 60.0 m - clay gouge - 3 cm wide, core angle = 15° | | | | | | | | | | | | |
| | | 61.65 - 62.05 m - 5-10% pyrite in <0.5 cm pyrite \pm quartz veins | | | | | | | | | | | | |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------|---------------------------------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 28.7 | 71.5 Cont'd | Light orange-brown discolouration: 59.70 - 60.20 m, 62.20 - 63.20 m, 65.50 - 66.30 m, 66.60 - 67.50 m, 69.05 - 69.15 m, 69.38 - 69.50 m, 70.36 - 71.00 m 62.90 m - irregular 2-3 cm wide quartz vein + several calcite veins 65.00 m - bedding (cm thick), core angle = 52°, possible grading - tops up-hole 66.76 m - 0.5 cm wide quartz vein, core angle = 65° 69.50 - 70.10 m - well bedded tuffs and lapilli tuffs with angular dark green lithic clasts - bed <1 - 5-10 cm thick, bedding - core angle = 58° 69.90 - 69.95 m - brecciated (hydrothermal) with dark chlorite between fragments | | | | | | | | | | | | |
| 71.5 | 84.4 | MAFIC VOLCANICS (LAPILLI TUFFS > TUFFS) - angular, dark green clasts, sericitized. Mostly maroon and green lapilli tuffs (mafic) with interbedded mafic tuffs. Some of fragments up to 10 cm in diameter. 70.93 - 72.45 m - maroon lapilli tuffs, ash tuffs - mafic feldspar - phytic lapilli - plagioclase intensely sericitized. 74.30 - 74.45 m - 2 - 1 cm wide quartz veins - brecciated. 75.70 - 75.85 m - irregular 1-2.5 cm wide quartz veins 76.00 - 76.15 m - several quartz veins with purple colour (hematite) - ≤1 cm wide parallel to core axis. 80.0 - 80.75 m - light orange-brown discolouration 80.5 m - 3 cm wide zone of brecciated quartz vein + chlorite alteration, core angle = 30° 80.80 - 81.05 - 2.5 cm wide quartz vein - slightly brecciated, core angle = 0.5° 84.90 - 85.50 mm - 20 thin, ≤2 mm calcite veins in maroon lapilli tuff, core angle = 62° (average) | 9670 9671 9672 9673 9674 9675 9676 | 71.50 73.50 75.50 77.50 79.50 81.50 83.50 | 73.50 75.50 77.50 79.50 81.50 83.50 85.50 | 2.00 2.00 2.00 2.00 2.00 2.00 2.00 | 9 5 4 6 14 32 218 | 3 2 9 2 7 8 141 | 0.3 0.5 0.5 0.5 0.5 0.5 2.4 | 17 16 19 16 22 18 26 | 51 44 43 34 44 43 82 | 14 8 17 10 11 11 29 | 1 1 1 1 1 1 3 | 1 1 1 1 1 1 1 |
| 84.4 | 87.6 | MAFIC VOLCANICS (TUFFS) - ash-size, maroon and green, well-bedded, <1 cm - 3-5 cm thick. 84.6 m - 6 cm wide quartz-pyrite-chalcopyrite vein 85.5 m - 1 cm wide breccia zone, core angle = 33° 85.8 m - 1.5 cm wide quartz-pyrite vein, core angle = 55° 86.5 m - bedding, core angle = 55°. Goods tops up-hole - grading, loading. 87.5 m - 0.5 cm quartz vein, core angle = 50° | 9677 | 85.5 | 87.5 | 2.0 | 12 | 19 | 0.3 | 22 | 48 | 19 | 1 | 1 |
| 87.6 | 89.86 | MAFIC VOLCANICS (LAPILLI TUFFS > TUFFS) - maroon and light green clasts, angular, clast - supported, poorly sorted, interbedded ash tuffs. 89.67 m - 0.5 cm wide quartz - pyrite vein, core angle = 55° | 9678 | 87.5 | 89.5 | 2.0 | 20 | 17 | 0.5 | 25 | 79 | 73 | 1 | 1 |

| METREAGE | | DESCRIPTION | SAMPLE NO. | METREAGE | | LENGTH | ANALYSES | | | | | | | |
|----------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| FROM | TO | | | FROM | TO | | Cu ppm | Au ppb | Ag ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Mo ppm |
| 89.86 | 99.36 | MAFIC VOLCANICS (TUFFS > LAPILLI TUFFS) - maroon and light green cut by abundant, irregular <1 cm calcite veins. 90.00 m - 1-2 cm wide sphalerite-quartz-albite?-pyrite vein, sphalerite concentrated in vein centre, core angle = 35° 90.20 - 90.3 - Two, 1-2 cm wide quartz-albite?-pyrite veins Local schistose zones: 94.25 m - core angle = 65° 98.80 m - clay gouge, shear zone, 30 cm wide core length (core angle = 25°). Brecciated locally with calcite stockworks 91.00 - 91.35 m - 10-12% disseminated + fracture-controlled pyrite. | 9679 | 89.50 | 90.50 | 1.00 | 214 | 599 | 1.2 | 35 | 5,808 | 52 | 1 | 1 |
| | | | 9680 | 90.50 | 92.50 | 2.00 | 13 | 24 | 0.6 | 23 | 103 | 38 | 1 | 1 |
| | | | 9681 | 92.50 | 94.50 | 2.00 | 86 | 3 | 1.0 | 19 | 58 | 26 | 1 | 1 |
| | | | 9682 | 94.50 | 96.50 | 2.00 | 33 | 10 | 1.0 | 22 | 59 | 24 | 1 | 1 |
| | | | 9683 | 96.50 | 98.50 | 2.00 | 43 | 9 | 1.2 | 18 | 52 | 25 | 1 | 3 |
| | | | 9684 | 98.50 | 99.36 | 0.86 | 81 | 8 | 1.9 | 33 | 39 | 25 | 1 | 2 |
| | 99.36 | END OF HOLE | | | | | | | | | | | | |

APPENDIX XII

Drill Core Geochemical Results



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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0681-XA1

Company: **KEEWATIN ENGRG.**
Project: **QC 188**
Attn: **B. WHELAN/M. MORRICE**

Date: **SEP-19-91**
Copy 1. **KEEWATIN ENGRG., VANCOUVER, B.C.**
2. **KEEWATIN ENGRG., WINNIPEG, MAN.**

We hereby certify the following Assay of 15 PULP samples submitted SEP-18-91 by M.MORRICE.

| Sample Number | Cu % |
|---------------|------|
| 9403 | .134 |
| 9404 | .280 |
| 9405 | .226 |
| 9406 | .199 |
| 9407 | .243 |
| 9408 | .244 |
| 9409 | .236 |
| 9410 | .345 |
| 9411 | .309 |
| 9412 | .412 |
| 9413 | .354 |
| 9414 | .248 |
| 9415 | .323 |
| 9416 | .346 |
| 9417 | .291 |

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FAX (604) 980-9621

SMITHERS LAB.:
3776 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0719-RA1

Company: **KEEWATIN ENGRG.**
Project: 188
Attn: B. WHELAN/M. MORRICE

Douglas / Linnup

Date: **SEP-14-91**

- Copy 1. KEEWATIN ENGRG, VANCOUVER, B.C.
2. KEEWATIN ENGRG, C/O WINNIPEG, MAN.
3. KEEWATIN ENGRG, C/O MIN-EN LABS.

