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NUINSCO RESOURCES LIMITED

**Richardson Township Project
Rotosonic Overburden Drilling Program**

**Rainy River District
Kenora Mining Division
N.T.S. 52 C/13 and 52D/16**

December 1, 1993

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*Level #
- 2.8304*



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1 Exploration Plan

1.0 Introduction

In late June, 1993, Nuinsco Resources Ltd., of Toronto, began the initial phase of an exploration program to assess the mineral potential of claims and options it had acquired in the Rainy River area. Specifically this work consisted of an orientation rotosonic drill program in Richardson Township, accompanied by general reconnaissance mapping and prospecting, over a larger area encompassing portions of several townships. The purpose of this report is to present the results obtained from the drilling program.

The Nuinsco program followed the release of an Canada - Ontario Mineral Development Agreement (COMDA) sponsored overburden sampling program (Bajc, 1991a) which identified a number of till sample sites with elevated gold grain accumulations in the Rainy River region as a whole. Of particular note were samples obtained from Richardson Township which included 202 gold grains from sonic drill hole 88-11 and 54 gold grains from 88-10. The delicate nature of many of these grains indicates that they have been subject to minimal transport from bedrock source.

A number of factors gave Nuinsco cause to acquire claims and option mineral rights from landowners in Richardson, and adjacent, townships. These include: i) the presence of the anomalous number of gold grains in the tills and their apparent proximity to a bedrock source, ii) the discovery during 1991 in nearby Menary Township of gold bearing quartz veins, iii) the nearby presence of the Quetico Fault a major regional structure with which gold mineralization is associated (i.e. Mine Centre, Ontario), iv) the limited prior exploration in the Richardson Township area, particularly to bedrock level, v) areally extensive, and locally thick, deposits of glacial drift which have limited the understanding of the bedrock geology, and hence hindered exploration.

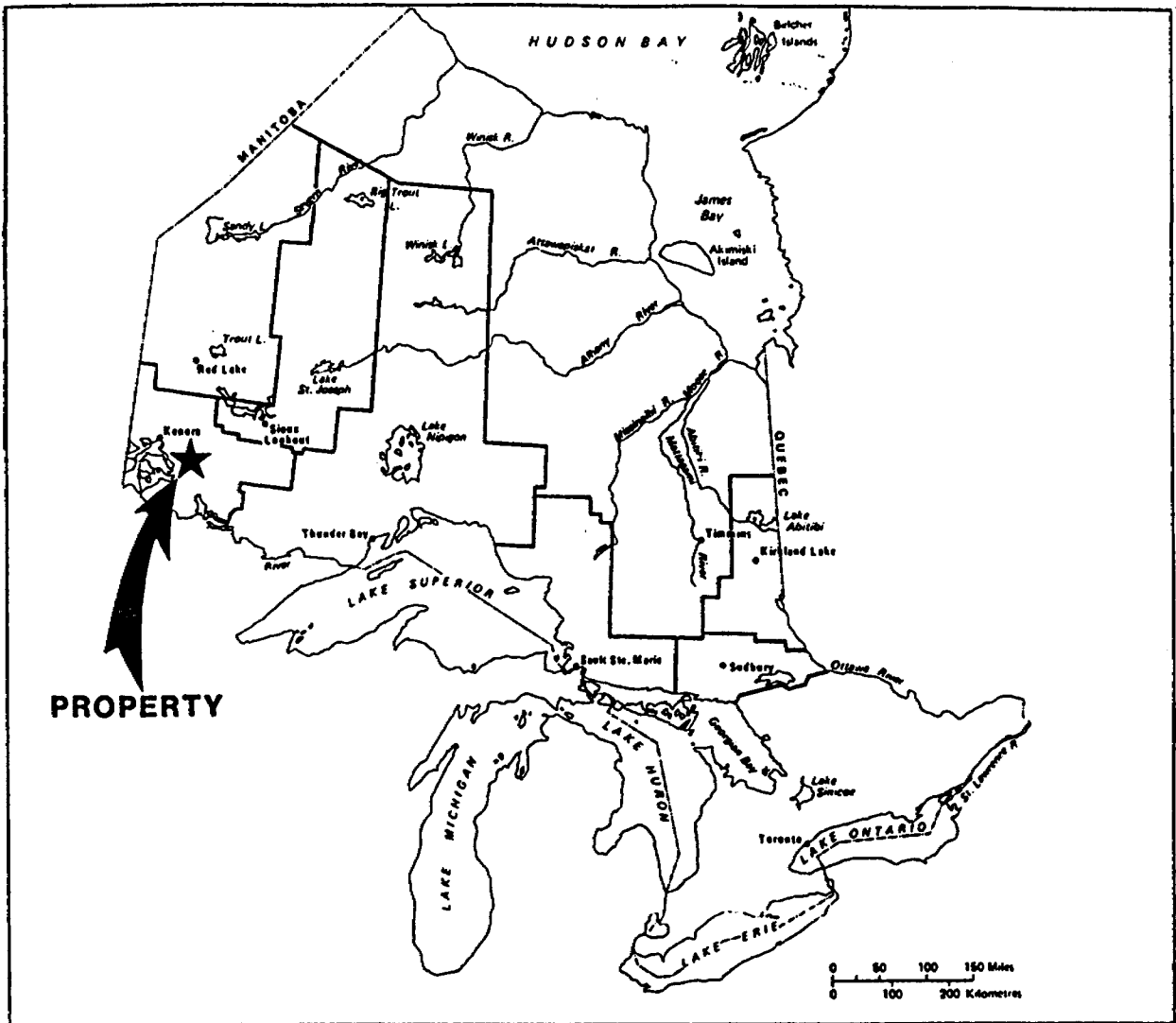
The purpose of the rotosonic drilling was to perform general reconnaissance of the overburden stratigraphy in the Richardson Township area, provide confirmation of the anomalous nature of the tills with respect to gold grain content, and obtain samples from the buried bedrock. The program commenced in late June and was completed in early July; nine holes were drilled in all providing 206.6m of overburden intersection and eight widely distributed bedrock samples from the prospective lithologies underlying Richardson Township.

2.⁰ Location and Access

The Nuinsco claim groups are located in the Rainy River District of northwestern Ontario, in the Kenora Mining Division. The nearest population centre is Fort Frances 50km to the southeast, the villages of Emo and Nestor Falls are about 25km to the south and north respectively. The claim groups as a whole are encompassed by latitudes 48° 45'N to 49° 06'N and longitudes 93° 40'W and 94° 06'W.

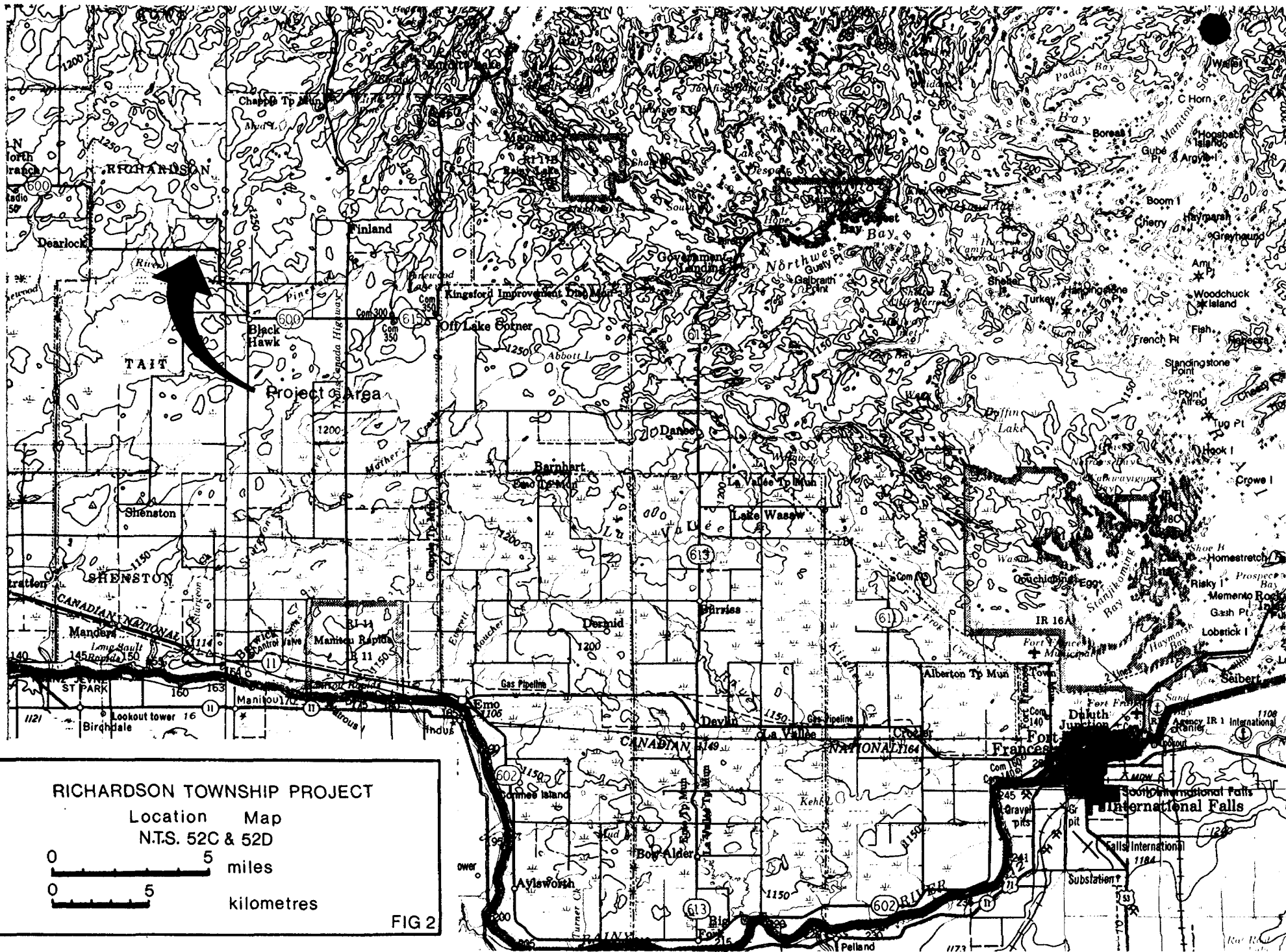
Lying in a discontinuous northeast-southwest band of approximately 38km length, the claims which comprise the Nuinsco land position, are located adjacent to the eastern contact of the Sabaskong Batholith. The claims are situated in the surveyed townships of Sifton, Richardson, Potts, Fleming, Menary, Senn, and McLarty; additional property is located in Patullo Township and in unsurveyed land east of McLarty Township. The approximate centre of this area lies 32km north of the international border while the Richardson Township area specifically, lies 22.⁵km north of the boundary. Nuinsco Resources Cameron Lake Mine is located approximately 40km to the northeast.

The ease with which access to the claims is obtained is variable across the group. The central and northeastern parts are accessible via the numerous logging roads that traverse that area; several of the claims are easily accessible by boat. Claims situated in the extreme northeast (i.e. near Kishkutena Lake) are accessible only by floatplane and boat. However in the south part of the claim group where much of the exploration activity was concentrated during 1993, access is excellent; paved Highway 71 traverses Potts and Menary townships while all weather, gravel, Ontario highways 615 and 600 supply local access to the Burditt Lake and Richardson Township areas respectively. Finally, all weather, gravel, township roads leading from the provincial highways provide further access to other parts of the property area.



**Nuinsco Resources Limited
 RAINY RIVER GOLD PROJECT
 REGIONAL LOCATION MAP**

FIG. 1



RICHARDSON TOWNSHIP PROJECT
 Location Map
 N.T.S. 52C & 52D

0 5 miles
 0 5 kilometres

FIG 2

3.0 Physiography

Physiographically the landscape on which the Nuinsco properties are situated can be divided into two distinct domains separated by a sharp break, the site of the Rainy Lake - Lake of the Woods Moraine; this feature trends northwest-southeast through Rowe, Menary, Potts, and Fleming townships. As a result the northeast part of the claim group has a distinctly different topographic profile from the central and southwest areas.

To the north and east of the physiographic break a Precambrian highland is only sparsely covered by glacial drift and is characterized by extensive outcrop exposure. This area has been subjected to only one of the most recent glacial advances (from the northeast) because of the highland which prevented other advances from the west. It shows few signs of intense weathering (Bajc, 1991b). Relief is controlled by bedrock geology with the supracrustal sequences displaying positive relief relative to the batholithic complexes; relief can attain 90m.

The broad lowland which occurs to the south and west of the break has been subject to either two or three late-Wisconsinan glacial events (depending on exact location). Here outcrop ranges from 5-40% and thick drift blankets bedrock surfaces. This area is subdivided by Bajc (1991b) into two regions. Region 2a contains 30-40% outcrop by area and may attain significant relief; areas separating outcrop are sites of extensive drift accumulation. In region 2b outcrop comprises less than 5% of the surface area, topography is low and rolling, drainage is poor, and peatland is common.

The area underlying the Richardson Township property area lies at the margin of 2a and 2b topography. Large outcrop areas in the north and east provide the maximum relief, while to the south flat areas of extensive till and bog blanket bedrock and extend south to the Pinewood River and beyond.

4.0 Exploration History

Although exploration activity by individual prospectors dates back to the 1930's, documented exploration in Ministry of Natural Resourcesent assessment files commences in 1967. Additional exploration programs are known to have taken place on private land, however record of assessment work was filed for this work.

In 1967 copper was recorded from a water well hole on the western shore of Off Lake. Consequently Noranda Exploration Company registered claims around the original discovery and performed mapping, geophysics, and diamond drilling; this activity met with limited success and the claims were allowed to lapse.

In 1971 International Nickel Company of Canada Limited conducted airborne and follow-up ground geophysics in the region as a whole; although there is no record of this work Inco did file a report on two diamond drill holes in Richardson Township in 1973. Reportedly one of these drill holes encountered anomalous gold values (D. MacEarchern, per. comm.).

In 1972 Hudsons Bay Exploration and Development carried out airborne geophysical surveys followed by claim staking and ground geophysics. In 1973 HBED drilled 54 diamond drill holes regionally to test 42 E.M. conductors, including anomalies in Tait Township, adjacent to the south of the Quetico Fault (Nelson, 1990). The principal target of this exploration was base metal and none of the work was filed for assessment purposes, although it is apparent that it was subsequently available to Mingold personnel.

In the mid 1980's exploration programs were mounted in Menary Township and the Off Lake area by several companies. Agassiz resources examined the potential for both base metal and gold in both area's with a program of mapping, stripping, sampling, and geophysics over two field seasons. In the process they discovered numerous showings of both gold and copper-zinc; note particularly what came to be termed the Agassiz Showing in Menary Township. In 1984 Lacana Minng Corporation undertook a single field season of mapping and sampling over an extensive area adjacent to Off Lake and Burditt Lake; no significant areas of mineralization were reported. Spartan Resources conducted an I.P. survey over a grid adjacent to the eastern shore of Off Lake in 1988; although anomalous responses were obtained no further assessment is recorded.

In 1989 Western Troy Capital Resources began a mapping and sampling program on claims staked in Menary Township which partly encompass the lapsed properties of Agassiz and HBED, and the gold and base metal occurrences discovered during those programs. Following initial exploration for base metals Western Troy discovered "several" native gold bearing, quartz veins late in 1991. The veins are at present interpreted to be the folded and boudinaged fragments of a single original vein. When sampled this zone returned an average of 1.4 oz/ton gold. Subsequently additional showings were discovered later in 1991

and during the 1992 season. Interestingly most of these veins are situated in the lowermost unit of the mafic stratigraphic succession of the area, in close proximity to the contact of the Sabaskong Batholith. A 250 ton bulk sample of the veins discovered in 1991 was conducted during the 1992 program; this was expanded to 500 tons and completed in September 1993.

Considerable interest was generated in the area west of Finland following the release of the O.G.S. publication "Gold Grains in Rotosonic Drill Core and Surface Samples (1987-1988), Map No. P.3140. In 1989 Mingold Resources Inc. staked 85 claims and optioned property from 12 local landowners in three separate blocks in Richardson, Tait, Patullo, and Sifton townships. Between mid-1989 and late-1990 Mingold conducted extensive sampling of the glacial drift by hand and backhoe trenching, and reverse circulation drilling. Accompanying this work was geological mapping and ground geophysics. Subsequently, limited diamond drilling was conducted in Patullo Township based on these surveys; the results of this drilling were inconclusive and the anomalous values obtained in the tills were generally unexplained. The Canadian activities of Mingold were terminated prior to complete assessment of all anomalous results.

5.⁰ Claim Description

The Nuinsco Resources project area consists of 826 claim units, a License of Occupation from the Agricultural Rehabilitation Development Agreement (A.R.D.A.) and a number of parcels of optioned, patented ground (refer to Appendix III for a complete listing). The entire land position falls within the jurisdiction of the Kenora Mining Division, Ministry of Natural Resources Administrative District of Fort Frances, the entire property package aggregates over 16,000ha (Pitman, 1993).

Table 1. Claim Distribution

1. Mineral claims held by Nuinsco:

Township	No. of Claims
Dash Lake	110
Flemming	51
McLarty	99
Menary	135
Potts	83
Richardson	172
Rowe	32
Senn	130
Sifton	14
Total	826

2. Patented ground optioned to Nuinsco Resources in Richardson and Patullo townships.

Total	1257. ⁷⁹ ha
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3. License of Occupation held by Nuinsco on A.R.D.A. property:

Total	353. ¹⁰ ha
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5.¹ Assessment Work Location

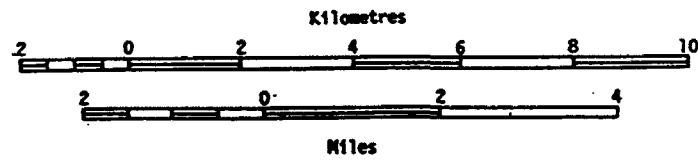
The assessment work conducted, and reported on in this report, consists of rotosonic overburden drilling and subordinate, supporting, geochemical sampling. The overwhelmingly dominant portion of the assessment credit application consists of the sonic drilling program. All holes were drilled on either patented ground or on claim 1105422; the location of each

hole is given below. The locations for the geochemical sampling are shown on the plan contained in the accompanying pocket.

Table 2. Assessment Work Location

Drill Hole No.	Lot No.	Conc. No.	Landowner	Claim No.
93-1	E1/2,N1/2,11	1	Munroe	
93-2	N1/2,7	1	Wepruk	
93-3	S1/2,6	2	Lafever	
93-4	S1/2,6	2	Lafever	
93-5	S1/2,5	2	McClain	
93-6	S1/2,S1/2,4	3	Loveday	
93-7	S1/2,S1/2,4	3	Loveday	
93-8				1105422
93-9	E1/2,S1/2,9	2	Shelton	

NUINSCO RESOURCES LTD. RAINY RIVER GOLD PROJECT CLAIM MAP AND PROPERTY HOLDINGS



Claims on which work was performed
Claims to which work is to be applied

49°00'

94°00'

DEWART

ROWE

MENARY

SENN

SIFTON

RICHARDSON

POTTS

FLEMING

PATULLO

TAIT

TO FORT FRANCIS

CLAXTON

McLARTY

Bethune Lake

Slender Lake

Legend

- Western Troy/ Capital Resources Inc.
- Nuinsco Claims
- Patented Claims Optioned to Nuinsco
- Licence of Occupation



RAINY LAKE INDIAN RESERVE 17D

TO KENORA

Hwy. 71

Burditt Lake

Off Lake

6.0 Regional Geology

The Nuinsco Resources properties are located near the western termination of the Wabigoon Subprovince of the Canadian Shield. Approximately 100km to the west the Archaean rocks of the shield dive beneath Phanerozoic sedimentary cover in southern Manitoba. However much of the extreme southwest part of the Wabigoon region, and particularly that area covered by this report, is overlain by a thick Quaternary succession and hence the bedrock geology is little observed and poorly understood.

The immediate area of the claim groups is underlain by supracrustal metavolcanic and metasedimentary rock, and batholithic bodies (Bajc, 1991b). The Burditt Lake Belt, composed of metavolcanic rocks transects the central portion of the area in a northeast trend swinging to the northwest near Kishkutena Lake; it averages approximately 8km thickness. These rocks separate intrusions such as the Sabaskong Batholith in the northwest from the Rainy Lake Batholithic Complex in the southeast.

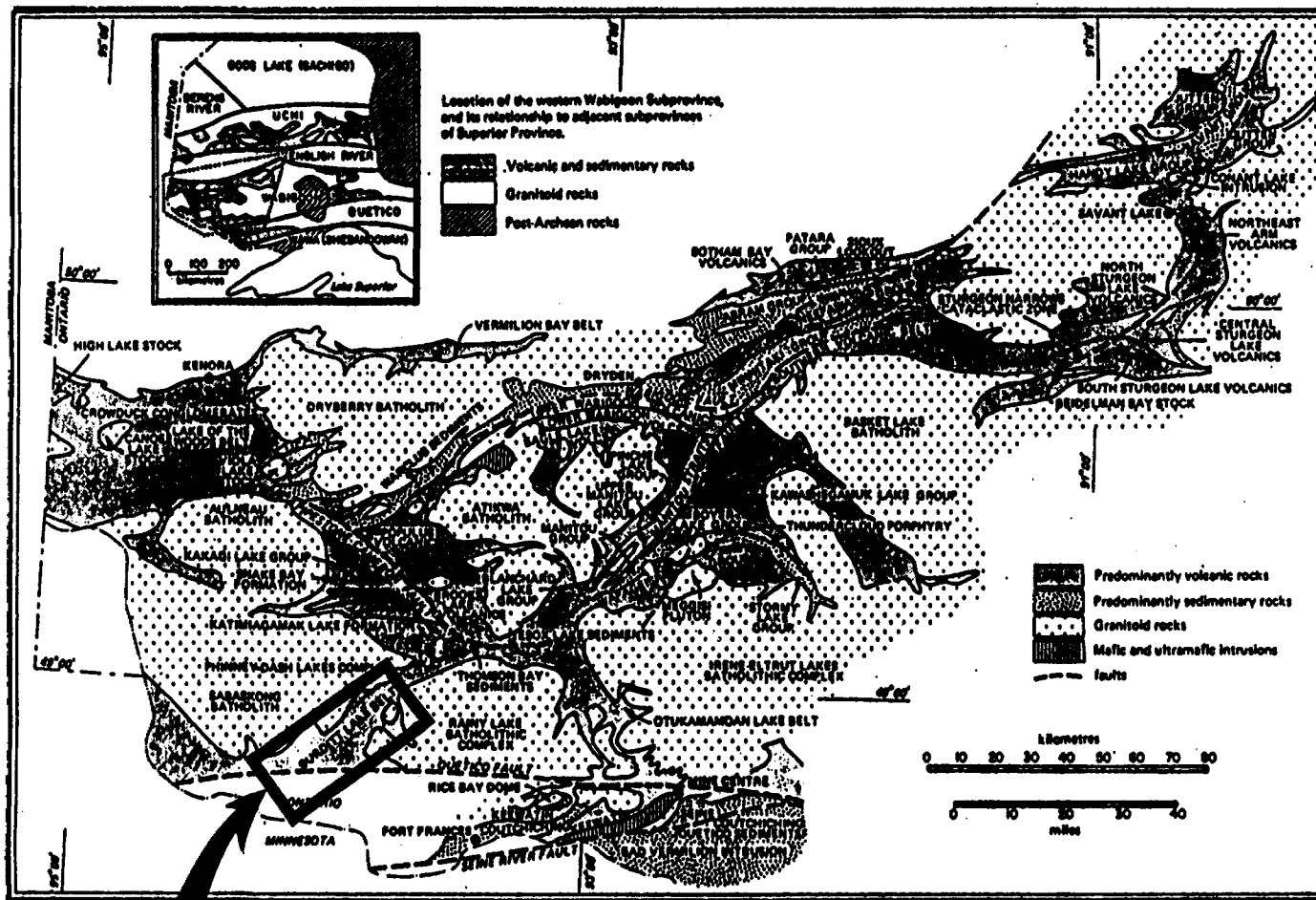
Blackburn (1976) has divided the metavolcanic rocks of the Burditt Lake belt into six mappably distinct mafic, tholeiitic units and five distinct felsic, calc-alkaline units; however because of the extensive glacial drift and hence lack of direct observation this scheme breaks down in the south and west. The lower mafic sequence comprises approximately 2/3 of the volcanic pile and the overlying felsic accumulations approximately 1/3.

In the south part of the region, in Patullo, Tait, and Mather townships, mapping by Fletcher and Irvine (1954), and Johns (1988) determined the presence of extensive accumulations of greywacke and subordinate conglomerate. These units strike at approximately N70°E and occur (in the context of this report) in proximity to the Quetico Fault.

The supracrustal succession has been intruded by the syntectonic Sabaskong Batholith to the northwest, Jackfish Lake Complex in the east and to the southeast the Fleming Township Complex; all are of tonalitic composition. Three smaller post-tectonic stocks, are located within the metavolcanic belt, the Black Hawk, Finland, and Burditt Lake stocks. Subordinate dyking is associated with all of these bodies and is particularly common near intrusive contacts. Late Precambrian, northwest trending, diabase dykes signal the close of Precambrian igneous activity.

The regionally extensive, east-west trending, Quetico Fault traverses the south of the area while the northwest trending Pipestone-Cameron Fault separates the Burditt Lake belt from the volcanic rocks of the Kakagi-Rowan and Manitou lakes greenstone belts. Subordinate faulting is common, both observed, and inferred from discontinuities and offsets in stratigraphic units and air photo or satellite linears.

