

# ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

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## ASSESSMENT REPORT

# 093947

describing

## GEOLOGICAL AND GEOCHEMICAL SURVEYS

on the

### BURWASH 1-9 CLAIMS

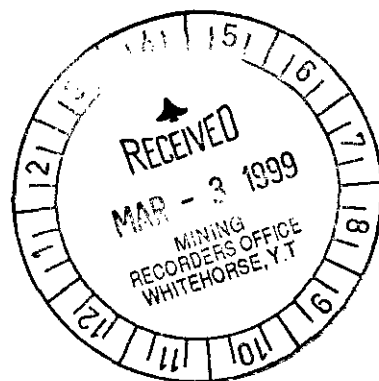
YB36423-YB36431

NTS 115G/6

Latitude 61°27'N; Longitude 139°18'W

in the

Whitehorse Mining District  
Yukon Territory



Prepared by

Archer, Cathro & Associates (1981) Limited

for

### NORDAC RESOURCES LTD.

by

R.C. Carne, M.Sc., P. Geo.

Field work conducted from August 7 to 14, 1998  
February, 1999

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 3600.00.

*M. B. B.*  
for Regional Manager, Exploration and  
Geological Services for Commissioner,  
of Yukon Territory.

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## SUMMARY AND RECOMMENDATIONS

The Burwash 1-9 claims are 100% owned by Nordac Resources Ltd. The property covers portions of a mafic-ultramafic sill similar to the host of nickel, copper and platinum group element (PGE) mineralization at the former Wellgreen Mine, 7 km to the west, as well as elsewhere in the Kluane Range.

The claim block is located in southwest Yukon Territory along the northwest edge of the central Kluane Range. A 5 km four-wheel drive road connects the property with the Wellgreen Mine access road in the Quill Creek valley at Km 8 from the Alaska Highway. From there it is 30 km to Burwash Landing, the nearest community and airport, and 410 km by paved highway to the year-round, deepsea port of Haines, Alaska.

The Quill Creek area has been explored on an episodic basis since the discovery of the Wellgreen nickel-copper-PGE surface showing in 1952. Intensive exploration and development there culminated in underground production in 1972 and 1973. An aggressive re-evaluation of the bulk tonnage potential of the property from 1986 to 1990 established an open pit reserve estimated at 49.9 million tonnes grading 0.36% nickel, 0.35% copper, 550 ppb platinum and 340 ppb palladium. Mineralization consists of massive sulphide lenses and areas of heavily disseminated sulphides (principally pyrrhotite with lesser chalcopyrite and pentlandite) in gabbro and pyroxenite emplaced along the margins of ultramafic sills. A unique characteristic of the Wellgreen occurrence and others in the area is the unusually high proportion of the rare PGE's. For example, a 9.8 m chip sample across mineralized gabbro at the Wellgreen discovery showing yielded a grade of 2.44% nickel, 2.07% copper, 0.94% cobalt, 2400 ppb platinum, 2200 ppb palladium, 1020 ppb gold, 560 ppb rhodium, 650 ppb ruthenium, 440 ppb osmium and 550 ppb iridium.

The Linda property, which lies between the Wellgreen and Burwash properties, contains a number of well mineralized areas and several of these are within a few hundred metres of the Burwash claim boundary. For instance, the Mex Showing, which consists of disseminated and blebby sulphides in marginal facies gabbro at the contact with carbonaceous phyllite, was only partially exposed by road building. A chip sample across 6 m assayed 0.52% nickel, 0.54% copper, 1400 ppb platinum and 1600 ppb palladium.

The Burwash claim area itself has received relatively little historical exploration. The only previous systematic work occurred in 1987 and consisted of reconnaissance scale prospecting and soil sampling which extended the potentially mineralized anomalous zone across the claim boundary from the Linda property. The 1998 program was designed to build upon positive results of that work and an eight day program of grid soil sampling, prospecting and geological mapping was carried out.

Soil geochemical data outline two very strong, coincident copper and nickel anomalies. The larger of the two extends the length of the sample grid for almost a kilometre and is open at both ends in unsampled areas. Samples of rusty weathering gabbro collected from the main anomaly assayed up to 0.82% copper and 0.63% nickel with 885 ppb platinum and 1630 ppb palladium. In addition, marginal facies gabbro on strike and to the east of the main anomaly was sampled in 1987 returning values up to 0.86% nickel, 0.46% copper, 700 ppb platinum and 1000 ppb palladium. Rusty weathering gabbro along the margin of a narrow peridotite sill southwest of the 1998 soil sample grid returned assays of 1.02% nickel, 0.46% copper, 685 ppb platinum and 2160 ppb palladium from 1987 grab samples.

The major difficulty facing a proper evaluation of the nickel-copper PGE potential of the Burwash property is that mineralized zones are oxidized, recessive and talus covered. This is largely because the area lies above the limits of Pleistocene valley glaciation but also because the relatively narrow mafic-ultramafic sills are extensively fractured and serpentinized. Soil geochemistry is effective at outlining areas of potential mineralization and the existing grid should be expanded to cover all areas of mafic-ultramafic rocks. Exploration experience at the nearby Wellgreen property has shown that diamond drilling is the most effective tool for a definitive evaluation. Magnetic and VLF-EM geophysical surveys covering the geochemical anomalies at 50 by 20 m station spacing have proven to be an inexpensive but very effective guide to locating specific diamond drill targets.

A proposed budget for this work is on the following page.

Respectfully submitted,

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

A handwritten signature in black ink, appearing to read 'R.C. Carne', followed by a horizontal line extending to the right.

R.C. Carne, M.Sc., P. Geo.

**PROPOSED 1999 BUDGET  
BURWASH 1-9 CLAIMS**

Diamond drilling 1000 m @ \$120/m, incl. mob-demob, fuel, bulldozer, etc. . . . .	\$120,000
Labour . . . . .	50,000
Room and board . . . . .	35,000
Geophysical survey . . . . .	15,000
Truck (incl. fuel, insurance, etc.) . . . . .	5,000
Analyses . . . . .	5,000
Office . . . . .	4,000
Communication, computer, survey equipment rental . . . . .	4,000
Assessment filing . . . . .	4,000
Travel/freight . . . . .	4,000
Management . . . . .	<u>7,600</u>
	\$253,600
	GST
	<u>17,800</u>
	<u>\$271,400</u>

## INTRODUCTION

The Burwash claims were staked in August 1991 and are owned 100% by Nordac Resources Ltd. The claims cover portions of a mafic-ultramafic sill similar to the host of nickel, copper and platinum group element (PGE) mineralization at the former Wellgreen Mine 7 km to the west, as well as elsewhere in the Kluane Range (Figure 1).

The 1998 exploration program was funded by Nordac and consisted of prospecting, geological mapping and grid soil geochemical sampling. The field work was done under the author's supervision between August 7 and 14. The author's Statement of Qualifications is included as Appendix I while a List of Personnel who worked on the project appears in Appendix II.

## PROPERTY, LOCATION AND ACCESS

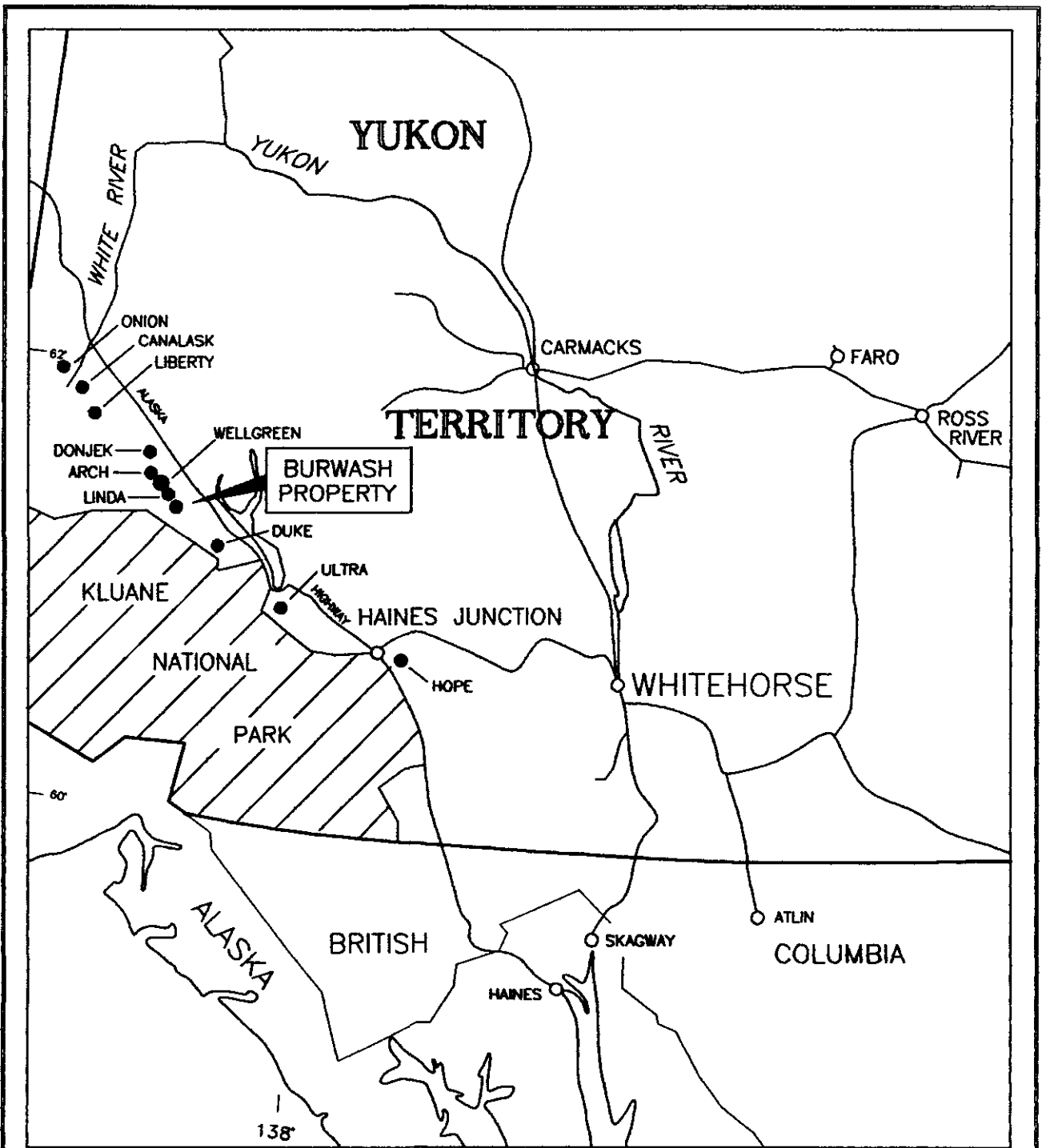
The Burwash property consists of nine mineral claims registered with the Whitehorse Mining Recorder as follows:

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Burwash 1-9	YB36423-YB36431	February 23, 2001

\*Expiry date does not include work done in 1998 will be filed for credit.

The claims are located at latitude 61°27' and longitude 139°18' on NTS sheet 115G/6 as shown on Figure 2. A 5 km four-wheel drive road connects the property with the Wellgreen Mine access road in the Quill Creek valley at Km 8 from the Alaska Highway. From there it is 30 km to Burwash Landing, the closest community and airport, and 410 km to the year-round, deep-sea port of Haines, Alaska.

Access to the Burwash claims in 1998 was by four-wheel drive truck from a temporary camp at Quill Creek.