We hereby certify the following Assay of 13 CORE samples submitted SEP-09-91 by M.MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton | CU % |
|----------------|------------------|-----------------|------|
| 91 MM 188 9418 | .11 | .003 | .350 |
| 91 MM 188 9419 | .12 | .004 | .424 |
| 91 MM 188 9420 | .02 | .001 | .145 |
| 91 MM 188 9421 | .03 | .001 | .350 |
| 91 MM 188 9422 | .04 | .001 | .241 |
| 91 MM 188 9423 | .05 | .001 | .260 |
| 91 MM 188 9424 | .16 | .005 | .238 |
| 91 MM 188 9425 | .11 | .003 | .149 |
| 91 MM 188 9426 | .13 | .004 | .110 |
| 91 MM 188 9427 | .02 | .001 | .039 |
| 91 MM 188 9428 | .06 | .002 | .003 |
| 91 MM 188 9429 | .09 | .003 | .169 |
| 91 MM 188 9430 | .04 | .001 | .017 |

*AU = 1 ASSAY TON.

Certified by *Bon maib*



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FAX (604) 980-9621

SEP 19 1991

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0761-RA2

Company: **KEEWATIN ENGRG/**
Project: **DC 188**
To: **B. WHELAN/M. MORRICE**

Date: **SEP-17-91**

- Copy 1. **KEEWATIN ENGRG., VANCOUVER, B.C.**
2. **KEEWATIN ENGRG., WINNIPEG, MAN.**
3. **KEEWATIN ENGRG., C/O MIN-EN LABS.**

We hereby certify the following Assay of 1 ROCK samples submitted SEP-12-91 by M. MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|---------------|---------------------|--------------------|
| -09588 | 2.00 | .058 |

AU - 1 ASSAY TON.

Certified by _____

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SMITHERS LAB.:
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SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0761-RA1

Company: **KEEWATIN ENGRG/**
Project: **QC 188**
To: **B. WHELAN/M. MORRICE**

Date: **SEP-17-91**

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
- 2. KEEWATIN ENGRG., WINNIPEG, MAN.
- 3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 8 DRILL CORE samples submitted SEP-12-91 by M. MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|---------------|------------------|-----------------|
| -09590 | 20.17 | .588 |
| -09591 | 24.73 | .721 |
| -09592 | 15.17 | .442 |
| -09593 | 11.60 | .338 |
| -09594 | 29.00 | .846 |
| -09595 | 25.00 | .729 |
| -09596 | 13.90 | .405 |
| -09597 | 7.03 | .205 |

*AU - 1 ASSAY TON.

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FAX (604) 980-9621

SMITHERS LAB.:
3176 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Assay Certificate

1S-0761-XA1

Company: **KEEWATIN ENGRG.**
Project: **DC 188**
Attn: **B. WHELAN/M. MORRICE**

Date: **SEP-19-91**

Copy 1. **KEEWATIN ENGRG., VANCOUVER, B.C.**
2. **KEEWATIN ENGRG., WINNIPEG, MAN.**

We hereby certify the following Assay of 8 PULP samples
submitted SEP-18-91 by M. MORRICE.

| Sample Number | AG g/tonne | AG oz/ton | CU % | ZN % |
|---------------|---------------|--------------|---------|---------|
| 1-09590 | 306.0 | 8.93 | 6.524 | 1.19 |
| 1-09591 | 164.1 | 4.79 | 2.335 | 3.28 |
| 1-09592 | 175.0 | 5.10 | 2.457 | 6.48 |
| 1-09593 | 159.5 | 4.65 | 1.882 | 6.26 |
| 1-09594 | 240.9 | 7.03 | 4.623 | 10.82 |
| 1-09595 | 223.6 | 6.52 | 1.656 | 8.15 |
| 1-09596 | 147.0 | 4.29 | 2.094 | .96 |
| 1-09597 | 64.9 | 1.89 | .781 | 1.17 |

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 FAX (604) 980-9621

SMITHERS LAB.:
 3176 TATLOW ROAD
 SMITHERS, B.C. CANADA V0J 2N0
 TELEPHONE (604) 847-3004
 FAX (604) 847-3005

Assay Certificate

1S-0792-RA1

Company: **KEEWATIN ENGRG.**
 Project: 188
 Attn: B. WHELAN/M. MORRICE

Date: **SEP-20-91**

- Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
 2. KEEWATIN ENGRG., WINNIPEG, MAN.
 3. KEEWATIN ENGRG., C/O MIN-EN LABS.

We hereby certify the following Assay of 1 CORE samples submitted SEP-16-91 by M.MORRICE.

| Sample Number | *AU-FIRE g/tonne | *AU-FIRE oz/ton |
|---------------|------------------|-----------------|
| 9650 | 9.90 | .289 |

*AU - 1 ASSAY TON.

Certified by 
 MIN-EN LABORATORIES

APPENDIX XIII

Geophysical Results

KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 10000N

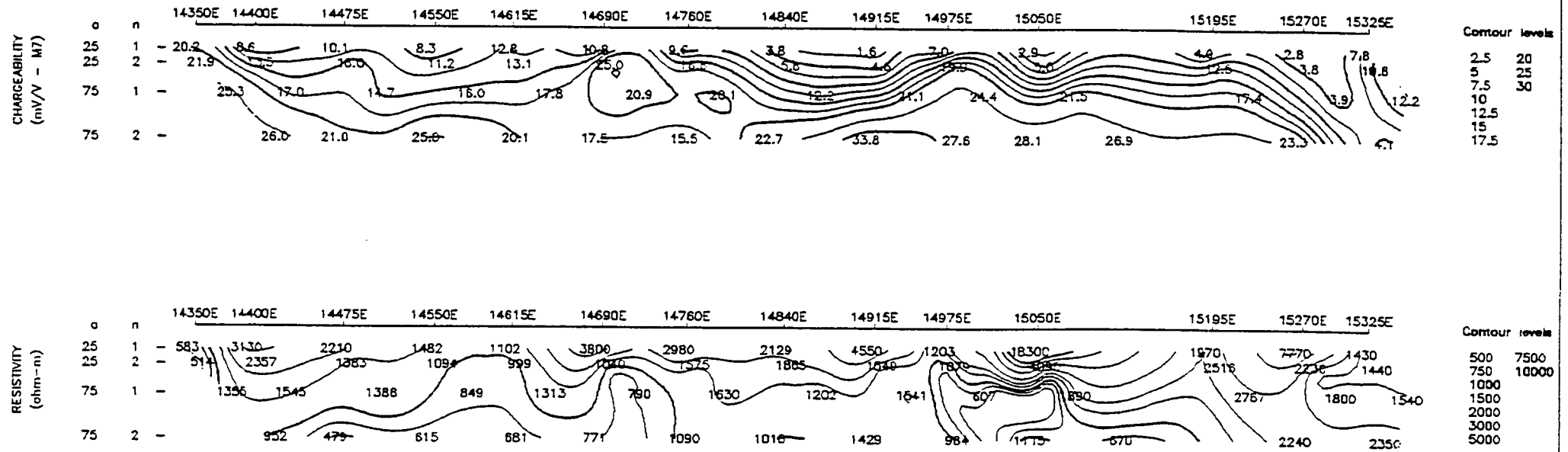
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
Scintrex IPR-11

SCOTT GEOPHYSICS LTD.

