1999 GEOLOGICAL and GEOCHEMICAL ASSESSMENT REPORT ON THE BEETHOVEN PROPERTY

Quartz Claims

Beethoven 001-096 YB99893-988

March 18, 2000

094099

Mayo Mining District
N.T.S. 105J/15

Latitude: 62°57' North
Longitude: 130°50' West

Owner: NovaGold Resources Inc.

Author: Carl M. Schulze

Date of work: July, 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 $ 9200.

M.B.

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

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

APPENDICES

SUMMARY

The Beethoven Property, consisting of the Beethoven 1-96 Claims, is located in Central Yukon on NTS Sheet 105 J/15. It was staked in 1997 by Viceroy Exploration (Canada), Inc. In 1999 Viceroy transferred its 100% interest in the property to NovaGold Resources Inc.

The Beethoven Property is located within the Selwyn Basin which consists of a broad package of Paleozoic sediments extending ESE from north-west of Dawson City to the Yukon-NWT border north of the major NW-SE trending Tintina Fault Zone. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North American Platform to the north-east. Age of deposition ranges from Late Precambrian to Permian. The Mid-Cretaceous Tombstone-Tungsten Intrusive Suite (95-89Ma) has been emplaced within the Selwyn Basin. Members of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City to the Yukon-NWT border. Tombstone Suite intrusives, predominantly monzonites and quartz monzonites, control much of the economic gold mineralization within the Selwyn Basin.

Extensive thrust faulting across the Selwyn Basin began during Late Jurassic time, resulting in creation of a compressional regime. Most thrust faults are oriented roughly ESE, and dip to the south-west, subparallel to the overall ESE trend of stratigraphy. This regional lineation has been overprinted by a slightly less pronounced NE-SW lineation, marked by high angle orthogonal faults suggesting the compressional regime was followed by an extensional tectonic regime. The Beethoven Property occurs towards the eastern limit of a broad deformation belt unofficially called the "Gold River Fold Belt" extending along the south side of the Hess River. Several WNW trending thrust faults, re-activated as strike-slip faults associated with fairly intense folding, extend across this belt. The property itself is underlain by several alternating chert and shale members of Road River Group sediments intruded by a Tombstone Suite biotite granite stock and associated dykes.

Exploration indicates that auriferous mineralization occurs within argillically altered marginal portions of the stock, as well as arsenopyrite veining up to 300 metres outbound in adjacent country rock. Soil sampling returned two strongly anomalous values to 570 ppb Au with 22.4 gpt Ag from a north-south lineament 100-200 metres south of the stock. This is associated with elevated gold values from 1998 silt sampling to 75 ppb Au, with 3.6 gpt Ag.

The 1999 exploration program focused on marginal regions within the central stock and adjacent Road River Group chert and shale. Weakly anomalous gold values to 30 ppb Au were returned from rock sampling of strongly altered quartz-biotite monzonite along the south flank of the stock. A chip sample of brecciated chert country rock returned 657 ppb Au/ 2.0 metres with anomalous silver, lead and antimony values. A coincident gold in soil and silt anomaly occurs roughly two kilometres east of the brecciated chert occurrence. Soil sampling returned values to 27 ppb Au, with weakly anomalous copper, zinc, and silver. A silt sample taken just downstream returned 227 ppb Au with comparable pathfinder values.

Anomalous geochemical values occur across three square kilometres. Minor unexplained gold anomalies from soil and silt sampling occur up to three kilometres east of the stock along the north flank of the ridge.

Gold and associated pathfinder element signatures, particularly copper and silver, suggest mineralization typical of mid-levels of intrusive emplacement, rather than upper level epithermal assemblages. Outlying soil anomalies may reflect outlying zones of more evolved epithermal mineralization.

Exploration expenditures for 1999 total $9,207.

The 2000 exploration program will consist of detailed surface exploration aimed at delineation of drill targets, if warranted, to delineate zones of economically viable mineralization. This program shall include detailed geological mapping, prospecting and systematic B-horizon soil sampling along the south flank of the central ridge centered at the quartz biotite stock. The weak soil anomaly associated with the silt sample returning 227 ppb Au will be the focus of a similar detailed surface exploration program.

CHAPTER 1: INTRODUCTION

1.1 Introductory Statement

The Beethoven Property consists of 96 contiguous quartz mining claims (Beethoven 1-96 Claims) covering a 21 square kilometre area measuring seven by three kilometres within NTS Sheet 105 J/15,in the Mayo Mining District (Figure 2).

The 1999 exploration program involved geological mapping and rock, soil and silt sampling.

1.2 Location and Access

The Beethoven Property is located 130 kilometres north-east of Ross River, Yukon, and 15 kilometres northwest of the Canol Road. It is centered at 62 ° 57' North latitude, 130 ° 50' West longitude on NTS Map Sheet 105 J/15. (Figure 1). Access is by helicopter from the North Canol Road.

1.3 Physiography and Vegetation

The property extends along an ESE trending ridge attaining 5,600feet of elevation. Topography is fairly rugged, with small areas of high elevation inaccessible to exploration. Typical northern boreal spruce forest covers lower elevations, grading to subalpine fir forests towards the tree line. Higher elevations are covered by typical tundra vegetation, with steep north facing zones barren of vegetation.

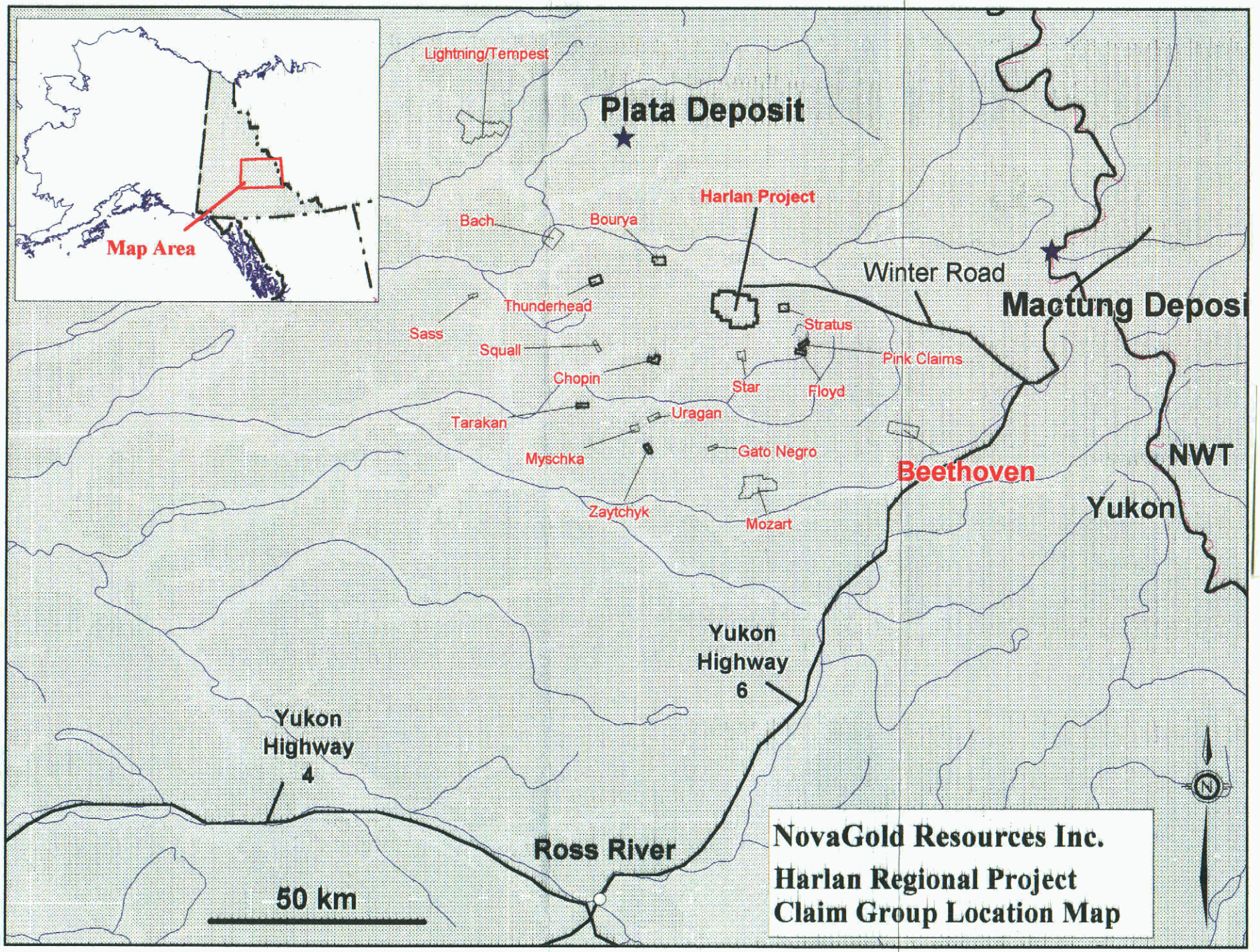
1.4 Regional Exploration History and Competitor Activity