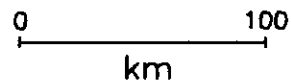


● Ni-Cu ± PGE ± Au Prospect

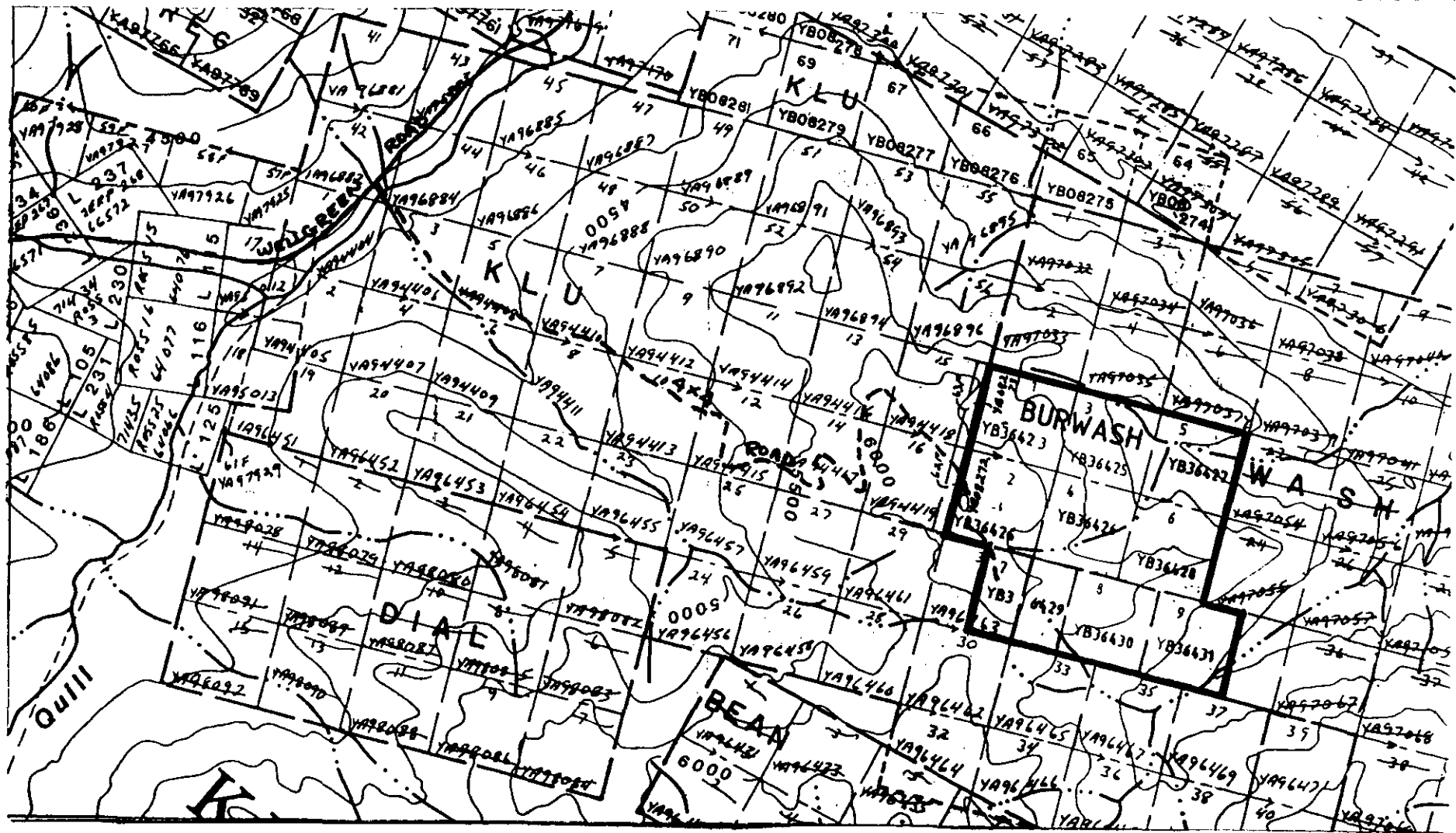
**NORDAC RESOURCES LTD.**

FIGURE 1  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**LOCATION  
 BURWASH PROPERTY**



FILE: NORDAC\BURWASH\BW-LOC.DWG DATE: FEBRUARY, 1999



SCALE 1:30,000

SOURCE CLAIM MAP  
115G/6

**NORDAC RESOURCES LTD.**

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CLAIM LOCATION**  
**BURWASH PROPERTY**

## **TOPOGRAPHY AND VEGETATION**

The property is located along the northwest edge of the Kluane Range immediately southwest of the broad, flat bottomed Shawkak Valley. Elevations range from 1250 m on the edge of the valley to 1980 m on ridge crests. Vegetation consists of stunted black spruce and thick moss near the valley floor, giving way to willow and black birch on lower slopes and moss, lichen, sedges and grass on upper slopes. Higher elevations are characterized by long, steep (about 30°) talus slopes with scattered outcrops near ridge crests and along actively eroding creek cuts. Much of the property lies above the upper limit of Pleistocene glaciation.

## **HISTORY AND ECONOMIC POTENTIAL OF NEARBY OCCURRENCES**

The nearby Wellgreen Mine surface showing was discovered in 1952 by three prospectors and immediately optioned by Hudson Bay Exploration and Development Company Limited which developed and eventually mined the prospect through a subsidiary, Hudson-Yukon Mining Co. Limited. Production was carried out in 1972 and 1973, eventually failing due to falling metal prices and excess dilution from bad ground conditions, compounded by unexpectedly erratic distribution of massive sulphide ore lenses.

Kluane Joint Venture (Chevron Minerals Ltd. and All-North Resources Ltd.) optioned the property in 1986 with the purpose of re-evaluating the PGE potential of the property, as well as establishing the viability of bulk surface mining a larger tonnage of lower grade material than attempted in the 1970's. All-North eventually acquired a 100% working interest in the property from Hudson-Yukon and Chevron and an extensive program of surface and underground

exploration culminated in 1990 with an open pit reserve estimated at 49.9 million tonnes grading 0.36% nickel, 0.35% copper, 550 ppb platinum and 340 ppb palladium. Assays as high as 4.57% nickel, 1.58% copper, 4140 ppb platinum and 3080 ppb palladium over 6 m have been recorded from drill intersections of massive sulphide lenses interpreted as magmatic segregations within the larger mafic-ultramafic host. Metallurgical tests indicate recoveries of 80-85% for nickel, 95% for copper and 70% for platinum and palladium are possible using conventional flotation techniques. A unique characteristic of the Wellgreen occurrence and others in the area is the unusually high proportion of the rare PGE's. For example, a 9.8 m chip sample across the East Zone discovery showing at Wellgreen yielded a grade of 2.44% nickel, 2.07% copper, 0.94% cobalt, 2400 ppb platinum, 2200 ppb palladium, 1020 ppb gold, 560 ppb rhodium, 650 ppb ruthenium, 440 ppb osmium and 550 ppb iridium.

The Wellgreen Mine with adjacent Arch and Linda properties was optioned by Northern Platinum Ltd. from All-North (now International All-North Resources Ltd.) in 1994. Only minor surface exploration has been carried out since.

The presence of mafic and ultramafic rocks and their potential to host Wellgreen-type mineralization was first recognized on the Burwash property and adjacent Linda property in 1952 by Yukon Mining Company Limited. The area was soon incorporated into the Hudson Bay holdings and explored with the Wellgreen property. The most significant exploration on the Linda property (now Klu claims) was carried out in 1987-1990 by All-North and its joint venture partners. Minor exploration was carried out in 1997 by Northern Platinum.

Various styles of mineralization are present on the Linda property. The Upper Showing lies about 2 km west of the Burwash claim group. A 1988 drill hole tested this occurrence, intersecting 83 cm of massive sulphide at the contact between gabbro and Hasen Creek Formation sedimentary rocks which assayed 3.51% nickel, 1.66% copper, 2700 ppb platinum, 4400 ppb palladium, 500 ppb rhodium, 1000 ppb iridium, 650 ppb osmium and 900 ppb ruthenium.

The Mex, Tex and Suicide Hill Showings were found during road building in 1988 near the present Burwash claim boundary (Figure 3).

The Mex Showing consists of disseminated and blebby sulphides in marginal facies gabbro at the contact with the Hasen Creek Formation phyllites. A chip sample across an area partially exposed by road building assayed 0.52% nickel, 0.54% copper, 1400 ppb platinum and 1600 ppb palladium over 6 m. Grab samples from similar mineralization at the nearby Tex Showing assayed up to 0.40% nickel, 0.36% copper, 900 ppb platinum and 400 ppb palladium.

The Suicide Hill Showing consists of malachite stained, sheared and quartz carbonate altered Station Creek Formation andesite near a mafic-ultramafic body. A grab sample of this material assayed 0.07% nickel, 0.39% copper, 1500 ppb platinum and 2000 ppb palladium.

The Burwash claims area was first systematically explored by Silverquest Resources Ltd. (70%) and joint venture partner 2001 Resource Industries Ltd. (30%) in 1987. That work, which included prospecting and soil sampling located Wellgreen-type nickel-copper-PGE mineralization in mafic-ultramafic rocks that extend across the claim boundary from the adjacent Linda property.

Nordac Resources Ltd. restaked the area of known mineralization in 1991.

### **1998 EXPLORATION PROGRAM**

The 1998 exploration program was designed to build upon positive results of reconnaissance-quality exploration carried out on the Burwash property area by previous tenure holders. The eight day program (including mobilization and demobilization periods) was carried out by an experienced two-person crew under supervision of the author.

A total of 93 soil samples were collected from a grid established in the central part of the property where previous soil sampling had returned positive results. In addition 28 rock samples were collected during the course of geological mapping and prospecting.

## GEOLOGY

### Regional Geology

The Burwash property lies along the northwest edge of Wrangellia Terrane within a steeply dipping package of Late Paleozoic and Early Mesozoic volcanic and sedimentary rocks that is bounded on the northeast by the Shakwak-Denali Fault system and on the southwest by the Duke River Fault.

### Skolai Group

The oldest rocks in the Quill Creek area are pale green pyroclastic andesites and interbedded phyllites of the Pennsylvanian to Permian Station Creek Formation which forms the lower member of the Skolai Group. Pyroclastic rocks, consisting of lapilli and lapilli crystal tuff, are fine to medium grained and thin bedded to massive. Agglomerate horizons are also locally present. Crystal fragments within the tuff include plagioclase, augite, hornblende and infrequent pseudomorphs of serpentine after olivine. The upper Station Creek Formation is characterized by interbedded black phyllite, siltstone, argillaceous limestone and cherty argillites with minor tuff horizons that decrease up section. Total thickness of the formation regionally exceeds 1000 m.

The Lower Permian Hasen Creek Formation forms the upper part of the Skolai Group, attaining a maximum thickness of approximately 800 m. The unit consists of various sedimentary rocks including black phyllite, chert, siltstone, limestone and conglomerate. The basal contact with Station Creek Formation is gradational and arbitrarily placed at the uppermost volcanic unit.

### Nikolai Group

The Middle to Late Triassic Nikolai Group is a kilometre or more thick sequence of basalt flows, with minor interbedded limestone, that unconformably overlies the Skolai Group rocks. Flows are thin (2 to 10 m), vesicular to amygdaloidal and are locally hematitic, indicating shallow water to subaerial deposition.

### Mafic-Ultramafic Intrusions

Mafic and ultramafic intrusions are common throughout the Kluane front ranges but they are generally confined to the contact between the Station Creek and Hasen Creek Formations or to a short stratigraphic distance above or below the contact. These sill-like bodies vary in thickness from less than 10 to 1000 m and may attain strike lengths up to 20 km. A significant number are ultramafic dominated complexes that have associated magmatic sulphide concentrations, some with proven economic potential. These generally have thin or discontinuous marginal gabbro zones at the base or in areas of complex interdigitation with country rocks. The generally fine-grained to phyrlic marginal gabbros can be overlain or flanked successively by melano-gabbro, clinopyroxenite, olivine clinopyroxenite, peridotite and dunite. Gabbro and pyroxenite-hosted magmatic sulphide concentrations, either as massive sulphide lenses or pods and heavy disseminations, carry Ni-Cu±PGE mineralization in a number of locations. A Lower to Middle Triassic age for the intrusions is indicated by crosscutting relationships with the host rocks.

### Maple Creek Gabbro

Varied-textured hypabyssal sills, stocks and dykes of a gabbroic composition roughly coeval with the mafic-ultramafic complexes and the overlying Nikolai volcanic rocks are thought to act as feeders to the Nikolai volcanic rocks and they have been reliably dated at  $232 \pm 1$  Ma.

### Property Geology

Geology of the Burwash property is given on Figure 3. Oldest rocks are massive bedded andesitic crystal tuffs of the Pennsylvanian to Permian upper Station Creek Formation which occur in the centre of the claim block (Unit PPv). A short distance to the southeast and across the drainage which bisects the property correlative strata consists of interbedded black, carbonaceous phyllite and andesitic tuff (Unit PPpht).

These strata are overlain, with apparent conformity, by black, carbonaceous, pyritic phyllite (Unit Pph) with intervals of massive light grey to white limestone (Unit Pl) and dark green to brown quartzite (Unit Pq), all part of the Lower Permian Hasen Creek Formation.

A complex mafic-ultramafic body intrudes both Station Creek and Hasen Creek strata. The rock (Unit mTrp) is comprised of dunite, peridotite and clinopyroxenite which, due to a relatively high level of serpentinization, were not differentiated from one another in the field. Lenses and elongate pods of pyritic gabbro (Unit mTrg) are localized along margins of the ultramafic rocks and in narrow apophyses of the main body. The gabbro almost always contains a high sulphide mineral content and deep oxidation has weathered the rock to the point where meaningful petrologic information cannot be gained from surface exposures.

## GEOCHEMISTRY AND MINERALIZATION

### Introduction

Two types of geochemical sampling were carried out on the Burwash property in 1998. These consisted of grid soil sampling (93 samples in total) to further define areas of potential mineralization that were outlined with wide spaced soil sampling by a previous operator in 1987 as well as systematic collection of 28 mineralized float and outcrop specimens during the course of prospecting and geological mapping. Sample locations are given on Figure 4.

Geochemical data from the 1998 survey are summarized for copper on Figure 5 and for nickel on Figure 6. Multi-element data for soil and rock samples collected in 1998 are given on Analytical Certificates in Appendix IV. All analyses were carried out by Chemex Labs Ltd. of North Vancouver, B.C.