July/91

Pulse Rate: 2 sec

current electrode west of potential electrodes
gaps in survey coverage due to deep snow patches



LINE: 10000N

KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

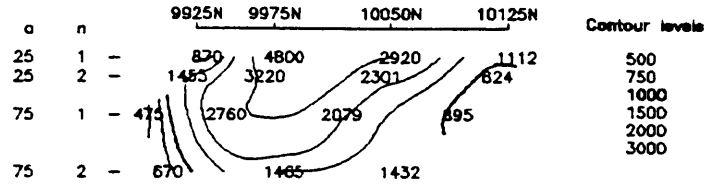
LINE: 14350E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD. Scintrex IPR-11
 July/91 Pulse Rate: 2 sec

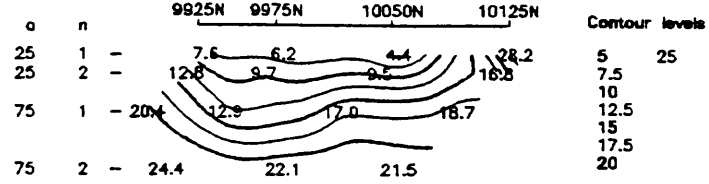
current electrode north of potential electrodes
 gaps in survey coverage due to deep snow patches



RESISTIVITY
(ohm-m)



CHARGEABILITY
(mV/V - M7)



LINE: 14350E

KEEWATIN ENGINEERING INC.

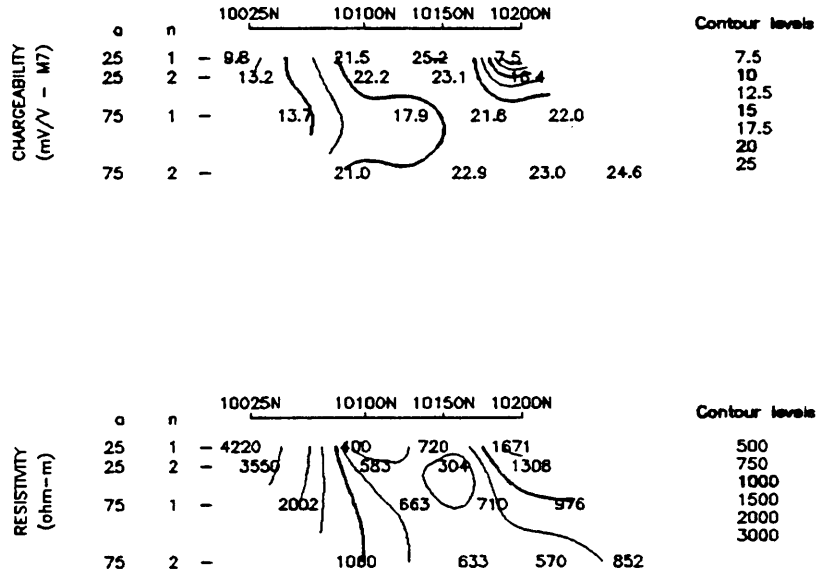
QUASH CREEK PROJECT, B.C.

LINE: 14400E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 Scintrex IPR-11
 SCOTT GEOPHYSICS LTD.
 July/91

Pulse Rate: 2 sec

current electrode south of potential electrodes
 gops in survey coverage due to deep snow patches



LINE: 14400E

KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 14400E

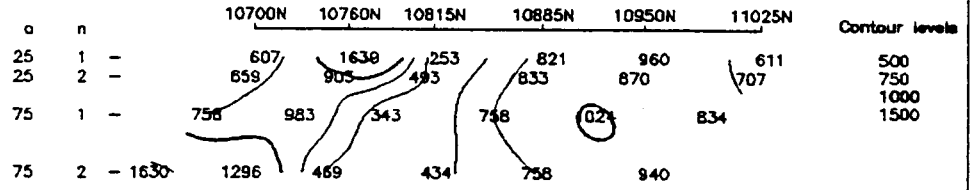
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 Scintrex IPR-11
 SCOTT GEOPHYSICS LTD.
 July/91

Pulse Rate: 2 sec

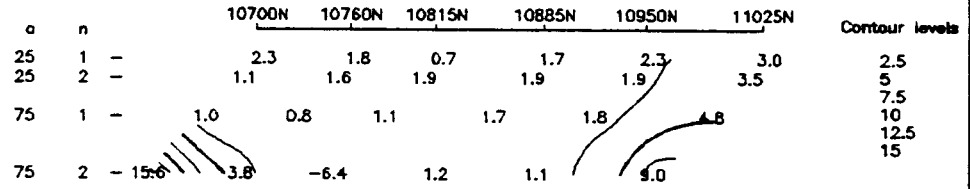
current electrode north of potential electrodes
 gaps in survey coverage due to deep snow patches



RESISTIVITY
(ohm-m)



CHARGEABILITY
(mV/V - M7)



LINE: 14400E

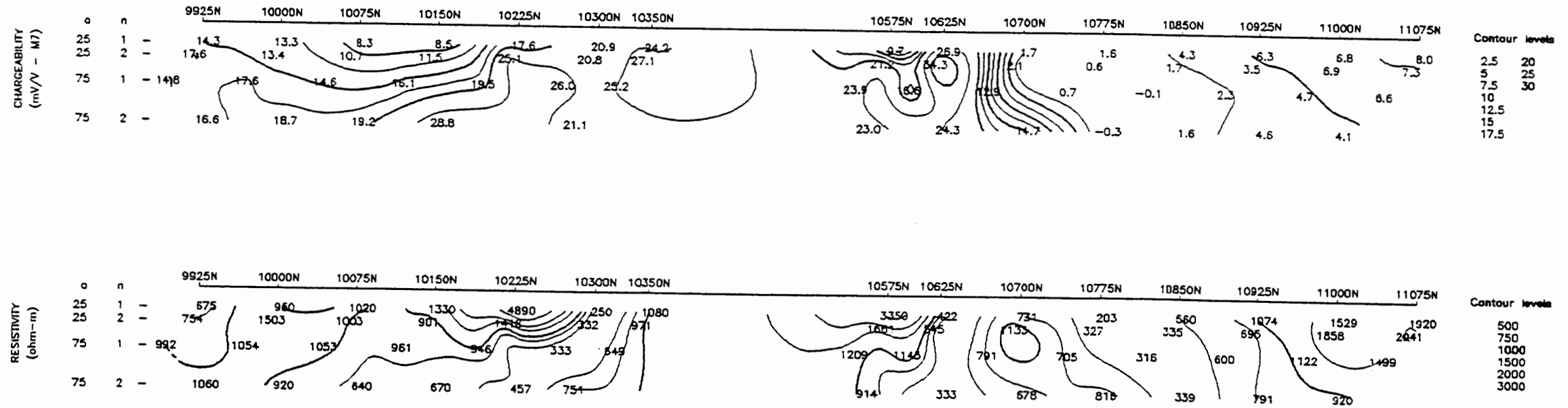
KLLWAIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 14600E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD.
 July/91

Pulse Rate: 2 sec
 current electrode north of potential electrodes
 gaps in survey coverage due to deep snow patches