Limited exploration has occurred in the immediate Beethoven Property vicinity. The JET Claims held by the Archer-Cathro Group located roughly thirty kilometres north-west overlie barite occurrences within Earn Group sediments. Several claim blocks overlie Tombstone Suite stocks and associated gold mineralization and gold in silt anomalies. These include the YZ, NID, EM and CYP Claims, held by Alliance Pacific Gold Ltd., which added the WEAS Claims to the CYP Claims in 1997; and the NUG Claims held by Mr. B. Kreft. The PLATA lead-zinc-silver prospect is located roughly eighty kilometres to the north-west. The TOM and JASON lead-zinc-silver Sedex style deposits, held by Cominco, occur roughly forty kilometres to the north-east. The BRICK-NEVE Claims, held by Cameco, located roughly thirty kilometres to the north, overlie sediment and dyke hosted gold mineralization.

1.5 Property Exploration History

The present Beethoven Property was visited in 1996 by Hemlo Gold Mines Inc., which obtained favorable gold results from rock and soil sampling. The Beethoven 1-96 claims were staked in 1997 by Viceroy Exploration (Canada) Inc. (Viceroy) to cover anomalous gold values returned from soil and rock sampling in Road River Group sediments near a biotite granite stock. The original target was selected due to a combination of coincident gold-arsenic-mercury-antimony anomalies from RGS silt sampling, favorable Road River stratigraphy and proximity to a Tombstone Suite pluton. The 1998 exploration program returned favorable results across the southern flank of the stock.

In 1999 Viceroy transferred its 100% interest in the property to NovaGold Resources Inc. which subsequently performed further geological mapping and rock, soil and silt sampling.


Map Area
Lightning/Tempest
Plata Deposit
Harlan Project
Bach
Bourya
Winter Road
Mactung Deposi
Thunderhead
Sass
Squall
Stratus
Pink Claims
Chopin
Star
Floyd
Tarakan
Uragan
Myschka
Gato Negro
Beethoven
NWT
Yukon
Zaytchyk
Mozart
Yukon
Highway
6
Yukon
Highway
4
Ross River
50 km
N
NovaGold Resources Inc.
Harlan Regional Project
Claim Group Location Map

094099

63°00'

131°00'

BEETHOVEN

BEETHOVEN

BEETHOVEN

BEETHOVEN

BEETHOVEN

BEETHOVEN

BEETHOVEN

Scale	1 inch = 0.5 mile or 1:31,680
Date:	03/20/00
NTS:	105J/15

NOVAGOLD RESOURCES INC.

BEETHOVEN PROPERTY
CLAIM MAP

Fig. 2

Table 1 below lists detailed claim status, including assessment status and expiry dates following the 1998 filing.

Table 1. Status of Beethoven Project claims after 1999 filing

Claim Name	*Grant No.*	*Owner*	*New expiry date*	*Work completed By*
Beethoven 001-022 Beethoven 023 Beethoven 025-052 Beethoven 054 Beethoven 056-096	YB99893-99913 YB99915 YB99917-99944 YB99946 YB99948-88	NovaGold Resources Inc.	October 27, 2000	NovaGold
Beethoven 022 Beethoven 024 Beethoven 053 Beethoven 054	YB99914 YB99916 YB99945 YB99947	NovaGold Resources Inc.	October 27, 2000	Viceroy

1.6 Work Program

Several reconnaissance traverses involving systematic soil sampling, silt and rock sampling and geological mapping were conducted across central and eastern portions of the Beethoven Property in 1999. A total of 38 rock, 93 soil and 5 silt samples were obtained.

1.6.1 Sample Preparation and Assay Procedure

Samples taken in 1999 were sent to NAL Laboratories of Whitehorse for gold fire assay analysis, then sent to IPL Laboratories in Vancouver for 30-element ICP analysis. At NAL, samples were pulverized to –100 mesh, then subject to 30 gram fire assay analysis with AA (atomic absorption) finish.

All rock, soil and silt sampling was quantifiably recorded in the field to ensure a high degree of quality control, and entered into standardized spreadsheet programs. Criteria for each sample included: sample type, width of chip sampling, lithology, alteration and mineralization, and "UTM" location. All sample locations have been tied into UTM co-ordinates and have been plotted. A sample database in Microsoft Excel format is included and can be interfaced with Autocad Map or MapInfo software programs.

1.6.2 Personnel

All applicable assessment work was done by Carl Schulze, Project Manager; Serguei Soloviev, Geologist; and Stephen Erdman, Field Technician.

Fireweed Helicopters of Dawson City, Yukon provided helicopter services.

CHAPTER 2: GEOLOGY

2.1 Regional Geology

The Beethoven Property is located within the Selwyn Basin which consists of a broad package of Paleozoic sediments extending ESE from north-west of Dawson City to the Yukon-NWT border north of the major NW-SE trending Tintina Fault Zone. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North American Platform to the north-east. Age of deposition ranges from Late Precambrian to Permian. At least two major episodes of rifting have occurred: the first during deposition of the Late Precambrian Hyland Group sediments, and the second during deposition of the Devono-Mississippian Earn Group sediments (Table 2, Figure 3). These major rift zones often host poorly sorted coarse clastic sediments, such as debris flows or turbidite horizons. Several episodes of continental uplift have led to periods of increased erosion and resulting continental margin or miogeosynclinal deposition, resulting in the creation of sequences of comparatively high energy, shallow water sediments, often coarsely grained and variably calcareous. These are separated by strata formed under deeper, quieter water conditions, resulting in formation of fine clastic sediments and chert. The Mid-Cretaceous Tombstone-Tungsten Intrusive Suite (95-89Ma) consisting primarily of monzonitic to quartz-monzonitic intrusive structures, has been emplaced within the Selwyn Basin. Members of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City to the Yukon-NWT border. Tombstone Suite intrusives are believed to control much of the economic gold mineralization within the Selwyn Basin.