### Soil Geochemical Survey

Soil samples collected from the property in 1998 were analyzed by the Induced Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) method for 32 elements on a standard partial extraction (aqua regia) leach of the -80 mesh fraction.

Detailed soil sample surveys using a similar analytical technique were carried out on the nearby Wellgreen property in 1986 and 1987. The 100 ppm threshold for copper and the 240 ppm threshold for nickel outline areas underlain by ultramafic rocks. Mineralization defined by drilling in the Wellgreen East and West Zones corresponds well with the area of greater than 300 ppm copper and greater than 600 ppm nickel in soils.

The 1998 Burwash property geochemical data outline two coincident copper and nickel soil geochemical anomalies. The larger of the two extends the length of the sampled area for almost a kilometre and is open at both ends in unsampled regions. Copper values in soils reach a maximum of 4750 ppm with nickel results ranging up to 3250 ppm. The anomaly coincides with a fault-disrupted, narrow, recessive ultramafic sill which contains a number of small gabbro bodies that lie within or upslope of the area of maximum geochemical response.

### Mineralization and Results of Rock Geochemical Sampling

A notable feature of all ultramafic lithologies on the property is the relatively high abundance of sulphide minerals, principally pyrrhotite, which can occur in intercumulus concentrations as high as 50%. This is probably due to the complex interfingering relationship between the ultramafic intrusion and Hasen Creek pyritic phyllite allowing assimilation of a considerable amount of sulphur from the country rock. Sulphur isotopic studies at the nearby Wellgreen Mine have shown that this is an important mechanism for concentrating copper, nickel and PGE's. The marginal facies gabbros are likewise enriched in sulphide minerals, largely pyrrhotite but including appreciable chalcopyrite in some areas.

Reconnaissance scale prospecting in the present Burwash property area in 1987 revealed a number of mineralized areas which are outside the limits of the 1998 detailed exploration. Rusty weathering gabbro along the margin of a narrow peridotite sill in the southwest corner of the property returned values up to 1.02% nickel, 0.46% copper, 685 ppb platinum and 2160 ppb palladium from grab samples. Specimens of rusty gabbro from the second area in the east-central part of the property returned up to 0.86% nickel, 0.46% copper, 700 ppb platinum and 1000 ppb palladium.

Rock samples collected from the Burwash property in 1998 were crushed with a portion pulverized and analyzed in the same manner as the soil samples.

The gabbros were chip sampled in 1998 where natural exposure made this possible. In addition, representative grab samples were collected from less well exposed gabbro bodies. Most of the gabbros carry anomalous nickel, copper, platinum and palladium contents but two samples taken from the east end of the main soil geochemical anomaly returned highly anomalous values. Sample AA4732, taken from a gabbro sill in peridotite, assayed 0.75% copper and 0.18% nickel with 810 ppb platinum and 1435 ppb palladium. A sample of similar material (AA4733) collected about 20 m to the west returned values of 0.82% copper and 0.63% nickel with 885 ppb platinum and 1630 ppb palladium.

Float boulders occurring downstream of the midpoint of the soil geochemical anomaly contain pyrrhotite with lesser chalcopyrite and pentlandite as 1 to 30 cm wide, disseminated to massive sulphide concentrations. A representative chip sample of the mineralized rock returned 0.40% copper, 0.44% nickel, 150 ppm platinum and 522 ppb palladium.

No rock samples were collected from the second, smaller geochemical anomaly which lies along the ridge crest at the west end of the property. Peak values of soil samples taken in this area are 1410 ppm copper and 2240 ppm nickel. The anomalous area coincides with a larger peridotite body which contains well mineralized gabbros at the Tex and Mex Showing, some 300 m to the west on the adjacent Linda property.

The Burwash claim area is unique among the other Kluane Range nickel-copper-PGE prospects in that much of the area of potential mineralization is above the level of Pleistocene glaciation. Consequently, the sulphide mineral rich gabbros and, to a lesser degree, the ultramafic rocks are relatively deeply weathered and the more well mineralized portions are likely to be recessive and talus covered. In fact, similar soil geochemical anomalies in high altitude settings at the nearby Wellgreen prospect were only successfully evaluated with diamond drilling guided by geophysical surveys as simple prospecting did not uncover the higher grade but recessive semi-massive to massive sulphide zones.

**SELECTED REFERENCES**

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- 1997 Geology and metallogeny of the Kluane mafic-ultramafic belt, Yukon Territory, Canada: Eastern Wrangellia - a new Ni-Cu-PGE metallogenic terrane; Geological Survey of Canada, Bulletin 506.

**APPENDIX I**

**AUTHOR'S STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with an M.Sc. majoring in Geological Sciences.
2. I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (registration number 19868).
3. From 1974 to present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981 became a partner of Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Robert C. Carne, M.Sc., P.Geol.

**APPENDIX II**  
**LIST OF PERSONNEL**

## APPENDIX II

### LIST OF PERSONNEL

<u>Name</u>	<u>Position</u>	<u>Period</u>
Rob Carne	Geologist/Supervisor	August 7 - 9
Greg Duso	Geologist/Party Chief	August 7 - 14
Iain Weatherston	Field Assistant	August 7 - 14

All are employees of Archer, Cathro & Associates (1981) Limited with address at:  
1016 - 510 West Hastings Street  
Vancouver, BC V6B 1L8

**APPENDIX III**

**DESCRIPTIONS OF ROCK SAMPLES WITH METAL VALUES**

**APPENDIX III**  
**DESCRIPTIONS OF ROCK SAMPLES WITH METAL VALUES**

<b><u>Sample Number</u></b>	<b><u>Description</u></b>	<b><u>Cu ppm</u></b>	<b><u>Ni ppm</u></b>	<b><u>Pt ppb</u></b>	<b><u>Pd ppb</u></b>	<b><u>Au ppb</u></b>
AA4725	altered limestone, chip sample across 3 m	18	39			
AA4726	altered limestone, chip sample across 5 m	9	3			
AA4727	altered limestone, chip sample across 5 m	546	817			
AA4728	altered limestone, chip sample across 8 m	662	854			
AA4729	sample of 1-3 cm disseminated to massive sulphide concentrations in GABR float boulders, sx dominately po, lesser cp and pn	3990	4450	150	522	<6
AA4730	float boulder limonitic PERD with seam of 20% semi-oxidized po	1515	1295	60	30	12
AA4731	composite grab across 7 m width, limonitic GABR pod, 1-5% disseminated po; pod is about 20 m long	328	433			
AA4732	grab of small GABR sills with up to 2% po in PERD	7460	1770	810	1435	<6
AA4733	grab similar to AA4732; up to 5% po, 1% cp	8180	6270	885	1630	<6
AA4734	grab, limonitic GABR with 5% po	2490	1440	195	258	36
AA4735	float, GABR with 5% po, trace cp	5790	164	<15	<6	<6
AA4736	composite grab across 10 m wide limonitic GABR	329	943			
AA4737	composite grab across 20 m wide GABR; 1-3% po	153	75			
AA4738	composite grab across limonitic GABR; 1-2% po	1320	180	225	306	<6
AA4739	float, limonitic PERD, 2% po, trace cp	1535	1075	180	270	<6
AA4740	grab, limonitic PERD; 2-3% disseminated po	2500	1250	345	120	24
AA4741	float, limonitic qz with 1-5 mm oxidized sx veins	2130	2870	75	396	<6
AA4742	float, limonitic GABR; up to 5% po	1225	1750	240	498	24
AA4743	float, limonitic GABR; up to 5% po	81	46			
AA4744	float, limonitic GABR; up to 5% po	58	30			
AA4745	grab, limonitic GABR, abundant ml stain; about 1 m wide	2660	1300	315	168	<6
AA4746	grab, limonitic GABR; 2% po, <0.5% cp	3810	1265	420	238	252
AA4747	float, 5% po in limonitic PERD	1465	997	315	108	42
AA4748	grab, limonitic GABR; 1-2% po, trace cp	208	60			
AA4749	grab, limonitic PERD; abundant po	537	1835	180	336	6

<b><u>Sample Number</u></b>	<b><u>Description</u></b>	<b><u>Cu ppm</u></b>	<b><u>Ni ppm</u></b>	<b><u>Pt ppb</u></b>	<b><u>Pd ppb</u></b>	<b><u>Au ppb</u></b>
AA4845	float, 2-3% net textured po in PERD	1835	2980	270	636	12
AA4846	float, 2-3% net textured po in PERD	588	1900	120	240	<6
AA4847	float, limonitic GABR	824	1395	120	258	12

### ABBREVIATIONS

cp        chalcopyrite  
 ml        malachite  
 pn        pentlandite  
 po        pyrrhotite  
 py        pyrite  
 qz        quartz  
 sx        sulphide

GABR     gabbro  
 PERD     undifferentiated peridotite or other ultramafic rock

**APPENDIX IV**  
**ANALYTICAL CERTIFICATES**



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: NORDAC RESOURCES LTD.  
C/O ARCHER, CATHRO  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project: WASH (NORDAC)  
Comments:

Page Number: 1  
Total Pages: 1  
Certificate Date: 23-OCT-1998  
Invoice No.: 19833721  
P.O. Number:  
Account: MTT

## CERTIFICATE OF ANALYSIS A9833721

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS							
AA4729	244 --	< 6	150	522							
AA4730	244 --	12	60	30							
AA4732	244 --	< 6	810	1435							
AA4733	244 --	< 6	885	1630							
AA4734	244 --	36	195	258							
AA4735	244 --	< 6	< 15	< 6							
AA4738	244 --	< 6	225	306							
AA4739	244 --	< 6	180	270							
AA4740	244 --	24	345	120							
AA4741	244 --	< 6	75	396							
AA4742	244 --	24	240	498							
AA4745	244 --	< 6	315	168							
AA4746	244 --	252	420	238							
AA4747	244 --	42	315	108							
AA4749	244 --	6	180	336							
AA4845	244 --	12	270	636							
AA4846	244 --	< 6	120	240							
AA4847	244 --	12	120	258							

*Hartfelder*

CERTIFICATION: \_\_\_\_\_ +



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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 Total Pages: 3  
 Certificate Date: 02-SEP-1998  
 Invoice No.: 19829324  
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 Account: MTT