LINE: 14600E

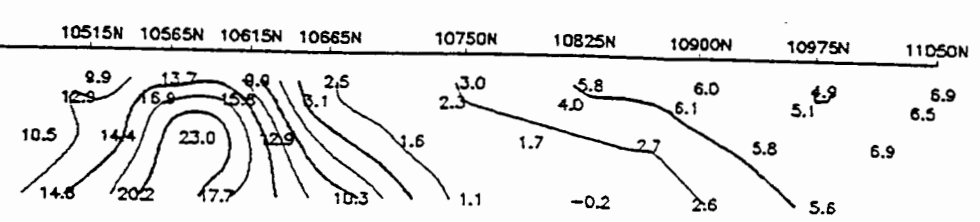
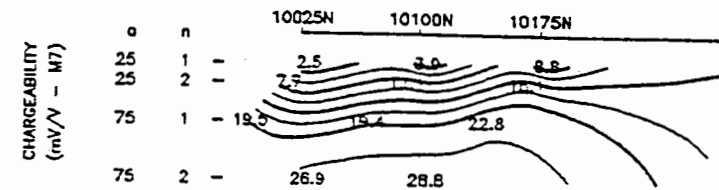
KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 14800E

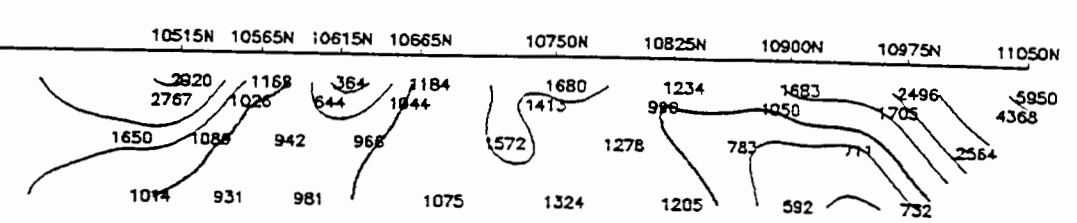
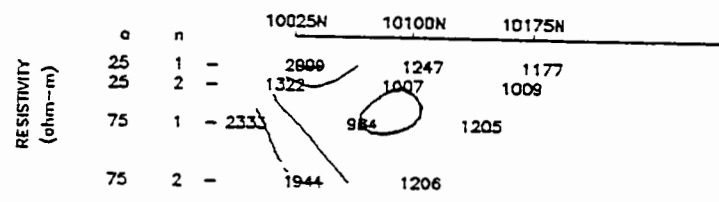
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD.
Scintrex IPR-11
July/91

Pulse Rate: 2 sec
current electrode north of potential electrodes
gaps in survey coverage due to deep snow patches



Contour levels

| | |
|------|----|
| 2.5 | 20 |
| 5 | 25 |
| 7.5 | |
| 10 | |
| 12.5 | |
| 15 | |
| 17.5 | |



Contour levels

| |
|------|
| 500 |
| 750 |
| 1000 |
| 1500 |
| 2000 |
| 3000 |
| 5000 |

LINE: 14800E

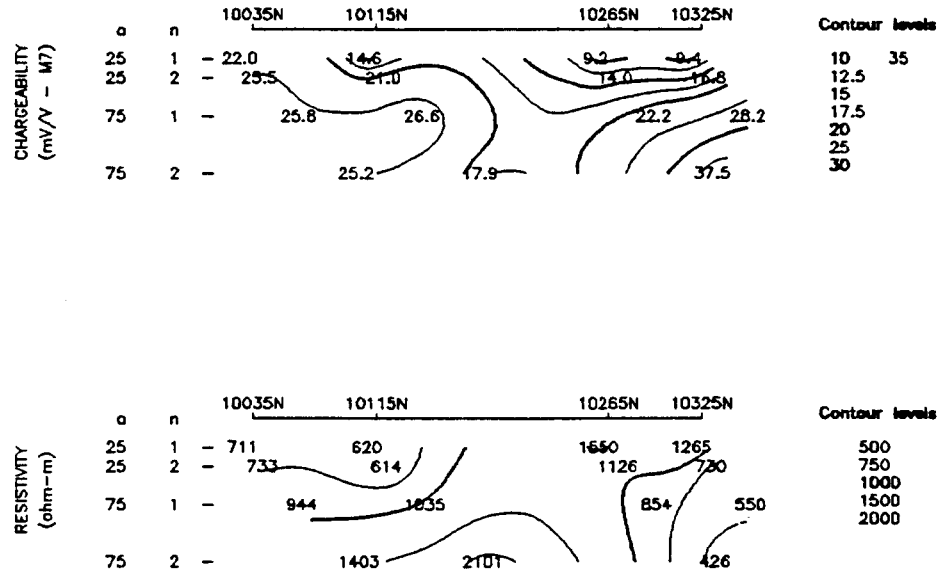
KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 14700E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD. Scintrex IPR-11
 July/91 Pulse Rate: 2 sec

current electrode south of potential electrodes
 gaps in survey coverage due to deep snow patches



LINE: 14700E

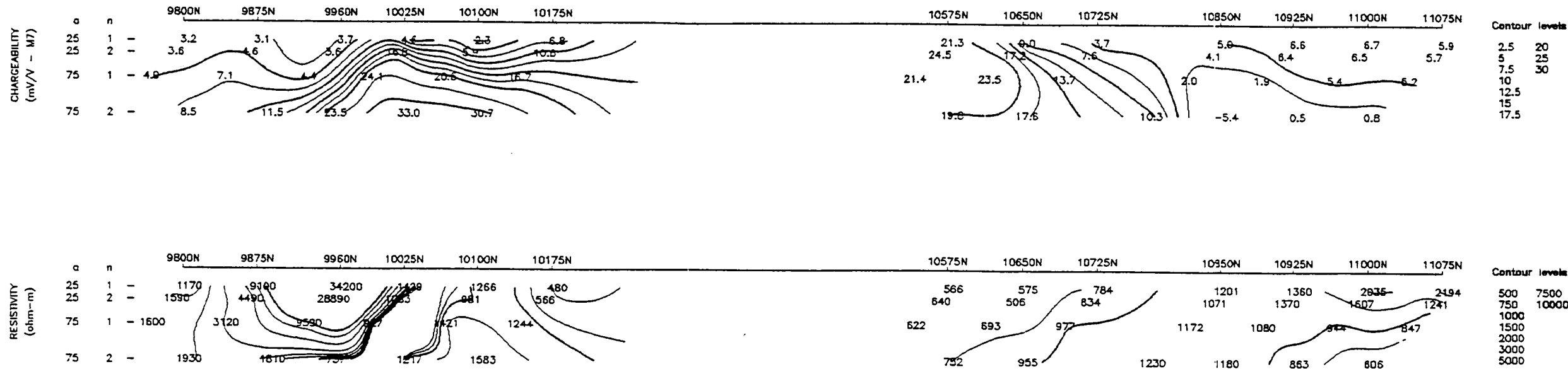
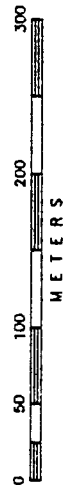
KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 15000E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 Scintrex IPR-11
 SCOTT GEOPHYSICS LTD.
 July/91

Pulse Rate: 2 sec
 current electrode north of potential electrodes
 gaps in survey coverage due to deep snow patches



