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Report on the Geochemistry of the Natal Township Property
Natal Township, Ontario

Michael Perkins
6 January 1994

CONTENTS

	Page
INTRODUCTION	2
LOCATION and ACCESS	2
TOPOGRAPHY and VEGETATION	2
PROPERTY DESCRIPTION	2
PREVIOUS WORK	2
PREVIOUS WORK BY OWNER	4
REGIONAL GEOLOGY	4
EXPLORATION MODEL	4
PROPERTY GEOLOGY	5
GEOCHEMISTRY	5
SUGGESTED TARGETS	7
SUMMARY & RECOMMENDATIONS	7
REFERENCES	8

FIGURES

		Page
Fig. 1	Location Map of Natal Township Project	3
Fig. 2	Access to Natal Township Project	3
Fig. 3	Claim Map of Natal Township Project	6
Fig. 4	Geology of Natal Township Project	6

APPENDICES

1. Compiled Geochemical Analysis and Certificates.

MAPS (in rear pocket)

1. "B" Horizon Geochemistry for Gold at 1:2000 scale.
2. "B" Horizon Geochemistry for Arsenic at 1:2000 scale.

INTRODUCTION

During September 1992 four registered mining claims in Natal Township were geochemically surveyed. 213 'B' horizon and 13 humus samples were assayed for gold and arsenic in an attempt to determine the source of a quartz carbonate boulder, which contained up to 5% arsenopyrite and assayed 9874 ppb gold, discovered in 1991. Four anomalous arsenic and gold trends were delineated ranging from 130 ppm arsenic to 926 ppb gold. Further detailed trenching and sampling is required to determine the sources of the anomalies.

LOCATION and ACCESS

The Natal Township Project is located in the southeastern corner of Natal Township, 18 kilometres northeast of the town of Shining Tree, 160 kilometres north of Sudbury, Ontario (figure 1).

Access from Shining Tree, or from Gowganda to the east, is by gravel road (Highway 560) to a point approximately 1 kilometre south of the property. From here logging roads, suitable for two-wheel drive vehicles, provide access to the claims (figure 2).

TOPOGRAPHY and VEGETATION

Relief on the property is approximately 40 metres. A hydro electric transmission line runs along the eastern boundary of the property paralleling a 5 metre wide creek. Known as Hydro Creek the creek flows north into the West Montreal River and has 50 to 75 metre grassy banks.

The property is generally well drained with 5% to 10% rock outcrop covered by a thin bouldery till.

With the exception of low lying wet areas the property has been clear-cut logged. The cutting was completed prior to 1986 and aerial spraying of herbicide (Vision defoliant, 1989) and planting of pine seedlings has taken place since that period. Clear-cut areas generally contain one metre high pine seedlings, and two to three metre poplar and birch saplings with occasional mature trees up to 15 m. Low wet areas are covered with spruce, cedar and balsam trees.

PROPERTY DESCRIPTION

The property consists of eight registered mining claims (1133929, 1133930, 1133931, 1133934, 1133935, 1133936, 1133937, and 1133938) located in the Larder Lake Mining District (figure 3).

All of the claims are the property of the author, Michael J. Perkins, 514 Crawford St., Toronto, Ont., and are in good standing as of the publication of this report.

PREVIOUS WORK

The first recorded geologic investigation of the area was in 1897 when E.M. Burwash, a geologist with the Ontario Bureau of Mines (OBM) surveyed the Nipissing-Algoma Line which runs along the Natal-Knight Township Boundary.

The history of exploration in the Shining Tree Mining Camp dates back to 1908. A prospector discovered gold in MacMurchy Township prompting a gold rush which continued until 1929. In 1925 and 1931 reconnaissance mapping programs were carried out by the Ontario Department of Mines (ODM).

In 1973 the ODM, Geological Division conducted geochemical and Quaternary geology surveys over six townships including Natal Township.