Available evidence of stratigraphic facing indicates that the rocks of the central part



RAINY RIVER DISTRICT

**REGIONAL GEOLOGY
WESTERN WABIGOON SUBPROVINCE AND ITS MARGINS**

Table 3

LITHOLOGIC UNITS

PHANEROZOIC

(A) Pleistocene and Recent

till, sand, gravel, clay, organic debris

-----Unconformity-----

PRECAMBRIAN

(B) Proterozoic

-Mafic Intrusive Rocks
-Diabase dykes

-----Intrusive Contact-----

(C) Archean

-Intermediate to Felsic, Intrusive Rocks

Equigranular trondhjemite, granitic dykes, equigranular monzonite and intrusive breccia

-----Intrusive Contact-----

-Felsic Metavolcanic Rocks

Medium grained to porphyritic rhyolite and dacite, quartz feldspar porphyry dykes

-Mafic to Intermediate Metavolcanic Rocks

Fine to medium grained basalt and andesite, gabbro, pillowed basalt, porphyritic basalt, pillowed and porphyritic basalt, pillowed variolitic basalt, spherulitic basalt, tuff, tuff breccia, and lapilli tuff

of the region form a steeply dipping, southeastward facing, homocline. In the southwest the volcanic stratigraphy has been folded into the southward plunging, Deerlock Syncline; stratigraphic facing continues to be to the south but it is deflected to the east and west around the limbs of the structure.

The regional metamorphic grade ranges from lower greenschist in the centre of the metavolcanic belt to upper greenschist and amphibolite at batholith contacts. The eastern margin of the metavolcanic belt and the large metavolcanic xenoliths within the Jackfish Lake Complex are migmatized and have attained amphibolite grade.

The youngest members of the stratigraphic succession were laid down in the Quaternary Period. The oldest units are partially preserved, discontinuous Pre late-Wisconsinan tills and glaciolacustrine deposits. The overwhelmingly dominant portion of the succession is composed of upto three distinct till units of late-Wisconsinan age deposited by the Laurentide Ice Sheet, and associated periglacial accumulations; from oldest to youngest these are the Whiteshell (or northeast) Till of the Labradorean Lobe, the Whitemouth Lake (or West) Till of the Keewatin Lobe and the Marchand Till of the Des Moines Lobe. The most recent accumulations consist of bog/swamp, recent beach and eolian deposits, and alluvium.

7.0 Local Geology

The local geology of the Richardson Township area is poorly understood because of the paucity of outcrop.

As mapped by Blackburn (1976) the area is underlain by a mixed succession of mafic to felsic metavolcanics intruded by early and late granitoid bodies. Metamorphic grade is lower greenschist to amphibolite.

The most abundant metavolcanic rocks, basalt flows, are assigned predominantly to the M3 or M5 members of Blackburn's six member mafic stratigraphic succession. In the nose of the Deerlock Syncline, Blackburn (1976) interprets the flows there to be correlative with members of the M2 stratigraphic unit observed to the east. The mafic flows consist of fine to coarse grained massive and pillowed basalt. Rare pillow and flow breccia is observed and very local interflow sediment is noted. In the extreme west of Richardson Township coarsely plagioclase phyric flows occur. Strike directions are rarely observed but in the eastern part of the township they are in a northeast direction.

Quartz-feldspar porphyry rhyolite is interpreted to overlie the mafic flows and outcrops in the southeast corner of Richardson Township; Blackburn has designated this unit as F5. The mafic-felsic contact is nowhere observed. This rock is white-grey in colour and contains upto 10% quartz and/or feldspar phenocrysts. Although exposed over a large outcrop area flow relationships were generally not apparent; however an outcrop on Davis' Farm displays possible flow contact or bedding at approximately 50°-60° with subvertical dip to the northwest. Disseminated pyrite, comprising 3-5% of the rock is not uncommon in this unit, and this unit appears to be enriched with respect to gold when compared to the volcanic stratigraphy as a whole (background averages 22.3ppb Au in wholerock samples obtained from the felsic unit specifically versus 5.5ppb from the volcanic stratigraphy as a whole - see geochem section). On the Davis Farm local discontinuous bands of rusty flow/tuff upto 4m wide contain upto 20% disseminated pyrite, and return gold values of upto 70 ppb, well above background.

To the north the volcanic succession has been intruded by the early syntectonic Sabaskong Batholith. It is composed of a gneissic granodiorite core and a more homogenous, less deformed tonalitic contact zone (unobserved in Richardson Township). To the southeast the late tectonic Blackhawk Stock occurs and is exposed in several road cuts. It is distinctly zoned with a porphyritic granodiorite core and a monzonite periphery. Adjacent to these bodies numerous felsic dykes invade the volcanic stratigraphy ranging from centimetre to metre widths and from aphanitic to pegmatitic.

The Quaternary stratigraphy encountered in the Nuinsco program appears to be confined to the Whiteshell Till, the Whitemouth Lake Till and associated interbedded glaciofluvial and glaciolacustrine sediments and younger organic/humus deposits.

Recent prospecting by Nuinsco personnel, predominantly near the contact of the Sabaskong Batholith, has confirmed the general geology in this area. The bedrock sample from the sonic drill program show that the distribution of felsic rocks departs somewhat from earlier interpretations in that a band of felsic/intermediate metavolcanics extend to the northwest through central Richardson Township, under the substantial Quaternary cover.

Surface sampling has produced anomalous values from the pyritic rhyolite/dacite flows or tuffs on the Davis farm. Samples obtained from bedrock intersections of sonic drill holes have produced variable results with the most spectacular values coming from hole 93-5 where siliceous, pyrite bearing, sericite schist produced values upto 4837ppb.

In addition to the sample obtained from hole 93-5 strong penetrative fabrics were observed in the rocks encountered in holes 93-2, 3, 4, and 8; the foliations/schistocities range from subvertical to as shallow as 50°. These observations are supplemented by presence of strong planar fabric development in the bedrock sample from hole 88-11 (O.G.S. drill hole) and holes F1-01, 03, 04, 05, 07, 08, and 09 (Mingold drill holes, 1989). In outcrop a zone of very strong deformation occurs adjacent to the west contact of the Black Hawk Stock in Lot 2, Concession I of Richardson Township. Here felsic rock (protolith apparently feldspar and quartz-feldspar porphyry rhyolite/dacite) is highly deformed in a band at least 50m wide with complex folding, boudinaged, and folded quartz veins, dismembered and plastically deformed dyke rock, well developed schistose fabric and probable migmatite. Lower degrees of deformation (i.e. well defined foliation) were noted to the north of the outcrop area described above and on the Davis Farm. The apparent abundance of strong deformation is also indirectly supported by Landsat satellite imagery (undertaken by Nuinsco) from which is interpreted the presence of numerous northeast trending ductile deformation zones which traverse the area covered by the recent overburden drill programs.

8.^o Geochemical Sampling

Sampling for geochemical purposes was conducted as part of general prospecting and reconnaissance of the property group as a whole and Richardson Township specifically. Samples were obtained for the purpose of wholerock analysis, Au geochemistry and sometimes As, Cu, and Zn geochemistry. In addition, limited soil sampling and biogeochemistry sampling was conducted (not reported on here). The tabulated results of the sampling are included in Appendix IV, sample locations are on the accompanying plans.

Samples for wholerock geochemistry were obtained from the mafic and felsic members of the volcanic stratigraphy. Blackburn (1976) has tentatively ascribed the mafic stratigraphic members to zones M3 and M5. The felsic volcanics in the southeast are designated F5. When plotted on AFM diagrams (Irvine and Baragar, 1971) and Jensen Cation diagrams (Jensen, 1976) the mafic volcanics are clearly tholeiitic, generally high-Fe tholeiitic basalts, while the volcanics of felsic affinity plot near the tholeiitic-calc-alkaline boundary and are generally of dacite-rhyolite composition. With the use of this geochemistry and from sample descriptions in earlier work it is possible to infer a northwest trending band of felsic rock extending through lots 6, 7, and 8 (Conc.2); the width of this band has been crudely determined to be 800m.

Thirty wholerock samples collected property wide were analyzed for Au geochem; the purpose of which was to obtain some indication of the mean Au content of little altered volcanic rock. The values of these samples are tabulated in Appendix IV while the mean and standard deviation of this group and various subgroups can be obtained from Table 4. These calculated values can only be used as an approximation, the lower detection limit of the analytical technique is 5ppb, for those samples which returned values below the detection limit a value of 2.5ppb was assigned, this arbitrary value will of course affect any calculated values. Also some of the samples obtained from the M3 and M5 stratigraphic members were obtained from elsewhere on the property group.

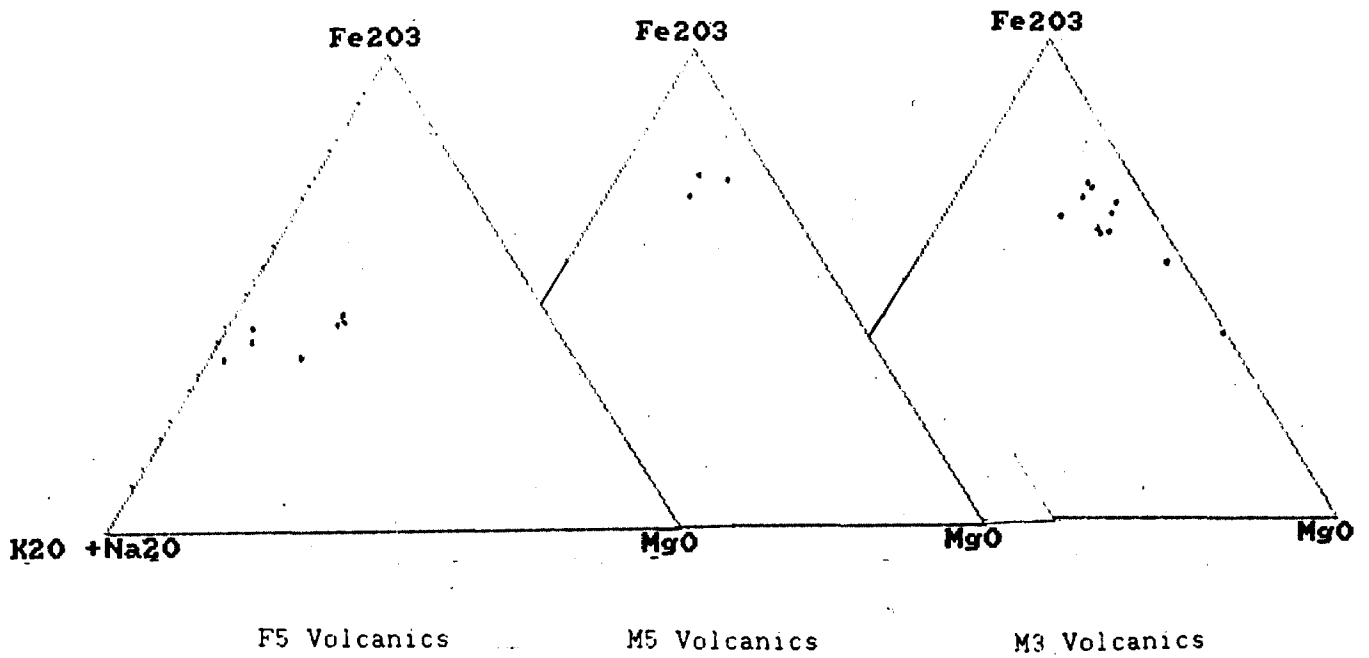
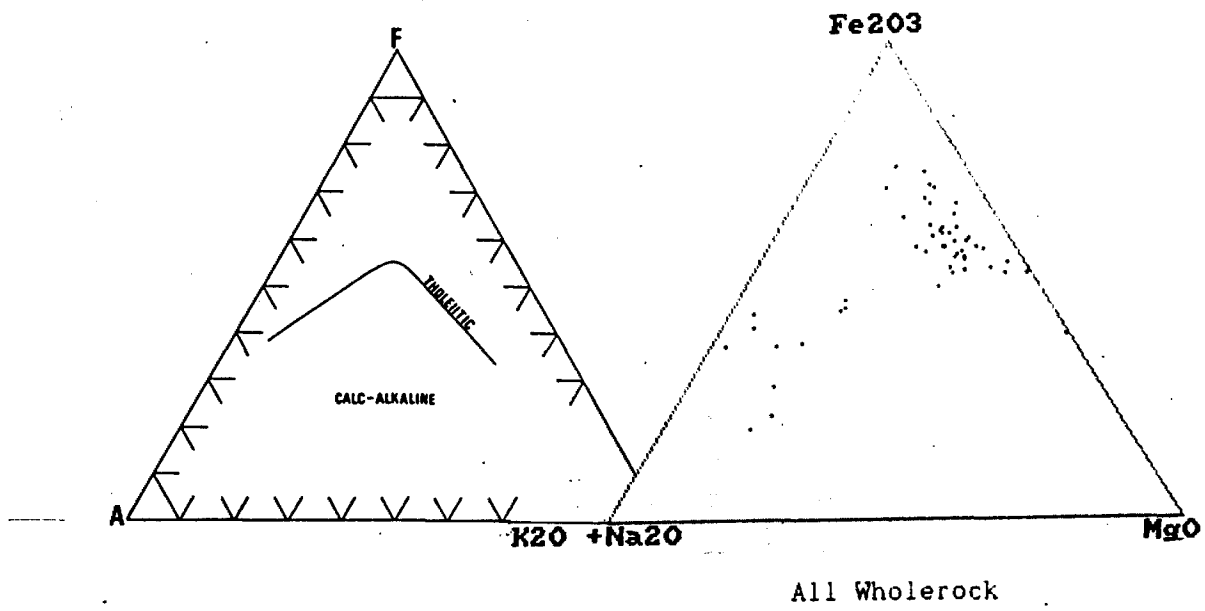
Note that there is variability of mean and standard deviation between groups but that the F5 member appears to be enriched in Au content with respect to M3 and M5. Hence the anomalous threshold for F5 is higher than for mafic stratigraphy; i.e. using mean plus twice the standard deviation the threshold is approximately 35ppb for the felsic volcanics whereas it is approximately 1/3 that value for the mafic volcanics.

Consequently numerous samples obtained from the mafic and felsic volcanics encountered in the sonic drilling program and during prospecting traverses are shown to be anomalous. In particular the area covered by Concession 2, lots 4 through 8 is of interest where sonic drill holes 88-11 (government) and 93-5 encountered strongly anomalous gold concentrations in bedrock; i.e. 0.⁰⁵⁶o.p.t. (or 192ppb) in schistose mafic volcanic rock from 88-11 and 2144ppb (averaged) from the schistose felsic rock from 93-5. Additional anomalous values (albeit very much less anomalous) were obtained from oxide stained,

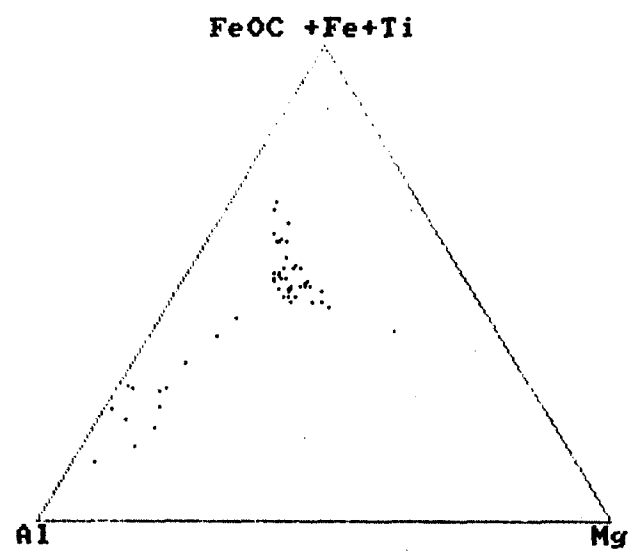
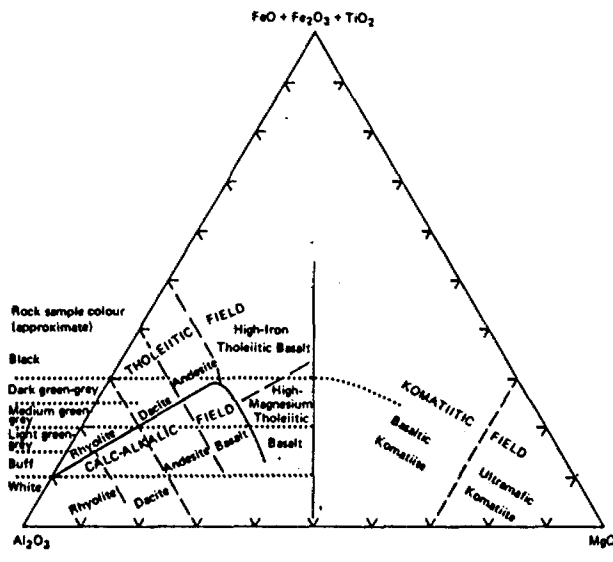
pyrite bearing volcanics in lots 4 and 5, on strike from the drill obtained samples (refer to accompanying plans and Appendix IV).

Table 4. Calculated Au Sample Statistics

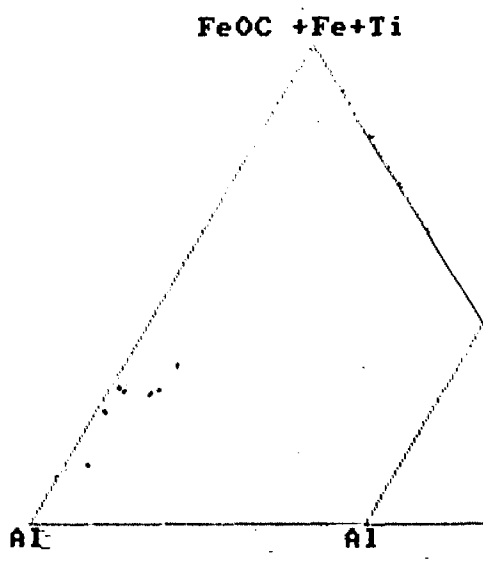
Sample Group	Mean	S.D.	
All wholerock-Au analyses (30)	10. ⁷⁰	8. ³²	
Background wholerock-Au analyses (12)	7. ¹³	5. ⁶³	
M3 wholerock-Au analyses (11)	5. ⁴⁴	4. ⁶⁴	Values in Au ppb
M5 wholerock-Au analyses (3)	5. ⁵⁵	2. ⁶⁰	
F5 wholerock-Au analyses (7)	22. ³³	8. ⁰⁸	



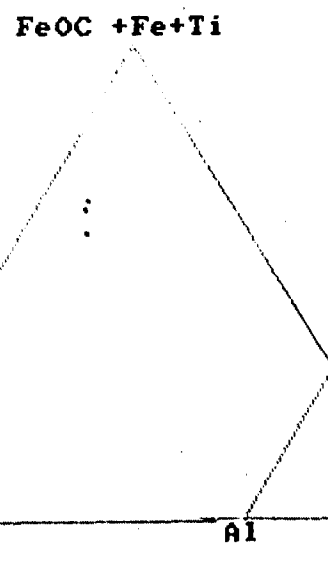
AFM Diagrams



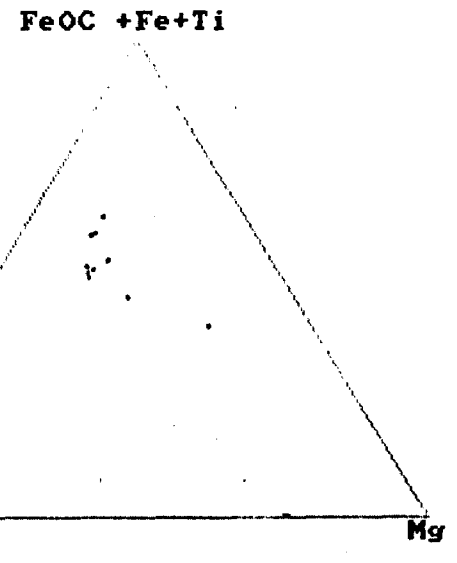
All Wholerock



F5 Volcanics



M5 Volcanics



M9 Volcanics

9.⁰ Rotosonic Drill Program

The rotosonic drill program commenced on June 26 and was completed on July 1. Midwest Drilling of Winnipeg, Manitoba, performed the drilling using an all wheel drive truck mounted rotosonic drill. All holes were collared in Richardson Township.

Wet conditions prevailing throughout the entire field season restricted the drill access essentially to road right of ways, this access was further restricted when access to the Hwy 600 right of way was denied. As a result only nine of a planned 20 holes were completed.

Tabulated drill hole statistics are supplied below. For complete logs and drill sections refer to Appendices I and II.

Table 2: Rotosonic Drill Hole Data

Drill Hole	Depth	Till Occurrence		Bedrock
		Whitemouth	Whiteshell	
93-1	46.9	0-36.6	36.6-45.7	Mafic Volcanic
93-2	31.3	0-23.2	23.2-28.1	Chlorite Schist
93-3	23.8	0-17.1	17.1-23.0	Chlorite Schist
93-4	29.9	0-25.9	25.9-28.7	Mafic Volcanic, Fol.
93-5	21.3	0-18.9	18.9-20.4	Sericite Schist
93-6	5.8	0- 4.9	0	Gabbro
93-7	19.2	0-16.5	16.5-18.3	Gabbro
93-8	13.4	0- 7.9	7.9-11.9	Chlorite Schist
93-9	26.8	0-23.2	23.2-25.6	Mafic Volcanic
Averages	24.3m	19.3m	3.6m	

9.¹ Till Descriptions

The lowermost till unit, the Whiteshell Till ranges in thickness from 0m to 9.¹m, and averages 3.⁶m. It is composed of a grey sand-silt matrix with a highly variable heterolithic clast component. A basal lodgement till facies was observed in 93-5 where it is composed of a fissile fine matrix of sand-silt and angular fragments of apparently locally derived bedrock; abundant pyrite was noted in this unit. Other sediments associated with the Whiteshell Till are periglacial or subglacial deposits and include stratified sands-silts and silt-clay rich tills.

The younger Whitemouth Lake Till everywhere blankets the Whiteshell Till except near larger outcrops where compression of the Quaternary stratigraphy causes the older till

to occur at surface, for instance adjacent to the large felsic outcrop in southeast Richardson Township.

The Whitemouth Lake Till is composed largely of massive grey to grey-brown clay to clay-silt till. The clast content (of pebble size dominantly) comprises approximately 5% of the unit and is almost entirely of carbonate composition (with very rare clasts of volcanic origin) Locally discontinuous or convoluted laminations were observed; these are interpreted by Bajc (1991b) to indicate that this till is derived from the deformation and transport of glaciolacustrine sediments originally deposited to the west.

The shallowest deposits, encountered at surface, include black and dark grey humus and organic material which attained thicknesses in excess of 1m to the south of Highway 600.

9.² Bedrock Samples

High quality bedrock core samples were obtained from all drill holes, ranging from 0.6m to 3.2m in length. Wholerock analyses have been obtained for 93-3, 4, 5, and 8. The limited drilling to date (both by Nuinsco and earlier Mingold holes) indicates that the distribution of volcanic rocks in central Richardson Township varies somewhat from earlier interpretations. Analyses of 93-3, 4, and 5 indicate that these samples are of felsic or intermediate composition which agrees well with descriptions from Mingold holes FL-RC-04, 05 and 06; this information allows a crude interpretation of a band of felsic-intermediate volcanics striking approximately northwest and apparently about 800m wide. Other samples obtained are mafic volcanics (note the wholerock analysis from 93-8) or mafic intrusive (gabbro, in the case of 93-6 and 7).

Macroscopic evidence of strong deformation is also abundant in the form of well developed planar fabrics in both mafic and felsic rocks. Drill holes 93-2, 3, 4, 5, 8 are observed to be deformed, and Mingold FL-RC-01, 03, 04, 05, 07, 08, and 09 are all described as being well foliated or schistose. Well developed foliation/schistosity is observed in several outcrops and Landsat image analysis provides corroborative interpretation of numerous northeast striking, anastomosing and discontinuous ductile deformation zones traversing the area.

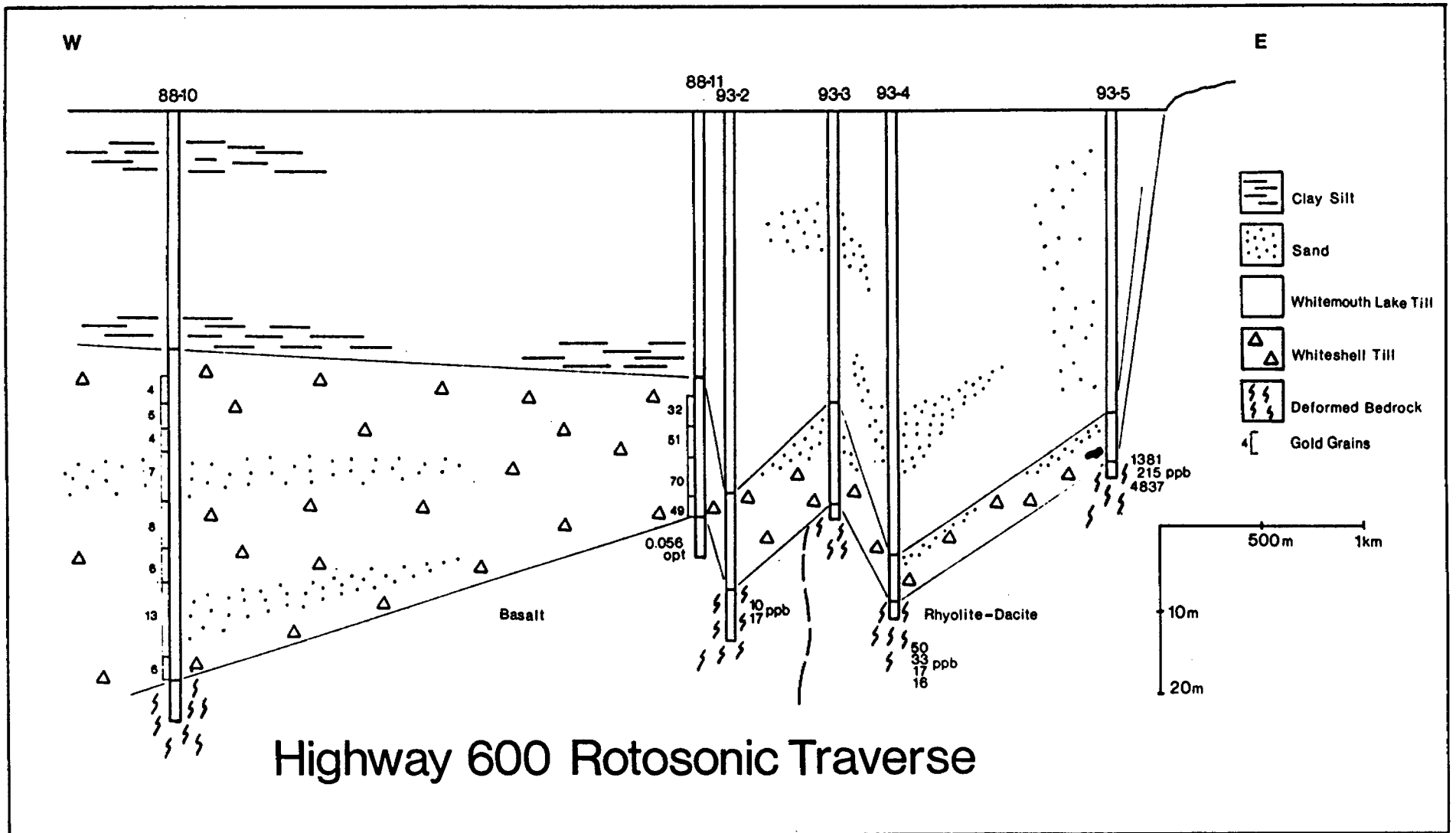


FIG.5

10.⁰ Conclusions and Recommendations

The Richardson Township area has thus far proven to be a prospective area in the search for gold mineralization. It is situated in a structurally favourable setting, in proximity to the Quetico Fault, and is interpreted to be traversed by numerous ductile deformation zones, themselves favourable hosts for gold. Rotosonic and reverse circulation drilling have shown the unconsolidated Quaternary stratigraphy to contain anomalous concentrations of gold grains; analysis of grain shape and composition (i.e. delicate vs abraded and the occasional presence of electrum) implies that a substantial proportion of them are derived from nearby bedrock source; this study is ongoing and complete results concerning gold grain characteristics and analytical values are not available at the time of writing. Limited sampling of bedrock shows that strongly anomalous bedrock does exist; note the result obtained from hole 93-5. The fact that the area has been the subject of relatively little exploration, at least to bedrock level, only enhances the possibilities for discovery of anomalous gold mineralization.