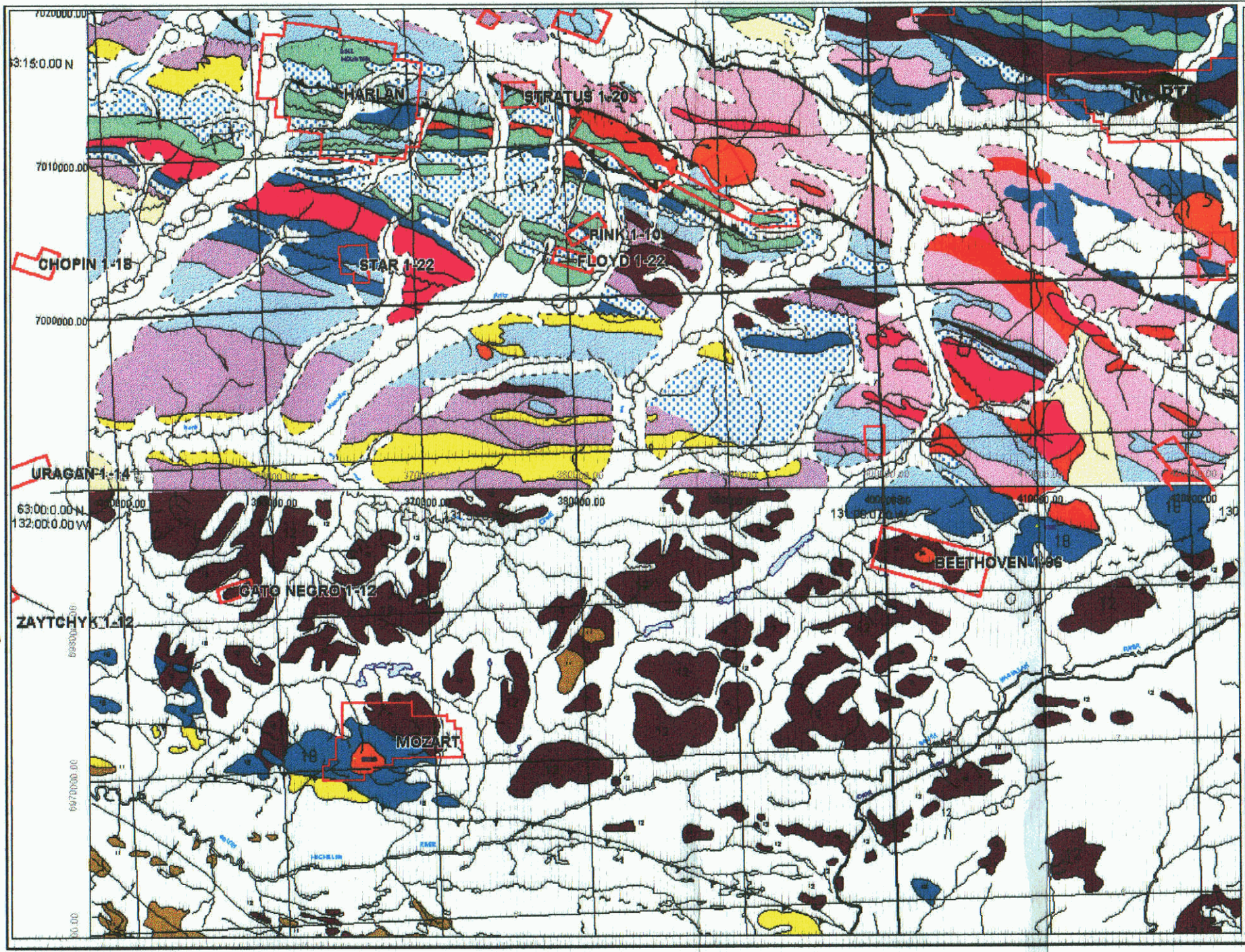
Extensive thrust faulting along the entire extent of the Selwyn Basin began during Late Jurassic time, resulting in creation of a compressional regime. Most thrust faults are oriented roughly ESE, and dip to the south-west, subparallel to the overall ESE trend of stratigraphy. Several major regional thrust faults were formed including the Dawson Thrust, Tombstone Thrust, and Robert Service Thrust. This regional lineation has been overprinted by a slightly less pronounced NE-SW lineation, marked by high angle orthogonal faults suggesting the compressional regime was followed by an extensional tectonic regime.

The Beethoven Property occurs towards the eastern limit of a broad deformation belt unofficially called the "Gold River Fold Belt" extending along the south side of the Hess River. Several WNW trending thrust faults, re-activated as strike-slip faults associated with fairly intense folding, extend across this belt. Tombstone Suite intrusives occur within the belt, particularly along the north and south flanks, and are common in the Beethoven Property area.

2.2 Property Geology

Several members of Road River Group sediments (Figure 4) underlie the entire property. The west-central area, the focus of most exploration to date, is underlain by a south-east trending package of chert and shale. This lies in contact with a package of shale and minor chert to the west, and siltstone to the east; another chert and shale member underlies extreme eastern areas. Contacts are interpreted as extending SSE. A Tombstone Suite quartz biotite monzonite stock and associated dykes and apophyses have intruded the central chert and shale package, and a smaller stock occurs within siltstone to the east. Marginal areas of the main stock have undergone moderate to strong argillic alteration, particularly along the south flank of the central ridge, where advanced argillic alteration and strongly limonitic zones occur. Propyllitic alteration and hornfelsing, resulting in limonitic staining, has occurred in sediments near the stock.

Stream drainages suggest a north-south trending lineation, as well as a NE-SW trending lineation within eastern areas. A north-south trending fault occurs just south of the stock. A NNE trending fault extends across west-central areas and a north-west trending fault just south of this has been inferred. Bedding trends ESE, dipping steeply to the south, roughly parallel to subvertical foliation trends.



GEOLOGICAL LEGEND

MESOZOIC

Cretaceous

24 Granite, quartz monzonite, syenite

Triassic

JONES LAKE FORMATION: calcareous sandstone, siltstone, shale,slate, minor limestone

PALEOZOIC

Permian

MOUNT CHRISTIE FORMATION: Argillite siltstone, sandstone and dolostone

Carboniferous to Permian

23 Thin bedded limestone, black shale, chert chert pebble conglomerate

Mississippian

19 Keno Hill quartzite: Massive quartzite, slate phyllite, argillaceous quartzite.

Devonian to Mississippian

18 EARN GROUP, Prevost Formation: slate phyllite, calcareous siltstone, sandstone

17 Prevost Formation chert pebble conglomerate interbedded graywacke, slate

EARN GROUP, Portrait Lake Formation: siltstone, shale and chert.

16 Felsic metavolcanics, quartz porphyry

Ordovician to Early Devonian

ROAD RIVER GROUP, Steel Formation: dolomitic mudstone to siltstone

ROAD RIVER GROUP; Duo Formation: chert, and black shale

RABBITKETTLE FORMATION

Basalt, tuff, tuff breccia

11 Limestone and dolomite

Early to Mid-Cambrian

GULL LAKE FORMATION: siliceous siltstone

SEKWI FORMATION: Limestone, silty limestone, siltstone and black shale

PROTEROZOIC

Late Hadrynian to Early Cambrian

HYLAND GROUP, Narchilla Formation: Argillite, shale, limestone, chert pebble cong grit

Late Hadrynian

YUSEZYU FORMATION: limestone, quartzite, calcareous quartzite

YUSEZYU FORMATION: Argillite, quartzite, calcareous quartzite, argillaceous limestone

0 5 10

Kilometres

NOVAGOLD RESOURCES INC.