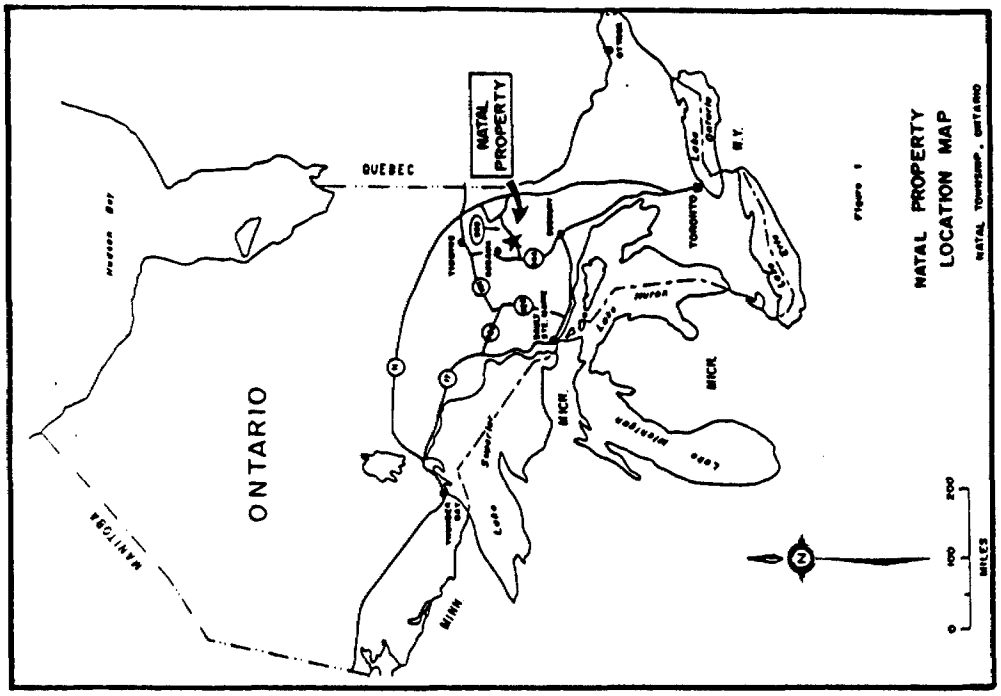


Figure 1. Location Map of Natal Township Project

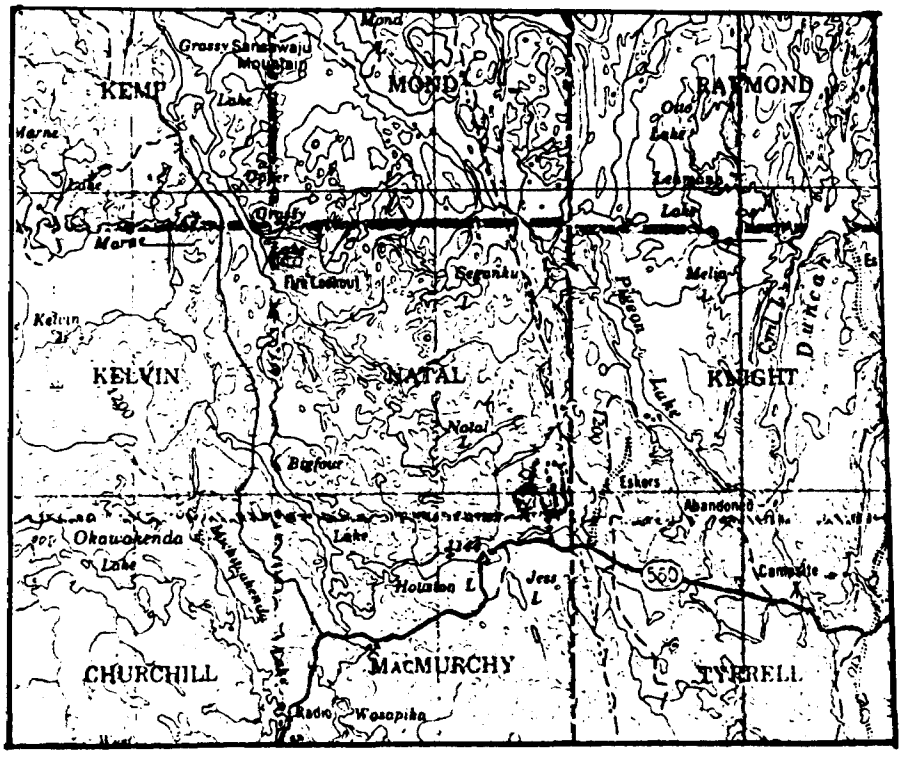


Figure 2. Access to Natal Township Project

From 1973 to April 1990 Natal Township was withdrawn from staking by the provincial government and little exploration work was carried out.

In 1974 M.W. Carter of the Ontario Geological Survey (OGS) completed geological mapping of Natal and Knight Townships and airborne magnetics and E-M surveys were flown by Timiskaming Nickel Limited.

In 1976 Getty Mines, Limited conducted exploration north and east of the current project area. Getty completed ground geophysics, geochemistry, geologic mapping and one diamond drill hole. The hole was drilled north of the property on what is now claim 1134041.

An airborne magnetics and EM survey completed by the Ministry of Northern Development and Mines was released in January 1991.

PREVIOUS WORK BY OWNER

Staking of the Natal Township Property was completed in the fall of 1990 when the area was released to staking. During the summer of 1990 a flagged grid with 180° oriented lines was completed over the entire property. VLF was completed over the western half of the property, claims 1133935, 1133936, 1133937, and 1133938. Geological mapping at 1:2000 scale and sampling was done over the six easterly claims (1133929, 1133930, 1133931, 1133934, 1133935, and 1133936).

In 1991 a the grid was recut over the four easterly claims (1133929, 1133930, 1133931, and 1133934) with 100 metre spaced lines oriented 090° due to information obtained during the 1990 mapping program. VLF and magnetic surveys were completed over this grid. Mapping of claims 1133937 and 1133938 completed the geologic survey of the property. A trench was excavated over a anomalous quartz carbonate vein discovered on claim 1133934

REGIONAL GEOLOGY

The bedrock in the area has been dated by the Ontario Geologic Survey as Early (Archean) and Middle Precambrian. Metamorphosed extrusive and intrusive rocks ranging in composition from ultramafic through to felsic comprise the Archean suite. These are interbedded with subordinate metasediments and diabase dikes. The metavolcanics belong to the subalkalic and alkalic suites and together with the metasediments are folded about a north-westerly trending synclinal fold axis located in central Natal and southwestern Knight Townships. Intrusive rocks are composed of altered massive to porphyritic granitoid rocks with Nipissing type diabase dikes forming northwesterly trending swarms.

The Middle Precambrian is represented by diabase dikes and the clastic rocks belonging to the Gowganda Formation of the Huronian Super Group. Gowganda Formation rocks are not found on the property but are located to the north.

Northwesterly trending faults appear to have a large dip slip component to their movement. In eastern Natal Township the downthrow component is believed to be to the east (Carter, 1983).

EXPLORATION MODEL

Mineralization in the area consists of gold, copper, silver, cobalt and asbestos as vein type deposits, and nickel as stratabound deposits associated with ultramafic, komatiitic rocks. Exploration on the property has attempted to determine gold mineralization associated with dilatent zones associated with the regional folding or the Central Fault which cuts the centre of the property.

PROPERTY GEOLOGY

The property is underlain by intermediate to mafic lithology, the majority composed of intermediate pyroclastic tuffs and flows cut by 1.0 to 10 metre diabase dikes of the Nipissing type.

The Natal Township property is divided into two groups, the East Fault Block (EFB) and West Fault Block (WFB) around a major regional fault called the Central Fault located in the centre of the property (figure 4). Carter (1983) interprets the 340° trending Central Fault as having a significant dip slip motion, with the down throw block to the east.

The WFB is underlain by mafic volcanic flows and tuffs in the south grading into a large package of intermediate pyroclastic rocks in the north. Generally the units tend to show graded bedding and distinct contacts striking 080° and dipping 70° south. Locally the stratigraphy is overturned as graded bedding indicates younging to the north.

The EFB contains geology similar to the WFB but appears to be offset. The entire group may represent a block of geology that has been rotated but structural information, such as bedding, is rare with no determinable direction for geologic contacts discernable. Foliation directions are common and indicate a highly contorted geology rather than the well layered nature of the WFB.

Lithologies in the EFB appear to trend 030° in a series of truncated and highly folded units. Units of the EFB are generally less than 10m in thickness. Inter-bedded and intercalated intermediate pyroclastic and volcanic units make tracing individual beds difficult. The geology has been interpreted in six broad units: intermediate flows, intermediate tuffs and cherts, intermediate lapilli tuffs and flows, intermediate crystal tuffs and/or mafic volcanics, intermediate tuff with lapilli tuff, and intermediate flows and tuffs.

Diabase dikes generally 10m in width are found throughout the property but tend to be concentrated in the West Fault Group. These dikes strike 340-360°, sub-parallel to the Central Fault and represent the youngest geologic units observed on the property.

GEOCHEMISTRY

In 1991 a 0.25 by 0.15 metre angular quartz anchorite boulder found at L7S;96W assayed 9874 ppb gold and contained 1-5% fine grained disseminated arsenopyrite. A "B" horizon soil survey was completed over the cut grid and samples analyzed for gold and arsenic in an attempt to determine this boulders' source.

"B" horizon soils were chosen for two reasons. Clear cutting over the property has produced poor quality humus, and humus sampling completed 500 m. north in 1991, on an adjacent property, produced unsatisfactory results. (J.Clark, 1991).

213 "B" horizon samples and 13 humus samples were taken using a mattock and Kraft paper bags. Average depth of sample was 15 cm. Humus sampling on the property was restricted to swampy areas where "B" Horizon samples were unobtainable. Samples were prepared using Aqua-Regia Digestion and analyzed with I.C.A.P Plasma Scan. The minimum detection limits for the analysis was 5 ppb gold and 5 ppm arsenic.

The geochemical results were entered into a Reflex 2 computer data file to determine averages and standard deviations for the elements. 2 ppm/ppb was entered to indicate a <5 ppm/ppb value as the system program was only capable of processing numeric values.