The scope and tenor of further exploration effort will of course be dependant on the budget available. However the next phase of exploration should consist of several elements substantially required to adequately and systematically advance the level of knowledge of the property. These are:

- 1) Establishment of a grid to cover at least the central portion of Richardson township (i.e. adjacent to the east-west portion of Highway 600).
- 2) I.P. and magnetometer coverage of the central portion of Richardson Township, particularly in proximity to the anomalous gold values obtained from the rotosonic drilling.
- 3) Extension of the rotosonic overburden sampling to attempt to localize trains of anomalous gold grain bearing overburden, and to further sample the overburden. Possibly this drilling could be used to perform preliminary tests on any significant I.P. responses (i.e. to determine whether the source is in bedrock).
- 4) Exploration diamond drilling both to generally characterise bedrock stratigraphy, particularly with reference to the style and dimensions of deformation zones. Further this drilling would test anomalous geophysical responses.

11.⁰

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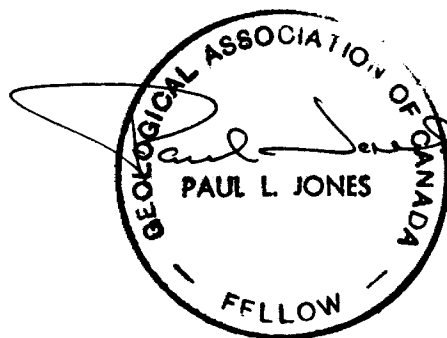
12.⁰**Certificate of Qualifications**

I, Paul Latimer Jones resident at 27 Briarmoor Crescent, Ottawa, Ontario, K1T 3G7, do hereby certify that:

- 1: I am a Consulting Geologist, since 1986.**
- 2: I am graduate of Carleton University, Ottawa, 1982, with a B.Sc. (Hons.) in Geology.**
- 3: I have been engaged in the study and practice of my profession since 1978.**
- 4: I am a registered Fellow of the Geological Association of Canada.**
- 5: This report is based upon onsite involvement in the exploration program in the Richardson Twp. area.**

Dated at Ottawa, this 15th day of November, 1993.

Paul L. Jones, B.Sc., FGAC.



Appendix I

Rotosonic Drill Hole Logs

**Drill Log
Sonic Drill Hole 93-1**

From	To	Description
0	4.3	Yellow-brown clay with interbedded sand.
4.3	7.9	Sand.
		Whitemouth Lake Till.
7.9	10.7	Dark-grey pebbly clay till.
10.7	13	Sand.
13	14.3	Till.
14.3	21	Sand.
21	23.1	Dark-grey pebbly clay till.
23.1	24.1	Sand with minor clay component.
24.1	25.9	Clay, sand bed at 25.3
25.9	32	Sand.
32	36.5	Pebbly clay. Light coloured limestone pebbles. At downhole contact light to dark green laminations occur, some sand also.
36.5	39	Soft green sandy clay.
39	39.6	Clay till, with carbonate pebbles.
		Whiteshell Till (WT)
39.6	43.9	Laminated Clay. Brown clay with green laminations of clay and sand horizons No limestone clasts noted in pebble fraction.
	39.6-41.2	Laminated clay.
	41.2-43.3	Green sand with round pebbles in sandy-clay interbedded with coarse sand beds.
	43.3-43.9	Brown coloured, fine sand and clay, and coarse sand beds.
43.9	45.7	Brown sandy-till.
	43.9-44.5	Sandy till.
	44.5-45.6	Brown clayey till, distinctive red banding.
45.7 EOH	47	Bedrock. Sheared green volcanic. Planar fabric at 30°CA.

Sample Log
Sonic Drill Hole 93-1

<u>ASSAY SAMP</u>	<u>HOLE SAMP#</u>	<u>DEPTH Ft</u>	<u>SAMP DESCRIPTION</u>	<u>ASSAY</u>
163707	17	39.9-41.1	Sand @ clay beds -2mm H.M.C.	
163712	17	" "	" " " " +2mm -5mm fraction	<5 ppb
163706	18	41.1-43.3	Sand @ clay beds -2mm H.M.C.	
163711	"	" "	" " " " +2mm -5mm fraction	<5 ppb
163705	19	43.9-44.5	sand @ clay beds -2mm H.M.C.	
163710	"	" "	" " " " +2 mm -5mm fraction	< 5 p p b
163704	20	44.5-45.7	Sandy till -2mm H.M.C.	
163709	"	" "	" " " +2mm -5mm fraction	<5 ppb
163714	"	" "	" " " + 5mm Fraction	<5 ppb
163703	20	45.7-47	mixed mafic flow (bedrock) & above till	

**Drill Log
Sonic Drill Hole 93-2**

0	1.2	Road Fill.
1.2	1.7	Grey Clay.
1.7	6.7	Lost core. Sand and possible gravel.
6.7	7.8	Clay, medium brown colour with yellow (oxidation), brown and grey. Sharp downhole basal contact.
		Whitemouth Lake Till (WLT)
7.8	22.3	Clayey Till. Dark grey unctuous matrix with light grey to white carbonate clasts from 1-100mm in size.
	9.8	Pebbly horizon.
	18.9-19.8	Light and dark olive grey banding with 1% grit.
	19.8-20.1	Striated pebbles and 5% grit.
	20.1-20.7	Coarse and fine bands and more abundant striated clasts (upto 10%).
	21.3	Light and dark olive banding.
	22.3	Green and dark grey banding on mm scale.
22.3	23.2	Clay. Interbedded grey clay with carbonate grains (WLT) and green clay (WT).
		Whiteshell Till (WT)
23.2	28	WT.
	23.2-24.7	Soft sandy clay with heterolithic volcanic and granitoid pebbles.
	24.7-25.6	Green sandy till with volcanic clasts.
	25.6-25.9	Boulder, mafic volcanic.
	25.9-27.1	Green clay-sand till.
	27.1-28.5	Weathered clayey residual of weathered bedrock boulders, minor pebble bands and scattered pebbles in green grey fine grained matrix.
28	31.3	Bedrock. Light grey-green schist with quartz phenocrysts, siliceous banding and pyrite mineralization. No limonite staining. Schistosity at 60°CA near top of intersection steepening to 30°CA with depth (indicates possible glacial deformation rather than tectonic?).

EOH

**Sample Log
Sonic Drill Hole 93-2**

<u>SAMPLE #</u>	<u>HOLE SAMPLE #</u>	<u>DEPTH Ft</u>	<u>SAMPLE DESCRIPTION</u>	<u>ASSAY</u>
163720	1	23.1-24.7	Sandy distal till -2mm H.M.C.	
163725	"	" "	" " " " +2mm -5mm fraction	12 ppb
163729	"	" "	" " " " +5mm fraction	29 ppb
163719	2	24.7-25.9	Proximal till & boulder -2mm H.M.C.	
163724	"	" "	" " " " +2mm -5mm fraction	9 ppb
163718	3	25.9-27.1	Proximal till -2mm H.M.C.	
163723	"	" "	" " " +2mm -5mm fraction	6 ppb
163728	"	" "	" " " + 5mm fraction	19 ppb
163717	4	27.1-28.1	Coarse proximal basal till -2mm H.M.C.	
163722	"	" "	" " " " " +2mm -5mm fraction	
163727	"	" "	" " " " " + 5mm fraction	
163716	5	28.1-29.6	Bedrock- soft- light grey green schist, quartz eyes, siliceous bands. Dissem. pyrite. -2mm H.M.C.	
163715	5	29.6-31.3	AS ABOVE H.M.C.	
163730	"	28-29.6	As Above +2mm -5mm fraction	<5 ppb
163721	"	29.6-31.3	As Above +2mm -5mm fraction	<5 ppb

93-2

page 2

<u>ASSAY#</u>	<u>HOLE SAMPLE#</u>	<u>DEPTH Ft</u>	<u>SAMP DESCRIPTION</u>	<u>ASSAY</u>
163731	"	28-29	As above + 5mm coarse fraction	<5 ppb
163726	"	29-29.9	As above As above	19 ppb
163732	"	29.9-31.3	As above As above	37 ppb

**Drill Log
Sonic Drill Hole 93-3**

From	To	Description
Whitemouth Lake Till (WLT)		
0	3.7	Lost core.
3.7	4.9	Yellow-brown clay, as observed in 93-2, exact depth of sample unknown.
4.9	8.8	Only 2ft of sample obtained, depth indeterminable; consists of light brown-grey clay. 11ft of lost core.
8.8	9.2	Grey-brown sandy clay.
9.2	17.1	Dark grey clay, high rate of water flow at base of interval.
	12.5-12.8	Finely laminated.
Whiteshell Till (WT)		
17.1	20.6	Coarse sand-grit. Granitoid pebbles. Pyrite noted.
20.6	21.8	Coarse clay till.
21.8	22.1	Boulder.
22.1	23	Till. Clay rich matrix, containing bedrock boulder fragments.
23	23.9	Bedrock. Green volcanic, blue quartz phenocrysts and disseminated pyrite. F1 lineation plunging down the foliation as in 93-2.
EOH		

Sample Log
Sonic Drill Hole 93-3

<u>SAMPLE #</u>	<u>HOLE SAMPLE #</u>	<u>DEPTH Ft</u>	<u>SAMPLE DESCRIPTION</u>	<u>ASSAY</u>
163738	1	16.8 - 20.1	Coarse sandy grit; much pyrite, quartz and feldspar pebbles from granitic terrane. - 2mm H.M.C.	
163745	"	" "	As above +2mm -5mm fraction	63 ppb
163737	2	20.1 - 20.6	sand -2mm H.M.C.	
163744	"	" "	As above +2mm -5mm fraction	35 ppb
163736	3	20.6-21.6	Coarse clay till -2mm H.M.C.	
163743	"	" "	As above +2mm -5mm fraction	41 ppb
163735	4	21.6-22.1	Mafic volc. boulder -2mm H.M.C.	
163742	"	" "	As above +2mm -5mm fraction	14 ppb
163734	5	22.1-23	Clay rich, boulder rich till. -2mm H.M.C.	
163741	"	" "	As above +2mm -5mm fraction	15 ppb
163748	5	" "	As above Boulder	7 ppb
163749	"	" "	As above	16 ppb

<u>ASSAY #</u>	<u>HOLE SAMPLE #</u>	<u>DEPTH Ft</u>	<u>SAMP DESCRIPTION</u>	<u>ASSAY</u>
163733	6	23-23.9	Green chloritic volc; Blue qtz. eyes; dissem. py; BEDROCK. -2mm H.M.C.	
163740	"	" "	As above +2mm -5mm fraction	15 ppb
163746	"	" "	As above +2mm -5mm fraction	32 ppb

Drill Log
Sonic Drill Hole 93-4

From	To	Description
Whitemouth Lake Till (WLT)		
0	17.1	Clay.
	0-5.5	Medium brown to grey laminated clay. Laminations on the scale of mm to 2cm. Lithic fragments upto 2cm diameter, carbonate composition.
	5.5-17.1	Massive, unctuous, grey clay. Rare discontinuous laminations of fine grey sand. Carbonate clasts range frommm to 2cm in diameter, and comprise <5% of interval.
	14.9-15.2	Fine, grey sand bed.
	15.2-17.1	Massive, grey clay.
17.1	22	Sand.
	17.1-18	Wet, running, fine, grey sand.
	18-22	Sandy-clay to clayey-sand.
	18-19.4	Crudely laminated on cm scale. beds composed of alternating sandy (predom.) and clay (predom.) layers. Very few carbonate clasts.
	19.4-19.8	Clayey-sand, unbedded.
	19.8-22	Predominantly sand.
22	25.9	Clay. Very minor carbonate clast component.
	22-25.9	Massive, unbedded, grey clay, as from 5.5-14.9. Approximately 5% carbonate clasts.
Whiteshell Till (WT)		
25.9	26.2	Grey clay, locally finely laminated, laminations highlighted by colour variation. Discontinuous laminations upto 5mm thick noted. Angular granite clasts upto 7.5cm observed.
26.2	28.6	Till.
	26.2-27.7	Sandy till, (running sand). Very wet clay/mud. Lacks coherence, lost sample from 86.5-90. Fine to medium grained, grey sand, contains angular to subround, heterolithic fragments, including siliceous, pyrite bearing rock. Largest fragment >10cm, foliated, with 2% pyrite.
	27.7-28.7	Grey sandy till, coarse fragments.

Drill Log 93-4
Cont.

From	To	Description
28.6	29.9	Bedrock. Light to medium, grey-green, moderately developed planar fabric, chloritic, disseminated pyrite, approximately 2%.
EOH		

Sample Log
Sonic Drill Hole 93-4

<u>SAMPLE #</u>	<u>HOLE SAMPLE #</u>	<u>DEPTH Ft</u>	<u>SAMPLE DESCRIPTION</u>	<u>ASSAY</u>
163750	1	27.9-28.7	Grey sandy till; coarse fragments. H.M.C.	
163751	"	" "	" " " +2mm -5mm fraction	9 ppb
163752	"	" "	" " " +5mm fraction	20 ppb
163753	BR	28.7-29.9	Bedrock, light to medium grey green, moderate fabric, chloritic. + - 2% py.	20 ppb

Drill Log
Sonic Drill Hole 93-5

From	To	Description
0	0.3	Road gravel.
		Whitemouth Lake Till (WLT)
0.3	1.5	Grey clay and humus. Only 0.3m of core obtained, possibly clay plug penetrating running sand.
1.5	17.1	Grey clay. Crudely laminated and colour banded near upper contact, becomes massive, unctuous and competent with depth.
	1.8-17.1	Only 1.8m of sample obtained, possibly indicates the presence of wet, running sand capped by grey clay, penetrated by plugged dore barrel, or loss during withdrawel of core barrel because of lack of competent sediment plug.
17.1	17.7	Till. Clay matrix with heterolithic, angular clasts. clast content ranges from near 100% at upper contact, decreasing with depth before grading into clay.
17.7	18.9	Grey clay, as observed in obtained sample from 5-56. Carbonate clasts noted. Note apparent juxtaposition of this interval (WLT) and the immediately overlying interval (WT). Possible remobilization of WT by WLT?
		Whiteshell Till (WT)
18.9	19.8	Fine to medium grained, grey heterolithic sand. Becomes coarser grained downhole (to pebble sized, angular fragments possibly ground cobble/boulder).
	18.9	Grey carbonate clast, 15cm long by with of core, rusty on fractured surfaces.
19.8	20.3	Cobble/boulder, grey-green, well developed planar fabric, quartz-chlorite-sericite-pyrite.
20.3	20.4	Fissile grey clay, containing angular fragments of foliated, sulphide bearing rock (5% pyrite noted). Very fine sulphide grains noted in clay matrix.
20.4	21.3	Bedrock. Well developed planar fabric, siliceous with chlorite and sericite development. Locally abundant pyrite mineralization, most commonly associated with chloritic areas. Pyrrhotite and rare chalcopyrite noted. Overall 3-5% sulphide, over narrow intervals (i.e. cm) approximately 50% of interval may be sulphide. Blue quartz phenocrysts occur rarely.

EOH

**Sample Log
Sonic Drill Hole 93-5**

<u>SAMPLE #</u>	<u>HOLE SAMPLE #</u>	<u>DEPTH Ft</u>	<u>SAMPLE DESCRIPTION</u>	<u>ASSAY</u>
163756	1	17.1-17.7	Grey clay - western till. H.M.C.	
163760	"	" "	" " "	15 ppb
163755	2	17.7-18.9	Grey clay, carb clasts Western till. H.M.C.	
163759	"	" "	" " " +2mm -5mm fraction	39 ppb
163754	3	18.9-20.4	Sand gravel, chloritic pyritic volcanic boulder Grey clay with sulphides H.M.C. N. E. TILL	
163758	"	" "	" " " " +2mm -5mm fraction	67 ppb
163757	"	" "	" " " " +5mm fraction	46 ppb
163761	BR	20.4-21.3	BEDROCK - well developed fabric, siliceous, weak chlorite, sericite. Pyrite as stringers & dissem. + - 5% pyrite. Grab sample #1	1 3 8 1 p p b
163762	"	" "	" " " " 3 - 5% discontinuous pyrite. Grab sample #2	215 ppb
163763	BR	20.4-21.3	AS ABOVE <3% pyrite. Grab sample # 3.	4837 ppb

Drill Log
Sonic Drill Hole 93-6

From	To	Description
0	1.1	Brown and grey clay and organic material.
		Whitemouth Lake Till (WLT)
1.1	4.6	Brown and grey clay, crudely laminated on mm scale. Laminations are often discontinuous and highlighted by colour variation. Approximately 5% carbonate clasts, upto 1cm in size.
4.6	4.9	Brown clay, irregular, continuous and discontinuous bands/laminations (dark brown to light brown-orange in colour). Carbonate fragments upto 3cm (dominantly <5mm) comprise 5% of the interval. Irregular pockets of fine sand at upper contact, appears to be well sorted, unbedded and entirely enveloped in clay. Downhole contact abrupt.
4.9	5.5	Bedrock. Undeformed gabbro, approximately 5% blue quartz phenocrysts in a homogenous, phaneritic sub-ophitic, matrix.
EOH		

**Sample Log
Sonic Drill Hole 93-6**

Bedrock at 4.9m, gabbro.

No Whiteshell Till.

No Samples

**Drill Log
Sonic Drill Hole 93-7**

From	To	Description
		Whitemouth Lake Till (WLT)
0	1.8	Brown clay, finely laminated, contains carbonate clasts.
1.8	7.6	Dark brown till, limited core recovery. Possibly cohesive cap to sand layer, causing penetration of a sand layer with no recovery. Clay and grit in groundmass. Heterolithic, subround fragments composed of carbonate (dominant, upto 1cm) with subordinate volcanic fragments (upto 5cm).
7.6	16.5	Grey-brown clay, as in previous holes, massive, no bedding, upto 5% carbonate clasts. 7.6-8.2 5-10% clast content, continuous lamellae highlighted by grey-brown colour variations.
		Whiteshell Till (WT)
16.5	18.3	Green-grey clay, softer and wetter than clay immediately uphole. Apparently unlaminated and massive. Few clasts (i.e. 2-3%), with one green fragment upto 7.5cm although usually on a mm scale, only volcanic fragments observed (grey-green fine grained, apparently massive).
18.3	19.2	Bedrock. Gabbro, blue quartz phenocrysts (approximately 10%), feldspar (pink and white) approximately 70%, ferromagnesian minerals 20%. Similar to bedrock from hole 93-6 but for presence of pink feldspar (possibly a different phase of the same gabbroic body).
EOH		

**Sample Log
Sonic Drill Hole 93-7**

Bedrock at 18.3m, gabbro as in 93-6.

No Whiteshell Till.

No samples.

Drill Log
Sonic Drill Hole 93-8

From	To	Description
Whitemouth Lake Till (WLT)		
0	4.9	Brown clay, finely laminated, homogenous, contains 5% cream coloured carbonate fragments and rare fine grained, green volcanic fragments.
4.9	5.5	Boulder, granitoid.
5.5	7.6	Brown clay, laminated but not as finely as uphole. Contorted and discontinuous laminae upto 2mm thick. Volcanic fragments upto 1cm (dominantly much smaller). No carbonate fragments observed. Groundmass as uphole.
Whitshell Till (WT)		
7.62	9.8	Till. 7.6-7.9 Highly weathered gabbro clast, dark green with blue quartz phenocrysts and fine sulphide disseminations. 7.9-9.8 Green-brown clay with sand component, particularly near the upper contact. Volcanic fragments throughout, 5% or more locally. Crude laminations noted on mm to cm scale, highlighted by colour variation. 9.0-9.8 Groundmass composed of brown caly. Remainder of unit is composed of highly weathered clasts often with blue quartz phenocrysts, indicating possible gabbro.
9.8	11.9	Sand, clay with volcanic clasts. Clasts from 1-5cm. Possibly weakly laminated in places. Clasts comprise 5-10% of unit.
11.9 EOH	13.4	Sheared and weathered bedrock, chloritic.

Sample Log
Sonic Drill Hole 93-8

<u>SAMPLE #</u>	<u>HOLE SAMPLE #</u>	<u>DEPTH Ft</u>	<u>SAMPLE DESCRIPTION</u>	<u>ASSAY</u>
	1	7.9-9.6	Green brown clay-sand, banded; volcanic clasts. H.M.C.	
163766	"	" "	" " " " +2mm -5mm fraction	<5 ppb
	2	9.6-11	Sandy clay; 5-10% volcanic clasts. H.M.C.	
163765	"	" "	" " " " +2mm -5mm fraction	<5 ppb
	3	11-12.5	Same as 31.5-36 H.M.C.	
163764	"	" "	" " " " +2mm -5mm fraction	<5 ppb
163769	BR	12.5-13.4	Bedrock - Sheared chloritic mafic volcanic.	<5 ppb

**Drill Log
Sonic Drill Hole 93-9**

From	To	Description
Whitemouth Lake Till (WLT)		
0	5.8	Brown clay as in previous drill holes; wet, unctuous and containing carbonate clasts, broadly laminated on mm to cm scale.
5.8	6.4	Fine sand, brown, homogenous, no bedding.
6.4	8.5	Grey clay, as before. Dense grey clay, minor clast component composed of carbonate fragments with very subordinate volcanic fragments.
8.5	13.4	Brown sand, fine grained, wet, unbedded, well sorted.
13.4	15.4	Grey clay, as above.
15.4	16.5	Brown sand, very fine grained to medium grained, some clay component, unbedded.
16.5	19.5	Brown sand, dominantly sand sized grains with pebbles upto 2cm in size. Pebbles are heterolithic but dominantly carbonate with subordinate volcanics (i.e. ratio 80:20, pebble sized fraction comprises 10% of unit). No bedding noted although some grading noted, with fine grained to coarse grained gradation from 16.5-17.1 and 17.1-19.
19.5	23.1	Grey clay, generally massive and homogenous with 5% clasts, dominantly carbonate.
	22.9-23.2	Finely laminated lighter and darker clays bedded on a mm scale.
Whiteshell Till (WT)		
23.1	25.3	Grey sand.
	23.2-23.8	Muddy sand, very wet, no bedding.
	23.8-25.3	Grey sand, fine to medium grained, no bedding, no clasts.
25.3	25.6	Till, 30% heterolithic clasts in a sandy-clay matrix.
25.6 EOH	26.8	Bedrock. Mafic volcanic, mm scale QCV with pyrite.