BEETHOVEN PROPERTY

REGIONAL GEOLOGY AND CLAIMS

	DATE: Mar. 00	NTS:	105J/15
	SCALE:	FIGURE NO.	

094099

TABLE 2: STRATIGRAPHIC COLUMN, BEETHOVEN PROPERTY

Age	Group	Formation (Lithology)	Geology Map Designation	Rock Code	Description
Mid-Late Cretaceous (95-89 Ma)	Tombstone-Tungsten Plutonic Suite	Diorite through Granite (Most commonly Quartz Monzonite), minor Syenite	Kg, Kqm, Ks	QBM	Felsic to intermediate dioritic to granitic intrusives, most commonly monzonitic, quartz monzonitic to quartz dioritic, Commonly feldspar to quartz-feldspar porphyritic within upper emplacement levels and dykes. Quartz biotite monzonite within central stock on property
Devonian - Mississippian	Earn Group	**Prevost Formation**	DMp (Dme)	CPC, GW	Grey chert-pebble-conglomerate to greywacke, locally fairly large clasts.
Devonian - Mississippian	Earn Group	**Portrait Lake Formation**	Dme	SH, CH	Black shale, minor chert.
Ordovician - Early Devonian	Road River Group	**Steel Formation**	SS (OSDr)		Siltstone to mudstone, commonly weakly to moderately calcareous, lesser sandstone to calcareous sandstone, all members commonly limonitic; minor limestone
Ordovician - Early Devonian	Road River Group	**Duo Lake Formation**	OSDr	CH	Thin bedded light grey chert, minor shale horizons. Weakly to moderately limonitic near intrusive contacts; local weak argillic alteration, silicification.
Ordovician - Early Devonian	Road River Group	**Duo Lake Formation**	OSDr	SH	Grey shale to siltstone, minor chert horizons.

CHAPTER 3: MINERALIZATION

3.1 Property Mineralization

Exploration to date indicates most auriferous mineralization occurs within argillically altered marginal portions of the stock, and adjacent chert and shale country rock, with minor gold bearing arsenopyrite veins and vein breccias occurring up to 300 metres from the stock. Grab sampling of widespread narrow quartz-arsenopyrite veins and vein breccias 100 - 300 metres north-west of the stock returned values to 6.8 gpt Au. Exploration in 1998 revealed fairly abundant intrusive hosted arsenical mineralization, together with moderate argillic and phyllic alteration, along western margins of the stock. A value of 890 ppb Au, 116 gpt Ag, and 1.29% Cu was returned from strongly arsenical talus material along the western margin.

Soil sampling in 1998 returned two strongly anomalous values, including 570 ppb Au with 22.4 gpt Ag from the north-south lineament 100 - 200 metres south of the stock. This is associated with several elevated gold values from silt sampling to 75 ppb Au, with 3.6 gpt Ag, 16 ppm Bi, and 30 ppm Sb. This suggests a partial structural control to mineralization. Contour soil sampling in 1998 returned a value of 30 ppb Au/ 600 metres, extending west from the lineament. This extends across a separate interval returning 42 ppb Au/ 150 metres (50 metre sample spacing). Weak gold in soil anomalies were also delineated across other parts of the stock, and small dykes and apophyses to the west.

The 1999 exploration program focused on marginal regions within the central stock and adjacent Road River Group chert and shale. Sampling in 1999 of strongly argillically altered quartz-biotite monzonite within the south flank of the stock returned weakly anomalous gold values to 30 ppb Au, with pathfinder values to 6.6 gpt Ag, 0.14% Pb, 518 ppm Zn, 0.24% As, and 79 ppm Sb. A chip sample of pervasively fractured chert country rock returned 657 ppb Au/ 2.0 metres with 1.5 gpt Ag, 278 ppm Pb, and 8 ppm Sb.

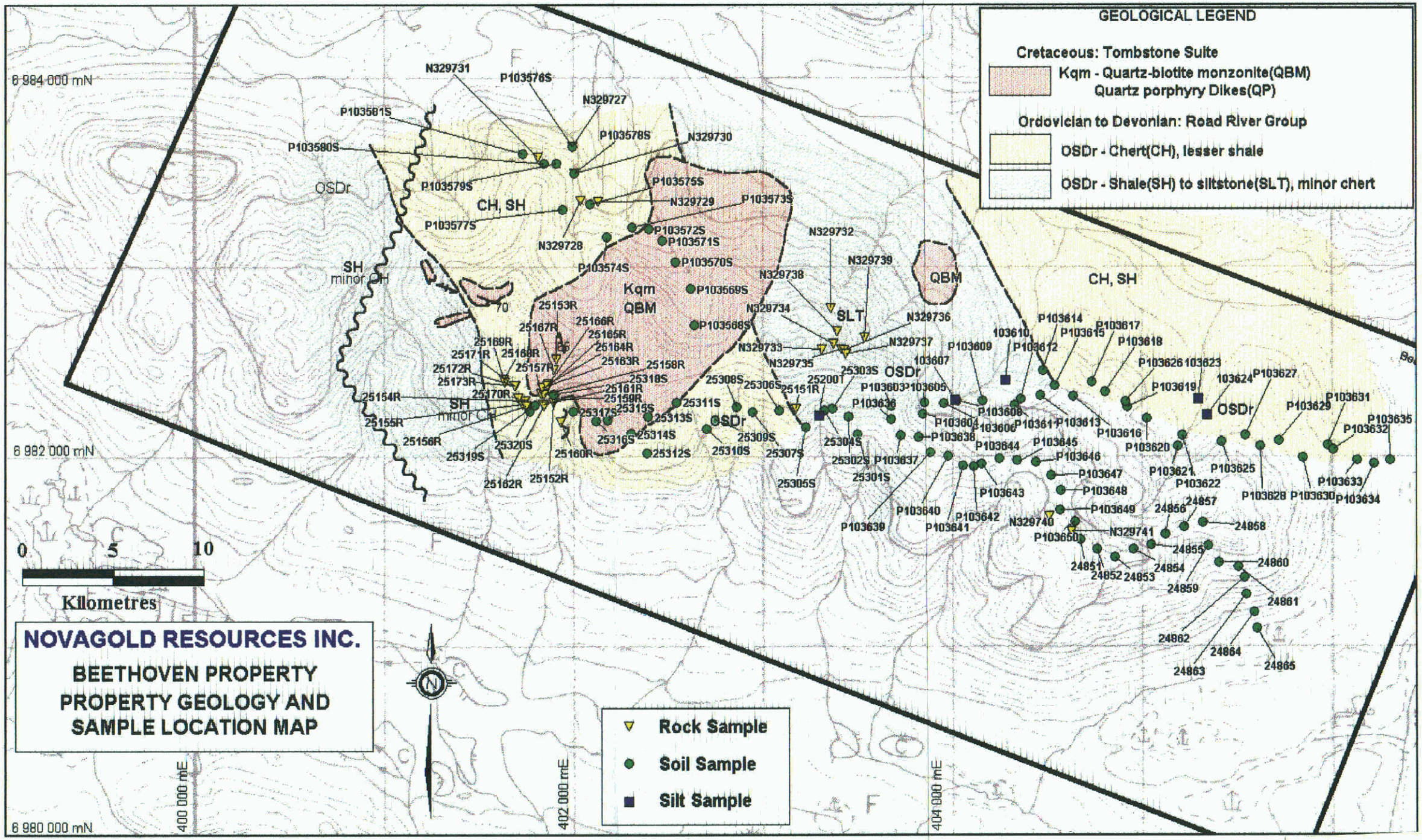
An occurrence of abundant arsenical fractured to brecciated chert in rubblecrop was located 200 metres to the northwest. Composite grab sampling returned gold values to 570 ppb Au, with consistently strongly anomalous silver values to 128.7 gpt Ag, and pathfinder values to 557 ppm Cu, 1.71% Pb, 524 ppm Zn, 4.03% As, 0.26% Sb and 82 ppm Bi. This is coincident with a soil anomaly delineated in 1999 returning 45 ppb Au/ 600 metres just downhill of the occurrence, and with much higher values to 570 ppb Au obtained nearby in 1997. The surface extent of this anomaly has not been determined. Eastern portions of this soil anomaly, with values to 61 ppb Au, have also not been explained.