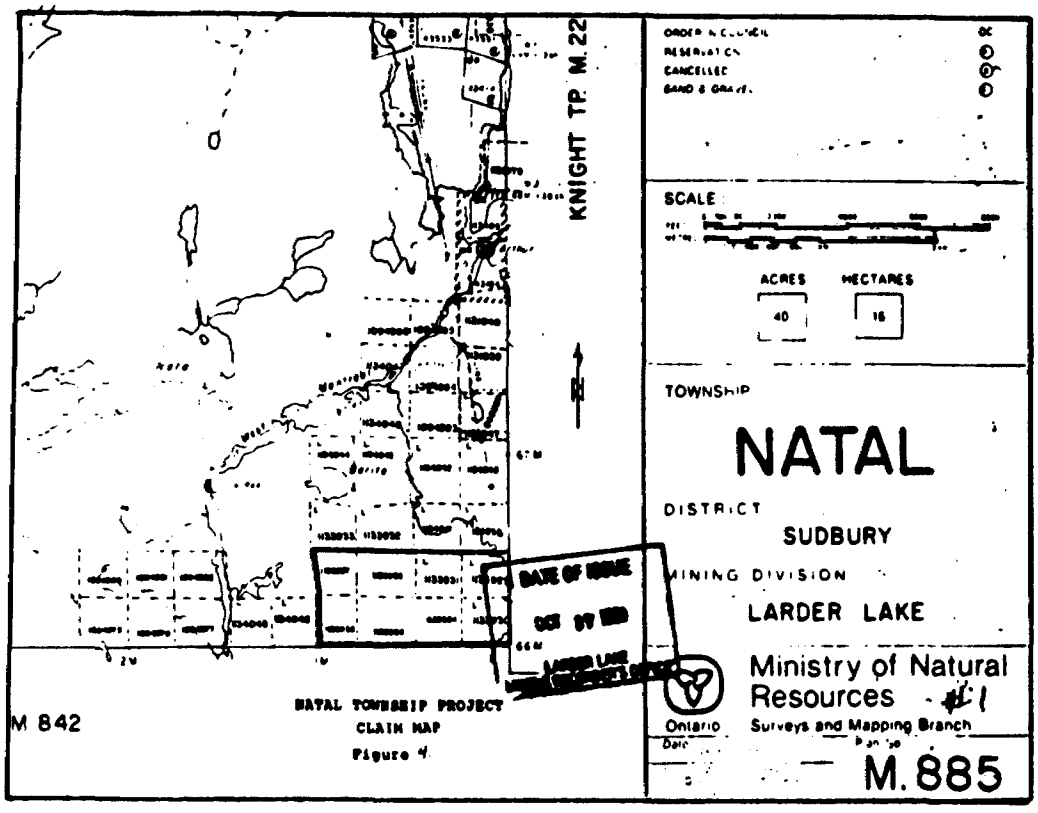


Figure 3. Claim Map of Natal Township Project

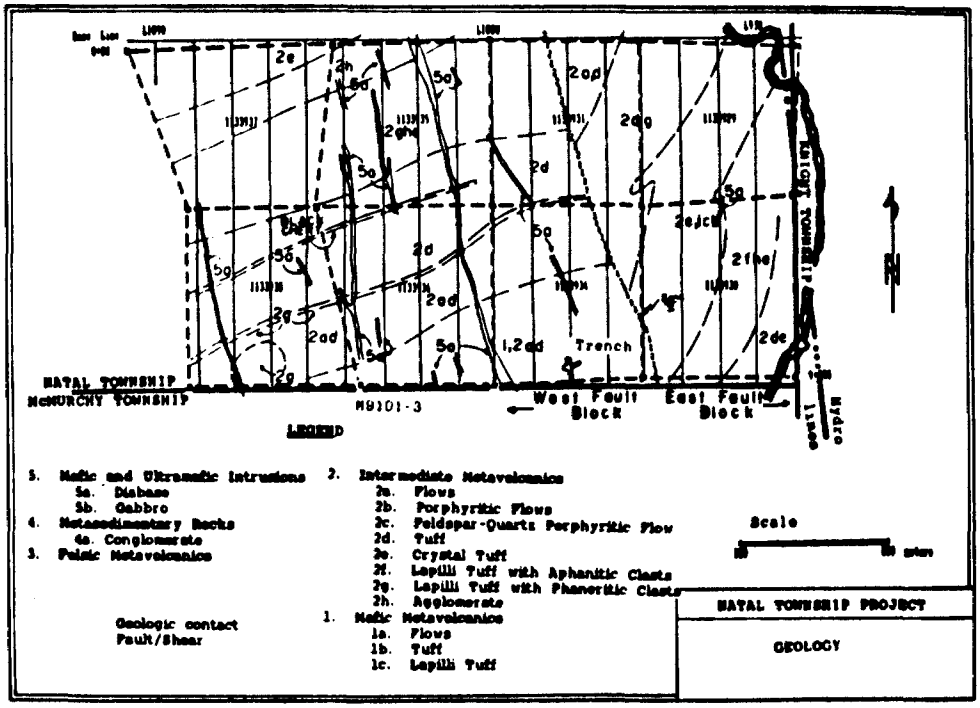


Figure 4. Geology of Natal Township Project

Several soil anomalies were located and are shown on the accompanying maps at the end of this report.

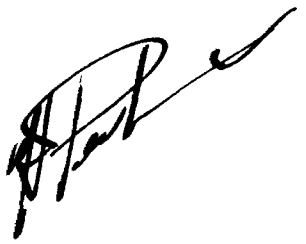
1. A gold and arsenic soil anomaly trends from L8S;9775W to L4S;9550W containing arsenic and gold concentrations of 15 to 70 ppm and 28 to 58 ppb. respectively. This anomaly is located along the geologic contact between intermediate lapilli tuffs and mafic to intermediate lapilli tuff units. This trend while weak is consistent and cuts across the Central Fault.
2. Another gold and arsenic anomaly trends from L2S;9375W (121 ppb. Au) to L5S;9225W (75 ppm. As), including L4S;9300W which contains the highest arsenic result, 130 ppm, found on the property, and L4S;93350 which assayed 223 ppb. Au. This anomaly trends across geologic strike and parallels the hydro lines located directly east.
3. There is a trend of weak arsenic concentrations from L8S;9575W (30 ppm. As) to L1S;9825W (100 ppm. As) paralleling the Central Fault and a VLF crossover discovered in 1991. These arsenic concentrations are not substantiated by gold results.
4. Strong gold anomalies from L3S;9950W (875 ppb Au, the highest gold result on the property) to L1S;9800W (45 ppb. Au) trend across stratified intermediate tuffs and agglomerates. The anomaly ends at the margin of the Central Fault.
5. A single station gold concentration of 230 ppb is located at L1S;9700W on the contact between intermediate tuffs and flows.
6. A weak single station Au anomaly (38 ppb.) is located at L7S;9875 at the contact between mafic and intermediate tuffs.

Geochemical Analysis Certificates and compiled analysis results are attached in Appendix I.

The geochemical trends above may indicate the presence of auriferous veins below the overburden. In particular anomalies #3 and #4 should be examined further due to their relationship to the Central Fault. Anomalies #5 and #6 although single station anomalies lie directly over geologic contacts and may indicate veins filling dilatent zones formed during folding. Anomaly #1 may have been caused by similar veining. Anomaly #2 remains unexplained.

SUMMARY & RECOMMENDATIONS

The "B" horizon sampling successfully delineated four arsenic and gold trends across the property. The direction of several of the concentrations while cutting presumed geologic trends are substantiated by previous VLF and magnetic surveys. Given the nature of the target, quartz anchorite veining, structural controls are probably more important than lithological. Thus several anomalies, such as #1, #2, #3, and #4 from above, should be examined further by detailed geologic mapping, sampling, and trenching.