Sample Log
Sonic Drill Hole 93-9

<u>SAMPLE #</u>	<u>HOLE SAMPLE #</u>	<u>DEPTH Ft</u>	<u>SAMPLE DESCRIPTION</u>	<u>ASSAY</u>
	1	23.2-25.3	Grey sand H.M.C.	
163768	"	" "	" " "	<5 ppb
	2	25.3-25.6	Till, 30% mixed clasts. H.M.C.	
163767	"	" "	" " " " +2mm -5mm fraction	<5 ppb
163770	BR	25.6-26.8	Bedrock - mafic volcanic. trace pyrite. Grab samp.	<5 ppb

Appendix II
Rotosonic Drill Hole Sections

SYMBOLS



Clay Silt



Sand



Pebbles



Lithic Fragments



Boulder



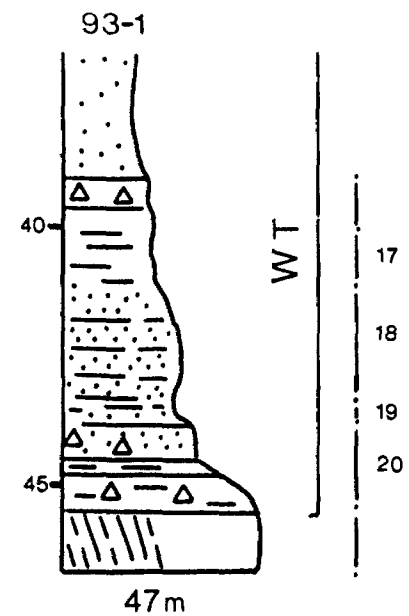
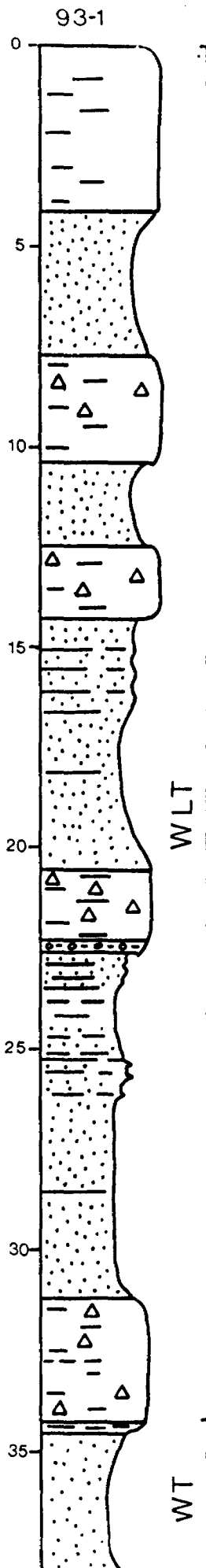
Bedrock



Lost Core



Sample Interval

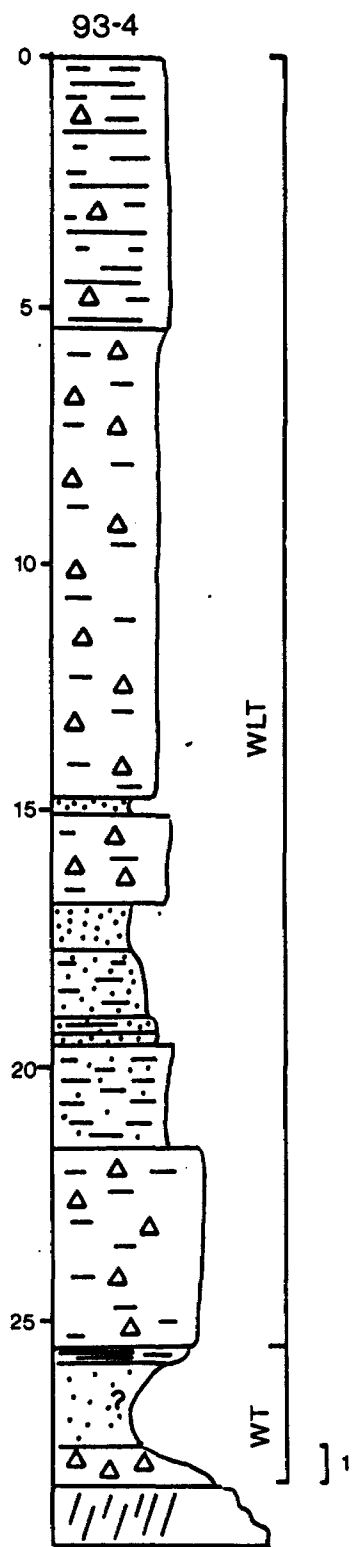
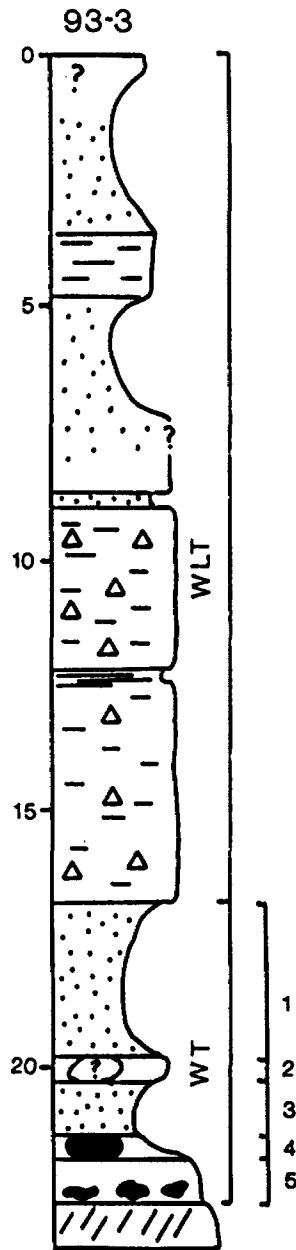
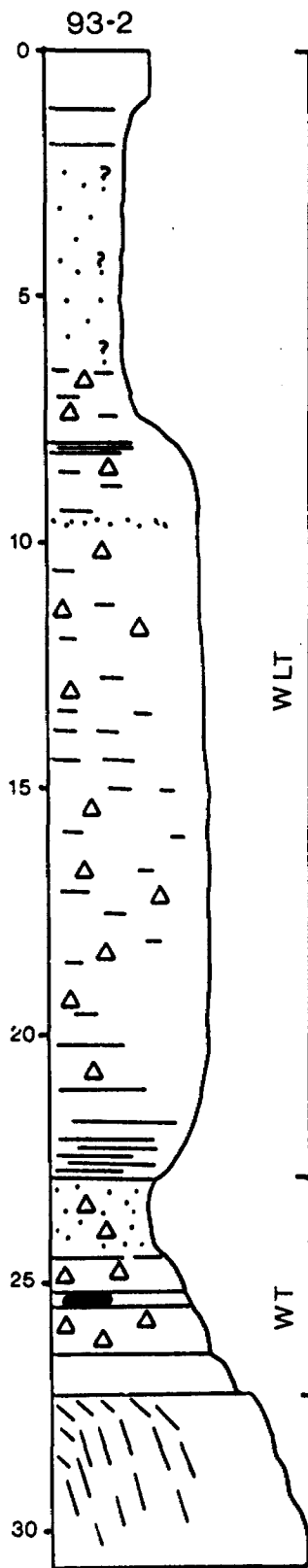


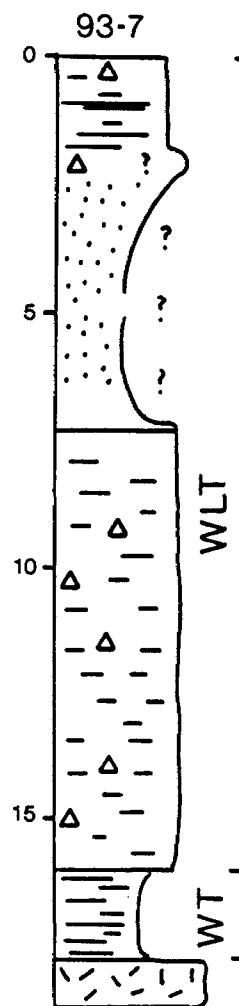
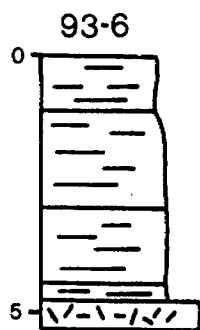
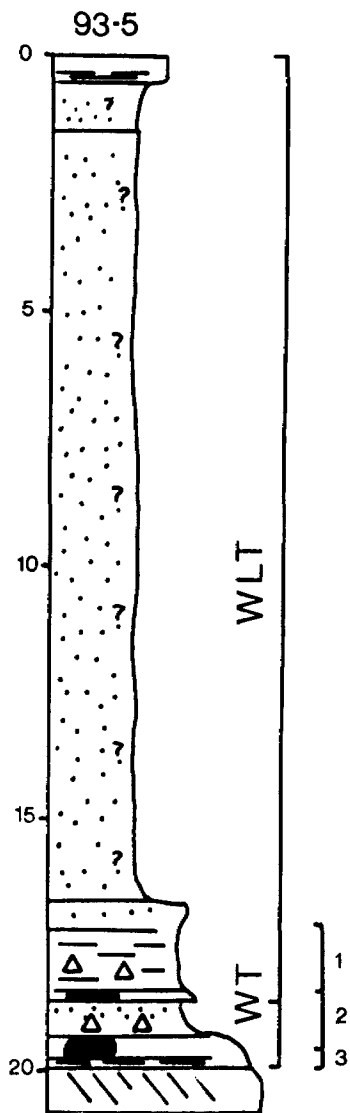
17

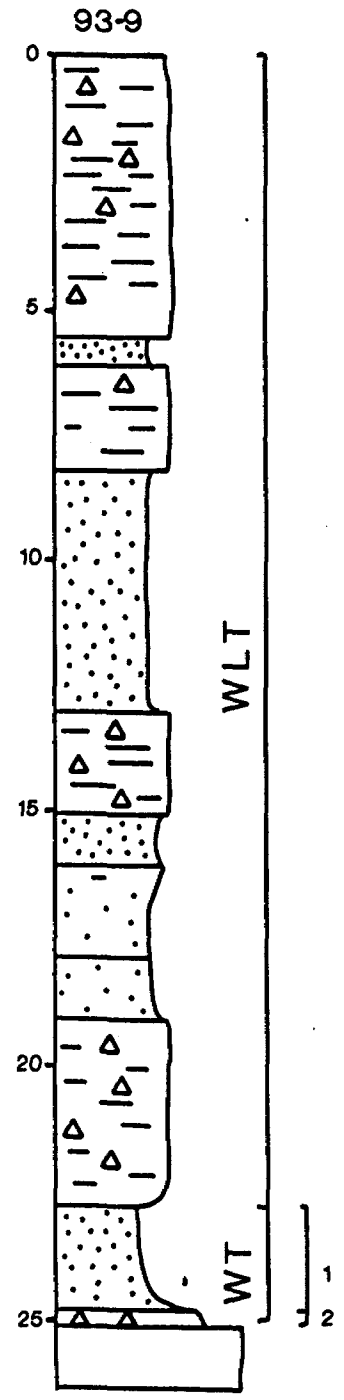
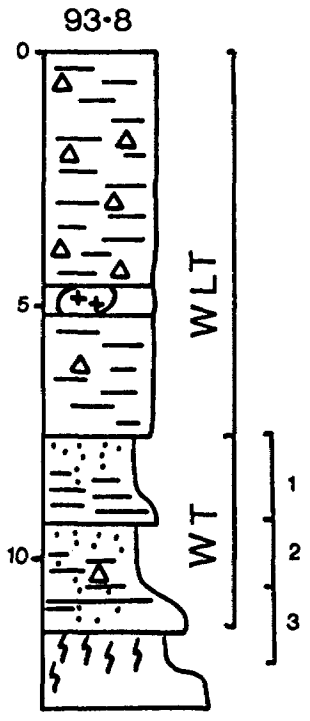
18

19

20







Appendix III
Property Description

APPENDIX I

Rainy River Exploration Project

PATENTED FARM LANDS HELD UNDER OPTION AGEEMENTS

<u>Owner & Address</u>	<u>Lot #</u>	<u>Conc. #</u>	<u>Township</u>	<u>Acreage</u>
A.R.D.A.(*) 10 Alcorn Ave., #10 Toronto, Ontario M4V 3B3	N1/2 of #8 Pcl 14238	3	Richardson	159.5
A.R.D.A.	S1/2 #8 Pcl. 4947	3	Richardson	159.5
A.R.D.A.	W1/2 S1/2 #7 Pcl. 4947	3	Richardson	80
A.R.D.A.	E1/2 N1/2 #7 Pcl. 22495	2	Richardson	79
A.R.D.A.	N1/2 S1/2 #8 Pcl. 22496	2	Richardson	79.25
A.R.D.A.	S1/2 #7 Pcl. 11912	2	Richardson	158
A.R.D.A.	N1/2 of #8 Pcl 4259	1	Richardson	157.27

(*) These properties were de-patented and a License of Occupation (L.O. #14925) was issued by the Ministry of Northern Development and Mines in favour of Nuinsco Resources Limited, effective July 1, 1993

Robert D. Davis Janet N. Davis Box 3513 Fullerton, CA 92634-3513	N1/2 #4 Pcl. 11087	3	Richardson	160
Ditto	S1/2 #4 Pcl. 92634	2	Richardson	160
Mrs. S. S. Elfving 20 Waverley Place Hillsborough, Calif. 94010	E1/2 #6 Pcl. 14408	1	Richardson	160

Floyd Georgeson R.R. #1 Stratton, Ont. POW 1N0	S1/2 S1/2 #8 Pcl. 5483	2	Richardson	76.58
Ditto	W1/2 N1/2 #7 Pcl. 4534	2	Eichardson	79
Reino Huitika Helen Pattison 750 First Street Fort Frances, Ont. P9A 2Z2	N1/2 #3 Pcl. 8742 N1/2 S1/2 #3 Pcl. 11326	2	Richardson	160
Kate Kereliuk 831 Armit Avenue Fort Frances, Ont. P9A 3J2	S1/2 S1/2 #3 Pcl. 4635	2	Richardson	80
Ditto	N1/2 #2 Pcl. 13401	2	Richardson	160
D. Lafever J.E. Lafever W.R. Kistler G.L. Pape 2509 Sunrise Lane Burlington, Iowa 52601	S1/2 #6 Pcl. 17110	2	Richardson	155.98
Evelyn Loveday R.R. #2 Emo, Ont. POW 1E0	S1/2 S1/2 #4 Pcl. 9080	3	Richardson	80
T.J. & D.M Martin R.R. #1, Stratton, Ont. POW 1N0	N/W 1/4 S/W 1/4 S/E 1/4	1 12 12	Patullo Patullo Patullo	162 164 162
A.E. & C.A. McClain R.R. #2 Stratton, Ont. POW 1N0	S1/2 #5 Pcl. 11409	2	Richardson	157.28
J.E. & L.J. Morrison 11 Forest Drive Bethany, Ontario LOA 1A0	W1/2 #6 Pcl. 14407	1	Richardson	160

Ed. Mose Emo, Ontario P0W 1E0	N1/2 S1/2 #6 Pcl. 16927	3	Richardson	80
C. J. Munro R.R. #1 Stratton, Ont. P0W 1N0	E1/2 N1/2 #11 Pcl. 13514	1	Richardson	78.91
H.C. Roen R.R. #1 Stratton, Ont. P0W 1N0	N1/2 #6 Pcl. 17154	2	Richardson	160
Ditto	Pt. S1/2 #6 Pcl. 21129	1	Richardson	78
Ditto	N1/2 #4 Pcl. #10029	2	Richardson	159
R.W. & W.B. Shelton 3117 - W5th Street Greeley, Colo. 80631	E1/2 S1/2 #9 Pcl. 18580	2	Richardson	78.3
D.W. & L.J. Strom R.R. #1 Fort Frances, Ont. P9A 3M2	N1/2 S1/2 #4	3	Richardson	80
W. & C. Caul R.R. #1 Stratton, Ont. P0W 1N0	W1/2 N1/2 #9 Pcl. 14665	1	Richardson	79.01
Paul Wepruk 1231 Kings Hwy. Fort Frances, Ont. P9A 2X8	N1/2 #7 Pcl. 4950	1	Richardson	158

LIST OF CLAIM DATA

claims now staked

Township or Location	Claim	Record Date	# of Units
Menary Township	1161084	11/20/91	4
	1161089	11/20/91	2
	1161092	10/29/91	6
	1161094	12/26/91	16
	1161096	12/26/91	16
	1161205	11/01/91	4
	1161207	11/01/91	12
	1161208	10/29/91	16
	1161229	02/18/92	1
	1161307	03/02/92	16
	1161441	05/08/92	8
	1161442	05/08/92	1
	1161443	05/08/92	8
	1161432	10/23/92	16
	1105447	01/27/93	1
	1105448	01/27/93	4
	<u>1105449</u>	<u>01/27/93</u>	<u>4</u>
		135	
Rowe Township	1161309	03/23/92	16
	<u>1161310</u>	<u>03/23/92</u>	<u>16</u>
			32
Potts Township	1161279	04/10/92	4
	1161280	04/10/92	16
	1161304	04/10/92	2
	1161328	04/10/92	8
	1105416	09/29/92	8
	1105417	09/29/92	6
	1105418	09/29/92	16
	1105419	09/29/92	8
	1105420	09/29/92	4
	1105421	09/29/92	8
<u>1105431</u>	<u>10/23/92</u>	<u>3</u>	
			83
Sifton Township	1161313	03/23/92	2
	1161314	03/23/92	4
	<u>1161315</u>	<u>02/23/92</u>	<u>8</u>
			14

LIST OF CLAIM DATA

claims now staked

Township or Location	Claim	Record Date	# of Units
Fleming Township	1161224	01/20/92	15
	1161225	01/20/92	12
	1161226	01/20/92	12
	<u>1161227</u>	<u>01/20/92</u>	<u>12</u>
			51
Senn Township	1161305	03/02/92	16
	1161306	03/02/92	16
	1161308	03/02/92	6
	1161220	01/10/92	6
	1161222	01/20/92	16
	1161223	01/20/92	16
	1161228	01/20/92	6
	1161281	04/10/92	16
	1161282	04/10/92	16
<u>1105440</u>	<u>04/27/93</u>	<u>16</u>	
			130
McLarty Township	1161283	04/10/92	16
	1161098	01/10/92	9
	1161099	01/10/92	6
	1161101	01/10/92	12
	1161297	02/20/92	16
	1161102	01/10/92	12
	1161221	01/10/92	12
	<u>1161296</u>	<u>02/20/92</u>	<u>16</u>
			99
Dash Lake	1161294	02/20/92	6
	1161217	01/10/92	15
	1161218	01/10/92	12
	1161289	02/20/92	6
	1161290	02/20/92	16
	1161291	02/20/92	15
	1161292	02/20/92	12
	1161293	02/20/92	12
	<u>1161295</u>	<u>02/20/92</u>	<u>16</u>
			110

LIST OF CLAIM DATA

claims now staked

Township or Location	Claim	Record Date	# of Units
Richardson Township	1161073	12/19/91	8
	1161074	12/19/91	4
	1161075	12/19/91	2
	1161076	12/19/91	12
	1161077	12/19/91	16
	1161078	12/19/91	12
	1161079	12/19/91	8
	1161080	12/19/91	8
	1161081	12/19/91	8
	1161082	12/19/91	8
	1161100	12/19/91	8
	1161311	03/23/92	8
	1105422	03/23/92	4
	1161312	10/09/92	4
	1105423	10/09/92	4
	1105424	10/09/92	16
	1105425	10/09/92	8
	1105426	10/09/92	2
	1105427	10/15/92	4
	1105428	10/15/92	12
1105429	10/15/92	4	
	<u>1105430</u>	<u>10/15/92</u>	<u>12</u>
			172

SUMMARY

Menary	135
Rowe	32
Sifton	14
Potts	83
Senn	130
Flemming	51
Dash Lake	110
McLarty	99
Richardson	172
Total	826

Appendix IV
Geochemical Results



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
(807) 623-6448 FAX 623-6820

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NUINSCO RESOURCES LTD.
Box 306
Nester Falls, Ontario
POX 1K0

August 19, 1993

Job #934282
#934292

Accurassay	Sample #	Customer	Gold ppb	Gold Oz/t
	1	163701	<5	<0.001
	2	163702	6	<0.001
	3	163708	<5	<0.001
	4	163709	<5	<0.001
	5	163710	<5	<0.001
	6	163711	<5	<0.001
	7	163712	<5	<0.001
	8	163713	<5	<0.001
	9	163714	<5	<0.001
	10	163721	<5	<0.001
	10	163721 Check	<5	<0.001
	11	163722	10	<0.001
	12	163723	6	<0.001
	13	163724	9	<0.001
	14	163725	12	<0.001
	15	163726	19	<0.001
	16	163727	8	<0.001
	17	163728	19	<0.001
	18	163729	29	<0.001
	19	163730	<5	<0.001
	19	163730 Check	<5	<0.001
	20	163731	<5	<0.001
	21	163732	37	0.001
	22	163740	15	<0.001
	23	163741	15	<0.001
	24	163742	14	<0.001
	25	163743	41	0.001
	26	163744	35	0.001
	27	163745	63	0.002
	28	163746	32	<0.001
	28	163746 Check	34	<0.001

Certified By: Chris Bever



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
(807) 623-6448 FAX 623-6820

Page 2

NUINSCO RESOURCES LTD.
Box 306
Nester Falls, Ontario
POX 1K0

August 19, 1993

Job #934282
#934292

Accurassay	Sample #	Customer	Gold ppb	Gold Oz/t
	29	163748	7	<0.001
	30	163749	16	<0.001
	31	163751	9	<0.001
	32	163752	20	<0.001
	33	163753	20	<0.001
	34	163757	46	0.001
	35	163758	67	0.002
	36	163759	39	0.001
	37	163760	11	<0.001
	37	163760 Check	15	<0.001
	38	163761	1381	0.040
	39	163762	215	0.006
	40	163763	4837	0.141
	41	163764	<5	<0.001
	42	163765	<5	<0.001
	43	163766	<5	<0.001
	44	163767	<5	<0.001
	45	163768	<5	<0.001
	46	163769	<5	<0.001
	46	163769 Check	9	<0.001
	47	163770	<5	<0.001
	48	163771	1144	0.033
	49	163772	5	<0.001
	50	163773	<5	<0.001
	51	163774	26	0.001
	51	163774 Check	30	0.001
	52	163775	15	<0.001
	53	163776	<5	<0.001
	54	163777	7	<0.001
	55	163778	9	<0.001
	56	163779	37	0.001

Certified By: Chris Bever



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
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(807) 623-6448 FAX 623-6820

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NUINSCO RESOURCES LTD.
Box 306
Nester Falls, Ontario
POX 1K0

August 19, 1993

Job #934282
#934292

Accurassay	Sample # Customer	Gold ppb	Gold Oz/t
	141 163869	<5	<0.001
	142 163870	<5	<0.001
	143 163871	<5	<0.001
	144 163872	<5	<0.001
	145 163873	<5	<0.001
	146 163874	7	<0.001
	147 163875	<5	<0.001
	148 163876	13	<0.001
	149 163877	12	<0.001
	149 163877 Check	10	<0.001
	150 163878	17	<0.001
	151 163879	25	<0.001
	151 163879 Check	16	<0.001
	152 163880	<5	<0.001
	153 163881	<5	<0.001
	154 163882	<5	<0.001
	154 163882 Check	<5	<0.001
	155 163883	<5	<0.001
	156 163884	<5	<0.001
	157 163885	6	<0.001
	158 163886	72	0.002
	159 163887	46	0.001
	160 163888	<5	<0.001
	161 163889	<5	<0.001
	162 163890	33	<0.001
	163 163891	7	<0.001
	163 163891 Check	9	<0.001
	164 163892	25	<0.001
	165 163893	5	<0.001
	166 163894	<5	<0.001
	167 163895	5	<0.001

Certified By: Chris Bever



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
(807) 623-6448 FAX 623-6820
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NUINSCO RESOURCES LTD.
Box 306
Nester Falls, Ontario
POX 1K0

August 19, 1993

Job #934282
#934292

Accurassay	Sample # Customer	Gold ppb	Gold Oz/t
168	163896	6	<0.001
169	163897	5	<0.001
170	163898	5	<0.001
171	163899	5	<0.001
172	163900	6	<0.001
172	163900 Check	5	<0.001
173	163901	5	<0.001
174	163902	7	<0.001
175	163903	9	<0.001
176	163904	6	<0.001
177	163905	5	<0.001
178	163906	7	<0.001
179	163907	<5	<0.001
180	163908	7	<0.001
180	163908 Check	8	<0.001

Certified By: Chris Bowen



ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

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NUINSCO RESOURCES LTD.
Box 306
Nestor Falls, Ontario
POX 1K0

August 13, 1993

Job #934282
#934292

Sample I.D.	Arsenic ppm	Sample I.D.	Arsenic ppm	Sample I.D.	Arsenic ppm	Sample I.D.	Arsenic ppm	Sample I.D.	Arsenic ppm
163701	22	163760	15	163796	5	163832	17	163873	2
163702	15	163761	58	163797	33	163833	25	163874	3
163708	20	163762	54	163798	12	163834	27	163875	<2
163709	18	163763	30	163799	13	163835	15	163876	120
163710	19	163764	13	163800	7	163836	11	163877	59
163711	15	163765	5	163801	11	163837	8	163878	52
163712	14	163766	8	163802	11	163838	5	163879	47
163713	14	163767	15	163803	10	163839	3	163880	94
163714	17	163768	15	163804	25	163840	8	163881	20
163721	58	163769	16	163805	23	163841	8	163882	8
163722	41	163770	<2	163806	10	163842	7	163883	7
163723	21	163771	9	163807	14	163843	7	163884	11
163724	18	163772	6	163808	54	163844	<2	163885	6
163725	19	163773	13	163809	15	163845	<2	163886	12
163726	47	163774	12	163810	15	163846	4	163887	16
163727	39	163775	8	163811	14	163852	<2	163888	4
163728	25	163776	6	163812	50	163853	11	163889	3
163729	18	163777	14	163813	15	163854	13	163890	9
163730	102	163778	4	163814	3	163855	2	163891	8
163731	51	163779	14	163815	13	163856	<2	163892	6
163732	12	163780	14	163816	8	163857	2	163893	12
163740	6	163781	5	163817	5	163858	8	163894	<2
163741	15	163782	9	163818	14	163859	18	163895	<2
163742	10	163783	10	163819	20	163860	3	163896	3
163743	17	163784	10	163820	4	163861	2	163897	3
163744	14	163785	10	163821	13	163862	3	163898	6
163745	30	163786	13	163822	20	163863	10	163899	5
163746	6	163787	10	163823	40	163864	4	163900	3
163748	14	163788	11	163824	5	163865	6	163901	18
163749	9	163789	15	163825	24	163866	5	163902	20
163751	13	163790	10	163826	12	163867	<2	163903	22
163752	18	163791	13	163827	8	163868	3	163904	3
163753	17	163792	10	163828	10	163869	3	163905	4
163757	22	163793	11	163829	15	163870	11	163906	5
163758	22	163794	7	163830	7	163871	12	163907	8
163759	19	163795	20	163831	3	163872	4	163908	9

Certified By:

John Bevan



ACCURASSAY LABS

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
(807) 623-6448 FAX 623-6820
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NUINSCO RESOURCES LTD.
Box 306
Nestor Falls, Ontario
POX 1K0