## CERTIFICATE OF ANALYSIS

A9829324

SAMPLE	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
AA4750	201	202	0.4	2.80	62	50	< 0.5	< 2	0.91	0.5	94	327	544	6.70	< 10	< 1	0.07	< 10	5.54	1005	< 1
AA4751	201	202	0.6	2.56	34	50	0.5	< 2	0.60	< 0.5	132	330	766	6.47	< 10	< 1	0.04	< 10	9.72	1160	< 1
AA4752	201	202	0.4	2.17	48	70	0.5	< 2	0.82	0.5	98	299	472	5.95	< 10	< 1	0.06	< 10	5.98	1065	< 1
AA4753	201	202	0.8	2.40	66	60	< 0.5	< 2	0.68	0.5	109	376	653	7.03	< 10	< 1	0.05	< 10	6.13	1090	< 1
AA4754	201	202	1.6	1.70	14	50	< 0.5	< 2	0.75	< 0.5	260	312	2030	9.32	< 10	< 1	0.05	< 10	6.35	1200	< 1
AA4755	201	202	0.6	2.28	4	60	0.5	< 2	0.59	< 0.5	145	283	751	6.18	< 10	< 1	0.05	< 10	8.58	1080	1
AA4756	201	202	0.2	2.24	30	80	< 0.5	< 2	0.73	< 0.5	82	225	472	5.98	< 10	< 1	0.07	< 10	4.69	845	2
AA4757	201	202	0.8	2.28	42	50	0.5	< 2	0.61	< 0.5	115	487	875	7.10	< 10	< 1	0.06	< 10	8.33	1010	< 1
AA4758	201	202	0.6	2.47	54	50	< 0.5	< 2	1.92	1.5	52	88	297	7.89	< 10	< 1	0.09	10	2.12	615	4
AA4759	201	202	2.2	2.25	10	160	0.5	< 2	0.35	0.5	194	512	1410	9.01	< 10	< 1	0.08	< 10	12.15	1640	< 1
AA4760	201	202	0.8	2.16	132	70	0.5	< 2	1.51	0.5	105	368	1165	8.56	< 10	< 1	0.07	10	5.11	1025	< 1
AA4761	201	202	5.6	1.55	10	140	< 0.5	< 2	1.48	1.5	396	420	4750	13.30	< 10	< 1	0.06	< 10	10.25	1760	< 1
AA4762	201	202	2.0	2.45	86	30	0.5	< 2	1.26	0.5	212	578	1920	7.97	< 10	< 1	0.02	< 10	10.50	1000	< 1
AA4763	201	202	1.4	2.30	34	70	0.5	< 2	0.70	1.0	159	526	1520	8.47	< 10	< 1	0.06	< 10	8.58	1190	< 1
AA4764	201	202	0.6	2.15	46	50	< 0.5	< 2	0.34	< 0.5	112	383	806	12.70	< 10	< 1	0.06	< 10	4.68	845	4
AA4765	201	202	1.2	2.25	186	30	< 0.5	< 2	1.54	0.5	171	962	896	7.00	< 10	< 1	0.03	< 10	6.96	1210	< 1
AA4766	201	202	0.2	2.40	60	90	< 0.5	< 2	0.68	< 0.5	71	195	307	5.74	< 10	< 1	0.07	< 10	3.65	1250	< 1
AA4767	201	202	< 0.2	2.62	60	90	< 0.5	< 2	0.74	2.0	55	104	206	5.94	< 10	< 1	0.07	< 10	2.23	1120	4
AA4768	201	202	0.8	1.60	24	40	0.5	< 2	0.33	< 0.5	164	673	501	5.38	< 10	< 1	0.03	< 10	11.75	1250	< 1
AA4769	201	202	0.4	2.40	20	20	0.5	< 2	1.87	< 0.5	201	385	437	5.68	< 10	< 1	0.01	< 10	12.30	1430	< 1
AA4770	201	202	0.2	2.60	42	60	0.5	< 2	0.91	< 0.5	121	314	399	5.78	< 10	< 1	0.06	< 10	5.90	1280	3
AA4771	201	202	0.2	2.48	28	110	< 0.5	< 2	1.17	1.0	44	172	251	5.09	< 10	< 1	0.12	10	1.71	975	1
AA4772	201	202	0.2	2.55	38	140	< 0.5	< 2	1.12	< 0.5	33	75	101	4.68	< 10	< 1	0.09	10	1.33	1095	3
AA4773	201	202	0.2	2.46	46	60	0.5	< 2	0.46	1.0	160	350	280	5.91	< 10	< 1	0.04	< 10	9.43	1315	< 1
AA4774	201	202	0.4	2.52	52	110	< 0.5	< 2	1.11	1.0	45	151	172	5.48	< 10	< 1	0.13	10	1.98	1170	5
AA4775	201	202	0.2	2.50	60	100	< 0.5	< 2	0.96	1.0	42	68	143	5.63	< 10	< 1	0.12	10	1.57	920	4
AA4776	201	202	< 0.2	2.67	36	120	< 0.5	2	1.01	0.5	35	88	106	5.19	< 10	< 1	0.17	10	1.64	1010	3
AA4777	201	202	< 0.2	2.33	36	130	< 0.5	< 2	1.06	0.5	24	61	75	4.34	< 10	< 1	0.10	10	1.20	680	3
AA4778	201	202	0.4	2.24	76	70	< 0.5	< 2	2.20	< 0.5	52	68	179	6.18	< 10	< 1	0.11	10	1.50	945	6
AA4779	201	202	0.2	2.40	30	160	< 0.5	< 2	1.14	< 0.5	32	65	97	4.56	< 10	< 1	0.11	10	1.25	970	4
AA4780	201	202	< 0.2	2.62	28	110	< 0.5	2	0.69	< 0.5	33	61	154	4.57	< 10	< 1	0.08	10	1.43	855	3
AA4781	201	202	< 0.2	2.14	24	120	< 0.5	< 2	1.01	< 0.5	27	63	84	4.29	< 10	< 1	0.11	10	1.30	650	3
AA4782	201	202	< 0.2	2.73	56	110	< 0.5	< 2	1.00	< 0.5	35	69	162	5.27	< 10	< 1	0.11	10	1.71	1080	4
AA4783	201	202	1.4	2.07	434	190	0.5	< 2	0.69	< 0.5	206	470	1245	10.05	< 10	< 1	0.06	< 10	9.23	1775	< 1
AA4784	201	202	< 0.2	1.46	322	50	< 0.5	< 2	0.49	< 0.5	54	79	208	7.67	< 10	< 1	0.07	10	1.19	535	3
AA4785	201	202	0.6	2.74	74	80	0.5	< 2	0.57	< 0.5	132	827	613	7.29	< 10	< 1	0.04	< 10	6.56	1365	< 1
AA4786	201	202	0.6	2.36	202	330	0.5	< 2	0.79	2.0	127	63	197	6.84	< 10	< 1	0.18	20	1.35	4100	7
AA4787	201	202	1.2	1.90	58	60	0.5	< 2	0.42	< 0.5	256	382	1115	8.81	< 10	< 1	0.05	< 10	10.85	2080	< 1
AA4788	201	202	1.0	1.68	692	460	< 0.5	< 2	1.36	1.5	96	221	457	6.70	< 10	< 1	0.20	10	1.45	865	20
AA4789	201	202	0.4	1.69	222	150	< 0.5	< 2	1.71	1.5	59	167	233	6.26	< 10	< 1	0.09	10	1.63	1325	8

CERTIFICATION: John A. Buckler



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BOX 4127, 2054 SECOND AVE.  
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Y1A 3S9

Project: WASH (NORDAC)  
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Account: MTT

## CERTIFICATE OF ANALYSIS

### A9829324

SAMPLE	PREP		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		CODE	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
AA4750	201	202	< 0.01	827	580	8	4	9	30	0.05	< 10	< 10	72	< 10	120
AA4751	201	202	< 0.01	1340	360	6	4	7	18	0.05	< 10	< 10	55	< 10	82
AA4752	201	202	0.01	935	620	12	< 2	8	32	0.05	< 10	< 10	61	< 10	94
AA4753	201	202	< 0.01	944	540	16	< 2	9	27	0.04	< 10	< 10	64	< 10	118
AA4754	201	202	0.01	2050	640	18	< 2	8	31	0.03	< 10	< 10	51	< 10	80
AA4755	201	202	< 0.01	1420	410	6	< 2	7	22	0.05	< 10	< 10	50	< 10	86
AA4756	201	202	0.01	775	560	8	6	7	36	0.08	< 10	< 10	75	< 10	98
AA4757	201	202	< 0.01	1195	640	4	< 2	7	27	0.06	< 10	< 10	59	< 10	86
AA4758	201	202	< 0.01	172	790	20	6	5	50	0.01	< 10	< 10	39	< 10	198
AA4759	201	202	< 0.01	1065	220	16	2	7	14	0.07	< 10	< 10	49	< 10	102
AA4760	201	202	0.01	669	600	14	2	10	52	0.07	< 10	< 10	75	< 10	144
AA4761	201	202	< 0.01	2120	180	26	2	5	22	0.06	< 10	< 10	48	< 10	120
AA4762	201	202	< 0.01	2200	130	8	6	6	24	0.03	< 10	< 10	57	< 10	80
AA4763	201	202	< 0.01	1410	370	12	< 2	7	23	0.07	< 10	< 10	62	< 10	98
AA4764	201	202	< 0.01	619	1080	6	< 2	9	19	0.09	< 10	< 10	82	< 10	90
AA4765	201	202	< 0.01	1900	410	8	< 2	10	43	0.03	< 10	< 10	71	< 10	58
AA4766	201	202	0.01	437	790	12	< 2	9	28	0.05	< 10	< 10	71	< 10	118
AA4767	201	202	0.01	176	780	30	10	10	28	0.01	< 10	< 10	69	< 10	188
AA4768	201	202	< 0.01	1500	340	8	< 2	6	14	0.04	< 10	< 10	44	< 10	76
AA4769	201	202	< 0.01	1610	150	6	2	7	31	0.04	< 10	< 10	47	< 10	60
AA4770	201	202	0.01	652	420	12	2	9	29	0.08	< 10	< 10	78	< 10	96
AA4771	201	202	0.02	205	910	14	2	9	45	0.07	< 10	< 10	82	< 10	120
AA4772	201	202	0.01	83	1330	16	2	11	50	0.07	< 10	< 10	85	< 10	120
AA4773	201	202	< 0.01	1170	450	10	4	6	20	0.06	< 10	< 10	52	< 10	76
AA4774	201	202	0.02	171	1120	14	2	10	47	0.07	< 10	< 10	79	< 10	140
AA4775	201	202	0.01	94	1210	18	< 2	12	44	0.07	< 10	< 10	88	< 10	206
AA4776	201	202	0.02	96	1140	8	< 2	10	46	0.09	< 10	< 10	97	< 10	130
AA4777	201	202	0.03	62	960	6	< 2	8	47	0.08	< 10	< 10	78	< 10	128
AA4778	201	202	0.01	106	890	18	< 2	11	63	0.04	< 10	< 10	62	< 10	152
AA4779	201	202	0.02	71	990	4	< 2	9	49	0.08	< 10	< 10	95	< 10	106
AA4780	201	202	0.01	79	430	2	2	10	40	0.12	< 10	< 10	103	< 10	90
AA4781	201	202	0.02	73	810	2	2	6	40	0.08	< 10	< 10	81	< 10	116
AA4782	201	202	0.01	78	680	6	< 2	12	44	0.08	< 10	< 10	99	< 10	114
AA4783	201	202	< 0.01	1355	250	14	6	10	26	0.05	< 10	< 10	52	< 10	112
AA4784	201	202	0.01	171	1020	2	10	21	26	0.03	< 10	< 10	128	< 10	60
AA4785	201	202	< 0.01	1340	460	10	< 2	14	25	0.08	< 10	< 10	87	< 10	82
AA4786	201	202	0.02	122	840	44	8	16	45	0.03	< 10	< 10	64	< 10	228
AA4787	201	202	< 0.01	1080	270	12	< 2	10	18	0.06	< 10	< 10	46	< 10	98
AA4788	201	202	0.01	564	2020	24	30	11	114	< 0.01	< 10	< 10	64	< 10	224
AA4789	201	202	0.01	277	1040	24	12	12	68	0.03	< 10	< 10	60	< 10	184

CERTIFICATION:

*H. B. Bickler*



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A9829324

SAMPLE	PREP		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
	CODE		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
AA4790	201	202	0.6	0.65	20	30	0.5	< 2	8.18	< 0.5	36	47	1485	1.36	< 10	< 1	0.08	< 10	7.40	375	< 1
AA4791	201	202	0.6	2.07	16	100	< 0.5	< 2	0.54	1.0	161	328	1290	6.84	< 10	< 1	0.05	< 10	5.66	1050	1
AA4792	201	202	0.2	1.39	64	130	< 0.5	< 2	1.09	< 0.5	40	103	263	4.46	< 10	< 1	0.11	< 10	1.71	665	1
AA4793	201	202	1.4	1.82	84	70	0.5	< 2	0.42	0.5	296	391	1280	8.28	< 10	< 1	0.05	< 10	8.71	2140	< 1
AA4794	201	202	< 0.2	1.97	8	100	0.5	< 2	0.37	< 0.5	142	340	302	5.96	< 10	< 1	0.06	< 10	7.04	1050	< 1
AA4795	201	202	0.2	1.87	6	110	0.5	< 2	0.40	< 0.5	163	355	282	5.84	< 10	< 1	0.07	< 10	6.93	1130	< 1
AA4796	201	202	0.2	2.17	42	90	0.5	< 2	0.71	< 0.5	111	259	337	5.46	< 10	< 1	0.08	10	5.37	1480	< 1
AA4797	201	202	0.6	2.37	142	80	< 0.5	< 2	0.81	1.5	58	208	229	8.63	< 10	< 1	0.10	10	1.99	855	5
AA4798	201	202	0.8	2.18	112	110	< 0.5	< 2	0.71	2.0	60	90	299	10.85	< 10	< 1	0.09	10	1.35	1165	5
AA4799	201	202	< 0.2	2.22	46	230	< 0.5	< 2	1.32	1.0	32	100	102	4.54	< 10	< 1	0.11	10	1.30	885	3
AA4800	201	202	< 0.2	2.07	116	110	< 0.5	< 2	0.88	0.5	34	80	106	5.76	< 10	< 1	0.13	10	1.10	1020	4
AA4801	201	202	0.6	1.79	514	190	< 0.5	< 2	1.22	0.5	93	388	480	6.47	< 10	< 1	0.08	10	2.94	900	8
AA4802	201	202	0.2	2.84	100	180	< 0.5	< 2	1.01	< 0.5	59	161	336	7.32	< 10	< 1	0.11	10	2.85	1385	2
AA4803	201	202	0.2	2.37	304	70	< 0.5	< 2	0.49	1.0	164	232	1835	10.80	< 10	< 1	0.07	20	3.24	925	< 1
AA4805	201	202	0.6	2.13	54	70	< 0.5	< 2	1.03	0.5	37	62	167	6.36	< 10	< 1	0.08	10	1.27	870	3
AA4806	201	202	< 0.2	1.95	20	150	< 0.5	< 2	1.10	0.5	27	64	84	4.06	< 10	< 1	0.12	10	1.04	815	4
AA4807	201	202	< 0.2	1.75	22	130	< 0.5	< 2	1.20	1.5	23	48	83	3.38	< 10	< 1	0.10	10	0.96	695	4
AA4808	201	202	< 0.2	2.11	26	150	< 0.5	< 2	0.97	0.5	27	64	89	4.35	< 10	< 1	0.08	10	1.07	805	5
AA4809	201	202	0.6	3.39	58	50	< 0.5	< 2	1.39	1.5	71	1010	442	6.39	< 10	< 1	0.04	< 10	4.52	1120	1
AA4810	201	202	0.6	2.18	74	60	< 0.5	< 2	1.36	0.5	78	289	607	6.84	< 10	< 1	0.05	< 10	4.40	825	1
AA4811	201	202	< 0.2	1.29	788	70	< 0.5	< 2	10.45	0.5	35	61	175	4.02	< 10	< 1	0.08	< 10	0.89	590	6
AA4812	201	202	0.2	2.36	74	50	< 0.5	< 2	0.50	0.5	51	57	171	6.70	< 10	< 1	0.07	10	1.50	1020	3
AA4813	201	202	0.8	2.55	164	150	< 0.5	< 2	0.58	2.0	47	73	250	5.47	< 10	< 1	0.10	10	1.63	1355	4
AA4814	201	202	1.6	2.55	258	110	0.5	< 2	0.55	4.0	59	100	375	5.55	< 10	< 1	0.11	10	1.84	1325	10
AA4815	201	202	0.2	2.10	80	60	< 0.5	< 2	8.86	0.5	33	22	130	6.15	< 10	< 1	0.12	< 10	1.38	960	5
AA4816	201	202	< 0.2	3.48	52	80	< 0.5	< 2	0.79	< 0.5	58	114	176	6.05	< 10	< 1	0.11	10	2.66	1185	3
AA4817	201	202	< 0.2	3.62	50	70	< 0.5	< 2	2.56	0.5	62	83	194	6.06	< 10	< 1	0.08	10	2.94	1330	3
AA4818	201	202	< 0.2	3.93	4	60	< 0.5	< 2	1.65	< 0.5	65	89	322	6.32	< 10	< 1	0.06	< 10	3.76	1400	< 1
AA4819	201	202	< 0.2	4.70	42	50	< 0.5	< 2	2.96	< 0.5	84	121	403	7.09	< 10	< 1	0.07	< 10	4.52	1660	3
AA4820	201	202	0.2	3.41	52	80	< 0.5	< 2	1.12	< 0.5	67	224	241	6.29	< 10	< 1	0.09	10	4.07	1315	< 1
AA4821	201	202	0.2	3.11	88	80	< 0.5	< 2	1.07	0.5	49	183	202	6.27	< 10	< 1	0.10	10	3.00	1255	1
AA4822	201	202	< 0.2	3.72	38	50	< 0.5	< 2	3.85	< 0.5	52	128	190	5.78	< 10	< 1	0.09	< 10	3.20	1150	2
AA4823	201	202	< 0.2	3.88	46	100	< 0.5	< 2	3.83	< 0.5	67	156	225	5.98	< 10	< 1	0.09	< 10	3.57	1495	5
AA4824	201	202	1.6	1.95	28	50	1.0	< 2	0.44	0.5	312	851	1550	5.51	< 10	< 1	0.03	< 10	13.30	1675	< 1
AA4825	201	202	< 0.2	2.99	102	60	< 0.5	< 2	1.35	< 0.5	66	189	176	6.06	< 10	< 1	0.08	10	2.45	1135	1
AA4826	201	202	0.2	3.17	66	80	< 0.5	< 2	0.92	0.5	53	124	210	6.55	< 10	< 1	0.08	10	2.39	1415	4
AA4827	201	202	< 0.2	3.97	76	80	< 0.5	< 2	5.53	0.5	81	163	243	6.29	< 10	< 1	0.10	< 10	3.31	1585	4
AA4828	201	202	< 0.2	3.12	92	80	< 0.5	< 2	0.82	< 0.5	67	550	211	6.45	< 10	< 1	0.10	10	3.26	1430	4
AA4829	201	202	0.6	2.38	78	90	< 0.5	< 2	0.90	0.5	48	187	185	6.06	< 10	< 1	0.10	10	1.68	1030	3
AA4830	201	202	0.6	2.07	42	50	< 0.5	< 2	2.83	1.0	77	276	648	6.59	< 10	< 1	0.06	< 10	3.06	745	6

CERTIFICATION:

*Hart Buchler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

NORDAC RESOURCES LTD.  
C/O ARCHER, CATHRO  
BOX 4127, 2054 SECOND AVE.  
WHITEHORSE, YT  
Y1A 3S9

Project : WASH (NORDAC)  
Comments:

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Account : MTT

## CERTIFICATE OF ANALYSIS

### A9829324

SAMPLE	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
AA4790	201	202	0.01	1770	410	< 2	2	3	130	0.03	< 10	< 10	16	< 10	138
AA4791	201	202	0.01	923	530	12	< 2	8	21	0.07	< 10	< 10	54	< 10	102
AA4792	201	202	0.01	279	1130	8	8	10	41	0.03	< 10	< 10	74	< 10	78
AA4793	201	202	< 0.01	1995	480	14	< 2	10	25	0.05	< 10	< 10	49	< 10	104
AA4794	201	202	0.01	878	320	10	2	9	25	0.11	< 10	< 10	58	< 10	74
AA4795	201	202	0.01	1115	370	14	< 2	8	27	0.10	< 10	< 10	53	< 10	74
AA4796	201	202	0.02	727	640	10	< 2	9	38	0.08	< 10	< 10	67	< 10	94
AA4797	201	202	0.01	239	890	32	10	11	46	0.02	< 10	< 10	63	< 10	290
AA4798	201	202	0.01	139	900	38	< 2	16	44	0.03	< 10	< 10	79	< 10	378
AA4799	201	202	0.02	121	1240	10	2	6	66	0.07	< 10	< 10	72	< 10	126
AA4800	201	202	0.01	114	1040	10	2	13	50	0.05	< 10	< 10	68	< 10	138
AA4801	201	202	0.01	662	1250	10	34	10	75	0.03	< 10	< 10	69	< 10	178
AA4802	201	202	0.01	347	760	12	4	20	38	0.04	< 10	< 10	121	< 10	140
AA4803	201	202	0.03	1960	1120	8	2	9	34	0.09	< 10	< 10	109	< 10	204
AA4805	201	202	0.01	91	760	16	< 2	8	51	0.04	< 10	< 10	57	< 10	190
AA4806	201	202	0.01	76	960	10	< 2	5	48	0.04	< 10	< 10	68	< 10	128
AA4807	201	202	0.02	58	940	10	4	5	47	0.05	< 10	< 10	63	< 10	88
AA4808	201	202	0.01	62	960	8	2	7	48	0.06	< 10	< 10	86	< 10	118
AA4809	201	202	< 0.01	522	520	20	< 2	13	35	0.07	< 10	< 10	113	< 10	98
AA4810	201	202	0.01	679	740	8	2	8	45	0.03	< 10	< 10	53	< 10	156
AA4811	201	202	< 0.01	195	790	6	10	7	69	< 0.01	< 10	< 10	32	< 10	144
AA4812	201	202	0.02	120	1090	20	< 2	7	42	0.01	< 10	< 10	50	< 10	280
AA4813	201	202	0.01	111	860	66	< 2	6	30	0.03	< 10	< 10	53	< 10	308
AA4814	201	202	0.01	148	830	148	4	6	31	0.03	< 10	< 10	53	< 10	452
AA4815	201	202	0.01	47	640	10	< 2	15	51	< 0.01	< 10	< 10	75	< 10	136
AA4816	201	202	0.01	122	850	18	< 2	11	26	0.04	< 10	< 10	97	< 10	104
AA4817	201	202	< 0.01	115	630	12	2	13	61	0.04	< 10	< 10	102	< 10	98
AA4818	201	202	< 0.01	141	450	4	8	18	51	0.09	< 10	< 10	121	< 10	96
AA4819	201	202	< 0.01	158	410	< 2	< 2	22	68	0.07	< 10	< 10	155	< 10	98
AA4820	201	202	0.01	319	700	8	< 2	15	42	0.07	< 10	< 10	114	< 10	114
AA4821	201	202	0.01	207	790	14	< 2	12	37	0.05	< 10	< 10	94	< 10	138
AA4822	201	202	< 0.01	94	490	2	< 2	18	86	0.05	< 10	< 10	122	< 10	96
AA4823	201	202	< 0.01	107	410	8	< 2	26	104	0.05	< 10	< 10	137	< 10	124
AA4824	201	202	< 0.01	3250	200	6	2	7	12	0.04	< 10	< 10	48	< 10	86
AA4825	201	202	< 0.01	147	780	22	< 2	11	50	0.03	< 10	< 10	95	< 10	126
AA4826	201	202	0.01	119	720	18	2	18	38	0.04	< 10	< 10	121	< 10	168
AA4827	201	202	< 0.01	114	380	22	< 2	25	103	0.03	< 10	< 10	154	< 10	126
AA4828	201	202	0.01	388	790	18	4	16	38	0.04	< 10	< 10	105	< 10	122
AA4829	201	202	0.02	174	1040	18	4	10	55	0.05	< 10	< 10	60	< 10	170
AA4830	201	202	0.01	748	770	10	< 2	7	102	0.01	< 10	< 10	43	< 10	180

CERTIFICATION:

*Hart Bichler*



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o: NORDAC RESOURCES LTD.  
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Y1A 3S9

Project : WASH (NORDAC)  
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Account : MTT

## CERTIFICATE OF ANALYSIS

### A9829324

SAMPLE	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
AA4831	201	202	0.2	2.36	8	40	< 0.5	< 2	1.41	0.5	46	66	148	5.72	< 10	< 1	0.06	< 10	1.58	555	2
AA4832	201	202	< 0.2	4.02	< 2	40	0.5	< 2	0.51	< 0.5	92	1080	328	6.15	< 10	< 1	0.10	< 10	7.13	780	< 1
AA4833	201	202	0.6	3.13	36	40	0.5	< 2	0.48	< 0.5	122	705	478	6.00	< 10	< 1	0.02	< 10	8.65	1085	< 1
AA4834	201	202	0.8	2.21	50	70	0.5	< 2	0.55	0.5	158	329	896	6.92	< 10	< 1	0.06	< 10	6.93	1200	< 1
AA4835	201	202	0.8	2.05	46	70	0.5	< 2	0.46	< 0.5	133	379	726	7.03	< 10	< 1	0.05	< 10	8.00	1070	< 1
AA4836	201	202	1.4	2.41	4	50	0.5	< 2	1.06	0.5	268	484	1530	6.85	< 10	< 1	0.03	< 10	8.47	1355	< 1
AA4837	201	202	0.2	1.96	26	100	< 0.5	< 2	0.49	< 0.5	97	228	417	5.28	< 10	< 1	0.05	10	4.78	790	3
AA4838	201	202	1.2	2.47	60	60	0.5	< 2	0.40	0.5	192	702	888	7.08	< 10	< 1	0.03	< 10	8.68	1350	< 1
AA4839	201	202	0.8	2.11	26	70	0.5	< 2	0.57	< 0.5	108	257	567	5.46	< 10	< 1	0.05	< 10	7.33	845	< 1
AA4840	201	202	0.2	2.38	98	70	< 0.5	< 2	0.77	0.5	84	312	342	6.12	< 10	< 1	0.06	10	4.35	1140	1
AA4841	201	202	0.2	2.29	50	90	0.5	< 2	0.96	< 0.5	77	307	266	5.39	< 10	< 1	0.06	10	4.68	960	1
AA4842	201	202	0.6	2.09	26	90	0.5	< 2	0.65	< 0.5	110	247	353	5.41	< 10	< 1	0.05	< 10	6.66	925	< 1
AA4843	201	202	< 0.2	2.07	10	110	0.5	< 2	0.52	< 0.5	121	198	204	5.23	< 10	< 1	0.08	10	5.30	1070	< 1
AA4844	201	202	0.6	1.96	18	80	0.5	< 2	0.43	< 0.5	131	270	359	5.53	< 10	< 1	0.06	< 10	7.75	1230	1

CERTIFICATION:

*Hart Bechler*



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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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o: NORDAC RESOURCES LTD.  
 C/O ARCHER, CATHRO  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

Project : WASH (NORDAC)  
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## CERTIFICATE OF ANALYSIS A9829324

SAMPLE	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Ti	U	V	W	Zn
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
AA4831	201	202	0.01	117	900	6	< 2	6	60	< 0.01	< 10	< 10	39	< 10	160
AA4832	201	202	< 0.01	1015	320	4	< 2	4	18	0.12	< 10	< 10	89	< 10	70
AA4833	201	202	< 0.01	1260	360	4	< 2	7	20	0.07	< 10	< 10	76	< 10	68
AA4834	201	202	0.01	1545	560	10	< 2	10	27	0.07	< 10	< 10	65	< 10	106
AA4835	201	202	0.01	1430	510	< 2	< 2	9	23	0.06	< 10	< 10	54	< 10	108
AA4836	201	202	< 0.01	2240	330	12	< 2	5	22	0.08	< 10	< 10	47	< 10	100
AA4837	201	202	0.02	963	580	10	2	8	33	0.08	< 10	< 10	67	< 10	94
AA4838	201	202	< 0.01	1885	380	18	< 2	10	18	0.05	< 10	< 10	65	< 10	98
AA4839	201	202	0.01	1365	640	< 2	< 2	7	26	0.07	< 10	< 10	55	< 10	84
AA4840	201	202	0.01	781	540	< 2	< 2	10	32	0.06	< 10	< 10	72	< 10	110
AA4841	201	202	0.02	773	780	6	< 2	9	38	0.06	< 10	< 10	64	< 10	98
AA4842	201	202	0.02	1075	650	2	< 2	7	29	0.07	< 10	< 10	55	< 10	86
AA4843	201	202	0.01	833	550	8	< 2	8	35	0.08	< 10	< 10	61	< 10	94
AA4844	201	202	0.01	962	390	4	< 2	7	27	0.08	< 10	< 10	53	< 10	88