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Carter M.W.

1987: Geology of the Shining Tree Area, Districts of Sudbury and Timiskaming, Ontario Geologic Survey, Report 240, 48p. Accompanied by Map 2510, scale 1:50000

1983: Geology of Natal and Knight Townships, Districts of Sudbury and Timiskaming, Ontario Geologic Survey, Report 225, 74p. Accompanied by Map 2465, scale 1:31680

Clark J.

1990: Report on the Geology and Geophysics of the Shining Tree Property, Natal Township, Ontario.

1991: Exploration Program Results, Shining Tree Property, Natal Twp., Unreleased report loaned by owner.

Ontario Geological Survey

1988: Natal Township, District of Sudbury, Ontario Geological Survey, Geological Data Inventory Folio 445, compiled by the staff of the Resident Geologist's Office, Cobalt, 27p., 2 maps.

Perkins, M.J.

1990: Report on the geology and geophysics of the Natal Township Property, 1990. Unpublished report filed for assessment purposes.

1991: Report on the geology, trenching and geophysics of the Natal Township Property, 1991. Unpublished report filed for assessment purposes.

Certificate of Qualification

I, **Michael James Perkins**, currently living at 514 Crawford Street, Toronto, Ontario, certify the following:

1. I currently hold two diplomas in Exploration Geology obtained in 1982 and 1983 at Sir Sandford Fleming College.

2. I have completed almost three years towards a B.Sc. in Geology at the University of Toronto.

3. I have been employed as geological technologist and geologist since graduation.

4. I was present on the property during the periods covered by this report.

Date: 6 January 1994

Signature: 

Michael J. Perkins

APPENDIX 1

Compiled Geochemical Analysis and Certificates

LINE	STATION	SOIL	GOLD PPB	ARSENIC
100S	93+75W	B	6	10
100S	94+00W	B	8	2
100S	94+25W	B	2	15
100S	94+50W	B	2	2
100S	94+75W	B	12	10
100S	95+00W	B	2	2
100S	95+25W	B	2	5
100S	95+50W	B	10	2
100S	95+75W	Humus	2	5
100S	96+00W	Humus	2	10
100S	96+25W	Humus	2	5
100S	96+50W	B	2	2
100S	96+75W	B	10	2
100S	97+00W	B	230	2
100S	97+25W	B	8	2
100S	97+50W	B	8	2
100S	97+75W	B	2	5
100S	98+00W	Humus	45	15
100S	98+25W	Humus	2	100
100S	98+50W	B	9	2
100S	98+75W	B	11	5
100S	99+00W	B	2	2
100S	99+25W	B	2	2
100S	99+50W	B	8	2
100S	99+75W	B	2	5
100S	100+00W	B	6	20
200S	93+75W	B	121	
200S	94+00W	B	2	2
200S	94+25W	B	21	2
200S	94+50W	B	6	10
200S	94+75W	B	7	2
200S	95+00W	no sample		
200S	95+25W	B	2	2
200S	95+50W	B	6	10
200S	95+75W	B	2	20
200S	96+00W	B	2	5
200S	96+25W	no sample		
200S	96+50W	B	2	20
200S	96+75W	B	2	2
200S	97+00W	B	2	10
200S	97+25W	B	8	20
200S	97+50W	B	2	2
200S	97+75W	B	2	15
200S	98+00W	Humus	2	
200S	98+25W	no sample		
200S	98+50W	B	2	2
200S	98+75W	B	167	10
200S	99+00W	B	8	5
200S	99+25W	B	2	2
200S	99+50W	B	2	10
200S	99+75W	B	2	5
200S	100+00W	B	2	10
300S	92+75W	B	2	15
300S	93+00W	B	2	2
300S	93+25W	B	2	5
300S	93+50W	B	2	10

LINE	STATION	SOIL	GOLD PPB	ARSENIC
300S	93+75W	B	2	35
300S	94+00W	B	2	2
300S	94+25W	B	2	2
300S	94+50W	B	2	10
300S	94+75W	B	2	2
300S	95+00W	B	2	15
300S	95+25W	B	2	2
300S	95+50W	B	2	5
300S	95+75W	B	8	10
300S	96+00W	B	2	10
300S	96+25W	B	2	10
300S	96+50W	B	2	10
300S	96+75W	B	2	10
300S	97+00W	B	2	10
300S	97+25W	B	2	5
300S	97+50W	B	2	10
300S	97+75W	B	2	10
300S	98+00W	Humus	6	15
300S	98+25W	B	2	2
300S	98+50W	B	5	15
300S	98+75W	B	5	10
300S	99+00W	B	2	2
300S	99+25W	B	2	5
300S	99+50W	B	875	2
300S	99+75W	Humus	2	15
400S	92+00W	B	2	5
400S	92+25W	B	2	2
400S	92+50W	B	2	5
400S	92+75W	B	2	20
400S	93+00W	B	2	100
400S	93+25W	No sample		
400S	93+50W	B	223	2
400S	93+75W	B	2	10
400S	94+00W	B	2	10
400S	94+25W	B	2	2
400S	94+50W	B	2	2
400S	94+75W	B	2	2
400S	95+00W	B	2	10
400S	95+25W	B	2	2
400S	95+50W	B	16	70
400S	95+75W	B	53	15
400S	96+00W	B	2	10
400S	96+25W	B	2	15
400S	96+50W	B	2	2
400S	96+75W	B	2	2
400S	97+00W	B	2	10
400S	97+25W	B	2	5
400S	97+50W	B	2	2
400S	97+75W	Humus	2	15
400S	98+00W	B	9	20
400S	98+25W	B	2	5
400S	98+50W	B	2	5
400S	98+75W	B	10	10
400S	99+00W	B	2	5
400S	99+25W	B	2	5
400S	99+50W	Humus	2	20

LINE	STATION	SOIL	GOLD PPB	ARSENIC
400S	99+75W	Humus	2	5
500S	92+25W	B	2	75
500S	92+50W	B	5	5
500S	92+75W	B	2	2
500S	93+00W	B	6	2
500S	93+25W	No sample		
500S	93+50W	B	2	5
500S	93+75W	B	2	2
500S	94+00W	B	6	10
500S	94+25W	B	2	2
500S	94+50W	B	2	10
500S	94+75W	B	2	15
500S	95+00W	B	5	10
500S	95+25W	B	2	10
500S	95+50W	B	2	15
500S	95+75W	B	2	10
500S	96+00W	B	2	10
500S	96+25W	B	2	2
500S	96+50W	B	7	2
500S	96+75W	B	2	5
500S	97+00W	B	2	5
500S	97+25W	humus	2	15
500S	97+50W	humus	2	20
500S	97+75W	B	2	2
500S	98+00W	B	2	30
500S	98+25W	B	2	10
500S	98+50W	B	2	5
500S	98+75W	B	2	2
500S	99+00W	B	2	10
500S	99+25W	humus	2	15
500S	99+50W	Humus	2	10
500S	99+75W	B	2	5
600S	92+00W	B	2	15
600S	92+25W	B	2	5
600S	92+50W	B	2	10
600S	92+75W	B	2	10
600S	93+00W	B	2	10
600S	93+25W	B	5	2
600S	93+50W	No sample		
600S	93+75W	B	2	5
600S	94+00W	B	5	2
600S	94+25W	B	2	10
600S	94+50W	B	2	10
600S	94+75W	B	2	5
600S	95+00W	B	2	15
600S	95+25W	B	2	2
600S	95+50W	B	2	2
600S	95+75W	B	2	10
600S	96+00W	B	2	5
600S	96+25W	B	2	40
600S	96+50W	B	48	30
600S	96+75W	B	2	5
600S	97+10W	B	2	15
600S	97+25W	B	2	10
600S	97+50W	B	6	20
600S	97+75W	B	2	5