A value of 43 ppb Au/ 800 metres was returned from soil sampling along the north ridge flank extending across the intrusive stock - chert country rock contact. Values obtained from soil sampling across the stock returned slightly higher lead, bismuth and antimony values than sediment-associated samples; all samples returned weakly anomalous copper and arsenic values to 245 ppm Cu and 977 ppm As respectively.

A coincident gold in soil and silt anomaly occurs roughly two kilometres east of the brecciated chert occurrence. Soil sampling returned values to 27 ppb Au, with up to 1.5 ppb Ag, 135 ppm Cu and 613 ppm Zn. A silt sample taken just downstream returned 227 ppb Au with comparable pathfinder values. This anomaly has not been explained by rock sampling.

Anomalous geochemical values occur across three square kilometres. Minor unexplained gold anomalies from soil and silt sampling occur up to three kilometres east of the stock along the north flank of the ridge.

Gold and associated pathfinder element signatures, particularly copper and silver, suggest mineralization typical of mid-levels of intrusive emplacement, rather than upper level epithermal assemblages. Outlying soil anomalies, including the occurrence returning 42 ppb Au/ 150 metres, may reflect outlying zones of more evolved epithermal mineralization. Much of the eastern extension of the north flank of the ridge, as well as a southward extension of the lineament south of the stock, remains untested.


GEOLOGICAL LEGEND
Cretaceous: Tombstone Suite
Kqm - Quartz-biotite monzonite(QBM)
Quartz porphyry Dikes(QP)
Ordovician to Devonian: Road River Group
OSDr - Chert(CH), lesser shale
OSDr - Shale(SH) to siltstone(SLT), minor chert
6 984 000 mN
6 982 000 mN
6 980 000 mN
400 000 mE
402 000 mE
404 000 mE
0
5
10
Kilometres
NOVAGOLD RESOURCES INC.
BEETHOVEN PROPERTY
PROPERTY GEOLOGY AND
SAMPLE LOCATION MAP
Rock Sample
Soil Sample
Silt Sample
OSDr
CH, SH
SH
minor CH
Kqm
QBM
SLT

094099

CHAPTER 4: CONCLUSIONS

The Beethoven Property is located within the Selwyn Basin which consists of a broad package of Paleozoic sediments extending ESE from north-west of Dawson City to the Yukon-NWT border north of the major NW-SE trending Tintina Fault Zone. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North American Platform to the north-east. Age of deposition ranges from Late Precambrian to Permian. Several episodes of continental uplift have led to periods of increased erosion and resulting continental margin or miogeosynclinal deposition, resulting in the creation of sequences of comparatively high energy, shallow water sediments, often coarsely grained and variably calcareous. These are separated by strata formed under deeper, quieter water conditions, resulting in formation of fine clastic sediments and chert. The Mid-Cretaceous Tombstone-Tungsten Intrusive Suite (95-89Ma), consisting primarily of monzonitic to quartz monzonitic intrusive structures, has been emplaced within the Selwyn Basin. Members of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City to the Yukon-NWT border. Tombstone Suite intrusives are believed to control much of the economic gold mineralization within the Selwyn Basin.

Extensive thrust faulting along the entire extent of the Selwyn Basin began during Late Jurassic time, resulting in creation of a compressional regime. Most thrust faults are oriented roughly ESE, and dip to the south-west, subparallel to the overall ESE trend of stratigraphy. This regional lineation has been overprinted by a slightly less pronounced NE-SW lineation, marked by high angle orthogonal faults suggesting the compressional regime was followed by an extensional tectonic regime.

The Beethoven Property occurs towards the eastern limit of a broad deformation belt unofficially called the "Gold River Fold Belt" extending along the south side of the Hess River. Several WNW trending thrust faults, re-activated as strike-slip faults associated with fairly intense folding, extend across this belt. The property itself is underlain by several alternating chert and shale members of Road River Group sediments intruded by a biotite granite stock with associated dykes.

Exploration indicates that auriferous mineralization occurs within argillically altered marginal portions of the stock, as well as arsenopyrite veining up to 300 metres outbound in adjacent country rock. Soil sampling returned two strongly anomalous values to 570 ppb Au with 22.4 gpt Ag from a north-south lineament 100-200 metres south of the stock. This is associated with elevated gold values from 1998 silt sampling to 75 ppb Au, with 3.6 gpt Ag.

The 1999 exploration program focused on marginal regions within the central stock and adjacent Road River Group chert and shale. Weakly anomalous gold values to 30 ppb Au were returned from rock sampling of strongly altered quartz-biotite monzonite along the south flank of the stock. A chip sample of pervasively fractured chert country rock returned 657 ppb Au/ 2.0 metres with anomalous silver, lead and antimony values. A value of 43 ppb Au/ 800 metres was returned from soil sampling along the north ridge flank extending across the intrusive stock - chert country rock contact.

A coincident gold in soil and silt anomaly occurs roughly two kilometres east of the brecciated chert occurrence. Soil sampling returned values to 27 ppb Au, with weakly anomalous copper, zinc, and silver values. A silt sample taken just downstream returned 227 ppb Au with comparable pathfinder values. This anomaly has not been explained by rock sampling.

Anomalous geochemical values occur across three square kilometres. Minor unexplained gold anomalies from soil and silt sampling occur up to three kilometres east of the stock along the north flank of the ridge.

Gold and associated pathfinder element signatures, particularly copper and silver, suggest mineralization typical of mid-levels of intrusive emplacement, rather than upper level epithermal assemblages. Outlying soil anomalies may reflect outlying zones of more evolved epithermal mineralization.

CHAPTER 5: RECOMMENDATIONS

The 2000 exploration program will consist of detailed surface exploration aimed at delineation of drill targets, if warranted. This program shall include detailed geological mapping, prospecting and systematic B-horizon soil sampling along the south flank of the quartz biotite stock. The south extension of the lineament, and the chert-hosted gold-arsenic-lead anomaly to the west will be the particular focus of detailed exploration to determine extent and setting of mineralization. The weak soil anomaly associated with the silt sample returning 227 ppb Au will be the focus of a similar detailed surface exploration program. Other targets will include the gold-in-soil anomalies west of the lineament. Grid control may be warranted following return of favorable results.