August 13, 1993

Job #934292
#934282

	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	P2O5	TiO2	MnO	BaO	Cr2O3	SrO	Loi	Total
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
163777	41.06	12.43	11.07	15.46	8.10	0.01	0.22	0.160	0.377	0.104	0.004	0.201	0.020	6.4	95.6
163781	71.41	14.72	2.02	1.57	1.27	6.17	0.60	0.082	0.288	0.010	0.027	0.010	0.042	1.7	99.9
163782	71.80	14.05	2.59	0.79	4.98	2.60	1.11	0.107	0.283	0.010	0.051	0.010	0.029	1.5	99.9
163783	51.07	11.89	18.26	3.43	8.07	2.52	0.44	0.264	2.337	0.135	0.017	0.042	0.023	1.7	100.2
163784	51.01	11.21	16.00	3.30	10.15	3.37	0.30	0.262	2.083	0.125	0.009	0.047	0.028	2.6	100.5
163785	48.16	13.24	16.22	4.35	12.66	1.41	0.32	0.191	1.421	0.115	0.006	0.052	0.016	2.4	100.6
163786	49.06	17.01	9.81	4.48	12.02	1.84	0.36	0.144	0.705	0.094	0.006	0.021	0.013	1.3	96.9
163787	51.97	12.92	13.96	7.07	11.65	1.60	0.30	0.183	1.127	0.156	0.004	0.044	0.011	1.0	102.0
163788	51.28	12.87	14.27	5.98	10.88	2.55	0.36	0.312	1.322	0.094	0.005	0.057	0.012	0.7	100.7
163789	50.84	12.34	15.28	5.48	8.44	2.15	0.23	0.318	1.818	0.115	0.004	0.034	0.012	2.3	99.4
163790	48.87	13.21	11.65	5.59	12.34	1.88	0.28	0.175	1.021	0.125	0.004	0.064	0.012	2.3	97.5
163791	48.13	13.65	12.23	5.56	12.59	1.10	0.31	0.158	1.028	0.125	0.008	0.062	0.015	2.5	97.5
163792	49.52	13.59	12.75	5.44	13.63	0.80	0.29	0.166	0.984	0.135	0.005	0.067	0.014	2.2	99.6
163795	73.01	14.80	2.86	0.19	0.35	2.33	2.42	0.073	0.363	0.020	0.069	0.015	0.023	3.1	99.6
163798	69.71	12.98	4.57	1.84	2.43	1.68	1.80	0.076	0.351	0.031	0.048	0.019	0.024	2.9	98.5
163802	66.46	16.34	4.19	1.80	4.07	1.82	1.72	0.121	0.419	0.073	0.045	0.012	0.043	1.6	98.7
163803	49.55	12.33	13.78	6.91	10.20	1.84	0.43	0.138	1.056	0.104	0.008	0.048	0.018	1.3	97.7
163804	49.00	13.02	16.36	5.37	12.64	1.52	0.38	0.127	1.102	0.187	0.006	0.062	0.019	0.7	100.5
163807	68.13	14.63	3.89	1.70	4.36	1.43	1.76	0.146	0.422	0.020	0.084	0.013	0.039	1.4	98.0
163815	45.25	13.04	18.62	3.33	11.69	1.47	0.30	0.211	1.932	0.084	0.007	0.057	0.052	1.0	97.0
163816	68.05	13.35	3.01	1.59	1.53	4.81	1.20	0.082	0.296	0.010	0.039	0.013	0.032	2.1	96.1
163818	47.87	12.68	15.81	2.95	13.14	1.12	0.36	0.208	1.682	0.135	0.009	0.070	0.028	2.0	98.1
163819	36.87	16.30	18.57	6.84	6.39	2.47	0.12	0.248	2.076	0.178	0.005	0.064	0.043	7.3	97.5
163820	67.64	16.74	2.91	2.28	0.28	6.60	1.26	0.076	0.305	0.020	0.042	0.012	0.039	1.6	99.8
163836	46.84	13.26	13.28	11.20	12.73	0.80	0.42	0.121	0.650	0.156	0.009	0.156	0.009	1.3	100.9
163837	46.85	12.95	13.00	12.02	13.32	0.73	0.19	0.141	0.647	0.156	0.004	0.182	0.007	1.4	101.6
163839	49.64	10.88	11.79	9.13	13.01	1.30	0.22	0.101	0.598	0.115	0.004	0.142	0.007	1.5	98.4
163842	50.13	12.08	13.91	7.47	9.85	2.25	0.68	0.144	0.906	0.115	0.011	0.072	0.013	1.4	99.0
163854	48.13	12.83	12.03	9.61	11.65	0.59	0.14	0.138	0.628	0.146	0.008	0.136	0.010	3.7	99.7
163859	42.25	9.83	12.95	20.13	7.73	0.01	0.08	0.110	0.407	0.115	0.003	0.356	0.001	5.9	99.9
163871	46.16	21.64	10.01	4.45	9.61	2.56	0.48	0.138	0.917	0.104	0.008	0.044	0.020	3.8	99.9
163881	47.10	14.72	16.91	5.44	5.36	3.93	0.31	0.253	2.376	0.146	0.005	0.050	0.005	2.5	99.1
163882	45.65	13.22	18.60	5.72	9.74	2.05	0.23	0.225	2.509	0.166	0.006	0.060	0.012	1.9	100.1
163883	46.99	14.68	12.97	6.71	11.20	1.74	1.00	0.093	0.937	0.125	0.006	0.059	0.017	1.9	98.4
163891	46.31	14.26	13.31	6.22	11.69	2.25	0.25	0.211	1.088	0.084	0.007	0.076	0.006	1.6	97.4
163902	50.78	13.06	15.57	5.19	11.44	2.12	0.32	0.194	1.317	0.135	0.009	0.048	0.012	0.6	100.8

Certified By: *Chris Bever*



ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

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NUINSCO
Box 306
Nestor Falls, Ontario
POX 1K0

September 7, 1993

Job #934336

Sample #	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	TiO2 %	MnO %	BaO %	Cr2O3 %	SrO %	LOI %	Total %	Zr %
163909	45.15	14.30	13.90	6.35	10.91	2.21	0.39	0.160	0.932	0.182	0.009	0.056	0.011	2.4	97.0	<0.01
163910	45.40	13.79	12.28	7.51	9.95	2.09	0.54	0.116	0.764	0.183	0.009	0.048	0.009	2.6	95.3	<0.01
163911	46.88	12.46	13.44	8.48	11.10	2.01	0.44	0.114	0.678	0.232	0.013	0.085	0.006	2.0	97.9	<0.01
163912	48.04	12.65	11.67	7.05	11.92	1.77	0.24	0.137	0.609	0.194	0.016	0.076	0.008	1.7	96.1	0.01
163914	47.85	14.02	11.56	6.98	11.50	2.01	0.35	0.133	0.695	0.189	0.010	0.072	0.010	2.6	98.0	0.01
163915	45.19	14.22	12.19	6.58	11.99	1.85	0.27	0.087	0.699	0.200	0.005	0.076	0.011	2.4	95.8	0.02
163916	46.59	14.45	12.11	8.25	7.15	4.08	0.27	0.093	0.723	0.184	0.006	0.074	0.007	3.7	97.7	0.01
163917	48.54	12.62	11.98	6.97	12.78	1.22	0.25	0.129	0.615	0.213	0.007	0.081	0.008	2.6	98.0	0.01
163918	48.58	13.08	11.83	6.92	13.72	1.53	0.09	0.133	0.631	0.218	0.007	0.085	0.012	2.3	99.1	0.01
163919	49.60	11.57	11.81	7.79	14.69	1.04	0.21	0.137	0.572	0.241	0.009	0.125	0.007	2.1	99.9	<0.01
163920	47.79	11.74	12.20	7.88	12.77	2.12	0.22	0.152	0.581	0.213	0.007	0.107	0.009	1.7	97.5	<0.01
163951	49.39	11.80	12.31	7.93	12.90	2.09	0.26	0.145	0.582	0.215	0.007	0.108	0.008	1.7	99.4	<0.01
163953	45.60	14.02	12.99	6.45	5.72	3.28	0.42	0.129	0.897	0.176	0.008	0.052	0.004	7.0	96.7	<0.01
163955	46.73	13.94	13.39	7.00	9.93	2.52	0.40	0.114	0.890	0.194	0.010	0.055	0.015	2.3	97.5	0.02
163957	49.35	12.81	11.42	7.59	9.35	2.56	0.42	0.122	0.623	0.173	0.008	0.070	0.007	2.3	96.8	0.02
163958	47.35	13.92	14.24	6.57	12.18	2.08	0.38	0.145	0.886	0.221	0.008	0.064	0.009	1.8	99.9	0.02
163959	68.22	15.25	3.19	0.71	2.44	5.74	1.84	0.093	0.259	0.048	0.046	0.010	0.032	1.5	99.4	<0.01
163960	68.05	15.00	3.27	0.65	2.82	7.19	0.98	0.101	0.250	0.047	0.030	0.009	0.054	1.2	99.7	<0.01
163961	46.02	13.10	11.14	7.07	13.99	2.41	0.38	0.143	0.612	0.266	0.014	0.109	0.007	1.9	97.2	<0.01
163962	48.51	11.92	11.79	7.37	14.07	1.25	0.18	0.133	0.584	0.200	0.009	0.116	0.007	1.8	97.9	0.01
163963	48.34	11.62	12.27	8.50	11.37	2.42	0.20	0.101	0.570	0.223	0.008	0.123	0.006	2.7	98.5	0.02
163969	73.15	13.68	3.42	0.33	0.71	0.40	3.70	0.108	0.325	0.007	0.063	0.006	0.017	3.3	99.2	0.01
163970	70.22	12.93	3.36	1.39	2.65	0.95	3.26	0.110	0.290	0.065	0.134	0.008	0.016	4.7	100.1	0.01
163971	61.97	13.50	7.84	0.46	0.52	1.22	2.58	0.149	0.339	0.912	0.048	0.015	0.017	6.9	96.5	0.01

Certified By:

Chris Bevier

Wholerock Geochemistry - Finland Project

Sample No.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	SrO	BaO	LOI	Total	Zr
163781	71.41	14.72	1.27	1.57	6.17	0.60	2.02	0.010	0.288	0.082	0.01	0.042	0.027	1.70	99.90	
163782	71.80	14.05	4.98	0.79	2.60	1.11	2.59	0.010	0.283	0.107	0.01	0.029	0.051	1.50	99.90	
163783	51.07	11.89	8.07	3.43	2.52	0.44	18.26	0.135	2.337	0.264	0.04	0.023	0.017	1.70	100.20	
163784	51.01	11.21	10.15	3.30	3.37	0.30	16.00	0.125	2.083	0.262	0.05	0.028	0.009	2.60	100.50	
163785	48.16	13.24	12.66	4.35	1.41	0.32	16.22	0.115	1.421	0.191	0.05	0.016	0.006	2.40	100.60	
163786	49.06	17.01	12.02	4.48	1.84	0.36	9.81	0.094	0.705	0.144	0.02	0.013	0.006	1.30	96.90	
163787	51.97	12.92	11.65	7.07	1.60	0.30	13.96	0.156	1.127	0.183	0.04	0.011	0.004	1.00	102.00	
163788	51.28	12.87	10.88	5.98	2.55	0.36	14.27	0.094	1.322	0.312	0.06	0.012	0.005	0.70	100.70	
163789	50.84	12.34	8.44	5.48	2.15	0.23	15.28	0.115	1.818	0.318	0.03	0.012	0.004	2.30	99.40	
163790	48.87	13.21	12.34	5.59	1.88	0.28	11.65	0.125	1.021	0.175	0.06	0.012	0.004	2.30	97.50	
163791	48.13	13.65	12.59	5.56	1.10	0.31	12.23	0.125	1.028	0.158	0.06	0.015	0.008	2.50	97.50	
163792	49.52	13.59	13.63	5.44	0.80	0.29	12.75	0.135	0.984	0.166	0.07	0.014	0.005	2.20	99.60	
163795	73.01	14.80	0.35	0.19	2.33	2.42	2.86	0.020	0.363	0.073	0.02	0.023	0.069	3.10	99.60	
163798	69.71	12.98	2.43	1.84	1.68	1.80	4.57	0.031	0.351	0.076	0.02	0.024	0.048	2.90	98.50	
163802	66.46	46.34	4.07	1.80	1.82	1.72	4.19	0.073	0.419	0.121	0.01	0.043	0.045	1.60	98.70	
163803	49.55	12.33	10.20	6.91	1.84	0.43	13.78	0.104	1.056	0.138	0.05	0.018	0.008	1.30	97.70	
163804	49.00	13.02	12.64	5.37	1.52	0.38	16.36	0.187	1.102	0.127	0.06	0.019	0.006	0.70	100.50	
163807	68.13	14.63	4.36	1.70	1.43	1.76	3.89	0.020	0.422	0.146	0.01	0.039	0.084	1.40	98.00	
163816	68.05	13.35	1.52	1.59	4.81	1.20	3.01	0.010	0.296	0.082	0.01	0.032	0.039	2.10	96.10	
163820	67.64	16.74	0.28	2.28	6.60	1.26	2.91	0.020	0.305	0.076	0.01	0.039	0.042	1.60	99.80	
163836	46.84	13.26	12.73	11.20	0.80	0.42	13.28	0.156	0.650	0.121	0.16	0.009	0.009	1.30	100.90	
163837	46.85	12.95	13.32	12.02	0.07	0.19	13.00	0.156	0.647	0.141	0.18	0.007	0.004	1.40	101.60	
163839	49.64	10.88	13.01	9.13	1.30	0.22	11.79	0.115	0.598	0.101	0.14	0.007	0.004	1.50	98.40	
163842	50.13	12.08	9.85	7.47	2.25	0.68	13.91	0.115	0.906	0.144	0.07	0.013	0.011	1.40	99.00	
163854	48.13	12.83	11.65	9.61	0.59	0.14	12.03	0.146	0.628	0.138	0.14	0.010	0.008	3.70	99.70	
163859	42.25	9.83	7.73	20.13	0.01	0.08	12.95	0.115	0.407	0.110	0.36	0.001	0.003	5.90	99.90	
163871	46.16	21.64	9.61	4.45	2.56	0.48	10.01	0.104	0.917	0.138	0.04	0.020	0.008	3.80	99.90	
163881	47.10	14.72	5.36	5.44	3.93	0.31	16.91	0.146	2.376	0.253	0.05	0.005	0.005	2.50	99.10	
163882	45.65	13.22	9.74	5.72	2.05	0.23	18.60	0.166	2.509	0.225	0.06	0.012	0.006	1.90	100.10	
163891	46.31	14.26	11.69	6.22	2.25	0.25	13.31	0.084	1.088	0.211	0.08	0.006	0.007	1.60	97.40	
163902	50.78	13.06	11.44	5.19	2.12	0.32	15.57	0.135	1.317	0.194	0.05	0.012	0.009	0.60	100.80	
163909	45.15	14.30	10.91	6.35	2.21	0.39	13.90	0.182	0.932	0.160	0.06	0.011	0.009	2.40	97.00	
163910	45.40	13.79	9.95	7.51	2.09	0.54	12.28	0.183	0.764	0.116	0.05	0.009	0.009	2.60	95.30	
163911	46.88	12.46	11.10	8.48	2.01	0.44	13.44	0.232	0.678	0.114	0.09	0.006	0.013	2.00	97.90	
163912	48.04	12.65	11.92	7.05	1.77	0.24	11.67	0.194	0.609	0.137	0.08	0.008	0.016	1.70	96.10	
163914	47.85	14.02	11.50	6.98	2.01	0.35	11.56	0.189	0.695	0.133	0.07	0.010	0.005	2.60	98.00	
163915	45.19	14.22	11.99	6.58	1.85	0.27	12.19	0.200	0.699	0.087	0.08	0.011	0.005	2.40	95.80	
163916	46.59	14.45	7.15	8.25	4.08	0.27	12.11	0.184	0.723	0.093	0.07	0.007	0.006	3.70	97.70	
163917	48.54	12.62	12.78	6.97	1.22	0.25	11.98	0.213	0.615	0.129	0.08	0.008	0.007	2.60	98.00	
163918	48.58	13.08	13.72	6.92	1.53	0.09	11.83	0.218	0.631	0.133	0.09	0.012	0.007	2.30	99.10	
163919	49.60	11.57	14.69	7.79	1.04	0.21	11.81	0.241	0.572	0.137	0.13	0.007	0.009	2.10	99.90	
163920	47.79	11.74	12.77	7.88	2.12	0.22	12.20	0.213	0.581	0.152	0.11	0.009	0.007	1.70	97.50	
163951	49.39	11.80	12.90	7.93	2.09	0.26	12.31	0.215	0.582	0.145	0.11	0.008	0.007	1.70	99.40	
163953	45.60	14.02	5.72	6.45	3.28	0.42	12.99	0.178	0.897	0.129	0.05	0.004	0.008	7.00	96.70	
163955	46.73	13.94	9.93	7.00	2.52	0.40	13.39	0.194	0.890	0.114	0.06	0.015	0.010	2.30	97.50	
163957	49.35	12.81	9.35	7.59	2.56	0.42	11.42	0.173	0.623	0.122	0.07	0.007	0.008	2.30	96.80	
163958	47.35	13.92	12.18	6.57	2.08	0.38	14.24	0.221	0.886	0.145	0.06	0.009	0.008	1.80	99.90	
163961	46.02	13.10	13.99	7.07	2.41	0.38	11.14	0.266	0.612	0.143	0.11	0.007	0.014	1.90	97.20	
163962	48.51	11.92	14.07	7.37	1.25	0.18	11.79	0.200	0.584	0.133	0.12	0.007	0.009	1.80	97.90	
163963	48.34	11.62	11.37	8.50	2.42	0.20	12.27	0.223	0.570	0.101	0.12	0.006	0.008	2.70	98.50	

M3 Volcanic Rocks																
Sample No.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	SrO	BaO	LOI	Total	Zr
163790	48.87	13.21	12.34	5.59	1.88	0.28	11.65	0.125	1.021	0.175	0.06	0.012	0.004	2.30	97.50	
163791	48.13	13.65	12.59	5.56	1.10	0.31	12.23	0.125	1.028	0.158	0.06	0.015	0.008	2.50	97.50	
163792	49.52	13.59	13.63	5.44	0.80	0.29	12.75	0.135	0.984	0.166	0.07	0.014	0.005	2.20	99.60	
163803	49.55	12.33	10.20	6.91	1.84	0.43	13.78	0.104	1.056	0.138	0.05	0.018	0.008	1.30	97.70	
163804	49.00	13.02	12.64	5.37	1.52	0.38	16.36	0.187	1.102	0.127	0.06	0.019	0.006	0.70	100.50	
163854	48.13	12.83	11.65	9.61	0.59	0.14	12.03	0.146	0.628	0.138	0.14	0.010	0.008	3.70	99.70	
163859	42.25	9.83	7.73	20.13	0.01	0.08	12.95	0.115	0.407	0.110	0.36	0.001	0.003	5.90	99.90	
163881	47.10	14.72	5.36	5.44	3.93	0.31	16.91	0.146	2.376	0.253	0.05	0.005	0.005	2.50	99.10	
163882	45.65	13.22	9.74	5.72	2.05	0.23	18.60	0.166	2.509	0.225	0.06	0.012	0.006	1.90	100.10	
163891	46.31	14.26	11.69	6.22	2.25	0.25	13.31	0.084	1.088	0.211	0.08	0.006	0.007	1.60	97.40	
163902	50.78	13.06	11.44	5.19	2.12	0.32	15.57	0.135	1.317	0.194	0.05	0.012	0.009	0.60	100.80	

M5 Volcanic Rocks																
Sample No.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	SrO	BaO	LOI	Total	Zr
163783	51.07	11.89	8.07	3.43	2.52	0.44	18.26	0.135	2.337	0.264	0.04	0.023	0.017	1.70	100.20	
163784	51.01	11.21	10.15	3.30	3.37	0.30	16.00	0.125	2.083	0.262	0.05	0.028	0.009	2.60	100.50	
163785	48.16	13.24	12.66	4.35	1.41	0.32	16.22	0.115	1.421	0.191	0.05	0.016	0.006	2.40	100.60	

F5 Volcanics																
Sample No.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	SrO	BaO	LOI	Total	Zr
163969	73.15	13.68	0.71	0.33	0.40	3.70	3.42	0.007	0.325	0.108	0.01	0.017	0.063	3.30	99.20	
163970	70.22	12.93	2.65	1.39	0.95	3.26	3.36	0.065	0.290	0.110	0.01	0.016	0.134	4.70	100.10	
163971	61.97	13.50	0.52	0.46	1.22	3.26	3.36	0.912	0.339	0.149	0.02	0.017	0.048	6.90	96.50	
163795	73.01	14.80	0.35	0.19	2.33	2.42	2.86	0.020	0.363	0.073	0.02	0.023	0.069	3.10	99.60	
163798	69.71	12.98	2.43	1.84	1.68	1.80	4.57	0.031	0.351	0.076	0.02	0.024	0.048	2.90	98.50	
163802	66.46	46.34	4.07	1.80	1.82	1.72	4.19	0.073	0.419	0.121	0.01	0.043	0.045	1.60	98.70	
163807	68.13	14.63	4.36	1.70	1.43	1.76	3.89	0.020	0.422	0.146	0.01	0.039	0.084	1.40	98.00	

Wholerock Assay Values - Entire Finland Project

Sample	Cu	Zn	Ag	Au	As
163782				6.0	9.0
163783				7.0	10.0
163784				2.5	10.0
163785				7.0	10.0
163786				15.0	13.0
163787				13.0	10.0
163788				16.0	11.0
163789				8.0	15.0
163790				2.5	10.0
163791				2.5	13.0
163792				16.0	10.0
163795				21.0	20.0
163798				31.0	12.0
163807				15.0	14.0
163815				25.0	13.0
163816				27.0	8.0
163818				19.0	14.0
163819				18.0	20.0
163820				2.5	4.0
163837				2.5	8.0
163839				8.0	3.0
163842				12.0	7.0
163859				2.5	18.0
163871				2.5	12.0
163881				2.5	20.0
163882				2.5	8.0
163883				2.5	7.0
163891				8.0	8.0
163902				7.0	20.0
163997				17.0	

Wholerock Assay Values for Au Background Calc.

Sample	Cu	Zn	Ag	Au	As
163783				7.0	10.0
163784				2.5	10.0
163790				2.5	10.0
163791				2.5	13.0
163795				21.0	20.0
163803				12.0	5.0
163804				6.0	5.0
163842				12.0	7.0
163871				2.5	12.0
163881				2.5	20.0
163891				8.0	8.0
163902				7.0	20.0

M3 Wholerock Assay Values

Sample	Cu	Zn	Ag	Au	As
163790				2.5	10.0
163791				2.5	13.0
163792				16.0	10.0
163859				2.5	18.0
163881				2.5	20.0
163882				2.5	8.0
163891				8.0	8.0
163902				7.0	20.0

M5 Wholerock Assay Values

Sample	Cu	Zn	Ag	Au	As
163783				7.0	10.0
163784				2.5	10.0
163785				7.0	10.0

F5 Wholerock Assay Values

Sample	Cu	Zn	Ag	Au	As
163795				21.0	20.0
163798				31.0	12.0
163807				15.0	14.0

Appendix V

M. Millner - Program Notes

COMMENTS ON THE DRILLING OF THE HOLES IN RICHARDSON TOWNSHIP

LOGS - OVERBURDEN DRILLING

N93-1)

This hole, drilled on 26 June, 1993, was located at the end of the county road south of F88-10 - on the southern extension of Ten Creek Lineament near its intersection of the linear segments of the Pinewood valley. Numerous levels of rational from the reconnaissance exploration of the Richardson highway near holes 88-10 and 88-11, to the screening of the interval of the Ten Creek lineament in particular the land position in the southwest portion and the lease of the tile drain field.

0-14' yellow-brown clay [Holocene fluviolacustrine] at 9' dark brown sand and gravel 0.5' thick. Likely there was much more sand in this interval as clay core plugging the drill tube becomes a pile driver, pushing through soft sands 2' of core for 6' of run in the top of the interval and 7' of core from 6-16';

14-26' sand [Holocene fluvial];

Sample 1 12-19' Sand with a trace of grit;

Sample 2 19-26' Sand with clay increasing towards the bottom of the interval 26-35 dark grey, stiff pebbly clay [Till of western provenance];

35-42.5' Sand

35-36' brown sand

Sample 3 35-39'

Sample 4 39-42.5'

42.5-47 stiff dark clay

47-69 Sand

Sample 5 47-56' minor intervals of brown-grey clay

Sample 6 56-61' no clay

Sample 7 61-65' clean sand

Sample 8 65-69' gritty sand

69-76' Dark grey very stiff clay with minor pebbles. Sand layers are present toward the end of the interval and pebbles are more apparent from 75-76'

76-79 Sand with some clay

Sample 9 76-79'

79-85' Clay with bands of sand layer 83'

85-105' Sand

Sample 10 85-90 Sand with clay layers rare white pebbles minor clay layer at 87'

Sample 11 90-96' Sand carbon in sand apparently associated with clay layers.

Sample 12 96-100' Sand

Sample 13 100-105' Loose sand

105-120 Massive pebbly clay. Light coloured limestone pebbles. Colour change in clay at 110' from darker above to lighter below.

Bottom of unit laminated light and dark green layers with compositional layering of sand and clay End of run in clay probably drill plugged at this point.

120-128' Soft green sandy mud

Sample 14 120-125'

Sample 15 125-128'

128-130 Till. Lower contact gradational into sand on the laminated clay unit.

Sample 16 128-131' Till and sandy clay [Till of western origin and probable basal sand facies]

130-144 [Sand and clay beds of northeast origin bound by different tills]

130-135 Laminated clay. Brown clay with green laminations of clay and sand horizons. Round pebbles in sandy clay. No limestone clasts below 130';

Sample 17 131-135'?Sand and clay beds

135-142' Green sand with round pebbles in sandy clay interbedded with coarse sand beds.

Sample 18 135?-142 sand and some clay beds

142-144' Brown fine sand with clay and coarse sand beds.

Sharp basal contact with till at 144'

Sample 19 144-146 Sand and clay beds

144-150' Till Brown sandy till 14-146'. Hard brown clay till 146-149.5' Red bands. A distinctive red clay at 147.5 Probably stopped in bedrock at 149.5

Sample 20 144-146 sandy till

Sample 20a 144-146 brown clay wall to the core from the overlying clays and obvious contamination run-in from above.

150-154 Bedrock sheared green volcanic. Core angle at 30 degrees over 4'.