LINE	STATION	SOIL	GOLD PPB	ARSENIC
600S	98+00W	B	2	2
600S	98+25W	B	2	10
600S	98+50W	B	2	15
600S	98+75W	B	2	10
600S	99+00W	Humus	8	10
700S	99+25W	no sample		
700S	99+50W	no sample		
700S	99+75W	no sample		
700S	91+75W	B	2	30
700S	92+00W	B	2	15
700S	92+25W	B	2	5
700S	92+50W	B	2	5
700S	92+75W	B	2	2
700S	93+00W	B	2	5
700S	93+25W	B	2	2
700S	93+50W	B	2	2
700S	93+75W	B	2	2
700S	94+00W	no sample		
700S	94+25W	B	2	5
700S	94+50W	B	2	5
700S	94+75W	B	5	10
700S	95+00W	B	2	10
700S	95+25W	B	6	5
700S	95+50W	B	2	10
700S	95+75W	B	2	5
700S	96+00W	B	6	2
700S	96+25W	B	2	5
700S	96+50W	B	11	10
700S	96+75W	B	2	10
700S	97+00W	B	17	15
700S	97+25W	B	2	10
700S	97+50W	B	2	5
700S	97+75W	B	6	2
700S	98+00W	B	8	15
700S	98+25W	B	7	20
700S	98+50W	B	5	10
700S	98+75W	B	38	10
700S	99+00W	B	2	5
700S	99+25W	B	2	2
700S	99+50W	B	6	15
700S	99+75W	Humus	6	10
800S	93+00W	B	25	10
800S	93+25W	B	2	2
800S	93+50W	B	2	10
800S	93+75W	B	2	10
800S	94+00W	B	6	10
800S	94+25W	B	2	15
800S	94+50W	B	2	15
800S	94+75W	B	2	5
800S	95+00W	B	5	2
800S	95+25W	B	2	2
800S	95+50W	B	2	10
800S	95+75W	B	2	30
800S	96+00W	B	2	10
800S	96+25W	B	2	10
800S	96+50W	B	2	10

LINE	STATION	SOIL	GOLD PPB	ARSENIC
800S	96+75W	B	9	2
800S	97+25W	B	2	10
800S	97+50W	B	9	5
800S	97+75W	B	28	15
800S	98+00W	B	5	5
800S	98+25W	B	2	5
800S	98+50W	B	8	5
800S	98+75W	B	2	10
800S	99+00W	B	10	10
800S	99+25W	B	2	2
800S	99+50W	B	2	2
800S	99+75W	Humus	2	5
		236	2578	2183

'B' Horizon Information

GOLD

Number of Samples= 226
Average Gold= 11.4 ppb
Standard Deviation= 63 ppb
Max Value= 875 ppb
Min Value= <5 ppb

ARSENIC

Number of Samples= 224
Average Arsenic= 9.7 ppm
Standard Deviation= 13.4 ppm
Max Value= 130 ppm
Min Value= <5 ppm

Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

M.PERKINS

2R-2059-RG1.10

REPORT No. : R2059
Page No. : 1 of 7
File No. : DE15AS
Date : DEC-21-1992

SAMPLE #	As ppm
L15-99W	< 5
L15-99425W	< 5
L15-95W	< 5
L15-94+50W	< 5
L15-93+75W	10
L15-97+75W	5
L15-99+50W	< 5
L15-94+00W	< 5
L15-95+50W	< 5
L15-99+75W	5
L15-97W	< 5
L15-94+75W	10
L15-100W	20
L15-97+50W	< 5
L15-96+75W	< 5
L15-97+25W	< 5
L15-96+50W	< 5
L15-98+75W	5
L15-98+50W	< 5
L15-95+25W	5
L15-94+25W	15
L15-96+25W	5
L15-98+25W	100
L15-98W	15
L15-96W	10
L25-98+75W	10
L25-98+50W	< 5
L25-97W	10
L25-97+25W	20
L25-97+50W	< 5
L25-95+25W	< 5
L25-96+75W	< 5
L25-96+50W	20
L25-94+75W	< 5
L25-95+75W	20

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

M.PERKINS

2R-2059-RG1.10

REPORT No. : R2059
Page No. : 2 of 7
File No. : DE15AS
Date : DEC-21-1992

SAMPLE #	As ppm
L25-94W	< 5
L25-95+50W	10
L25-99+50W	10
L25-94+50W	10
L25-94+25W	< 5
L25-99W	5
L25-100W	10
L25-99+25W	< 5
L25-99+75W	5
L25-97+75W	15
L25-96W	20
L35-94+50S	10
L35-94+75W	< 5
L35-99W	< 5
L35-99+25	5
L35-98+25W	< 5
L35-99+50W	< 5
L35-98+50W	15
L35-97W	10
L35-96+75W	10
L35-97+50W	10
L35-95W	15
L35-95+50W	5
L35-92+75W	15
L35-93W	< 5
L35-93+75W	35
L35-97+25W	5
L35-96+25W	10
L35-96+50W	10
L35-95+75W	10
L35-93+25S	5
L35-97+75W	10
L35-96W	10
L35-94+25W	< 5
L35-98+75W	10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : _____

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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

M.PERKINS

2R-2059-RG1.10

REPORT No. : R2059
Page No. : 3 of 7
File No. : DE15AS
Date : DEC-21-1992

SAMPLE #	As ppm
L35-95+25W	< 5
L35-94+00W	< 5
L45-94+25W	< 5
L45-94+50W	< 5
L45-96+00W	10
L45-97W	10
L45-95+50W	70
L45-95W	10
L45-97+25W	5
L45-96+50W	< 5
L45-92+50W	5
L45-93W	130
L45-96+25W	15
L45-92+75W	20
L45-98W	20
L45-99W	5
L45-98+75W	10
L45-97+50W	< 5
L45-95+25W	< 5
L45-98+50W	5
L45-99+25W	5
L45-98+25W	5
L45-96+75W	< 5
L45-93+75W	10
L45-94W	10
L45-93+50W	< 5
L45-92+25W	< 5
L45-94+75W	< 5
L45-92W	5
L45-95+75W	15
L55-94W	10
L55-95W	10
L55-97W	5
L55-96+25W	< 5
L55-98+25W	10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : _____

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Aqua-Regia Digestion

M.PERKINS

2R-2059-RG1.10

REPORT No. : R2059
Page No. : 4 of 7
File No. : DE15AS
Date : DEC-21-1992

SAMPLE #	As ppm
L55-93W	< 5
L55-95+50W	15
L55-92+50W	5
L55-93+50W	5
L55-95+25W	10
L55-96+50W	< 5
L55-97+75W	< 5
L55-99+75W	5
L55-98+50W	5
L55-98+75W	< 5
L55-92+75W	< 5
L55-94+50W	10
L55-95+75W	10
L55-92+25W	75
L55-98+00W	30
L55-99W	10
L55-93+75W	< 5
L55-94+75W	15
L55-94+25W	< 5
L55-96W	10
L55-96+75W	5
L65-95W	15
L65-92+75W	10
L65-98W	< 5
L65-95+25W	< 5
L65-96+75W	5
L65-97+25W	10
L65-92W	15
L65-98+75W	10
L65-93W	10
L65-92+50W	10
L65-98+25W	10
L65-93+25W	< 5
L65-95+50W	< 5
L65-92+25W	5