Several contour soil profile traverses combined with geological mapping and rock chip sampling are recommended for eastern areas, particularly along the north flank of the ridge. Detailed surface exploration shall occur upstream of drainages returning anomalous gold values.

This program is designed to delineate zones of economically viable mineralization. Systematic chip and channel sampling will be employed to ensure sample quality control, and to determine presence of mineralization across mineable width. If the property is deemed unlikely to host favourable settings for economically viable mineralization, further exploration will be discontinued.

BIBLIOGRAPHY

Department of Indian and Northern Affairs, 1995: Yukon Minfile, Frances Lake Area (Sheet 105O); Exploration and Geological Services, Whitehorse.

Diment, R, 1997; Brewery Creek Report, 1996: Exploration Progress Report, In-house report, Viceroy International Exploration, Inc.

Gordey, S.P. and Anderson, R.G., 1996: Evolution of the Northern Cordilleran Miogeosyncline, Nahanni Map Area (105I), Yukon and Northwest Territories; Geological Survey of Canada, Memoir 428.

Poulson, K.H., 1996: Carlin Type Gold Deposits: Canadian Potential?, in New Deposit Models of the Cordillera, Northwest Mining Association short course.

Roots, C.F. Abbott, J.G. Cecile, M.P. Gordey, S.P. 1995: Bedrock Geology of Lansing Range Map Area (105N), East Half, Hess Mountains, Yukon; Exploration and Geological Services, Yukon Region, and Indian and Northern Affairs Canada.

Schulze, C, 1997: Yukon Regional Project, 1997 Progress Report; In-house Report, Viceroy Exploration (Canada), Inc.

Schulze, C. 1999: 1998 Geological and Geochemical Progress Report on the Beethoven Property; In-house report, Viceroy Exploration (Canada) Inc.

STATEMENT OF QUALIFICATIONS

I, Carl Schulze, of the City of Whitehorse, Yukon Territory, Canada, do hereby certify that:

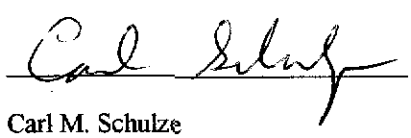
1) I held the position of Project manager with NovaGold Resources Inc. during the exploration program described in this report, and currently act as agent for NovaGold Resources Inc through Wolf Star Resources.

2) I graduated from Lakehead University with a Bachelor of Science Degree in Geology in 1984.

3) I have been continually active in mineral exploration since 1984.

4) I supervised the exploration program and performed part of the work described in this report.

5) I am the immediate past president of the Yukon Chamber of Mines and a member of the Yukon Prospectors' Association.



Carl M. Schulze
Consulting Geologist
Wolf Star Resources

APPENDIX 1

APPLICABLE EXPENDITURES FOR ASSESSMENT CREDITS

Beethoven Property Expenditures	
Description	**Expenditure**
Labor	$ 2,400
Helicopter support (up to 25%)	1,841
Geochemical Analyses	2,486
Pre-project compilation, preparation	880
Compilation, Report Writing	1,600
Total	**$9,207**

APPENDIX 2: ROCK SAMPLE GEOCHEMICAL RESULTS

2a) ROCK SAMPLE DESCRIPTION SHEET

Sample No.	Traverse	Easting	Northing	Zone	Sample Type	Width (m)	Sample Descr.	Perm.	Lithology	Modifier	Colour	Carb. Presence	Silicification	Argillic Alt.	Potassic Alt.	Phyllic Alt.	Idmonite	Mineral #1	Amount %	Mineral #2	Amt %	Other Mineral	Amt %	Date	Sampler	Comments
25151R	99BT2	401971	6982255	9	CG		Ta	OSDr	CH	Fractured	buff		S3	A1			wk	Py	2					30/7/99	C.S.	Frac. resilicified sh; Py sl. fractures
25152R	99BT2	401892	6982288	9	CG		Ta	Kqm	QPM	Fractured	lgrn		S1	A1				scor	tr					30/7/99	C.S.	Select composite grab
25153R	99BT2	401908	6982518	9	C	2	Qe	OSDr	CH	brecciated	tan		S2	A2			mod	Py	tr					30/7/99	C.S.	Variable argillic, limonitic alt.
25154R	99BT2	401741	6982298	9	C	1.3	Qe	OSDr	CH	stwk	lt. gy		S3	A1			wk	Py	tr	scor	tr			31/7/99	C.S.	Mod. frac. econ lim after sulphides
25155R	99BT2	401729	6982277	9	C	1.2	Qe	OSDr	CH	stwk	lt. gy		S2	A1			wk	Py	<1	scor	<1			31/7/99	C.S.	Py, scor sl. fract, poss v. fine diss Py
25156R	99BT2	401748	6982269	9	CG		Ta	OSDr	CH	stwk	lt. gy		S3	A1		Ph1	wk	scor	<1					31/7/99	C.S.	Scor(?) in vugs, along fractures
25157R	99BT2	401825	6982335	9	CG		Ta	Kqm	QPM	Fractured	tan		S1	A1		Ph2	wk	Cpy	tr	Py	tr			31/7/99	C.S.	Mod. lim after Py in boxwork
25158R	99BT2	401841	6982332	9	C	2	Qe	OSDr	CH	brecciated	tan		S2	A1			mod							31/7/99	C.S.	Mod, variable lim. after sulphides
25159R	99BT2	401898	6982309	9	CG		Ta	Kqm	QBM	Fractured	tan			A1		Ph2	str	Py	<1					31/7/99	C.S.	lim. after sulphides; 40% vns
25160R	99BT2	401928	6982183	9	CG		Ta	Kqm	QBM	Fractured	tan			A3		Ph2	str	Py	<1					31/7/99	C.S.	Sel. c-gr; Vned and dissem. Py
25161R	99BT2	401835	6982278	9	C	2	Qe	OSDr	CH	Fractured	tan		S1	A1			mod							31/7/99	C.S.	Local brecc. areas + Qz veins
25163R	99BT2	401841	6982271	9		2	Qe	OSDr	CH	Fractured	buff		S2	A2			wk							31/7/99	C.S.	Local brecc. areas + Qz veins, "shattered"
25162R	99BT2	401831	6982369	9	CG		Ta	Kqm	QBM	stwk	buff			A2		Ph1	mod	Py	7					31/7/99	C.S.	Dissem + stwk cons. sulphides
25164R	99BT2	401866	6982384	9	C	2	Qe	Kqm	QBM	gouge	tan		S1	A3		Ph2	str							31/7/99	C.S.	Well dev. foliation @ 220 - 80
25165R	99BT2	401862	6982377	9	C	1	Qe	Kqm	QBM	gouge	tan		S1	A3		Ph2	str	Mn	5					31/7/99	C.S.	Adj. to S of 25164R
25166R	99BT2	401858	6982375	9	C	1.2	Qe	Kqm	QBM	foliated	brn			A2		Ph3	str	Mn	<1					31/7/99	C.S.	Strong lim. after Py, Po
25167R	99BT2	401893	6982461	9	C	2	Qe	Kqm	QBM	gouge	brn		S2	A1		Ph2	str	Py	2					31/7/99	C.S.	Gouge, sil, calc. sil sections
25168R	99BT2	401631	6982410	9	CG		Ta	Kqm	FPM	med. gr	red			A1		Ph3	wk	Hem	20	Py	2			31/7/99	C.S.	Hem. after fspar; Py from phyllic alt
25169R	99BT2	401637	6982395	9	CG		Ta	OSDr	CH	Vned	grn		S1				wk	As	7	scor	15			31/7/99	C.S.	As, scor. veining in chert; sparse float
25170R	99BT2	401706	6982310	9	C	1.3	Qe	Kqm	QBM	Fractured	tan		S2			Ph1	wk	As	5	Py	tr			31/7/99	C.S.	As veins, stringers in chert
25171R	99BT2	401686	6982376	9	CG		Ta	OSDr	CH	brecciated	grn		S1	A1				As	5					31/7/99	C.S.	Fairly abnt Sh; As stringers
25172R	99BT2	401689	6982378	9	CG		Re	OSDr	CH	brecciated	yel		S2	A2			wk	As	4	scor	8			31/7/99	C.S.	Brecc, partial As infilling
25173R	99BT2	401686	6982379	9	CG		Re	OSDr	CH	brecciated	grn		S2	A1				As	6	scor	12			31/7/99	C.S.	Brecc, partial As infilling
N329727	99BT1	401993	6983633		CG		Ta		CH	horn	tan		S1	A1			mod/str	scor	2					30/7/99	SS	phtsn contact zone
N329728	99BT1	402033	6983350		CG		Ta		CH	horn	tan		S1	A1			mod/str	scor	2					30/7/99	SS	phtsn contact zone
N329729	99BT1	402125	6983344		CG		Ta		CH	horn	tan		S1	A1			mod/str	Py	3	scor	2			30/7/99	SS	phtsn contact zone
N329730	99BT1	402000	6983493		G		Ta		CH	Fractured	tan		S1	A1			mod/str							30/7/99	SS	alterations along fractures
N329731	99BT1	401807	6983577		CG		Ta		CH	Fractured	tan		S1	A1			mod/str	scor	2	Py	2			30/7/99	SS	alterations along fractures
N329732	99BT1	403353	6982782		CG		Ta		CH	Fractured	tan	C1	S2	A1			mod	Cpy	5					31/7/99	SS	contact zone
N329733	99BT1	403308	6982568		CG		Ta		CH	Fractured	tan		S2	A1			mod	Py	3	Py	5			31/7/99	SS	contact zone
N329734	99BT1	403367	6982595		CG		Ta		CH	Fractured	tan		S2	A1			mod	scor	5					31/7/99	SS	hornfelsed/skarned
N329735	99BT1	403412	6982571		CG		Ta		CH	brecciated	tan		S2				mod	scor	3					31/7/99	SS	brecciation zones along faults
N329736	99BT1	403424	6982562		CG		Ta		CH	Fractured	tan		S2	A1			mod	scor	5					31/7/99	SS	brecciation zones along faults
N329737	99BT1	403432	6982544		CG		Ta		CH	brecciated	tan		S2				mod	scor	5					31/7/99	SS	brecciation zones along faults
N329738	99BT1	403388	6983663		CG		Ta		CH	brecciated	tan		S2				mod	scor	3					31/7/99	SS	brecciation zones along faults
N329739	99BT1	403533	6983629		CG		Ta		CH	brecciated	tan		S2				mod	scor	5					31/7/99	SS	brecciation zones along faults
N329740	99BT1	404509	6981689		CG		Re		CH	Fractured	tan		S2				mod	scor	tr					31/7/99	SS	brecciation zones along faults
N329741	99BT1	404626	6981608		CG		Re		CH	Fractured	tan		S2				mod	scor	tr					31/7/99	SS	brecciation zones along faults