CERTIFICATION:

*Handwritten signature: Howard Bickel*



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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: NORDAC RESOURCES LTD.  
 C/O ARCHER, CATHRO  
 BOX 4127, 2054 SECOND AVE.  
 WHITEHORSE, YT  
 Y1A 3S9

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Project : WASH (NORDAC)  
 Comments :

## CERTIFICATE OF ANALYSIS A9829321

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
AAA725	205 226	< 0.2	0.27	10	730	< 0.5	< 2	6.29	< 0.5	5	84	18	1.23	< 10	< 1	0.13	< 10	1.22	615	3
AAA726	205 226	< 0.2	0.16	4	50	< 0.5	2	>15.00	0.5	< 1	5	9	0.15	< 10	1	< 0.01	< 10	0.53	205	5
AAA727	205 226	0.4	1.25	12	< 10	< 0.5	2	>15.00	1.0	14	13	546	1.23	< 10	2	0.01	< 10	0.88	185	4
AAA728	205 226	0.4	0.55	24	50	< 0.5	< 2	>15.00	< 0.5	19	15	662	0.99	< 10	1	0.01	< 10	1.52	170	3
AAA729	205 226	4.6	0.15	10	10	< 0.5	2	0.77	0.5	296	158	3990	8.86	< 10	< 1	0.01	< 10	0.23	45	8
AAA730	205 226	1.0	1.20	12	< 10	0.5	< 2	0.21	0.5	150	354	1515	8.21	< 10	< 1	0.01	< 10	12.55	670	< 1
AAA731	205 226	0.2	0.28	< 2	30	< 0.5	< 2	0.70	< 0.5	53	278	328	3.52	< 10	1	0.04	< 10	0.59	55	6
AAA732	205 226	5.6	3.33	< 2	< 10	< 0.5	< 2	1.23	0.5	55	94	7460	6.26	< 10	< 1	< 0.01	< 10	2.14	280	< 1
AAA733	205 226	4.0	3.10	< 2	< 10	< 0.5	6	3.66	2.0	226	17	8180	9.19	< 10	3	< 0.01	< 10	0.99	295	< 1
AAA734	205 226	1.4	1.66	< 2	10	0.5	< 2	0.37	< 0.5	151	344	2490	8.06	< 10	< 1	0.06	< 10	9.74	850	< 1
AAA735	205 226	3.8	4.43	< 2	< 10	< 0.5	< 2	6.58	3.0	54	27	5790	3.38	< 10	< 1	< 0.01	< 10	0.36	90	3
AAA736	205 226	0.4	3.28	6	20	< 0.5	< 2	3.26	< 0.5	75	385	329	4.29	< 10	< 1	0.02	< 10	2.37	185	3
AAA737	205 226	< 0.2	0.80	2	40	< 0.5	< 2	1.66	< 0.5	40	103	153	4.82	< 10	< 1	0.08	< 10	0.50	70	4
AAA738	205 226	0.6	1.81	< 2	10	< 0.5	2	1.04	< 0.5	28	182	1320	5.05	< 10	1	0.04	< 10	1.23	170	2
AAA739	205 226	0.4	2.59	10	120	< 0.5	< 2	0.68	< 0.5	103	508	1535	5.39	< 10	3	0.14	< 10	3.34	275	< 1
AAA740	205 226	0.8	1.53	2	70	0.5	< 2	0.17	0.5	162	488	2500	10.65	< 10	< 1	0.10	< 10	12.25	1320	< 1
AAA741	205 226	0.8	1.35	430	130	< 0.5	2	0.23	< 0.5	73	183	2130	>15.00	< 10	3	0.04	< 10	0.35	55	15
AAA742	205 226	1.0	3.03	< 2	30	< 0.5	< 2	0.22	< 0.5	98	431	1225	5.91	< 10	3	0.16	< 10	7.02	480	< 1
AAA743	205 226	< 0.2	1.00	< 2	120	< 0.5	2	1.01	< 0.5	23	20	81	3.49	< 10	< 1	0.05	< 10	1.08	125	3
AAA744	205 226	< 0.2	1.58	< 2	50	< 0.5	2	2.63	< 0.5	26	17	58	4.31	< 10	< 1	0.03	10	0.35	60	4
AAA745	205 226	2.2	1.55	< 2	80	< 0.5	< 2	1.42	0.5	67	557	2660	2.71	< 10	< 1	< 0.01	< 10	2.17	155	< 1
AAA746	205 226	1.6	2.89	< 2	20	< 0.5	< 2	0.20	0.5	146	1120	3810	8.07	< 10	< 1	0.04	< 10	7.24	590	< 1
AAA747	205 226	0.6	1.55	10	70	0.5	< 2	0.09	< 0.5	133	599	1465	8.36	< 10	< 1	0.26	< 10	12.05	740	< 1
AAA748	205 226	< 0.2	1.08	< 2	10	< 0.5	4	1.83	< 0.5	37	44	208	2.89	< 10	3	< 0.01	< 10	0.25	65	2
AAA749	205 226	0.8	1.45	6	< 10	0.5	< 2	0.22	< 0.5	118	550	537	7.11	< 10	< 1	0.02	< 10	14.45	730	< 1
AAA845	205 226	1.4	1.89	< 2	< 10	< 0.5	< 2	0.25	1.5	178	1165	1835	8.79	< 10	< 1	< 0.01	< 10	7.44	475	< 1
AAA846	205 226	0.8	1.07	< 2	< 10	1.0	< 2	0.13	< 0.5	123	728	588	7.27	< 10	< 1	0.01	< 10	>15.00	855	< 1
AAA847	205 226	1.0	1.39	< 2	< 10	0.5	< 2	0.60	0.5	99	253	824	7.04	< 10	< 1	0.02	< 10	11.90	650	< 1

CERTIFICATION: Hunter Bickel



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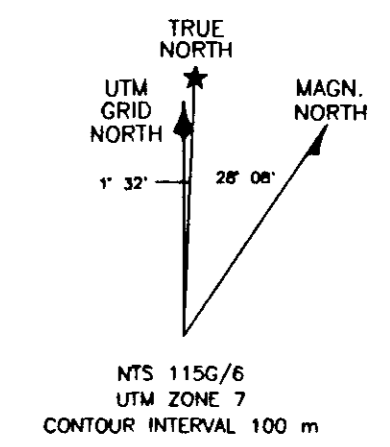
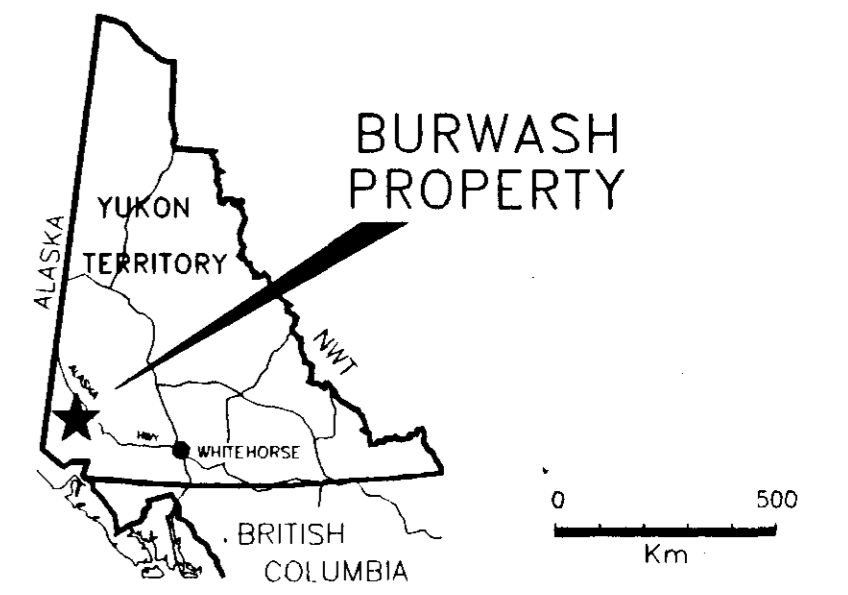
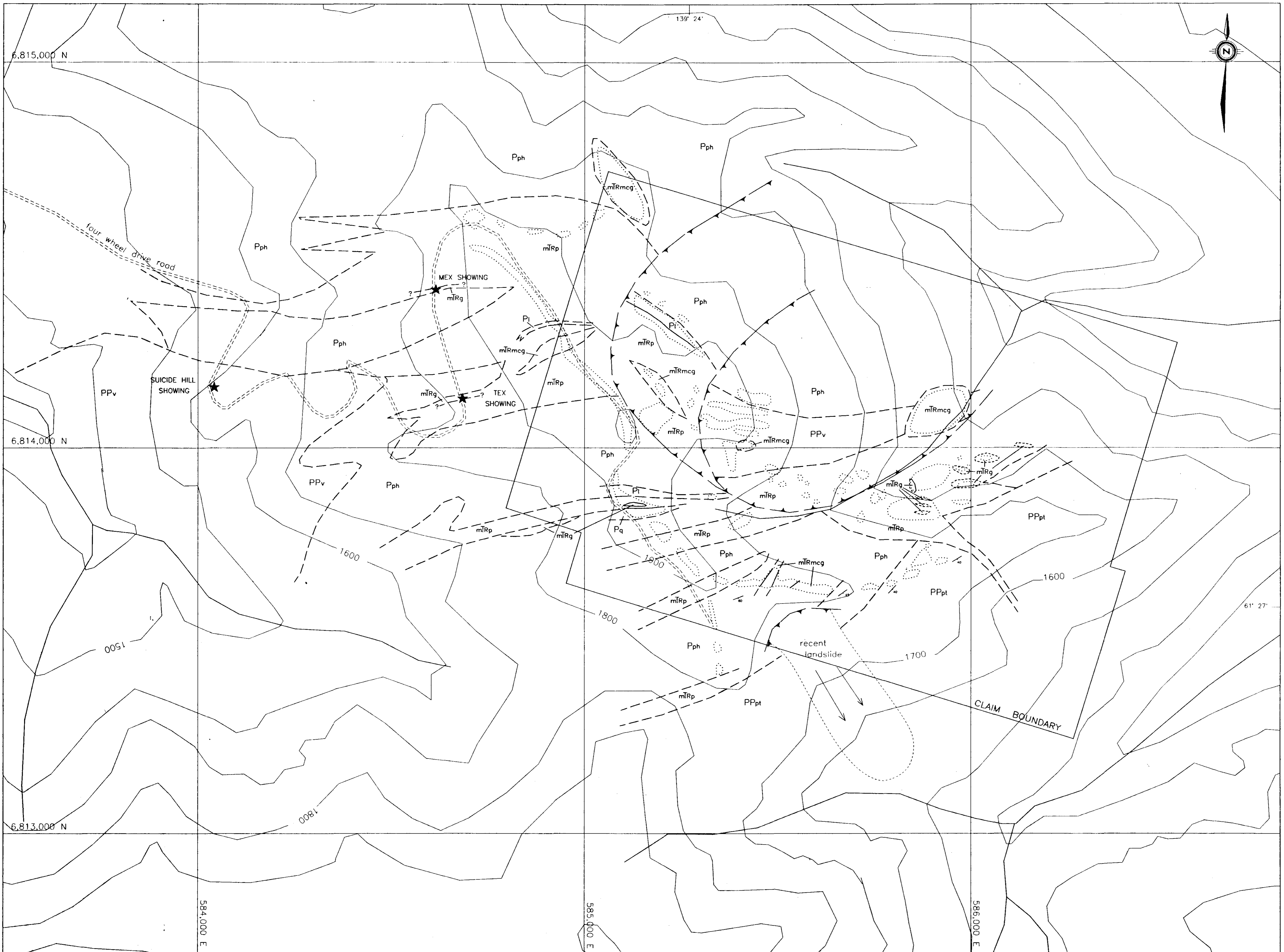
Project : WASH (NORDAC)  
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## CERTIFICATE OF ANALYSIS A9829321