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3 at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : _____

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Aqua-Regia Digestion

M.PERKINS

2R-2059-RG1,10

REPORT No. : **R2059**
Page No. : 5 of 7
File No. : DE15AS
Date : DEC-21-1992

SAMPLE #	As ppm
L65-95+75W	10
L65-94+75W	5
L65-97+10W	15
L65-98+50W	15
L65-96W	5
L65-93+75W	5
L65-97+75W	5
L65-96+25W	40
L65-97+50W	20
L65-94+50W	10
L65-94+25W	10
L65-96+50W	30
L65-94W	< 5
L75-93+50W	< 5
L75-98+25W	20
L75-96+50W	10
L75-99+25W	< 5
L75-95+25W	5
L75-98W	15
L75-99+50W	15
L75-97W	15
L75-95W	10
L75-95+75W	5
L75-93+25W	< 5
L75-92+25W	5
L75-92+75W	< 5
L75-94+50W	5
L75-96+75W	10
L75-94+25W	5
L75-97+50W	5
L75-97+25W	10
L75-94+75W	10
L75-93+75W	< 5
L75-92+50W	5
L75-93W	5

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : _____

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Aqua-Regia Digestion

M.PERKINS

2R-2059-RG1.10

REPORT No. : R2059
Page No. : 6 of 7
File No. : DE15AS
Date : DEC-21-1992

SAMPLE #	As ppm
L75-92W	15
L75-98+75W	10
L75-91+75W	30
L75-95+50W	10
L75-99W	5
L75-98+50W	10
L75-97+75W	< 5
L75-96W	< 5
L75-96+25W	5
L85-97+50W	5
L85-95+25W	< 5
L85-94W	10
L85-96+75W ROAD	< 5
L85-96W	10
L85-99+25W	< 5
L85-99+75W	5
L85-98W	5
L85-97+75W	15
L85-98+50W	5
L85-97+25W	10
L85-95+75W	30
L85-94+75W	5
L85-96+25W	10
L85-98+75W	10
L85-96+50W	10
L85-98+25W	5
L85-93+25W	< 5
L85-93+50W	10
L85-93W	10
L85-94+25W	15
L85-99W	10
L85-95W	< 5
L85-95+50W	10
L85-99+50W	< 5
L85-94+50W	15

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : M/Pauline

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Aqua-Regia Digestion

M.PERKINS

2R-2059-RG1.10

REPORT No. : **R2059**
Page No. : 7 of 7
File No. : DE15AS
Date : DEC-21-1992

SAMPLE #	As ppm
L85-93+75W	10

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

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Certificat/Certificate

2R-2059-RG1

Comp: **M. PERKINS** Date: DEC-23-92
Proj:
Attn:

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon / Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L15-99W	<5		
L15-99425W	<5		
L15-95W	<5		
L15-94+50W	<5		
L15-93+75W	6		
L15-97+75W	<5		
L15-99+50W	6		
L15-94+00W	6		
L15-95-50W	10		
L15-99+75W	<5		
L15-97W	230		
L15-94+75W	12		
L15-100W	6		
L15-97+50W	8		
L15-96+75W	10		
L15-97+25W	8		
L15-96+50W	<5		
L15-98+75W	11	8	14
L15-98+50W	9	8	10
L15-95+25W	<5		
L15-94+25W	<5		

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PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

M.PERKINS

REPORT No. : R2121
Page No. : 1 of 1
File No. : DE23AS
Date : DEC-24-1992

2R-2121RG1

SAMPLE #	As ppm
L15-95+75W	5
L35-98W	15
L35-99+75W	15
L45-99+75W	5
L45-99+50W	20
L45-97+75W	15
L55-99+25W	15
L55-97+25W	15
L55-97+50W	20
L55-99+50W	10
L65-99+00W	10
L75-99+75W	10
L35-93+50W	10

Humus Samples.

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

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Certificat/Certificate

2R-2059-RG2

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon / Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L25-98+75W	167		
L25-98+50W	<5		
L25-97W	<5		
L25-97+25W	8		
L25-97+50W	<5		
L25-95+25W	<5		
L25-96+75W	<5		
L25-96+50W	<5		
L25-94+75W	7	8	6
L25-95+75W	<5		
L25-94W	<5		
L25-93+75W	121		
L25-95+50W	6		
L25-99+50W	<5		
L25-94+50W	6	<5	6
L25-94+25W	21		
L25-99W	8		
L25-100W	<5		

*L25-93+75W - NO SAMPLE REMAINING FOR ARSENIC ANALYSIS

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2R-2059-RG3

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon / Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L25-99+25W	<5		
L25-99+75W	<5	<5	<5
L25-97+75W	<5		
L25-96W	<5		
L35-94+50S	<5		
L35-94+75W	<5		
L35-99W	<5		
L35-99+25	<5		
L35-98+25W	<5		
L35-99+50W	875	926	823
L35-98+50W	5		
L35-97W	<5		
L35-96+75W	<5		
L35-97+50W	<5		
L35-95W	<5		
L35-95+50W	<5		
L35-92+75W	<5		
L35-93W	<5		
L35-93+75W	<5		
L35-97+25W	<5		
L35-96+25W	<5		
L35-96+50W	<5		

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2R-2059-RG4

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon / Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L35-95+75W	8		
L35-93+25S	<5		
L35-97+75W	<5		
L35-96W	<5		
L35-94+25W	<5		
L35-98+75W	5		
L35-95+25W	<5		
L35-94+00W	<5		
L45-94+25W	<5		
L45-94+50W	<5		
L45-96+00W	<5		
L45-97W	<5		
L45-95+50W	16		
L45-95W	<5		
L45-97+25W	<5		
L45-96+50W	<5		
L45-92+50W	<5		
L45-93W	<5		
L45-96+25W	<5		
L45-92+75W	<5		
L45-98W	9		
L35-99+25W	********		
L35-93+50W	<5		

********NO SAMPLE

Certifié par/Certified by _____

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2R-2059-RG5

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L45-99W	<5		
L45-98+75W	10		
L45-97+50W	<5		
L45-95+25W	<5		
L45-98+50W	<5		
L45-99+25W	<5		
L45-98+25W	<5		
L45-96+75W	<5		
L45-93+75W	<5		
L45-94W	<5		
L45-93+50W	223		
L45-92+25W	<5		
L45-94+75W	<5		
L45-92W	<5		
L45-95+75W	53		
L55-94W	6		<5
L55-95W	5		
L55-97W	<5		
L55-96+25W	<5		
L55-98+25W	<5		
L55-93W	6		6
L55-95+50W	<5		