Sample 21 150-154 bedrock and contamination from above.

93-2) Located between F88-10 and Mingold hole 09, the purpose of this hole was to both confirm the high values of the government hole and evaluate the interval between that hole and the attempt that Mingold made to confirm those values in their hole 09;

The bedrock interval samples was 10 feet of sheared, white to pale green quartz sericite schist the core angle was about 60 degrees except at tie top which appears to have been steepened due to either compaction or glacial shear. The later cast implies a northward dip of the schistosity;

Lineation on the surface is down the dip of the schistosity, a characteristic that appears to be regional in extent;

Blebs of strong green mineral could be fuchsite, crystals of arsenopyrite were recovered from the 1.0 mm screen. The abundant pyrite was not weathered no limonitic colouring was observed. As in the first hole a sharp contact marked by a foot or so of rhythmic layered brown and green clays reflecting the encroachment of the western ice in a lacustrine environment. Clay free sands of distal Labradorean source overly the green, clay-rich proximal till. Boulders of the altered, pale green bedrock are present in the three holes in the interval of interest.

0-4' road fill 4-5.5' Grey clay. 2-5 minor carbonate clasts
5.5-22 ?Sand and possibly some gravel? core lost
22-25.5' Clay medium brown -layered yellow (rusty) brown and grey (greenish) brown Sharp basal contact
25.5-73' Stiff clayey unit [Toll of western origin] Dark grey stiff, cohesive matrix with light grey to white carbonate clasts from 1 to 100 mm in size. Pebbly horizon at 32', light grey sandy band in dark grit massive host at 3, light coloured pinkish hue 46-48, light and dark olive grey banding with ca 1% grit 62-65' striated pebbles and 5% grit 65-66', coarse and fine bands and more abundant clasts striated up to 10% 66-68', light and dark olive grey bands at 70' first appearance of green bands with dark grey bands 2-3 mm wide at 73'
73-76 Clay [interlayered green (northeast) and grey clay with carbonate granules (western)] dark greenish grey, finely laminated
76-92' [northeast till]
Soft sandy clay with assorted volcanic and granitic pebbles 76-81, green sandy till with volcanic clasts 81-84, boulder of mafic volcanic with a reddish brown matrix (red the burn effect of the bit?) 84-85, green clay-sand till 85-89', weathered clayey residuals of local monolithic bedrock boulders with minor pebble bands and scattered pebbles in green grey matrix material 89-92', minor washed polyolithic pebbles in this interval must represent contamination probably in bagging sample
Sample 1 76-81 sandy distal till
Sample 2 81-85 proximal till and boulder.
Sample 3 85-89 proximal till
Sample 4 89-92 coarse proximal basal till
92-102.5 bedrock, light grey-green schist with quartz eyes siliceous bands disseminated pyrite, no limonitic staining, core

●ngle 60 degrees at the top steepening to 30 degrees away from the
contact[,implying glacial deformation rather than structural.]
Sample 5 soft bedrock

3-3) About 400 metres east of hole N93-2, this location was determined by the logistics of drilling off of the highway and was intended to test the extent of the mineralization of the F88-11 and Mingold RC-04,-05,-06,-09.

0-12 lost core

12-16 Yellow brown clay same as hole #2 exact position not known

16-2911' lost core 2' soft light brownish grey clay (position in hole not known [possible a clay plug in the top part of the run driven as a pile driver through "quick sands"])

29-30' Greyish brown sandy clay

30-56' Dark massive grey clay, finely laminated interval 41-42', heavy water flow at base of the unit.

56-67.5 Coarse sand -grit

67.5-75.5 Till

75.5-78.5 Bedrock green (chloritic) volcanic characterised by blue quartz eyes and disseminated pyrite F1 lineation plunging down the foliation as in hole #2

Sample 1 56-66 Coarse sandy grit; much pyrite and quartz and feldspar pebbles from granitic terrain

Sample 2 66-67.5' "sp?"

Sample 3 67.5-71' Coarse clay till

Sample 4 71-72.5 Boulder

Sample 5 72.5-75.5' Clay rich bedrock boulder rich till

Sample 1a repeat from two runs above 76 and 75 upper 1/2 and lower 1/2

N93-4) Several hundred metres east of the previous hole, on the entrance to a wood road and previous farm, this site appeared to be a logical test of the west wall of the lineament central to the greenstone belt between the Sabaskong and Blackhawk batholiths.

0-56 Clay [Western till]

0-18 medium brown to grey laminated clay laminations on the scale of mm to 2 centimetres thick Relict lithic fragments up to 2 cm in diameter

18-56 Massive interbedded grey clay, ?unctuous?, rare partial laminations of fine grey sand, carbonate clasts form mm to 2 cm in diameter <5%

49-50 fine grey sand bed

50-56 massive, interbedded clay (as from 18-49)

56-72 Sand interval [Interglacial interval?]

56-59 fine grey sand bed, wet soft, (running)

59-72 Sandy clay to clayey sand

59-72 fine grey clay and grey clay

59-63.5 crudely bedded on cm scale beds composed of alternating sandy (predominately) and clay (predominately) layers very few carbonate clasts

63.5-65 unbedded clayey sand

64.5-72 predominately sand

72-86 Clay interval [Glacial till of western origin]

65-72 unbedded clayey sand (predominately clay)

72-85 massive unbedded grey clay (as from 18-49) +/-5%

85-86 Grey clay, possibly fine grained laminated to definitely laminated (laminations highlighted by colour differentiations in the clay . Discontinuous laminations up to 5 mm thick noted Angular granite clasts 7.5 cm observed

86-94 Till of northeastern provenance]

86-91.5 Sandy till(running sand)Very wet sandy clay/mud. Lacks coherence, lost sample from 86.5-90', fine to medium grained grey sand, contains angular to subround heterolithic fragments including siliceous, pyrite-bearing 3%+ rock. Largest fragment 10 cm+ (foliated 2% pyrite

91.5-94 Grey sandy till(?) coarse fragments

94-98 Bedrock, light to medium grey-green moderate fabric, chloritic disseminated pyrite +/-2%

93-5) Located on the abandoned highway at the curve in highway #600 at the east of this interval, this hole is in a narrow valley defined by bedrock to the north in the building site of ?McCleans. Artesian water was encountered in the hole as it was in the bedrock of one corner of the foundation of the house. The hole was relatively shallow. No gold was recovered from the limited interval of Labradorean till.

0-1 Road gravel

1-5 grey clay and humus lost all but 1' of sample [likely clay plug penetrating running sand]

5-56 Grey clay [capping sandy interval of sort wet sand], initially crudely laminated and colour banded (ie near surface) - becomes massive, unctuous and competent. Between 6-56 only 6' of sample obtained [likely most of this interval was sand either penetrated by plugged drill stem or lost during withdrawal due to lack of a cohesive sediment plug in the bottom of the sample interval.

56-58 fine to coarse heterolithic angular clasts with a clay matrix. Content of clasts ranges from near 100% at top contact decreasing at depth before grading into clay

58-62 Grey clay, as from 5-56 with similar carbonate fragments

62-65 At 62' large grey carbonate clast, 15 cm long by width of core, rusty on fractured surfaces. Becomes fine grained to medium grained, grey heterolithic sand becoming coarser grained down hole (to pebble sized, angular, possibly ground cobble-boulder

65-66.5 cobble/boulder, grey green, well developed fabric, chloritic, sericite, up to 5% pyrite

66.5-67 Dense, dry grey clay, "fragments of clay spell from main mass contains angular fragments of foliated sulphide bearing rock (5%). Very fine sulphide noted the clay

67-70 Bedrock. Well developed fabric, siliceous with chlorite and sericite developed. Locally abundant pyrite mineralization, most abundantly associated with chlorite areas. Pyrrhotite(?) and rare chalcopryrite noted also. Overall +/- 3-5% sulphide over narrow intervals (ie cm) approximately 50% of interval may be sulphide. Blue quartz phenocrysts occur rarely

93-6) At the corner north of the previous hole on leased ground, shallow ground in the order of 18 feet and poor material.

0-3.5 Brown and grey clay and organic material

3.5-15 Brown and grey clay, crudely laminated on mm scale laminations ?)often discontinuous and highlighted by colour variations. Small component of coarser clastic material (ie up to 5%), dominantly carbonate up to 1 cm in size

15-16 Brown clay, irregular continuous and discontinuous bands laminations (dark brown to light brown orange laminations) Carbonate fragments up to 3 cm (dominantly <5mm) comprise 5% of the interval. Irregular pocket of fine sand at upper contact, appears to be well sorted, unbedded and completely encapsulated by clay. Contact abrupt;

16-18 Bedrock unreformed gabbro 5% blue quartz phenocrysts in an homogeneous matrix.

93-7) Located a few hundred metres north of the previous hole shallow ground and poor material rendered this hole useless.

0-6 Brown clay, finely laminated, contains carbonate clasts
6-25' [probably mainly soft sands and] unsorted dark brown till. limited core recovered [probably the cohesive cap to the sand as plug that penetrated the sand taking no core is] , clay and grit groundmass with subround heterolithic fragments, carbonate comprises the largest single population with subordinate volcanic fragments (although they tend to be larger) Carbonate fragments up to centimetre size volcanic fragments up to 5 centimetres

25-54' Grey-brown clay as in previous holes massive no bedding and up to 5% carbonate clasts. Uphole contact (with till) is sharp and for 2' downhole from the contact the clast content of the clay is increased (5-10%) continuous lamellae highlighted by grey brown colour variations;

54-60 Grey green clay, softer and wetter than clay immediately up hole. Apparently unlaminated and massive., Few clasts (ie 2-3%) one clast up to 7.5cm, usually mm scale, only volcanics observed (grey green, finegrained apparently massive);

60-63 Bedrock, blue quartz phenocrysts (8-10%), feldspar (pink and white) 70% ferromagnesian minerals 20%. Similar to bedrock from hole 93-6, but for presence of pink feldspar (different phase of the same gabbroic body?)

93-8) Located on the side road north of the highway #600 north of the first hole and F88-10, this site tests the up-ice direction of the distal gold in F88-10 the area down ice direction from the Canico diamond drill hole on the rhyolite-basalt contact to the north and the northwest extension of the shear zone of holes #'s 2,3, and 4.

Bedrock is less altered the dip is vertical and intersecting structural planes produce a vertical lineation.

0-16 Brown clay, finely laminated homogeneous, contains 5% cream coloured carbonate fragments, rare fine grained green volcanic fragments;

16-18 Boulder granitoid

18-32'

18-25.5' Brown clay, laminated but not as finely laminated as up hole further, contoured and discontinuous laminae up to 2 cm thick. Volcanic fragments up to 1 cm (dominantly much smaller 2-3cm) No carbonate fragments observed, but groundmass same as above

25.5-26 highly weathered gabbro clast, dark green with blue quartz phenocrysts and fine sulphide disseminations;

26-32' Green brown clay with sand component, particularly near uphole contact. Volcanic fragments throughout, 5% or more. Crude laminations noted on mm-cm scale highlighted by colour variations

30.5-32 Groundmass composed of brown clay (as uphole). Remainder of unit composed of highly weathered clasts often with blue quartz phenocrysts indicating possible gabbro;

32-39' sand clay with volcanic clasts (till?). Clasts cm-5cm in size/. Possible weakly laminated in places (not till?) Clast comprise 5-10% of unit.

39-44' Sheared and weathered bedrock, chloritic.

Sample 1 26-31.5

Sample 2 31.5-36

Sample 3 36-41

93-9)

0-19' Brown clay as in previous drill holes, wet unctuous and containing carbonate clasts, broadly laminated on mm-cm scale

19-21' Fine sand, brown, homogenous, no bedding;

21-28' Grey clay, as before, dense grey clay, minor clast component composed of carbonate fragments with very minor volcanic fragments;

28-44' Brown sand, finegrained, wet, unbedded, well sorted

44-50.5' Grey clay as above

50.5-54' Brown sand very fine to medium grained, some clay component, unbedded

54-64 Brown sand, dominantly sand size grains with pebbles up to 2 cm in size. Pebbles heterolithic but dominantly carbonate with subordinate volcanics (ie ratio 80:20, pebble fraction comprises 10% of unit. No bedding although there appears to be a fine grain coarse grain variation from 54-56 and again 56-64'

64-76 Grey clay generally massive and homogeneous with 5% clasts, dominantly carbonate as up hole 75-76 finely laminated lighter and darker clays, bedded on a mm scale

76-83 Grey sand

76-78 muddy sand, very wet , no bedding

78-83' grey sand fine to medium grained, no bedding, no clasts

83-84 Till 30% heterolithic clasts in a sandy clay matrix

84-88' Bedrock, mafic volcanic, QCQ, mm scale with pyrite

Sample 1 ?76-82 Grey sand

Sample 2 83-84 Till

HYDROLOGY

Artesian conditions were encountered in holes 2, 3 and 4; all road holes in the vicinity of a shear zone occupied by quartz sericite and pyrite. the artesian holes are at similar elevations near the road.

Holes in the west both the low, deep hole of the program #1 and the high shallow holes #8&9 were not flowing.

Water levels in the non flowing holes was not determined in part due the use of drill water that may indicate false levels in dry holes and the speed with which the holes were restored for environmental reasons. Drill water pressure was lost in sand formations in the deep well but no information could be obtained on the level of the strong artesian conditions. The source of the water in hole #3 could have been bedrock or intermediate level gravels. Considerable gravel with clast sizes up to 20 cm was flushed out of the hole. Hydrostatic head was considered to be 3 about metres.

Mingold hole #3 was the most famous, the head appears to have been about three metres. It was plugged with a standing pipe about 4 metres long and the pipe filled with cement. The field below, despite the ditch that would have appeared to drain the overflow, was wet and unplowable for some time after, according to Jorgensen. He also claims that Hole #3 ran water for some time after the hole was abandoned.

Describing the artesian conditions on his farm, the well behind the house was hand dug through "gravel" a local knob probably a kame deposit, to 4 or 5 metres when quicksand was encountered a stovepipe was pushed down into the sand and the centre washed clean to provide a few feet of head with enough flow to supply the house. In recent year the flow has decreased so there in not enough supply to water the lawn. He claims that this aquifer is isolated from others with no response to other wells flowing.

His father dug a similar well to the southwest off the knob, near the cattle barn it produced a head of about 5 feet but silted in after some time. Mingold holes in the lain apparently flowed for some time after being abandoned.

The high flows of Mingold hole #3 were probably due to the embayment of the lacustrine sediments that overlap the clay rich western till and an intercalated deltaic gravel lens there.

QUESTIONS FOR BAJCS

Were there artesian conditions in other holes in the 87-88 program?

SOME AWKWARD CHARACTERISTICS OF THE GRAIN EVALUATION

The micro grain concentrates are especially awkward in that there is considerable pyrite and arsenopyrite together with native copper normal gold pale gold and white electrum. The various complexions of the sulphides and the metals renders the collection very difficult to pick. Further the coarse metal from the drill both normal iron from drill rods and manganese steel which is weakly magnetic were dealt with by panning and quick inspection. The coarse grained copper is apparent in the coarse metallic rejection process but the coarse electrum may have been rejected into the bulk concentrate.

COPPER GENESIS

Native copper in overburden in Ontario is rare. Except in this area there is one occurrence in the Shining Tree area that has the metal in drill samples. In Metal Occurrences of Float... native copper is known in several locations some as re related to native copper occurrences in mafic volcanics and some are far from possible sources. Occurrences of native copper are most common in Keewenaw type copper occurrences the type location of which is the south shore of Lake Superior. There the metal is in vesicles, in the matrix of interflow conglomerated and in joint fillings and as dike like bodies. In Sweden copper metal is deposited in economic quantities in overburden by an electrochemical process related to steeply plunging, sword-shaped massive sulphide bodies. In sandstone type copper occurrences with examples in sandstone in eastern North America related to Keewenaw type occurrences and in sandstone-copper deposits in Bolivia and Peru the genesis seems to be related to redox phenomena in these sediments.

In the Fort Francis - Rainy River area the native copper occurrences are not well understood. There is a correlation of copper occurrences in till related to the mafic intrusions near Emo where copper and nickel sulphides are known. There is a strong spatial correlation of native copper with the Quetico fault in the central Pinewood River interval, and there is a scattering of copper metal occurrences in the till vaguely relater to the deep overburden of the Cretaceous sands. A secondary correlation exists with the marcasite and siderite that is probably related to both the Cretaceous organic fragments in part glacially dispersed from their bedrock sources and the Quaternary organic deposits that are related to lagoonal lacustrine and bog environment. Microspheres of marcasite usually relater to modern bogs, occur in most panned samples.

The Nuinsco drill program encountered copper in the sand beds within the western clay lacustrine-till formation and in the sands and till of the lower northeast till formation. The copper in the upper sand horizons was fine grained and more pristine while those in the till were coarser and both more worn and pristine. It would seem that copper is being deposited from groundwater in the sands aquifers and has been transported glacially from not to far distant

Sources.

The presence of microspheres of marcasite in most microconcentrates is interesting as gold will deposit chemically on the spheres and one might expect copper and silver to behave in a similar way.

Electrum is present in the first four holes as grey to pale yellow grains that vary in form from pristine to worn. No wire or dendritic forms were observed and no replacement of either gold copper or silver on the marcasite microspheres was observed here although in other areas gold is observed to do so.

Electrum is not common in overburden in Ontario. It is associated with epithermal gold deposits in the cordillera and is common along the Cape Ray Fault zone where the gold mineralization is associated with base metals. In porphyry systems the high silver gold is associated with the outer, low temperature zone of alteration. Gold associated with massive sulphides are probably rich in silver, although this gold is commonly tied up with iron and silver in the gossanous weathering phases. Skarn gold associations tend to be high temperature, silver poor copper rich.

Blue quartz is ubiquitous. Present in the pebbles of granitic to gabbroic composition from the northeast till sheet and in the sheared volcanics in the bedrock of the shear zone in holes 2, 3, and 4, this anomaly deserves some consideration. Previous occurrences of blue quartz to the writer are in coarser grits of the Meguma Sediments of Nova Scotia where they appear to have significance as provenance indicators. In the Archean granulites of the Achwanape complex northwest of the southern Grenville portion of the Labrador Trough, they are thought to represent high temperature metamorphic quartz from that terrain. The blue quartz there did not survive the metamorphism of the Grenville Front to appear in the metamorphosed equivalents of those rocks in the projected extension to the southeast. The third area of blue quartz is in the metamorphosed greenstones or gabbros of the divide on the road north of Sudbury on the highway to Timmins.

The blue quartz of the Richardson area may could represent that of gabbros perhaps high temperature ones that are sheared and in this drilled bedrock be simply their sheared represent metamorphosed greenstones of very high grade (a second hypothesis not supported by heavy minerals in the pan concentrates).

ACTLABS NOTE (revised)

Further to my phone message re samples left by Doug Hume yesterday - please don't process they were intended to be delivered to me in Toronto.

- there is data on the baggies that I require and I expect no one else will be able to decipher my notes 1/1 - 8/4 Hole 1 Sample 1;

-The samples were panned very roughly at the drill site and again in the kitchen sink with native Cu Au, grey electrum pyrite and arsenopyrite. About 0.1 gram has been removed from the bulk concentrate and * some of the grains have been mounted on an SEM stub. This micro concentrate containing the choice heavies, should be returned to the concentrate prior to the Activation analyses.

-The HMC is dirty containing some coarse grained light minerals and rock particles as well as some pieces of drill bit and possibly some coarse grained electrum. I would sieve and wash, removing the drill steel to produce a 30 gram, or less, pyrite rich concentrate in exchange for the data on the sample bags, and at the same time add the micro concentrates after a second attempt at finding the grey precious metal - alternatively the micro concentrate could be run separately - it would be interesting ;

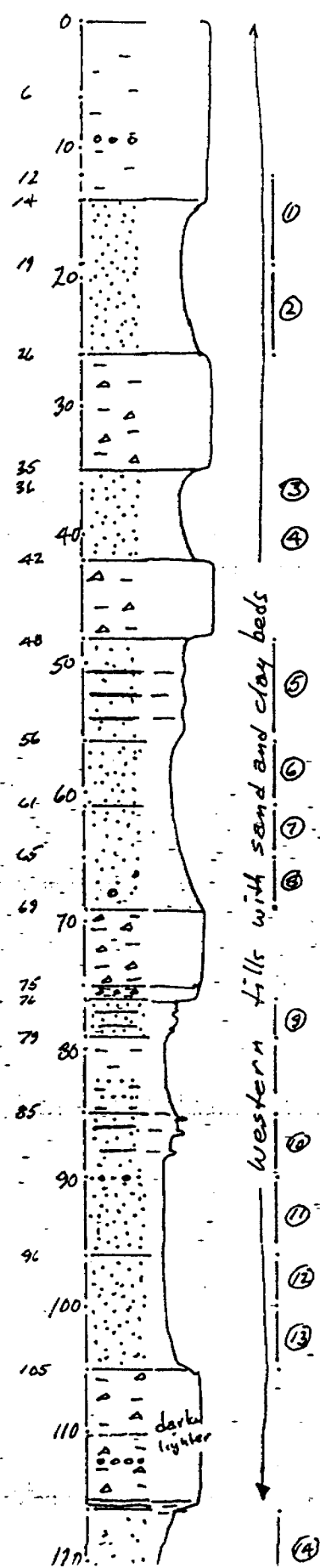
-The concentrates are lacking in any oxidation Fe or Mn at least when I saw them last two weeks ago . They come from artesian sands distal gravels and proximal tills. The Robert Clarke technique should be considered for surface samples that would test for ascending ground water from the artesian systems on lineaments that cross the artesian systems and appear as lineaments on topographic maps, others presumably airphoto interpretation as well as Nuinsco's detail observations in this area.

- It would appear that some of the native copper in the Bajcs regain (OCS Study 56, 1991) is growing geochemically whereas the gold electrum is detrital and proximal.

-The moral of the story is to spend less time picking and mounting gold and more time taking notes and preparing samples - and keep control of the samples.

f/c Doug Hume 416 361 1333

SONIC BORE HOLE. N 93-1 1/2



Clay

Sand

Grey clay

sand

Grey clay

sand with clay beds

Sand without clay bands

Sand

Sand with grit.

Grey clay

pebble & clay layers
Sand with some clay

Clay with sand bands

Sand with clay layers

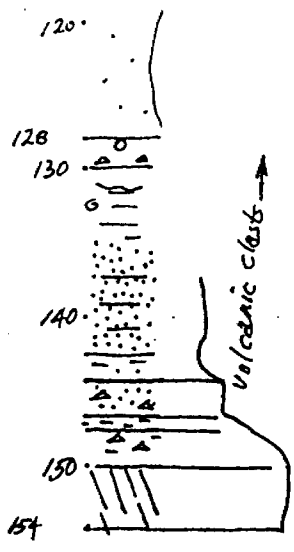
Sand with carbon & clay

Loose sand

Grey clay - carbonate clasts

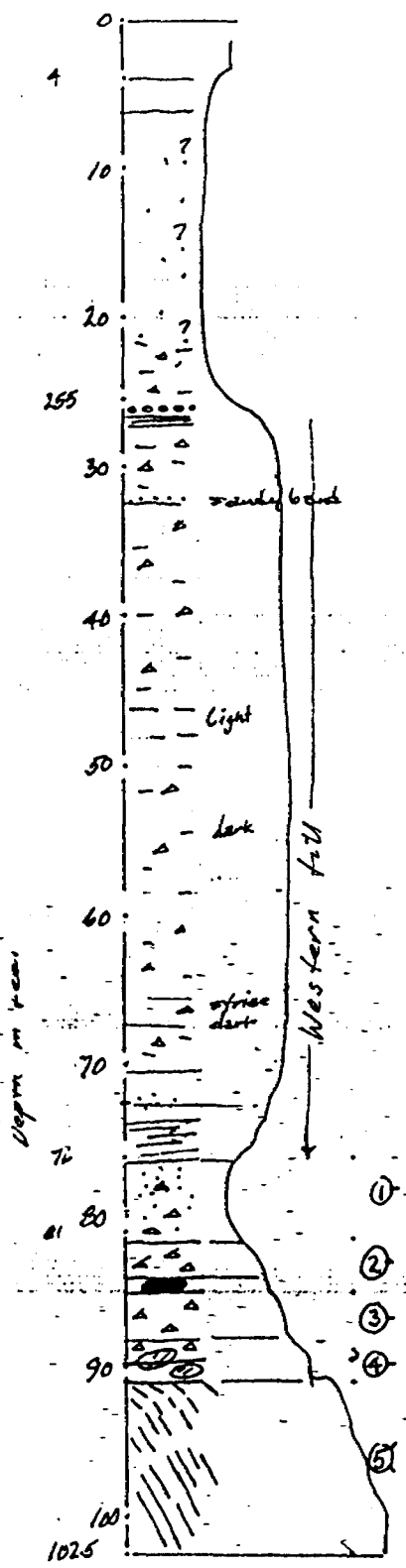
green laminations

SONIC BORE HOLE N 93-1 2/2



- (16)
- (17)
- (18)
- 19-
- (20)
- (21)

Green laminated clay.
Pebbly sand with brown clay beds.
Green sand with brown clay beds
Brown fine sand
Sandy till
Hard clay till brown with red clay bands.
Bedrock



Grey clay

Lost sample sand?

Grey clay some lamination carbonate clasts.

Green laminated clay carbonate clasts

sandy clay volcanic / granitic clasts.

Green sandy fill boulder, reddish matrix.