2b) ROCK SAMPLE GEOCHEMICAL RESULTS

Sample No.	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Tl	Bi	Cd	Co	Ni	Ba	W	Cr	V	Mn	La	Sr	Zr	Sc	Ti	Al	Ca	Fe	Mg	K	Na	P
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
25151R	8	<0.1	48	7	99	45	<5	<3	1	<10	<2	<0.1	9	40	172	12	74	25	217	8	12	3	4	0.02	1.27	0.06	1.5	0.11	0.14	0.02	0.01
25152R	20	<0.1	30	17	35	63	<5	<3	<1	<10	<2	<0.1	3	2	34	<5	52	9	336	10	50	3	3	0.01	0.89	3.05	0.9	0.21	0.08	0.06	0.02
25153R	<5	5	43	1206	34	42	10	<3	<1	<10	<2	<0.1	1	8	83	<5	73	10	89	8	3	2	2	0.02	0.42	0.04	1.2	0.11	0.18	0.01	0.02
25154R	9	<0.1	37	31	53	24	8	<3	1	<10	<2	<0.1	2	16	128	<5	117	11	63	5	5	2	1	<0.01	0.39	0.02	1.73	0.06	0.07	0.01	0.02
25155R	7	<0.1	23	29	43	12	9	<3	<1	<10	<2	<0.1	2	8	147	<5	134	15	81	7	4	2	2	0.01	0.39	0.01	1.34	0.09	0.13	0.01	0.01
25156R	9	<0.1	75	28	77	60	6	<3	1	<10	<2	<0.1	4	30	42	<5	148	34	95	10	4	3	3	<0.01	0.82	0.01	2.59	0.22	0.06	0.01	0.03
25157R	6	<0.1	102	83	141	103	6	<3	<1	<10	<2	2.2	4	6	222	<5	44	6	305	34	19	14	3	<0.01	0.87	0.68	1.94	0.26	0.2	0.04	0.03
25158R	657	1.5	111	278	38	220	8	<3	8	<10	<2	<0.1	2	13	83	<5	88	45	83	29	4	6	3	0.01	0.53	0.08	3.18	0.15	0.18	0.01	0.02
25159R	21	6.8	63	490	68	197	38	<3	2	<10	3	<0.1	1	6	39	<5	73	13	45	30	5	2	1	<0.01	0.15	0.03	2.39	0.01	0.06	0.01	0.02
25160R	5	0.5	98	92	117	241	5	<3	2	<10	<2	<0.1	12	9	24	<5	49	10	50	8	9	5	2	<0.01	0.85	0.15	3.14	0.06	0.12	0.02	0.04
25161R	30	1.9	76	373	81	502	36	<3	3	<10	<2	<0.1	2	13	49	<5	87	19	60	44	4	2	1	<0.01	0.25	0.03	3.36	0.03	0.1	0.01	0.02
25162R	25	6	68	1176	53	402	14	<3	2	<10	<2	<0.1	1	7	108	<5	56	12	38	9	4	2	1	<0.01	0.2	0.02	2.11	0.02	0.14	0.02	0.01
25163R	6	0.2	76	41	118	91	<5	<3	1	<10	<2	1.8	4	14	18	<5	65	4	74	5	8	8	3	<0.01	0.72	0.27	2	0.01	0.11	0.02	0.03
25164R	7	2	112	383	509	961	7	<3	<1	<10	<2	4.8	12	4	59	<5	44	7	205	12	17	7	4	0.01	1.22	0.43	2.14	0.18	0.18	0.03	0.02
25165R	30	6.6	110	1387	355	1302	10	<3	5	<10	<2	3.3	28	6	44	<5	39	11	390	12	22	8	4	<0.01	1.21	0.79	2.55	0.34	0.23	0.03	0.08
25166R	5	0.1	101	130	518	2365	<5	<3	<1	<10	<2	4	19	3	26	<5	52	3	239	13	11	5	2	<0.01	0.63	0.36	2.24	0.04	0.17	0.02	0.03
25167R	16	1.3	85	386	75	138	79	<3	2	<10	<2	<0.1	2	11	37	<5	46	23	77	6	13	3	3	<0.01	0.97	0.19	4.6	0.15	0.17	0.02	0.04
25168R	<5	<0.1	46	32	189	125	<5	<3	<1	<10	<2	<0.1	5	19	86	6	39	6	279	26	4	9	2	<0.01	0.44	0.03	1.83	0.03	0.19	0.02	0.04
25169R	182	112	557	10798	188	28660	196	<3	<1	<10	82	3	6	8	86	<5	87	5	37	7	19	3	1	<0.01	0.19	0.01	3.39	0.01	8.09	0.01	0.02
25170R	124	<0.1	220	60	95	16240	16	<3	1	<10	49	<0.1	13	46	219	9	38	31	199	20	15	11	4	0.03	1.79	0.07	3.66	0.48	0.32	0.03	0.05
25171R	409	128.7	513	17141	150	40327	2563	<3	1	<10	37	10.2	12	27	<1	<5	89	10	57	5	2	3	4	<0.01	0.14	0.01	4.14	0.01	0.04	0.01	0.02
25172R	28	92.2	195	10530	524	5717	242	<3	<1	<10	<2	3.2	3	14	37	<5	70	20	210	9	5	4	2	<0.01	0.21	0.03	6.71	0.05	0.12	0.01	0.05
25173R	570	49.5	143	10886	176	11260	494	<3	1	<10	30	3.3	2	9	32	5	100	7	48	27	4	4	2	<0.01	0.2	<0.01	2.42	0.01	0.08	0.02	0.01