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2R-2059-RG6

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L55-92+50W	5	<5	5
L55-93+50W	<5		
L55-95+25W	<5		
L55-96+50W	7		
L55-97+75W	<5		
L55-99+75W	<5	<5	<5
L55-98+50W	<5		
L55-98+75W	<5		
L55-92+75W	<5		
L55-94+50W	<5		
L55-95+75W	<5		
L55-92+25W	<5		
L55-98+00W	<5		
L55-99W	<5		
L55-93+75W	<5		
L55-94+75W	<5		
L55-94+25W	<5		
L55-96W	<5		
L55-96+75W	<5		
L65-95W	<5		
L65-92+75W	<5		
L65-98W	<5		

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2R-2059-RG7

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L65-95+25W	<5		
L65-96+75W	<5		
L65-97+25W	<5		
L65-92W	<5	<5	<5
L65-98+75W	<5		
L65-93W	<5		
L65-92+50W	<5		
L65-98+25W	<5		
L65-93+25W	5	5	<5
L65-95+50W	<5		
L65-92+25W	<5		
L65-95+75W	<5		
L65-94+75W	<5		
L65-97+10W	<5		
L65-98+50W	<5		
L65-96W	<5		
L65-93+75W	<5		
L65-97+75W	<5		
L65-96+25W	<5		
L65-97+50W	6		
L65-94+50W	<5		
L65-94+25W	<5		

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Certificat/Certificate

2R-2059-RG8

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L65-96+50W	48		
L65-94W	5		
L75-93+50W	<5		
L75-98+25W	7		
L75-96+50W	11		
L75-99+25W	<5		
L75-95+25W	6		
L75-98W	8		
L75-99+50W	6		
L75-97W	17		
L75-95W	<5		
L75-95+75W	<5	<5	<5
L75-93+25W	<5		
L75-92+25W	<5		
L75-92+75W	<5		
L75-94+50W	<5	<5	<5
L75-96+75W	<5		
L75-94+25W	<5		
L75-97+50W	<5		
L75-97+25W	<5		
L75-94+75W	5		
L75-93+75W	<5		

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Certificat/Certificate

2R-2059-RG9

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon / Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L75-92+50W	<5		
L75-93W	<5		
L75-92W	<5		
L75-98+75W	38		
L75-91+75W	<5		
L75-95+50W	<5		
L75-99W	<5		
L75-98+50W	5		
L75-97+75W	6		
L75-96W	6		
L75-96+25W	<5	<5	<5
L85-97+50W	9		
L85-95+25W	<5		
L85-94W	6		
L85-96+75W ROAD	9		
L85-96W	<5		
L85-99+25W	<5		
L85-97W	********		
L85-99+75W	<5		
L85-98W	5		
L85-97+75W	28		
L85-98+50W	8		

********NO SAMPLE

Certifie par/Certified by _____

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2059-RG10

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-01-92

No. D'Echantillon Sample Number	AU PPB	AU CKS PPB	AU CKS PPB
L85-97+25W	<5		
L85-95+75W	<5		
L85-94+75W	<5		
L85-96+25W	<5		
L85-98+75W	<5		
L85-96+50W	<5		
L85-98+25W	<5		
L85-93+25W	<5	<5	<5
L85-93+50W	<5		
L85-93W	25		
L85-94+25W	<5		
L85-99W	10		
L85-95W	5		
L85-95+50W	<5		
L85-99+50W	<5		
L85-94+50W	<5		
L85-93+75W	<5		

Certifié par/Certified by

ASSAYERS
LABORATOIRES/LABORATORIES
DIVISION DE/OF ASSAYERS CORPORATION LTD.
780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

Certificat/Certificate

2R-2121-RG1

Comp: **M. PERKINS**
Proj:
Attn:

Date: DEC-23-92

Nombre D'Echantillons/No. of Samples:
Soumis le/Submitted: DEC-15-92

No. D'Echantillon / Sample Number	AU PPB
L15-95+75W	<5
L15-96+25W	<5
L15-98+25W	<5
L15-98W	45
L15-96W	<5
L25-98W	<5
L35-98W	8
L35-99+75W	<5
L45-99+75W	<5
L45-99+50W	<5
L45-97+75W	<5
L55-99+25W	<5
L55-97+25W	<5
L55-97+50W	<5
L55-99+50W	<5
L65-99+00W	8
L75-99+75W	6

*L25-98W - NO SAMPLE REMAINING FOR ARSENIC ANALYSIS

Certifie par/Certified by _____

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

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

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

March 15, 1994

Our File: 2.15300
Transaction #: W9480.00069

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS L.1133929 ET AL. IN NATAL TOWNSHIP

The assessment work credits for Geochemical Survey, Section 13 of the Mining Act Regulations have been approved as originally filed.

The approval date is March 15, 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/jl
Enclosures:

cc: Resident Geologist
Kirkland Lake, Ontario

Assessment Files Library
Toronto, Ontario

Ministry of Northern Development and Mines

Ontario

G.M.S.

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9480.00069

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.

2.15300

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): MICHAEL PERKINS		Client No.: 181099
Address: 514 CRAWFORD ST, TORONTO, ONT, M6G3S8		Telephone No.: 416 534 6940
Mining Division: LARDER LAKE	Township/Area: NATAL TWP	M or G Plan No.: M885
Dates Work Performed From: 1 Sept 92	To: 20 SEPT 92	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	"B" Horizon Geochem.
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

J5110.

RECEIVED
FEB 14 1994
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ 6477.00

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
MICHAEL PERKINS	AS ABOVE

(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: 4 Feb 94	Recorded Holder or Agent (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: As Above

Telephone No.	Date	Certified By (Signature)
534	4 Feb 94	

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
Applied $1328. Reserve $5149.	Feb. 9/94 KA	Acting	RECEIVED LARDER LAKE MINING DIVISION FEB 9 1994
	Deemed Approval Date: May 10/94	Date Approved	
	Date Notice for Amendments Sent		

0241 (03/91)

77

Report of Work After Recording a Claim

Work Report Number for Applying Reserve	Claim #	Number of Claim Units	Value of Assessment Work Done On this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve Work to be Claimed at a Future Date
	1133929 ✓	1	1620	128		1492
	1133930 ✓	1	1619	400		1219
	1133931 ✓	1	1619	400		1219
	1133934 ✓	1	1619	400		1219
	~~1133935~~	1				
	~~1133936~~	1				
	~~1133937~~	1				
	~~1133938~~	1				
	8 4 Total # of Claims		6477 Total Value Work Done	1328 Total Value Work Applied	0 Total Assigned From	5149 Total Reserve

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9490.00069

2.15300

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) 670-7264.

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, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	2500	
	Field Supervision Supervision sur le terrain		2500
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
Supplies Used Fournitures utilisées	Type FLAGGING, STAKES, FLAGGING, MAPS ETC	124	
			124
ASSAYING		3017	3141
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		5641

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 TRUCK	420	
			420
Food and Lodging Nourriture et hébergement		416	416
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		836
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		836
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)		6477

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

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. 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
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. 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	Évaluation totale demandée
× 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 Recorded Holder 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	Date
	4 Feb 94

1212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

NOTES

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

Part of Township closed to staking effective May 8/78, Section 38(f) of the Mining Act.

(R) Surface and Mining Rights on all Crown Land in this township Withdrawn from prospecting, staking out, sale or lease Section 36 R.S.O. 1980, The Mining Act. Order NRW 14 / 82 effective October 21, 1982 at 1:42 pm.