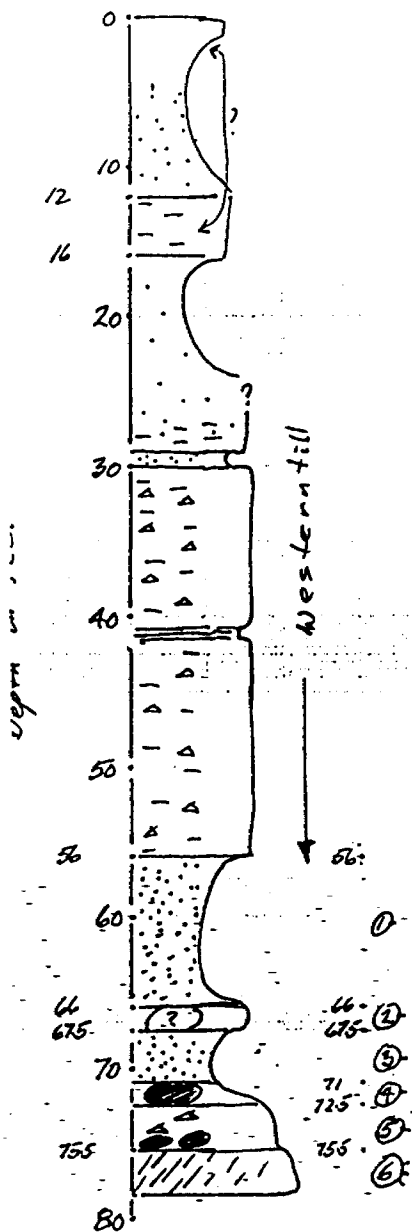
Green clay-sandy till.

Basal till soft clayey bedrock boulders.

Bedrock light grey-green chlorite schist abundant pyrite no limonite soft, washable "weathered" near top

- ①
- ②
- ③
- ④
- ⑤

SOUTH BORE HOLE N. 12-3



Lost core
Sand?

Yellow brown clay
possibly surface plug.

Lost
sand with
clay beds.

Coarse sand-grit.
feldspathic pyritic

Boulder?

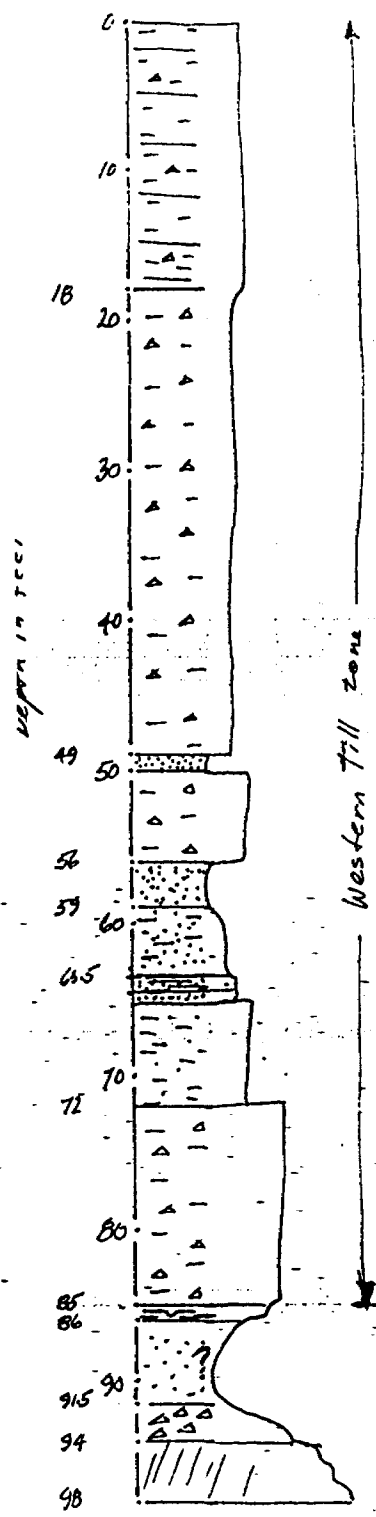
Sand.

Boulder

clay-rich bedrock. boulder till.

Bedrock chloritic schist with pyrite
blue quartz eyes.

SONIC CORE LOG - N 10 4



Brown to grey laminated clay

Grey clay - massive
Carbonate clasts

sand.

Grey clay

Clayey sand.
massive clayey sand.
sandy clay.

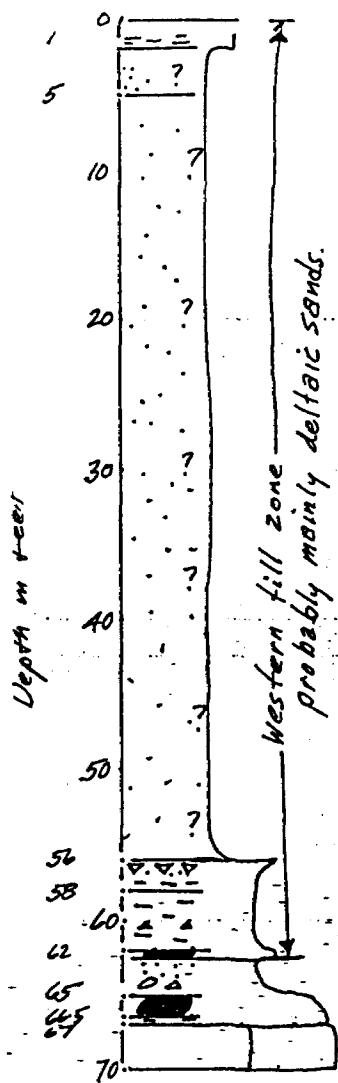
Grey clay with carbonate clasts.

Laminated clay with granite fragments.
Sand - lost sample pyrite bearing clasts.

Grey sandy fill.

Bedrock - grey green foliated volcanic pyrite low

SONIC BORE HOLE N 73-5



Road metal
Grey clay, humus
(and sand?) 4' lost.

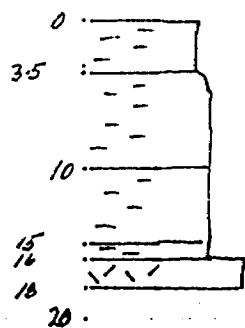
Wet sand?
6' of core
retained 5-56'

1- Grey clay till

2- Grey clay with carbonate clasts.
Carbonate clast.

3- Sand-gravel
Boulder-chloritic pyritic volcanic
Dense grey clay with sulphides foliated & massive as c

SONIC CORE HOLE N 75-6

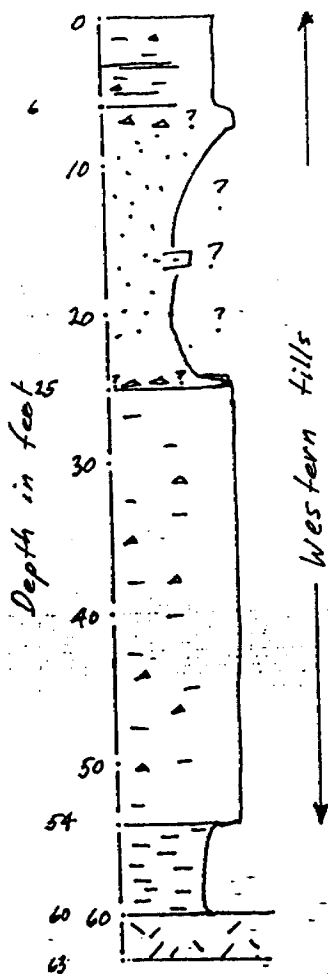


Brown & grey clay + organic

Brown & grey clay

Brown clay with carbonate clasts
Bedrock. gabbro.

SONIC BORE HOLE N 43-7



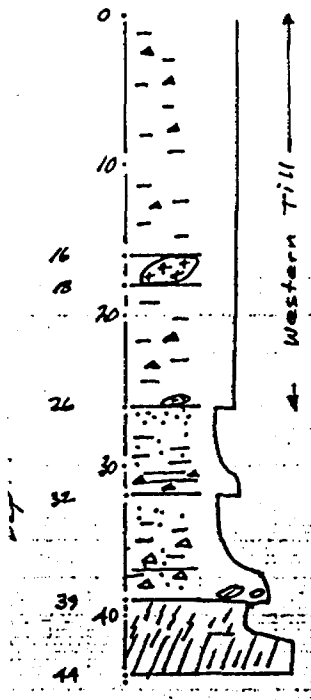
Brown clay

Lost ? sand
drill plugged
or
sand ran out.

Western tills

Grey brown clay
with carbonate clasts
laminated

Grey green clay
soft & wet, no carbonate clasts
Bedrock mafic plutonic similar to #93-6.



Brown clay

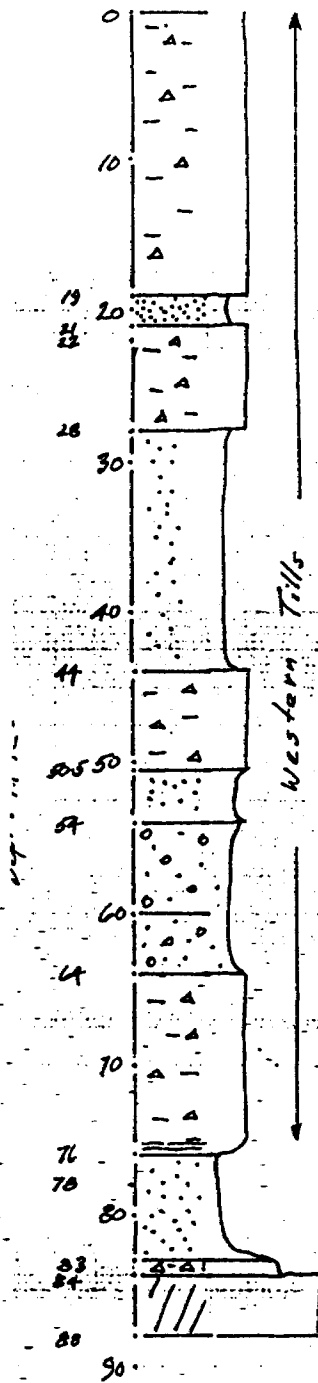
Green-brown clay-sand banded, volcanic clasts

Sandy clay (till: 5-10% volcanic clasts)

Sheared & weathered bedrock.

50.

JONIL BORE HOLE N 95-9



Brown clay

Sand

Grey clay

Sand

Grey clay

Sand

Sand with carbonate pebbles.

Grey clay with 5% carbonate clasts.

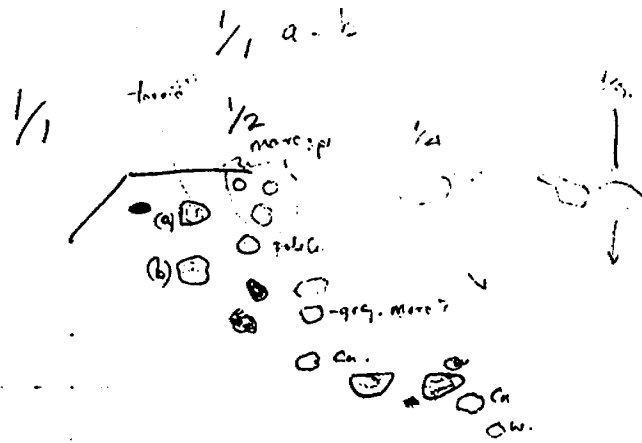
① Laminated
muddy

Sand.

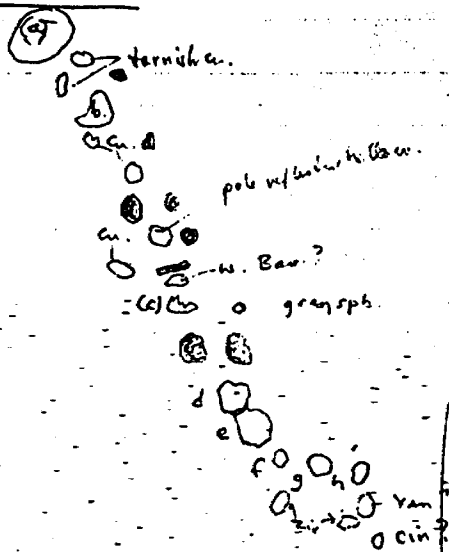
② massive

Till 30% mixed clasts

Bedrock

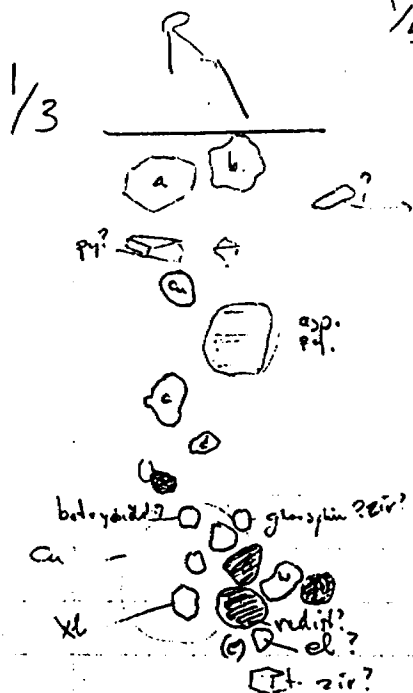


1/4

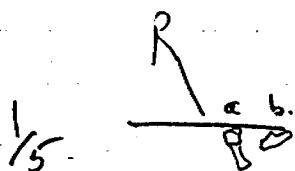


$\frac{1}{3}$ a-e

$\frac{1}{5}$ (a-b)

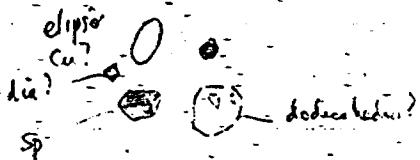
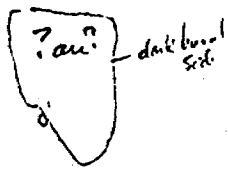
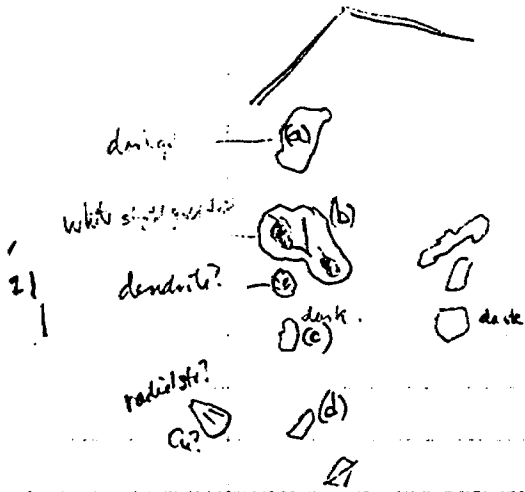


$\frac{1}{6}$

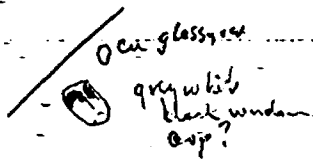


o - redsplan
o - Cu
o - deniqm mlt asp?

1/20 20a.



1/21



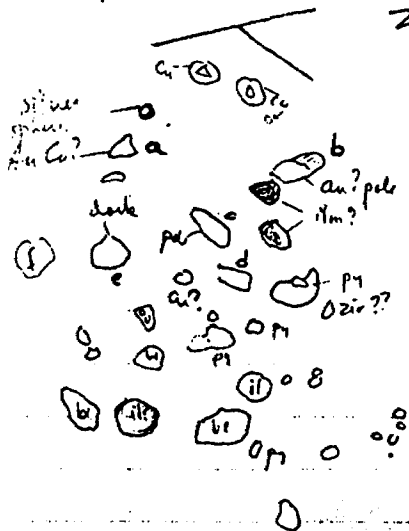
2/1 a-ef

2/2 a-c.

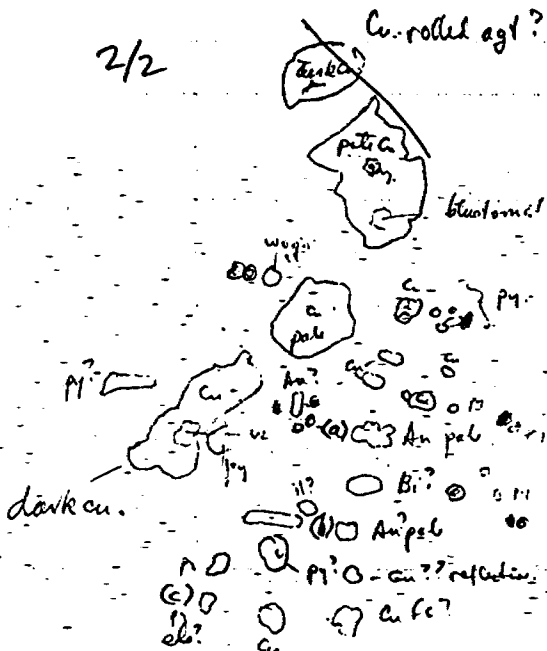
2/4

2/5

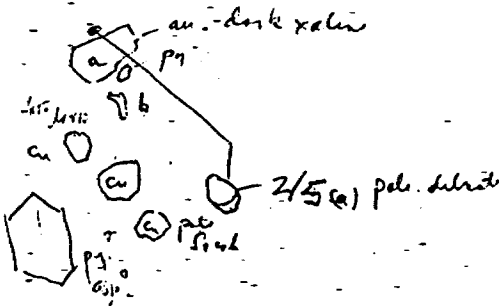
2/1



2/2

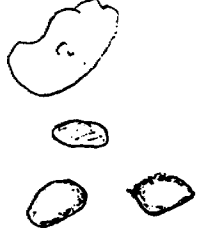


2/4



3/2 a-f

3/2



keratin?
silk?
f dark tarnish.
e Andromeda?

ca. scrotal.

Py?
asp

poly Am
hardly.

Am...
kub



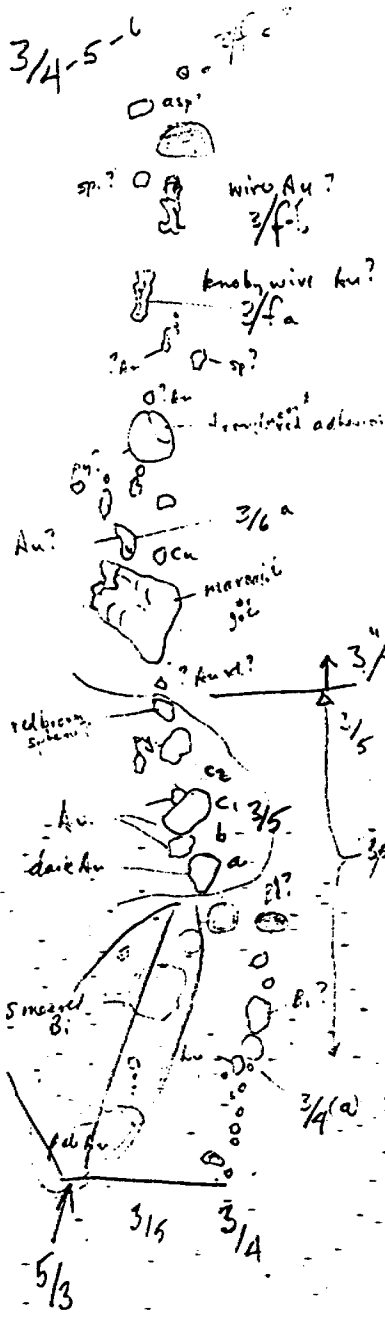
dark
gold-lab.
Smooth.

3/1

3/4-5-6

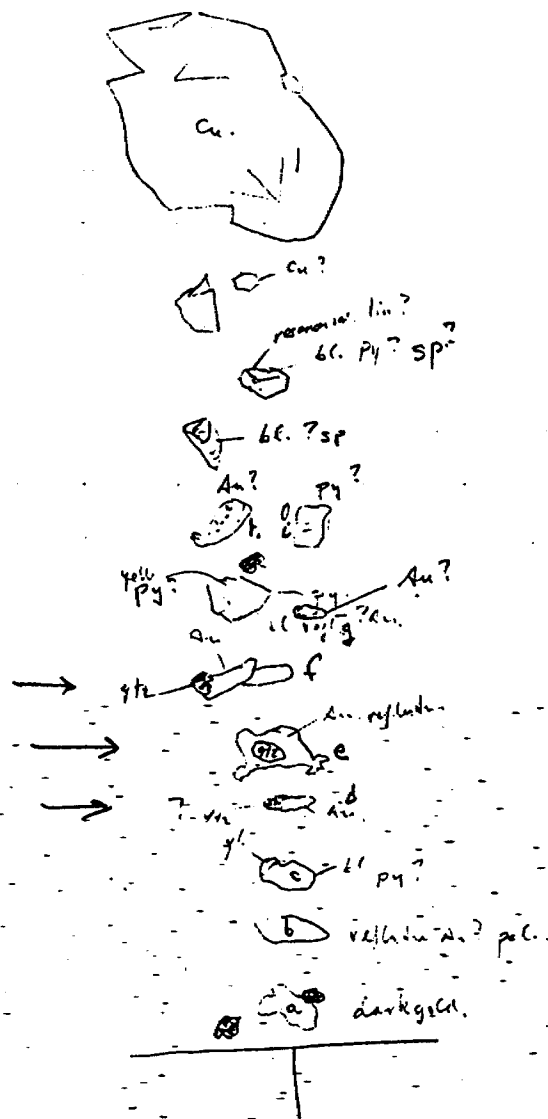
han

3/4 a
3/5 1 a-c
3/6 a
2-c



3/1 a-i

3/1



4/1 a-j

4/1



pic + kin

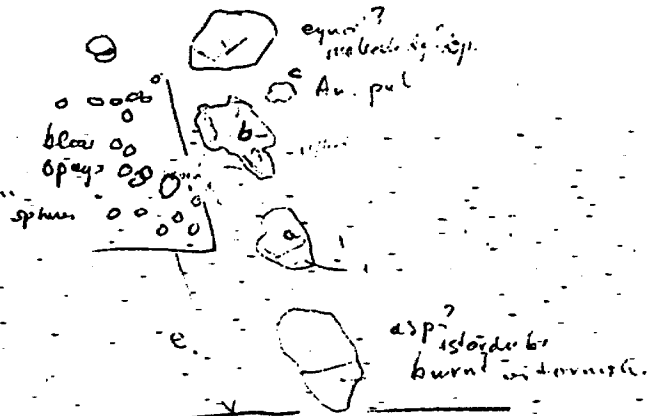
u
O pu?

77.
i Δ An. dok.

o.
h ⇒ An. valis?

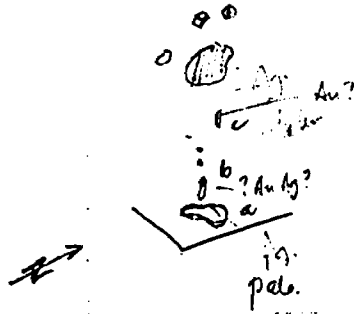
77.
g ⊙ An. xalm.

An. rylati
f e) An. dorkim.

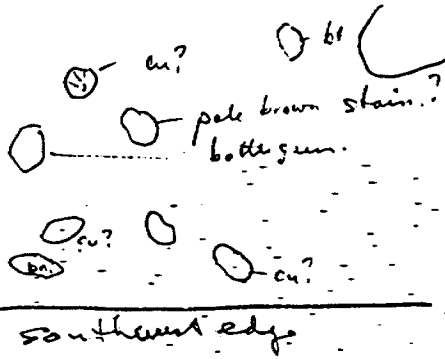


5/3 a-c

5/3



5/1



Appendix VI
Program Expenditures

Richardson Township Project
Program Expenditures
June-July, 1993

Rotosonic Drilling:	- \$28,400.89-
Personnel, Fees and Expenses:	
Consultant - supervision, prospecting	- \$ 9,900.00
Consultant - supervision, prospecting	- \$ 7,311.47 8311.47
Geochemical Sampling:	- \$ 1911.75'
Map Preparation, Draughting:	- \$ 1,222.86
Accomadation:	- \$ 1,844.25
Total:	- \$50,591.22

INVOICE

MIDWEST 
DRILLING
 A DIVISION OF GERMAC ENTERPRISES LTD.

180 CREE CRESCENT / WINNIPEG, MANITOBA R3J 3W1 / PHONE (204) 885-7532 / FAX (204) 888-4767

To: Nuinsco Resources Limited,
 501 - 155 University Avenue,
 TORONTO, Ontario,
 M5H 3B7.

Invoice No. 0-0092
 Contract No. 906
 Date: July 8th, 1993
 GST Registration #: R-10200649

Re: Nestor Falls, Fort Frances Area Drilling
 Period: June 25 - July 2, 1993

SONIC DRILL

MOBILIZATION	\$2,250.00
DEMOBILIZATION	2,250.00
OPERATING RATE	8,972.50
DOWN-THE-HOLE MATERIALS	7,644.00
MOVING	1,942.50
WATER HAULING	1,200.00
CEMENTING	1,757.50
STANDBY	185.00
CEMENT	222.32
SAMPLE BOXES	120.00
	<hr/>
PLUS 7% GST ON \$26,529.50	\$26,543.82
	1,857.07
	<hr/>
	\$28,400.89
	=====

G.F. Archibald
315 Norfolk Road
Victoria, B.C., V8R 6H5
(604) 595-6281 • fax (604) 595-3899

August 1, 1993

IN ACCOUNT WITH

Nuinsco Resources Ltd
501 - 155 University Ave
Toronto, Ontario
M5H 3B7

June 20 to July 2, 1993

Re: ROTOSONIC Drilling Richardson Twp.
Locating holes, attending drilling, logging
core, sampling core.

13 days @ \$300.00 per day-----\$3900.00

July 3 to July 22

Reconnaissance mapping and prospecting,
litho geochem sampling - Rainy river
properties

20 days @ \$300.00 per day-----\$6000.00

\$9900.00



PAUL L. JONES

27 Briermoor Crescent Ottawa, Ontario K1T 3G7 (613) 738-2248

July 31st, 1993.

Nuinsco Resources Ltd.
501, 155 University Avenue,
Toronto, Ontario,
M5H 3B7.
(01-02)

Invoice: July, 1993.

Richardson Township Project:

Rotosonic drilling program supervision, restoration and reporting. Reconnaissance traversing and sampling, prospecting.