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
AA4725	205 226	0.03	39	280	< 2	6	6	76	< 0.01	< 10	< 10	18	< 10	16
AA4726	205 226	< 0.01	3	90	< 2	< 2	< 1	194	< 0.01	10	< 10	3	< 10	26
AA4727	205 226	< 0.01	817	400	< 2	< 2	< 1	175	0.05	< 10	< 10	27	< 10	86
AA4728	205 226	< 0.01	854	240	< 2	< 2	< 1	291	0.01	< 10	< 10	9	< 10	40
AA4729	205 226	0.02	4450	1700	6	< 2	1	14	0.10	< 10	< 10	35	< 10	46
AA4730	205 226	< 0.01	1295	150	< 2	4	6	13	0.03	< 10	< 10	25	< 10	48
AA4731	205 226	0.03	433	540	2	4	2	7	0.16	< 10	< 10	26	< 10	18
AA4732	205 226	< 0.01	1770	210	< 2	< 2	3	67	0.32	< 10	< 10	115	< 10	62
AA4733	205 226	< 0.01	6270	350	< 2	< 2	6	103	0.67	< 10	< 10	519	< 10	90
AA4734	205 226	< 0.01	1440	110	10	< 2	6	8	0.04	< 10	< 10	26	< 10	66
AA4735	205 226	< 0.01	164	1230	< 2	< 2	3	332	0.34	< 10	< 10	43	< 10	136
AA4736	205 226	< 0.01	943	540	< 2	< 2	5	193	0.26	< 10	< 10	61	< 10	38
AA4737	205 226	0.05	75	2260	< 2	< 2	3	21	0.17	< 10	< 10	58	< 10	14
AA4738	205 226	0.04	180	940	6	< 2	5	18	0.25	< 10	< 10	70	< 10	36
AA4739	205 226	< 0.01	1075	210	6	2	1	34	0.11	< 10	< 10	40	< 10	50
AA4740	205 226	< 0.01	1250	220	10	< 2	5	11	0.04	< 10	< 10	39	< 10	126
AA4741	205 226	< 0.01	2870	1720	< 2	18	5	49	< 0.01	< 10	< 10	101	< 10	108
AA4742	205 226	< 0.01	1750	220	6	< 2	2	5	0.08	< 10	< 10	39	< 10	50
AA4743	205 226	0.01	46	930	12	< 2	3	10	0.42	< 10	< 10	120	< 10	16
AA4744	205 226	0.03	30	1370	< 2	< 2	1	12	0.37	< 10	< 10	131	< 10	10
AA4745	205 226	< 0.01	1300	120	< 2	< 2	5	16	0.09	< 10	< 10	35	< 10	64
AA4746	205 226	< 0.01	1265	200	4	< 2	5	6	0.08	< 10	< 10	73	< 10	90
AA4747	205 226	< 0.01	997	50	2	< 2	5	4	0.05	< 10	< 10	39	< 10	60
AA4748	205 226	0.01	60	750	< 2	< 2	1	77	0.49	< 10	< 10	62	< 10	22
AA4749	205 226	< 0.01	1835	70	2	< 2	5	4	0.03	< 10	< 10	24	< 10	48
AA4845	205 226	< 0.01	2980	140	< 2	2	1	3	0.06	< 10	< 10	49	< 10	58
AA4846	205 226	< 0.01	1900	120	10	8	6	3	0.03	< 10	< 10	23	< 10	52
AA4847	205 226	< 0.01	1395	230	8	2	4	10	0.10	< 10	< 10	34	< 10	56

CERTIFICATION:

*Hart Bichler*



**LITHOLOGIES**

- MIDDLE TRIASSIC**
- Maple Creek Gabbro
    - mIRmcg sills, stocks and small plugs of pyroxene-porphyritic gabbro
  - Quill Creek Ultramafic Complex
    - mIRp undifferentiated peridotite, dunite, pyroxenite
    - mIRg gabbro, olivine gabbro pods and segregations
- LOWER PERMIAN: SKOLAI GROUP**
- Hasen Creek Formation
    - Pph carbonaceous phyllite
    - Pi massive limestone
    - Pa quartzite
- PENNSYLVANIAN TO PERMIAN**
- Station Creek Formation
    - PPpt interbedded phyllite and andesitic tuff
    - PPv massive andesitic tuff

**SYMBOLS**

- bedding attitude
- outcrop mapped in 1998
- geological contact, defined, assumed
- gravity slide failure surface
- showing on adjacent Linda Property (see text for description)

**NORDAC RESOURCES LTD.**

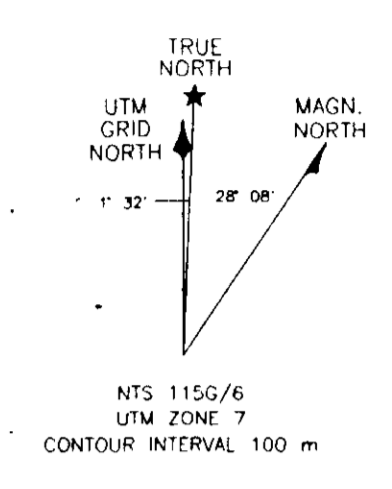
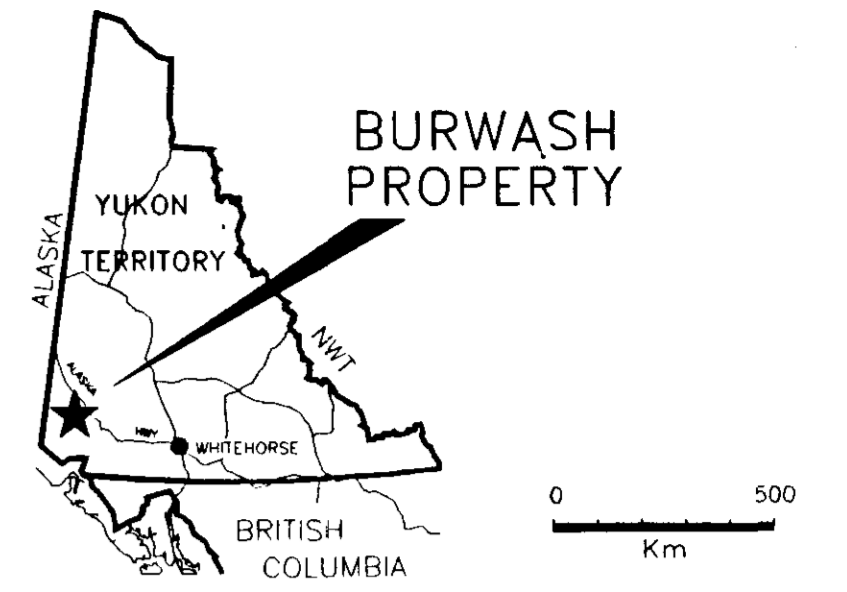
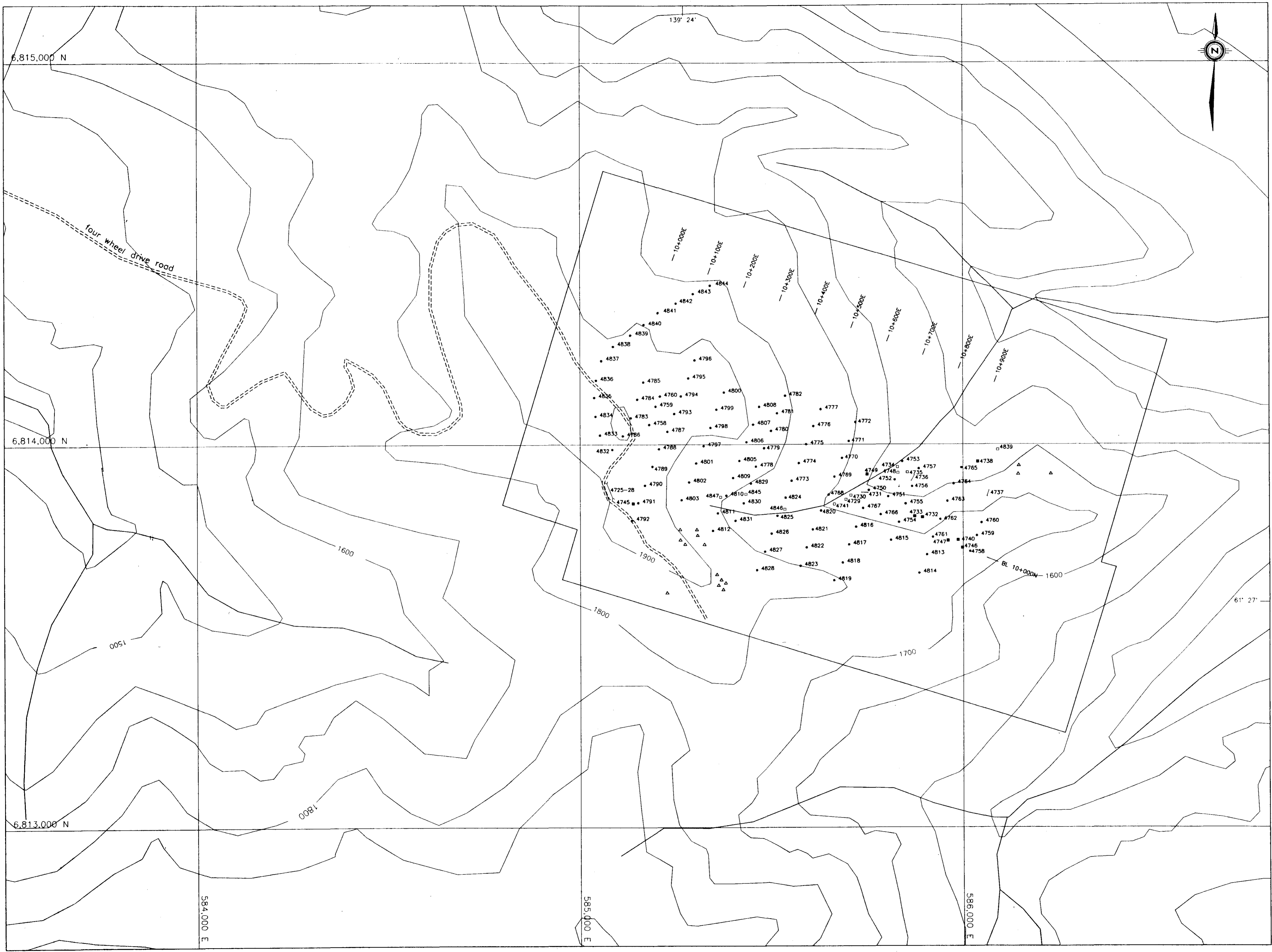
FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GEOLOGY**  
BURWASH PROPERTY

SCALE 1:5000



DRAWN/REVISED BY: GJD/AG PROJECT: FILE: AC\NORDAC\BURWASH\ACAD98\BWS-GEO.DWG DATE: FEBRUARY, 1999



**SYMBOLS**

- 1998 soil sample
- △ 4844 1988 rock sample (float)
- 1998 rock sample (float)
- 4741 1998 rock sample (outcrop)
- 4792 1998 chip sample (outcrop)/width (m)
- 4787