LINE: 15000E

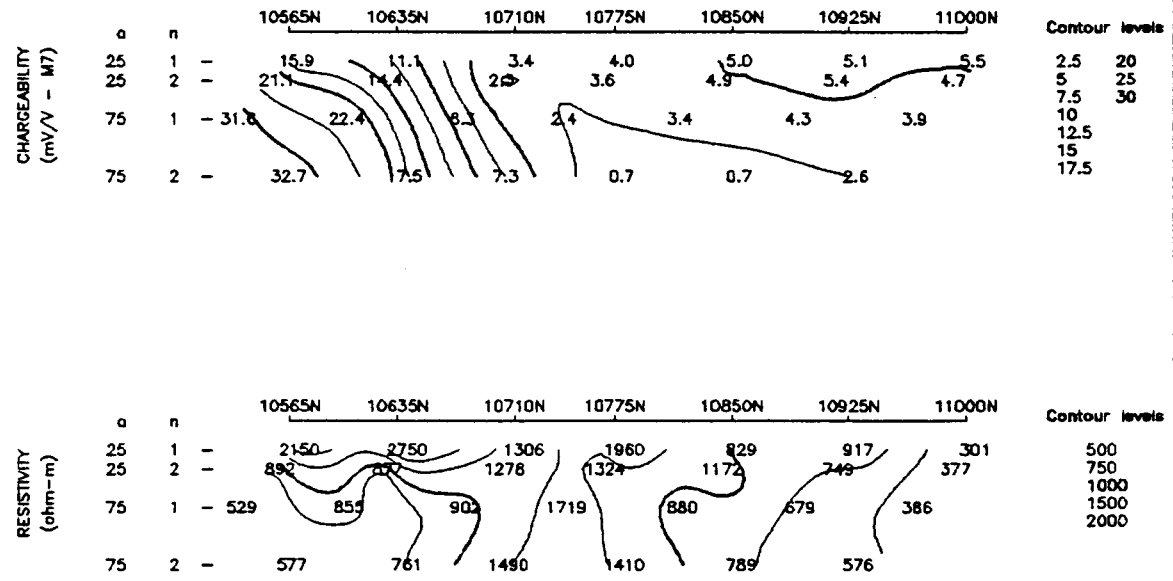
KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 15200E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD.
 July/91
 Scintrex IPR-11
 Pulse Rate: 2 sec

current electrode north of potential electrodes
 gaps in survey coverage due to deep snow patches



LINE: 15200E

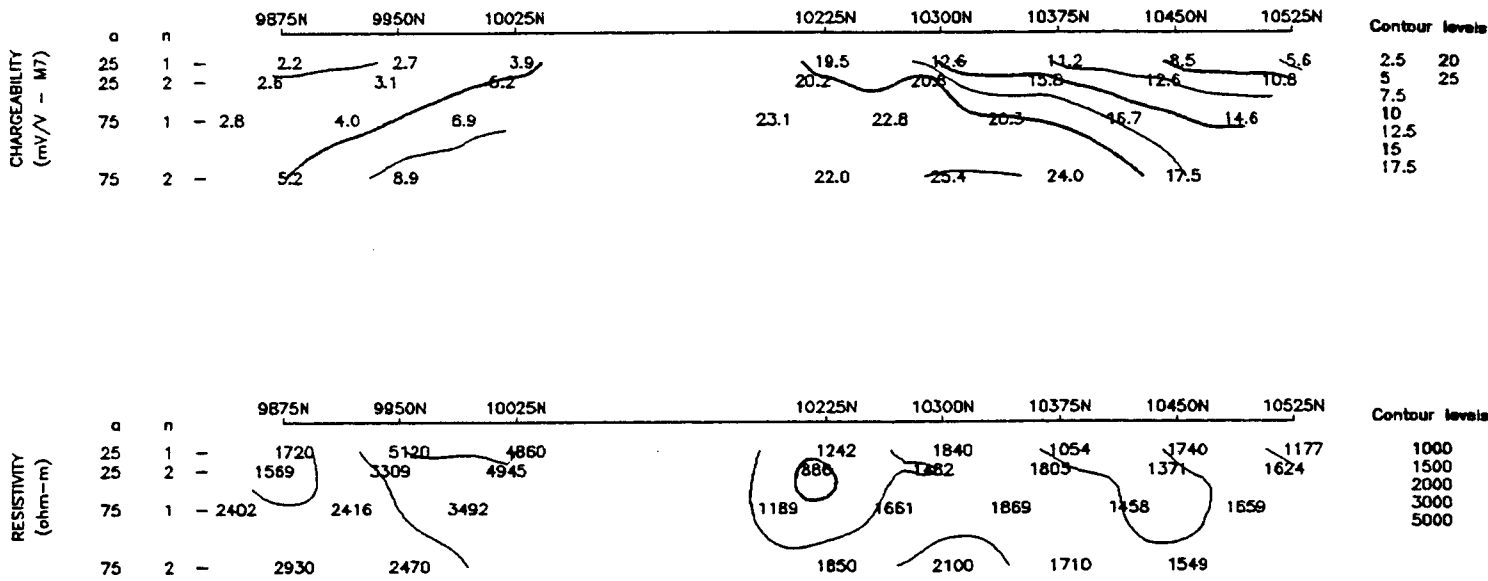
KEEWATIN ENGINEERING INC.

QUASH CREEK PROJECT, B.C.

LINE: 15400E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 Scintrex IPR-11
 Pulse Rate: 2 sec
 July/91

current electrode north of potential electrodes
 gaps in survey coverage due to deep snow patches



LINE: 15400E

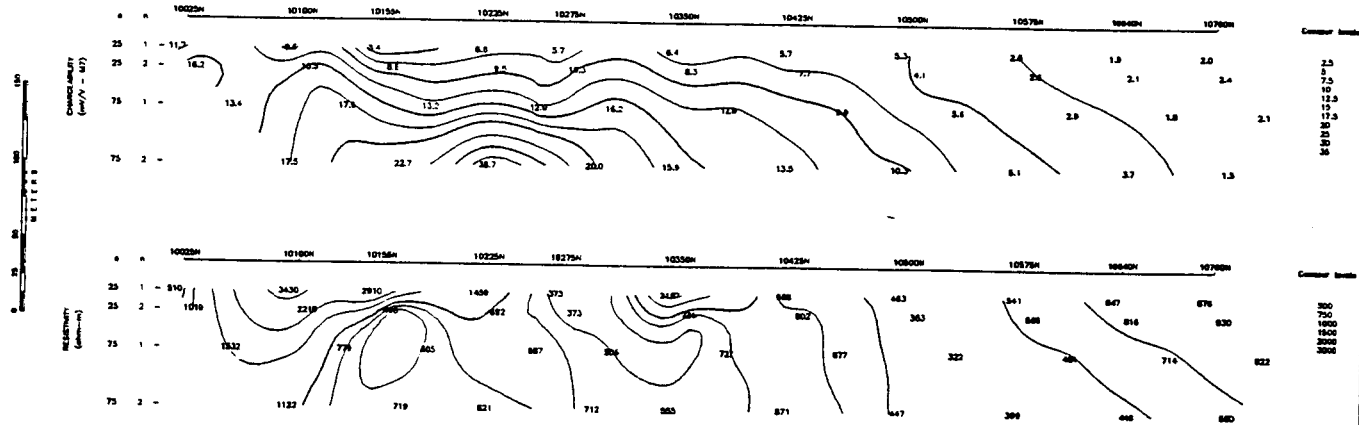
KEEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 13000E