28 days field and office work @ \$220/day	-	\$6160.00	} \$6591.20
G.S.T. @7%	-	\$ 431.20	
Expenses: See attached sheets	-	\$1476.27	} \$1720.27
Mileage: 1200 km @ 22c/km	-	\$ 244.00	
Sub-Total:	-	\$8311.47	
Less: \$1000.00 advance	-	(\$1000.00)	
Total:	-	\$7311.47	

Sincerely
Paul Jones



ACCURASSAY LABORATORIES
 Division of Assay Laboratory Services Inc.
 1670 Lithium Drive, Unit 2
 THUNDER BAY, ONTARIO P7B 6G3

INVOICE

Phone (807) 623-6448 Fax 623-6820

NO: 30833
 DATE: August 31, 1993
 PAGE:
 Job #934321

SOLD TO:

SHIP TO:

NUINSCO
 Box 306
 Nestor Falls, Ontario
 POX 1K0

Net 30 days, 1.5% per month on overdue accounts

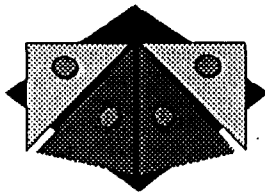
ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
	180	107	Sample Prep			\$4.25	\$765.00
	180	75	Gold			\$8.95	\$1,611.00
	36		Zr			\$4.25	\$153.00
	180	95	As			\$4.25	\$765.00
	13		Acid Digest			\$2.00	\$26.00
	13		Zinc			\$2.25	\$29.25
	13		Copper			\$1.75	\$22.75
	36	12	Whole Rock			\$18.50	\$666.00
	1		Report Charge			\$5.00	\$5.00
Subtotal							\$4,043.00
7% G.S.T. #R100294768							\$283.01

COMMENTS:

Amount Due Before September 30, 1993

TOTAL ▶ 4,326.01

STATEMENT OF ACCOUNT



Peter J. Slack
 R.R.#1
 Alton, Ontario
 LON 1A0

bill to:

Cameron Lake JEX Corporation
 908 The East Mall
 Toronto, Ontario

Invoice Date: Nov. 24 1993
 Invoice Number: PJSD93014
 Amount Due: **\$1,222.86**

Run Date	Description	Amount
Sept 21st	Balance Forward Re: PJSD93012	\$882.86
November	2 Plots @ \$10.00/plot	\$20.00
Nov. 24	10 Hours Prep. Base Maps @ \$30.00/hr	\$300.00
Nov. 24	2 Plots @ \$10.00/plot	\$20.00
Subtotal		\$1,222.86
Total		\$1,222.86

Payment is due upon receipt of this invoice. Please make cheques payable to the order of: Peter Slack



Bill Brum

LARSSON'S CAMP

Box 9
NESTOR FALLS, ONTARIO POX 1K0
(807) 484-2168

CUSTOMER'S ORDER NO.		PHONE		DATE				
				23 July 93				
NAME								
NUINSCO Resources LTD.								
ADDRESS								
SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE RET'D.	PAID OUT		
QTY.	DESCRIPTION					PRICE	AMOUNT	
							Room + BOARD	1365.00
							790 G.S.Z.	95.56
							890 P.S.Z.	109.25
							BAR	274.45
							1,844.25	
RECEIVED BY							TOTAL	

THANKS
Bill
Larsson

NEW
CHQ
#5426



52C135W9300 2.15275 RICHARDSON

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

February 15, 1994

Our File: 2.15275
Transaction #: W9310.00062

Mining Recorder
Ministry of Northern
Development and Mines
808 Robertson Street, *Kenora, Ont.*
P.O. Box 5200
P9N 3X9

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
K1161074 ET AL IN RICHARDSON TOWNSHIP

The assessment work credits for Assays, Section 17 of the Mining Act Regulations, have been approved as outlined on the original submission.

The approval date is February 14, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

LJ/ls

cc: Resident Geologist
Kenora, Ontario

Assessment Files Library
Toronto, Ontario



Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9310.00062

AMENDED

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 180 Cedar Street, Sudbury, Ontario, P8B 6A8, telephone (705) 870-7884.

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of mining assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

MINING LANDS

2.15275

Recorded Holder(s) Quince Resources Ltd		Client No. 116866
Address 308 The East Mall, Etobicoke, Ontario, M9B 6K2		Telephone No. 466 626 070
Mining Division Quora	Township/Area Richmond Hill	U or S Plan No.
Date Work Performed From 2/10/93 To 20/07/93		

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	Geochemical Prospecting
Physical Work, including Drilling	
Rehabilitation	
Other Authorized Work	SECTION 18 ONLY
Assays	
Assignment from Reserve	6524

Total Assessment Work Claimed on the Attached Statement of Costs \$ **50,594 (Corporate Records 4/1/93)**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 90 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
P. Jones	27 Brantmore Court, Ottawa, Ont., K1T 3G7
G.F. Ambold	2315 Marlhill Rd., Victoria B.C., V8R 6H5

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date 10/01/94	Recorded Holder or Agent (Signature) Paul Jones
--	-------------------------	---

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and assured report is true.		
Name and Address of Person Certifying Paul Jones, 27 Brantmore Court, Ottawa, Ontario, K1T 3G7		
Telephone No. 613 799 2218	Date 10/01/94	Certified by (Signature) Paul Ambold

For Office Use Only

Total Value of Assessment	Date Received	Mining Recorder	Received Stamp
	Date of Approval	Date Approved	
Date of Issue for Amended Claim			

0011 (0001)



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

W 9310.00062

SEE AMENDED RPT

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) Nunisco Resources (through claims or options)		Client No. 162135/101899 176866
Address 908 The East Mall, Etobicoke, Ontario		Telephone No. 416
Mining Division Kenora	Township/Area Richardson Twp.	M or G Plan No.
Dates Work Performed From: 01/07/93 To: 30/07/93		

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	Geochemical Prospecting
Physical Work, including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 6524 (see Appendix VI in report)

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
P.L. Jones	27 Briarwood Crescent, Ottawa, Ontario, K1T 3G7
G.F. Archibald	3715 Norfolk Rd, Victoria, B.C. V8R 6H5

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date 05/12/93	Recorded Holder or Agent (Signature) Paul Jones
--	------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying Paul Jones, 27 Briarwood Crescent, Ottawa, Ont.		
Telephone No. 613 738 2248	Date 05/12/93	Certified By (Signature) Paul Jones

For Office Use Only

Total Value Cr. Recorded	Date Recorded Dec 9/93	Mining Recorder <i>[Signature]</i>	Received Stamp DEC 9 1993 AM 7:00
	Deemed Approval Date MAR 9/94	Date Approved	
	Date/Notice for Amendments Sent		

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

2.15275

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 870-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 870-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
	Robotics Drilling	28,100. ⁸⁹	
	Supervision, Prospecting	9,900. ⁰⁰	
Supplies Used Fournitures utilisées	Type		
	Draughting	1,222. ⁷⁶	
	Sampling (claimed)	1,911. ⁷⁵	
Equipment Rental Location de matériel	Type		
Total Direct Costs			3135
Total des coûts directs			3135

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
	Total Expenses (RW)	1,120. ⁸⁷	
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobiliation			
Sub Total of Indirect Costs			1,120.87
Total partiel des coûts indirects			1,120.87
Amount Allowable (not greater than 20% of Direct Costs)			627.14
Montant admissible (n'excédant pas 20 % des coûts directs)			627.14
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			3,762.14
 Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			3,762.14

As per receipts included in attached report, some sampling not included in this application (please refer to Report of Work Form for breakdown of costs per claim).
 Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.
 Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Project Geologist I am authorized (Recorded Holder, Agent, Position in Company) to make this certification

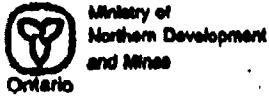
Attestation de l'état des coûts

J'atteste par la présente : que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie) à faire cette attestation.

Signature Paul Jones Date 05/12/93

Jan. 12 1994 10:52 AM '94
2015275



Report of Work Conducted After Recording Claim
Mining Act

Transaction Number
W9310.00070
AMENDED

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 100 Cedar Street, Sudbury, Ontario, P0B 6A8, telephone (705) 570-7884.

LIBRARY COPY

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holders Nuinsco Resources Ltd	Claim No. 176866
Address 908 The East Mall, Etobicoke, Ont, M9B 6K2	Telephone No. 416 626 0770
Mining Division Kearna	Township/Area Rushford
Date Work Performed From 20/06/93	To 20/07/93

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, including Drilling	Rotational Overburden Drilling
Rehabilitation	
Other Authorized Work	SECTION 10 ONLY
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **50,591 (see Appendix A & B)**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 90 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Midwest Drilling	180 Gess Crescent, Winnipeg, Manitoba, R2J 8W1
P.L. Jones	27 Briarcrest Crescent, Ottawa, Ontario, K1T 2E9
G.F. Archibald	2215 Norfolk Road, Victoria, British Columbia, V8R 6H5

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date 6/01/94	Recorded Holder or Agent (Signature) [Signature]
--	------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying P.L. Jones, 27 Briarcrest Crescent, Ottawa, Ont., K1T 2E9		
Date 6/17/94	Date 6/01/94	Signature [Signature]

For Office Use Only

Total Value Or Recorded	Date Recorded	Mining Recorder	Received Stamp
	Deputy Approval Date	Date Approved	
	Date Holder/Amendment Due		

0941 (01/93)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	5'6. N/2 Lot 8, Cus 1	exploded Patent
	N/2 Lot 7, Cus 1	"
	5'6. Lot 6, Cus 2	"
	5'6. Lot 5, Cus 2	"
	5'6. 5/2 Lot 4, Cus 2	"
	1105-722	4
	5'6. 5/2 Lot 4, Cus 2	exploded Patent
	1161072	2
	1161071	4
	1161075	2
	1161076	12
	1161077	16
	1161078	12
	1161079	8
	1161080	2
	1161081	4
	1161082	8
Continued Over		

Total Number of Claims

70720216

Value of Assessment Work Done on this Claim	Value Applied to this Claim
8554	N/1
5748	N/1
9819	N/1
3969	N/1
4656	N/1
2557	60
4878	N/1
N/1	3200
N/1	1600
N/1	800
N/1	4800
N/1	6400
N/1	4800
N/1	3200
N/1	3200
N/1	3200
N/1	3200
Continued Over	Continued Over

Total Value Work Done

Total Value Work Applied

Value Assigned from this Claim	Reserve Work to be Claimed at a Future Date
8554	N/1
5748	N/1
9819	N/1
3969	N/1
4656	N/1
206	N/1
4878	N/1
N/1	N/1
N/1	N/1
N/1	N/1
N/1	N/1
N/1	N/1
N/1	N/1
N/1	N/1
N/1	N/1
N/1	N/1
Continued Over	Continued Over

Total Assigned From

Total Reserve

Credits you are claiming in this report may be cut back in order to minimize the adverse effects of such decisions, please indicate from which claims you wish to prioritize the allocation of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interests are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the existing claims.

Note 2: If work has been performed on patented or licensed land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or licensed land at the time the work was performed.

Signature _____ Date _____



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W 9310.000 ~~0070~~

SEE AMENDED REPORT

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) Nuinsco Resources (through claims + options)		Client No. 176866
Address 908 The East Mall, Etobicoke, Ont, M9B 6K2		Telephone No. 416 626 0470
Mining Division Kenora	Township/Area Richardson	M or G Plan No.
Dates Work Performed From: 20/06/93		To: 30/07/93

162135/101899

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	Robsonic Overburden Drilling
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

110/2
RECEIVED
JAN 17 1994
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ 39,948 ~~45,792~~ (See Appendix VI in report)

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Midwest Drilling	180 Cree Crescent, Winnipeg, Man, R3J 3W1
P.C. Jones	27 Briarwood Cr., Ottawa, Ont. K1T 3G7
G.F. Archibald	3315 Norfolk Rd, Victoria BC, V8R 6A5

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date 05/12/93	Recorded Holder or Agent (Signature) Paul Jones
--	------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying Paul Jones 27 Briarwood Crescent, Ottawa, Ont., K1T 3G7		
Telephone No. 613 738 2248	Date 05/12/93	Certified By (Signature) Paul Jones

For Office Use Only

Total Value Cr. Recorded	Date Recorded DEC. 9/93	Mining Recorder <i>[Signature]</i>	Received Stamp JAN 17 1994
	Deemed Approval Date MAR. 9/94	Date Approved JAN. 12/94	
	Date Notice for Amendments Sent		

Numéro de rapport sur les travaux exécutés pour l'affectation de la réserve	Numéro de claim	Nombre d'unités
	E 1/2 N 1/2 Lot 11, Conc 1	Options Patent
	N 1/2 Lot 7 Conc 1	"
	S 1/2 Lot 6 Conc 2	"
	S 1/2 Lot 5 Conc 2	
	S 1/2 S 1/2 Lot 4 Conc 3	
	1105422	4
	E 1/2 S 1/2 Lot 9 Conc 2	Options Patent
	1161673	8
	1161074	4
	1161075	2
	1161076	12
	1161077	16
	1161078	12
	1161079	8
	1161080	8
	1161081	8
	1161082	8
Cont d over		
Nombre total de claims		

Valeur des travaux d'évaluation exécutés sur ce claim	Valeur affectée à ce claim
9144	N:1
6905	N:1
11440	N:1
4840	N:1
4975	N:1
3156	3156
5332	N:1
N:1	3200
N:1	1600
N:1	800
N:1	600
N:1	6400
N:1	4800
N:1	3200
N:1	3200
N:1	3200
N:1	3200
Cont d over	Cont d over
Valeur totale des travaux exécutés	Valeur totale des travaux qui a été affectée

Valeur transférée de ce claim	Réserve : travaux à réclamer à une date ultérieure
9144	N:1
6905	N:1
11440	N:1
4840	N:1
4975	N:1
N:1	N:1
2900	5030
N:1	N:1
N:1	N:1
N:1	N:1
N:1	N:1
N:1	N:1
N:1	N:1
N:1	N:1
N:1	N:1
N:1	N:1
Cont d over	Cont d over
Total transféré	Réserve totale

Les crédits que vous réclamez dans le présent rapport peuvent être réduits. Afin de diminuer les conséquences défavorables de telles réductions, veuillez indiquer l'ordre dans lequel vous désirez au'elles soient appliquées à vos claims. Veuillez cocher (✓) l'une des options suivantes :

- Les crédits doivent être réduits en commençant par le dernier claim sur la liste.
 - Les crédits doivent être réduits également entre tous les claims figurant dans le présent rapport.
 - Les crédits doivent être réduits selon l'ordre donné en annexe.
- Si vous n'avez pas choisi d'option, la première sera appliquée.

Note 1 : Exemples d'intérêts bénéficiaires : cessions non enregistrées, ententes sur des options, protocoles d'entente, etc. relatifs aux claims.

Note 2 : Si des travaux ont été exécutés sur un terrain faisant l'objet de lettres patentes ou d'un bail, veuillez remplir ce qui suit:

Je certifie que le titulaire enregistré possédait un intérêt bénéficiaire sur le terrain faisant l'objet de lettres patentes ou d'un bail, au moment où les travaux ont été exécutés.

Signature: *Samuel L. ...* Date: 05/12/93

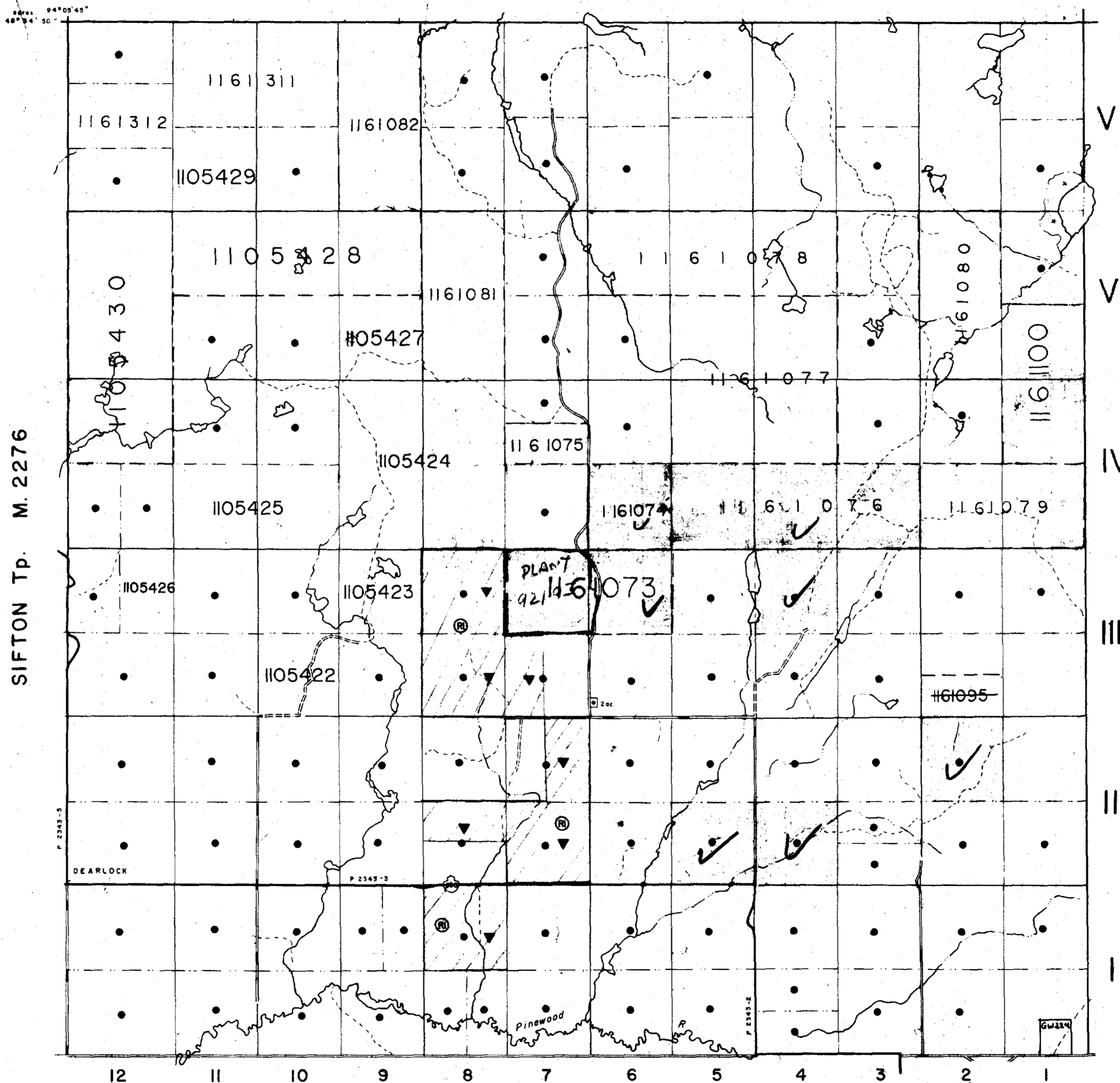
NOTES

400' surface rights reservation along the shores of all lakes and rivers.

This Township lies within the Corporation of the Township of Chapple.

W-K-43/93 SRAMR JUNE 4/93

ROWE Tp. M.2118



SIFTON Tp. M. 2276

POTTS Tp. M. 2109

TAIT Tp. M. 2124

MATHER Tp. M. 2097

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DATE OF ISSUE
DEC 14 1993
 KENORA
 MINING DIVISION

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	□
MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▼
CROWN LAND SALE	CS
ORDER-IN-COUNCIL RESERVATION	OC
CANCELLED	⊙
SAND & GRAVEL	⊚

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

SCALE: 1 INCH = 40 CHAINS

FEET 0 500 1000 2000 4000 8000
 METRES 0 200 400 600 800 1000 2000

ACRES HECTARES

40 16

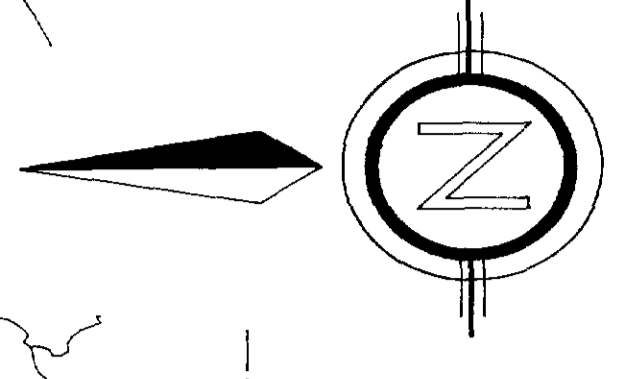
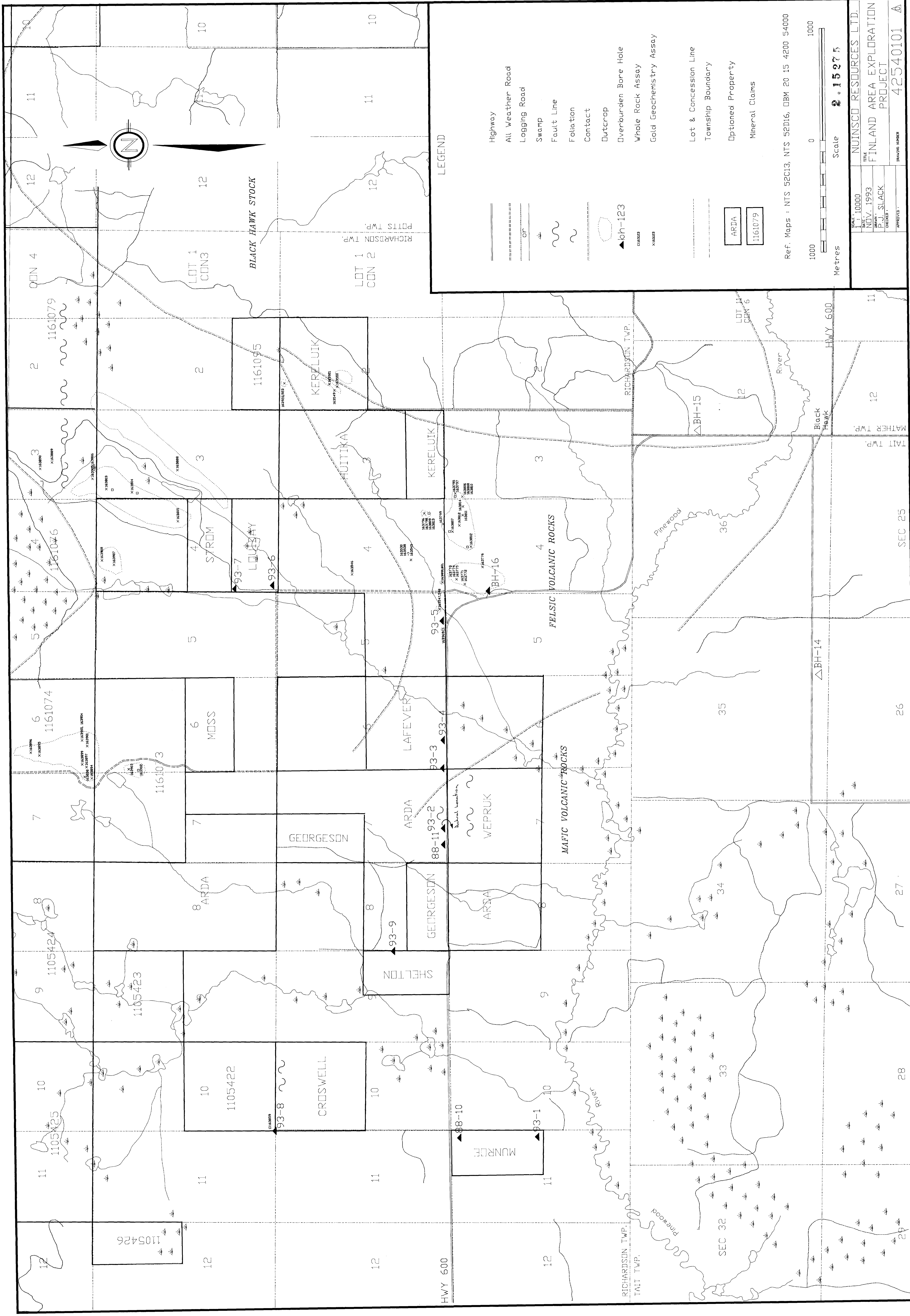
TOWNSHIP
RICHARDSON
 DISTRICT
 RAINY RIVER
 MINING DIVISION
 KENORA

Ministry of Natural Resources
 Ontario Surveys and Mapping Branch

Date: 8 7 5 Plan No.
 Whitney Block
 Queen's Park, Toronto **M.2115**

KENORA
 MINING DIVISION
 DEC 14 1993
 747000116105454



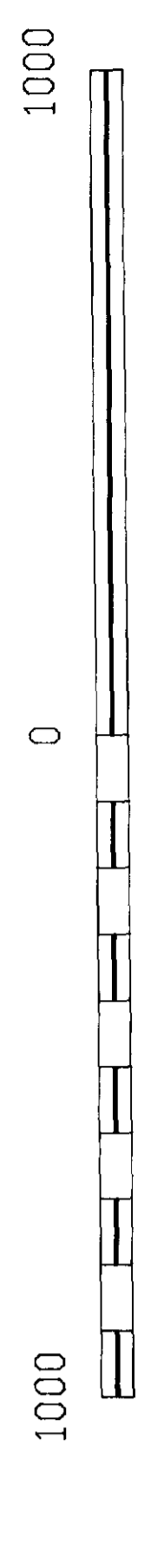


LEGEND

- Highway
- All Weather Road
- Logging Road
- Swamp
- Fault Line
- Foliation
- Contact
- Outcrop
- Overburden Bore Hole
- Whale Rock Assay
- Gold Geochemistry Assay
- Lot & Concession Line
- Township Boundary
- Optioned Property
- Mineral Claims

ARDA
1161079

Ref. Maps : NTS 52C13, NTS 52D16, DBM 20 15 4200 54000



SCALE 1:10000	NUINSCO RESOURCES LTD.
DATE NOV. 1993	TITLE FINLAND AREA EXPLORATION PROJECT
DRAWN P.J. SLACK	PROJECT NUMBER 42540101
CHECKED	REVISED



1000 Metres 0 1000

Scale 1:5000

Ref. Maps : NTS 52C13, NTS 52D16, DBM 20 15 4200 5400

LEGEND

- Highway
- All-Weather Road
- Logging Road
- Swamp
- Fault Line
- Foliation
- Contact
- Outcrop
- Disturbance Base Hole
- Whole Rock Assay
- Gold geochemistry Assay
- Area
- 150079

Lot 1 Concession Line
Township Boundary
Disturbed Property
Mineral Claims

Scale 1:5000
REV. NOV. 1993
P.J. SLACK
CHECKED
APPROVED

TITLE
NUINSCO RESOURCES LTD.
RICHARDSON TOWNSHIP
PROPERTIES

PROJECT NUMBER
42540051