1269947

**NORDAC RESOURCES LTD.**

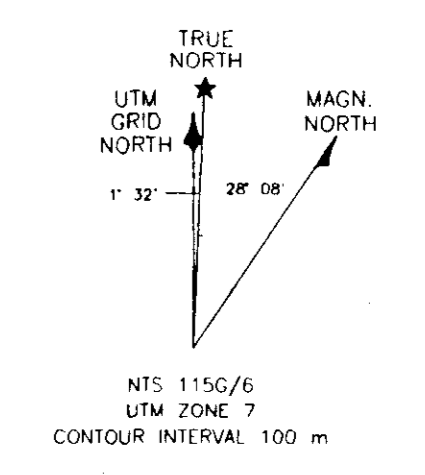
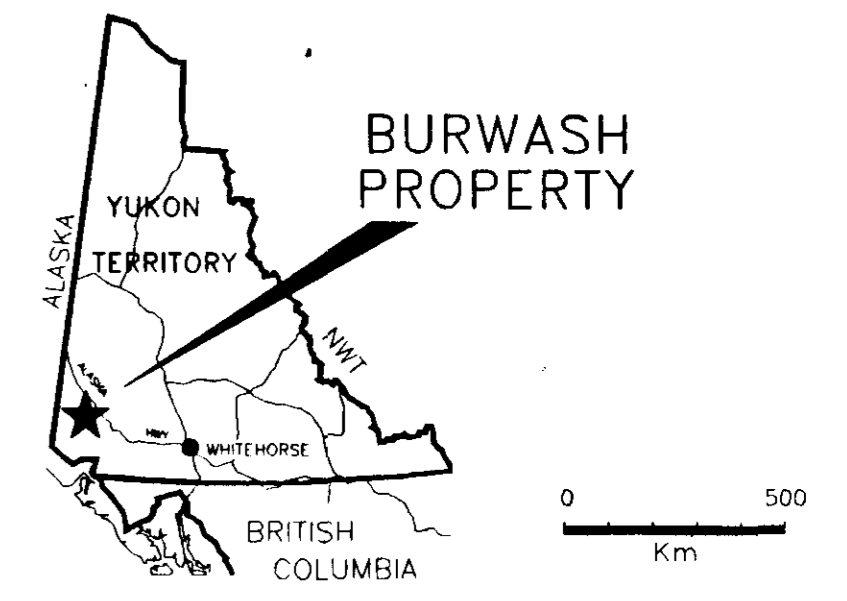
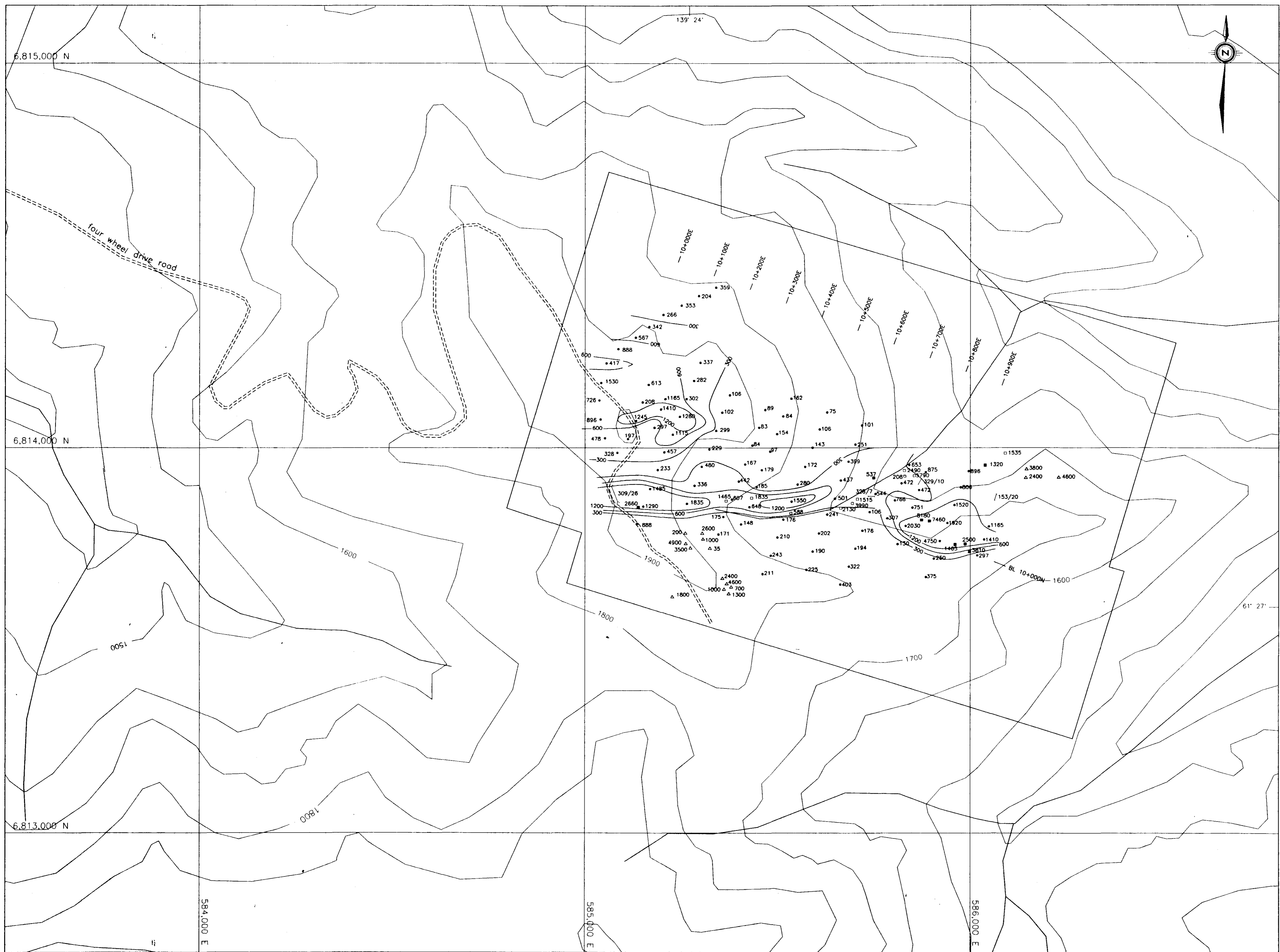
FIGURE 4  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**SAMPLE LOCATION**  
BURWASH PROPERTY

SCALE 1:5000

DRAWN/REVISED BY: RCC/AG	PROJECT:
FILE: AC\NORDAC\BURWASH\ACAD98\BW5-SL.DWG	DATE: FEBRUARY, 1999

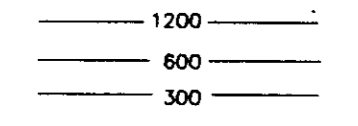
DIAND - YUKON REGION, LIBRARY



**SYMBOLS**

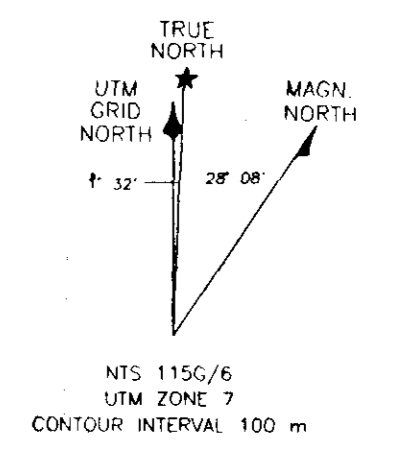
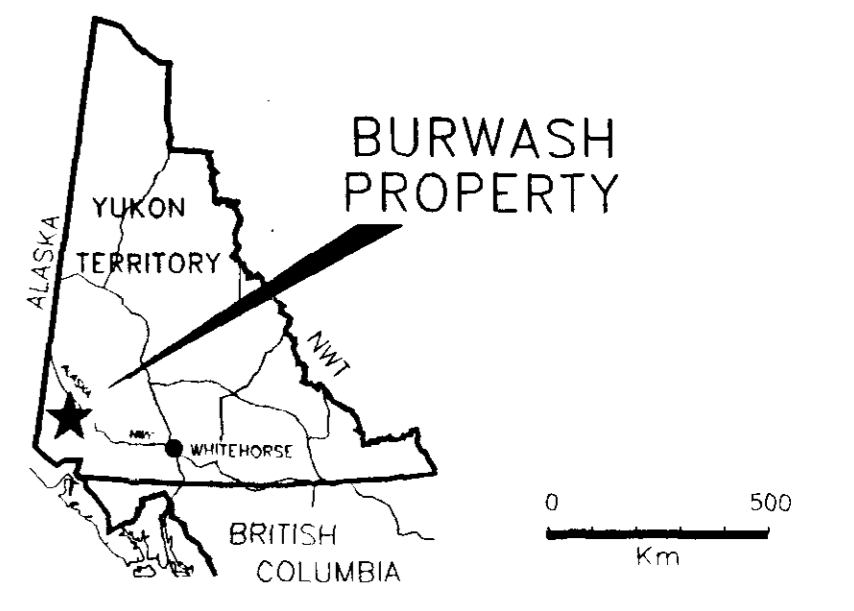
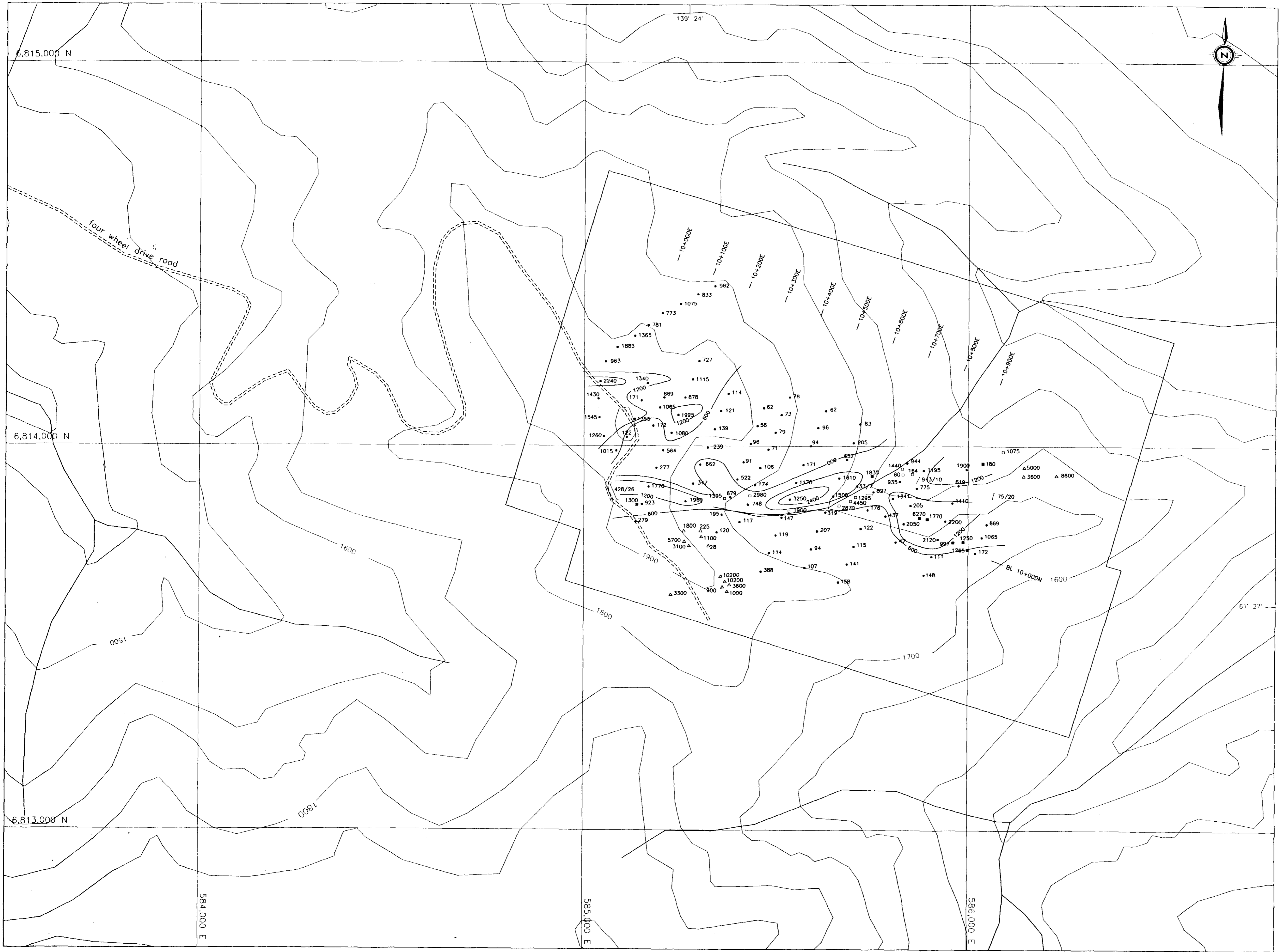
- 1998 soil sample
- △ 1988 rock sample (float)
- ◻ 1998 rock sample (float)
- 1998 rock sample (outcrop)
- > 1998 chip sample (outcrop)/width (m)

Soil geochemical contour intervals (copper values in ppm)

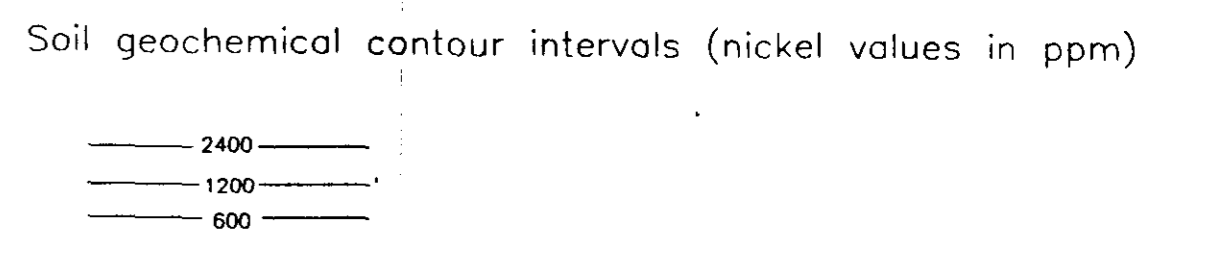


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<b>NORDAC RESOURCES LTD.</b>	
FIGURE 5 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>COPPER GEOCHEMISTRY</b>	
BURWASH PROPERTY	
SCALE 1:5000	
0 50 100 200 300 400 500 m	
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FILE: AC\NORDAC\BURWASH\ACAD98\BWS-SL.DWG	DATE: FEBRUARY, 1998



- SYMBOLS**
- 1998 soil sample
  - △ 1988 rock sample (float)
  - ◻ 1998 rock sample (float)
  - 1998 rock sample (outcrop)
  - 1998 chip sample (outcrop)/width (m)



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<b>NORDAC RESOURCES LTD.</b>	
FIGURE 6 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>NICKEL GEOCHEMISTRY</b>	
BURWASH PROPERTY	
SCALE 1:5000	
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FILE: AC\NORDAC\BURWASH\ACAD08\BWS-SL.DWG	DATE: FEBRUARY, 1999
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