INDUCED POLARIZATION SURVEY (Paw-Dipole Array)
 SCOTT GEOPHYSICS LTD. Schreiber, MB-11
 9/26/71 Pulse Rate 7 sec

current electrode south of potential electrodes



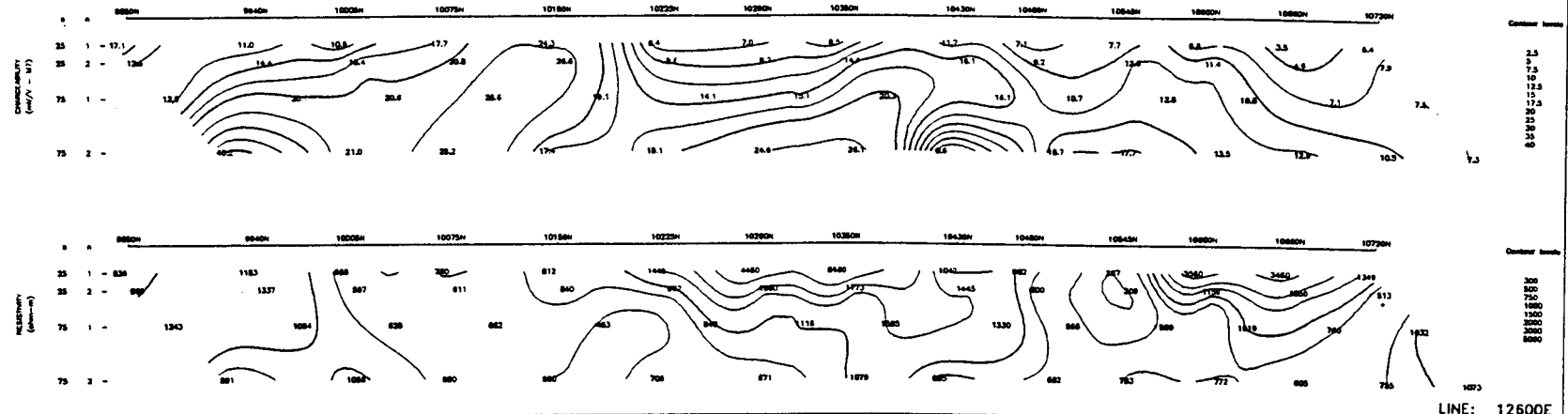
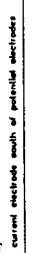
LINE: 13000E

KEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 12600E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD. Schellie 896-11
 91/09/11 Pulse Rate: 7 sec
 current electrode south of potential electrodes



LINE: 12600E

KEEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

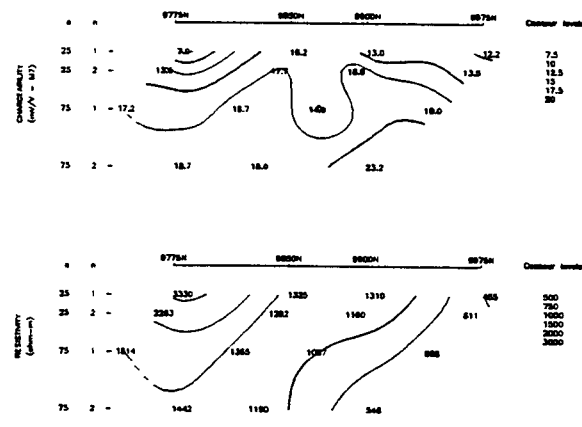
LINE: 12600E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)

SCOTT SERVICES LTD. Scale: 1:11

9/20/11 Paper Ref: 2 sec

current electrode north of potential electrodes



LINE: 12600E

KEWATIN ENGINEERING INC.

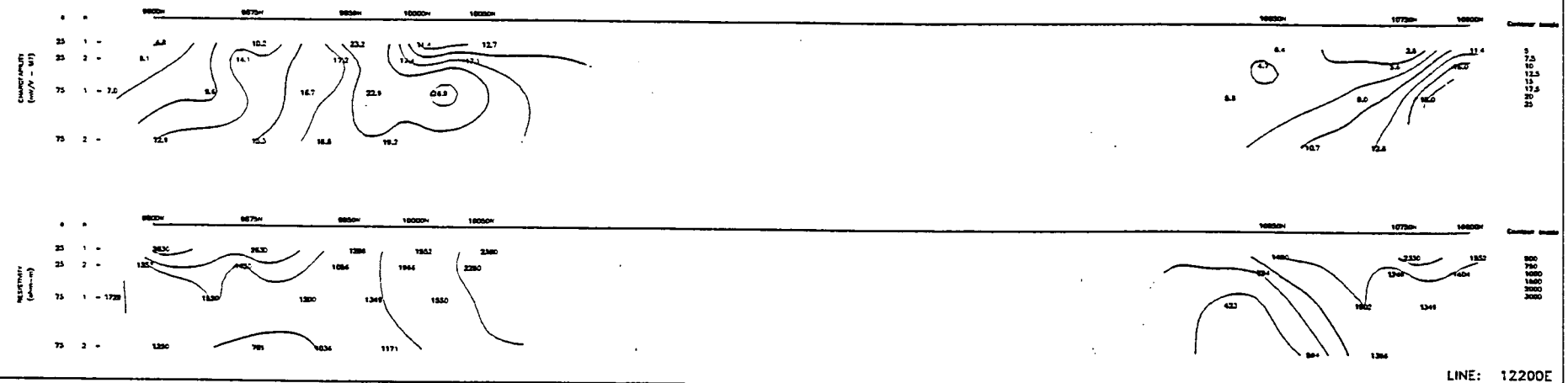
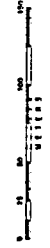
QUASIT CREEK PROPERTY, WEST GRID

LINE: 12200E

REVISED POLARIZATION SURVEY (Pole-Dipole Array)

SECHU ELECTRICS LTD.
9/10/97/11
Pulse Rate: 2 sec

current electrode north of potential electrodes



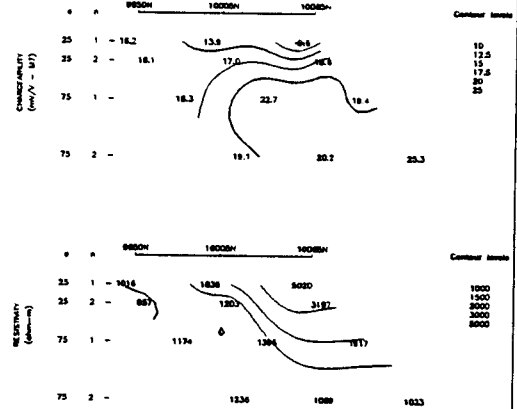
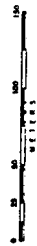
LINE: 12200E

KEEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 12200E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD.
 91/08/11
 Scale: 1:500
 Date: 08/11
 Current electrode south of potential electrodes