*** Part of order NRW 14/82 RE-OPENED by order O-NL01-90 NER effective April 3, 1990 at 7:00 AM E.S.T.

(R1) Surface and Mining Rights Withdrawn from staking section 36 of the Mining Act R.S.O. 1980. Order W-L2-90 NER effective on April 3,1990 at 7:01 E.S.T.

»»»» Part of order W-L2-90 NER REOPENED by order O-ONT-06/92 NER/CR effective March 16 1992 at 4:15 pm E.S.T.

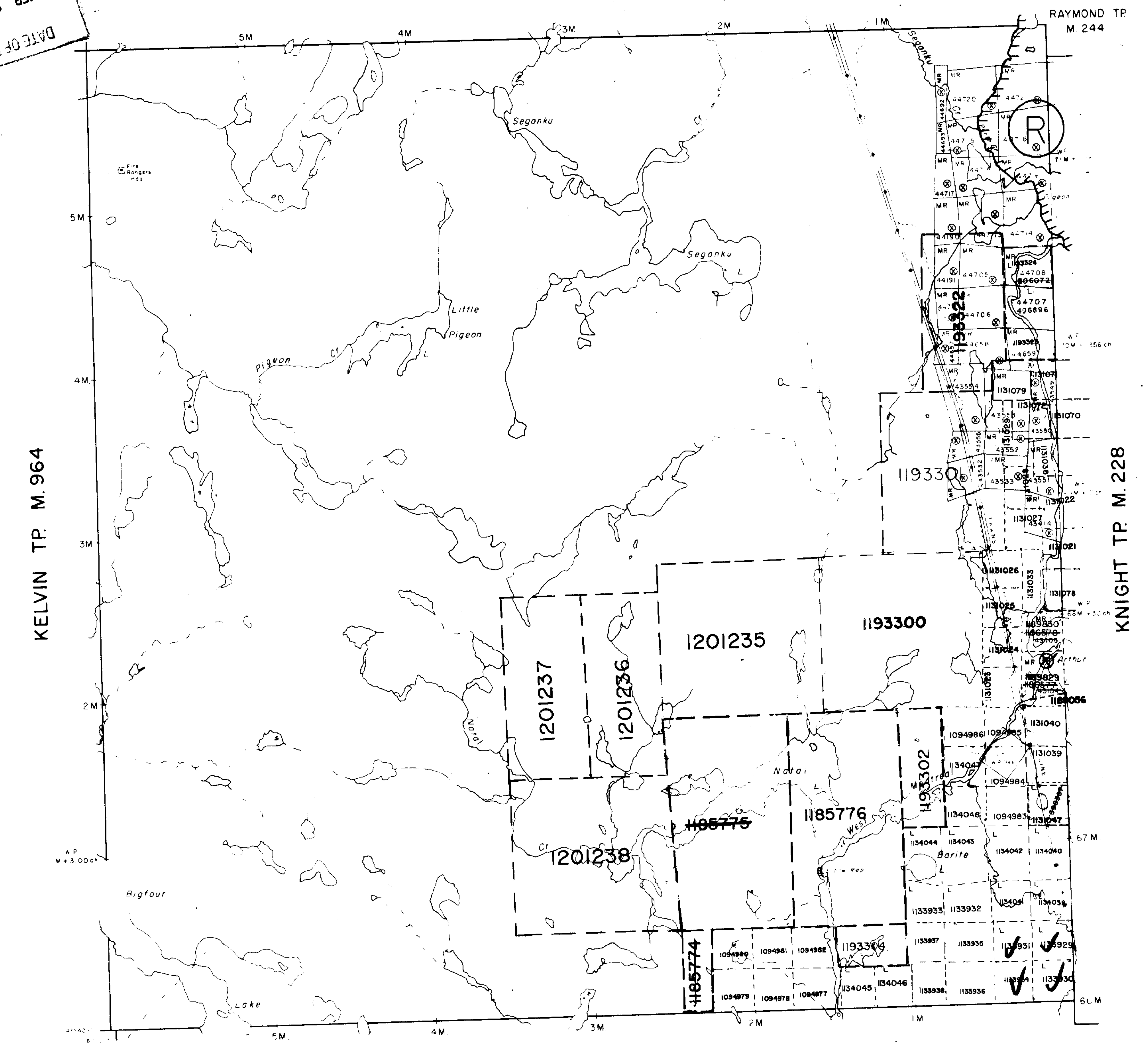
»»»» Part of order W-L2-90 NER REOPENED by order O-ONT-07/92 NER/CR dated March 23 1992 at 8:45 am E.S.T. This Order comes into effect at 7:00 AM E.S.T on JUNE 1,1992.

DATE OF ISSUE FEB 9 199[illegible] LARDER LAKE

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.

geology reference-COBALT

RESIDENT GEO.



"THIS MAP SHOWS THE APPROXIMATE LOCATION OF THE BOUNDARIES OF THE AREA WHICH IS THE SUBJECT OF CURRENT ~~LITIGATION. THE EXACT~~ LOCATION WILL BE SHOWN FOLLOWING CONFIRMATION BY THE PARTIES TO THE ACTION."

COPY OF THIS M-PLAN ARCHIVED ON MARCH 25/92 (T)

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

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		C.S.
ORDER-IN-COUNCIL		OC
RESERVATION		Ⓡ
CANCELLED		⊗
SAND & GRAVEL		Ⓢ

SCALE : 1 INCH 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000
METRES 200 400 600 800 1 KM 2 KM

ACRES 40 HECTARES 16

TOWNSHIP

NATAL

DISTRICT SUDBURY

MINING DIVISION LARDER LAKE

Ontario Ministry of Natural Resources #1

Surveys and Mapping Branch

Date

Plan No **M.885**

200

1134041

1134039

1133931

1133929

1133934

1133930

99W

97W

95W

93W

BL0

L1S

L2S

L3S

L4S

L5S

L6S

L7S

L8S

HYDRO LINE

HYDRO CREEK

KNIGHT TWP.

NATAL TWP.

MACMURCHY TWP.

2.15300

Claim Line with Claim Post

Township Line

As (ppm) / Au (ppb.) Cut Line with Assays for "B" Horizon Soil Sample.

H. = Humus Sample

N.S. = No Sample.

NATAL TWP. PROJECT	
SOIL GEOCHEMISTRY Au	
SCALE 1:2000	0 50 100m
NTS 41-P-11	TOWNSHIP: NATAL
DATE: AUG/SEPT. 92	CONTOUR INT: 10 ppb

41P11NE8501 2.15300 NATAL

1134041

1134039

99W

97W

95W

93W

BLO

L1S

L2S

HYDRO LINE

HYDRO CREEK

1133931

1133929

L3S

L4S

L5S

L6S

1133934

1133930

L7S

L8S

KNIGHT TWP.

HYDRO LINE

NATAL TWP.

MACMURCHY TWP.

B. 15300

Claim Line with Claim Post

Township Line

As (ppm)
Au (ppb.)
Cut Line with Assays for "B" Horizon Soil Sample.

H. = Humus Sample
N.S. = No Sample.

NATAL TWP. PROJECT	
SOIL GEOCHEMISTRY As	
SCALE 1:2000	0 50 100m
NTS 41-P-11	TOWNSHIP: NATAL
DATE: AUG/SEPT. 92	CONTOUR INT: 15ppm.