LINE: 12200E

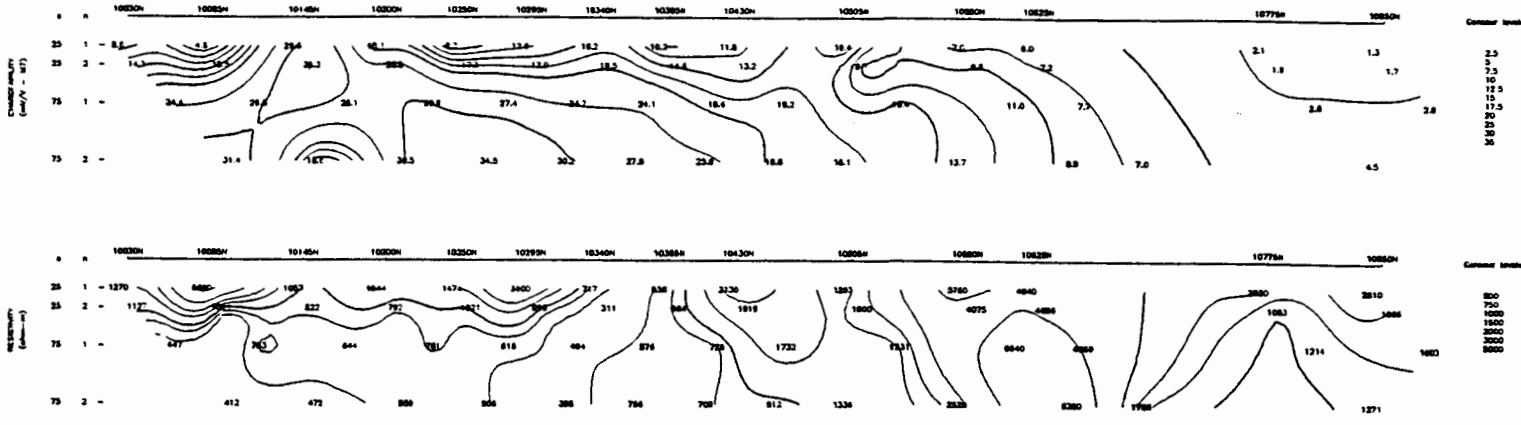
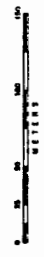
KEEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 11800E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD. 899-11
 91/09/11
 Pulse Rate: 2 sec

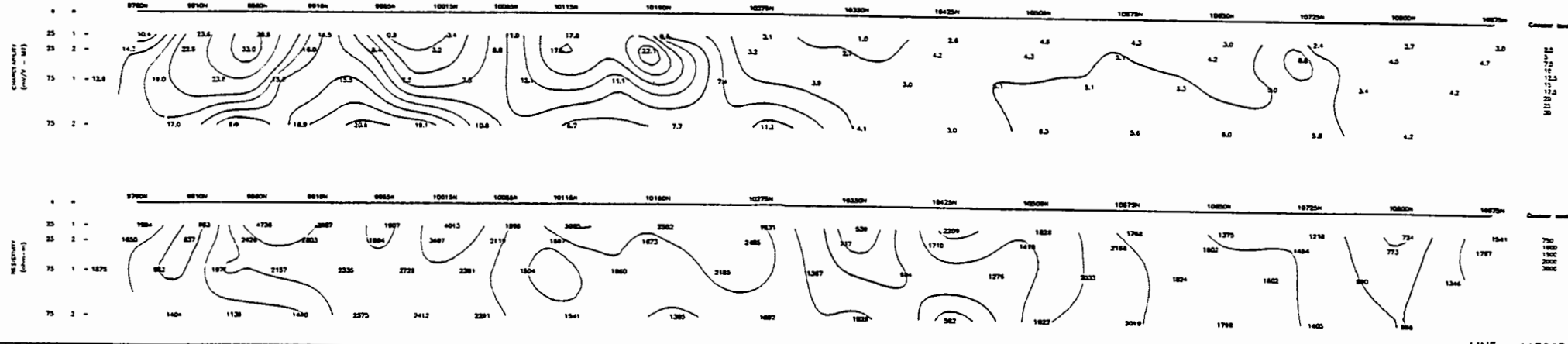
current electrode south of potential electrodes



LINE: 11800E

KEEWATIN ENGINEERING INC.
QUASH CREEK PROPERTY, WEST GRID

LINE: 1130E
 REVEALED POLYMERIZATION SURFAC (Per-Depth Min)
 SCOTT GLOVER'S LTD (Per-Depth Min) 9/1/09/11
 Pave Rate 2 sec
 current elevations north of parking area/lot

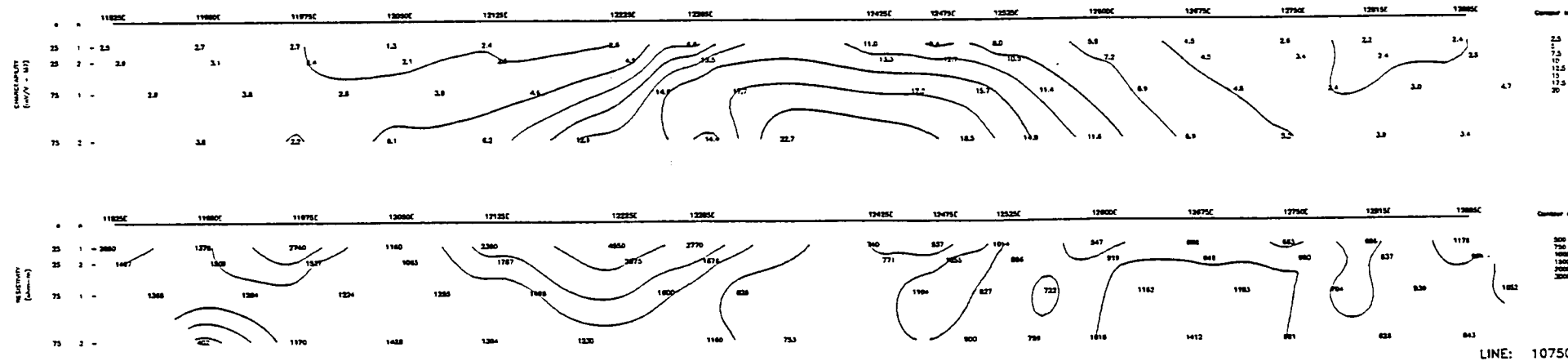
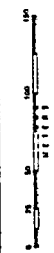


KEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 10750N

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOPHYSICS LTD. Schurz, Regina, SASK
 9/20/81
 current electrode west of potential electrodes



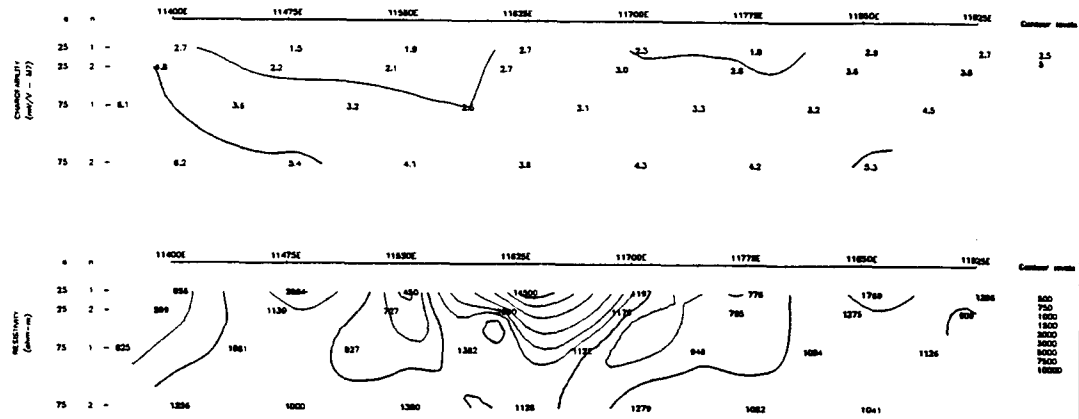
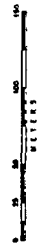
LINE: 10750N

KEEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 10750N

REDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCHLUMBERGER LTD.
 9/10/71
 current electrode east of potential electrodes



LINE: 10750N

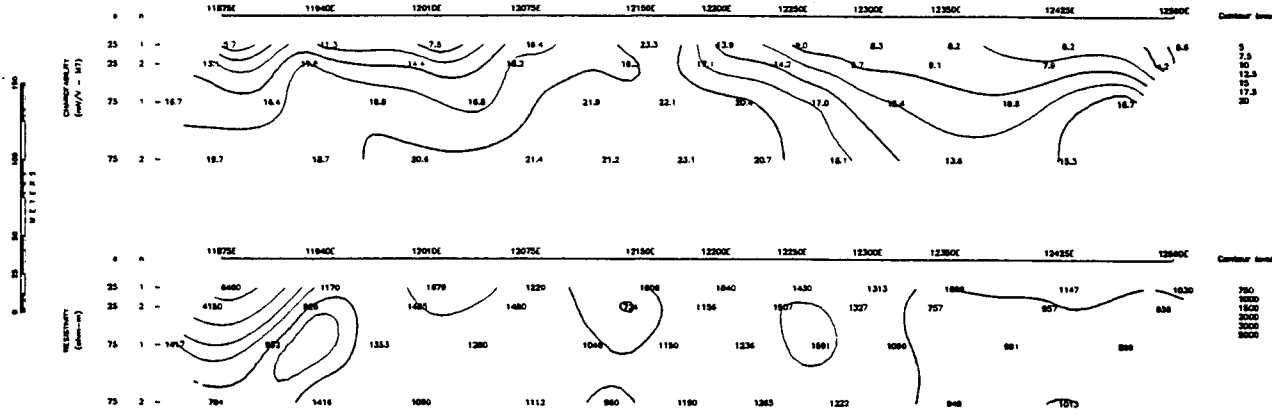
KEEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 1000N

INDUCTED RESISTION SURVEY (Non-Dipole Axis)
 SCOTT GEOPHYSICS LTD
 9/1/06/11
 Plate Rule 2 sec

current electrode east of potential electrodes



LINE: 1000N

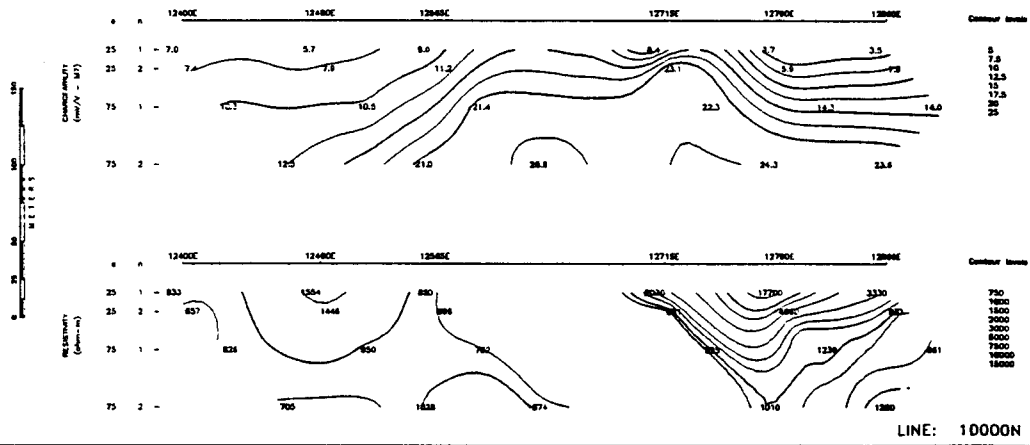
KEEWATIN ENGINEERING INC.

QUASH CREEK PROPERTY, WEST GRID

LINE: 10000N

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
 SCOTT GEOTECHNICAL LTD.
 91/08/11
 Plate No. 2 of 2

current electrode west of potential electrodes



APPENDIX XIV

Total Field Magnetometer Values, West Grid
Corrected for Diurnal Variations, Values in Gammas

L 10700E

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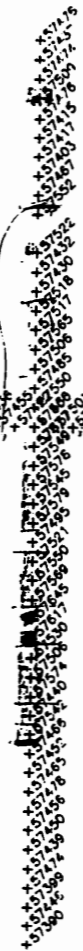
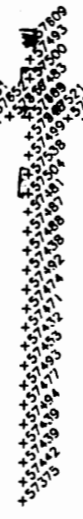
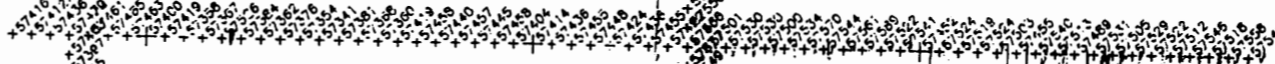
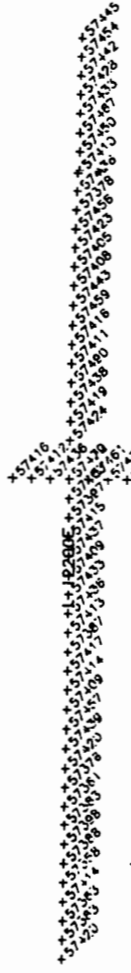
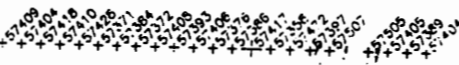
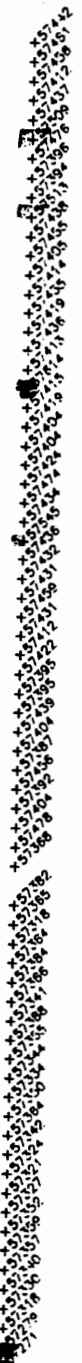
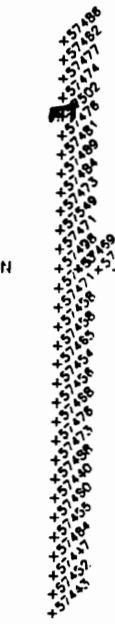
L 13000E

L 11800E

L 10900E

MODE

L 13000E



APPENDIX XV

Statement of Qualifications

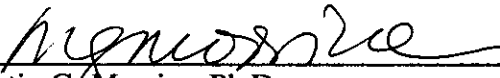
STATEMENT OF QUALIFICATIONS

I, MARTIN G. MORRICE, of 284 Balfour Ave., in the City of Winnipeg, in the Province of Manitoba, do hereby certify that:

1. I am a Consulting Geologist with Keewatin Engineering Inc., with offices at 800 - 900 West Hastings Street, Vancouver, B.C. V6C 1E5.
2. I am a graduate of the University of Manitoba, B.Sc. Honours, 1969, M.Sc. Geology, 1974; and the University of California, Santa Cruz, PhD, 1982.
3. I have practised my profession continuously since 1973.
4. During the period of June to September, 1991, I managed and carried out the exploration program on the Q.C. property claims near Kinaskan Lake on behalf of Dryden Resource Corporation.
5. I do not own or expect to receive any interest (direct, indirect or contingent) in the properties described herein, nor in the securities of Dryden Resource Corporation in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia, this 10th day of Dec., A.D. 1991.

Respectfully submitted,



Martin G. Morrice, Ph.D.