N329727	10	<0.1	113	34	170	27	<5	<3	2	<10	<2	<0.1	2	13	8	6	23	17	150	6	4	6	1	0.02	0.7	0.17	6.2	0.99	0.01	0.01	0.06
N329728	5	0.1	78	17	49	94	<5	<3	1	<10	<2	<0.1	2	8	5	<5	102	18	142	4	3	3	2	0.03	0.59	0.08	2.19	0.83	0.01	0.01	0.01
N329729	13	<0.1	98	11	130	22	<5	<3	<1	<10	<2	<0.1	3	7	127	<5	36	17	97	3	2	9	1	0.01	0.72	0.13	3.25	0.74	0.09	0.01	0.02
N329730	<5	<0.1	275	42	226	41	5	<3	1	<10	<2	<0.1	4	39	91	<5	8	64	1129	11	3	4	5	<0.01	2.04	0.01	4.89	1.18	0.14	0.01	0.03
N329731	<5	<0.1	63	44	304	17	<5	<3	<1	<10	<2	<0.1	9	12	386	<5	19	61	464	10	11	6	8	<0.01	1.7	0.07	5.36	0.7	0.18	0.01	0.04
N329732	16	1.5	466	16	37	606	5	<3	1	<10	<2	<0.1	13	13	49	13	94	18	278	9	14	16	3	0.02	0.79	0.91	1.99	0.4	0.1	0.03	0.02
N329733	7	0.5	177	18	83	92	10	<3	3	<10	<2	<0.1	14	30	222	<5	88	50	1280	6	9	5	2	0.01	0.32	0.03	4.24	0.11	0.12	0.02	0.03
N329734	30	1	138	31	124	108	<5	<3	4	<10	<2	<0.1	34	77	42	7	98	112	2212	7	94	3	5	0.21	3.45	1.52	6.59	1.25	0.88	0.11	0.11
N329735	8	<0.1	138	18	245	75	5	<3	2	<10	<2	<0.1	11	60	78	<5	83	48	338	3	4	3	2	0.01	0.49	0.01	5.12	0.13	0.07	0.01	0.08
N329736	8	<0.1	65	11	204	102	<5	<3	<1	<10	<2	<0.1	3	16	79	<5	51	30	176	4	4	2	2	0.01	0.61	0.36	2.12	0.31	0.07	0.01	0.24
N329737	16	0.5	132	28	245	150	<5	<3	24	<10	<2	<0.1	5	28	200	<5	63	320	543	23	97	3	4	0.03	1.73	3.57	4.95	0.82	0.38	0.02	2.9
N329738	28	<0.1	105	21	263	84	<5	<3	4	<10	<2	0.3	4	24	354	<5	69	83	299	9	17	3	3	0.03	1.34	0.96	2.29	0.12	0.09	0.01	0.58
N329739	56	<0.1	345	12	316	43	<5	<3	<1	<10	<2	<0.1	17	68	94	9	35	21	3154	6	31	1	2	0.03	0.92	0.28	2.82	0.17	0.02	0.01	0.03
N329740	<5	<0.1	72	6	85	22	<5	<3	2	<10	<2	<0.1	5	24	485	<5	22	21	154	7	9	6	3	<0.01	1.17	0.01	2.91	0.4	0.15	0.01	0.03
N329741	19	<0.1	88	31	259	21	<5	<3	2	<10	<2	<0.1	28	47	262	5	52	22	1056	6	10	6	4	<0.01	0.95	0.01	5.95	0.23	0.15	0.01	0.03

APPENDIX 3: SOIL SAMPLE GEOCHEMICAL RESULTS

3a) SOIL SAMPLE DESCRIPTION SHEET

Sample No.	Traverse	Easting	Northing	Zone	Horizon	Depth (cm)	Slope Angle	Colour	Permafrost (yes/no?)	% Coarse Fragments	Vegetation	Surficial Geology	Frag. Lithology	% Organics	Date	Sampler	Comments
24851	99BT4	404672	6981566	9	B	40	ST	BRN	N	20	TD	TF	CH	5	31/7	SE	
24852	99BT4	404760	6981516	9	B	40	ST	BLK	N	30	TD	TF	CH	5	31/7	SE	
24853	99BT4	404852	6981475	9	B	30	RT	BRN	N	30	TD	TF	CH	5	31/7	SE	
24854	99BT4	404950	6981515	9	B	30	RT	BRN	N	30	TD	TF	CH	5	31/7	SE	
24855	99BT4	405046	6981540	9	B	30	RT	BRN	N	40	PINE	TF	CH	5	31/7	SE	
24856	99BT4	405120	6981596	9	B	20	RT	BRN	N	30	PINE	TF	CH	10	31/7	SE	
24857	99BT4	405218	6981632	9	B	30	ST	BRN	N	30	PINE	TF	CH	10	31/7	SE	
24858	99BT4	405314	6981657	9	B	40	ST	BRN	N	20	PINE	TF	CH	10	31/7	SE	
24859	99BT4	405344	6981536	9	B	40	ST	BRN	N	20	PINE	TF	CH	10	31/7	SE	
24860	99BT4	405398	6981444	9	B	30	ST	BRN	N	20	PINE	TF	CH	5	31/7	SE	
24861	99BT4	405503	6981425	9	B	20	ST	BRN	N	30	PINE	TF	CH	5	31/7	SE	
24862	99BT4	405536	6981366	9	B	20	ST	BRN	N	30	PINE	TF	CH	10	31/7	SE	
24863	99BT4	405543	6981280	9	B	30	ST	BRN	N	30	PINE	TF	CH	5	31/7	SE	
24864	99BT4	405586	6981184	9	B	30	ST	BRN	N	30	PINE	TF	CH	5	31/7	SE	
24865	99BT4	405601	6981101	9	B	20	ST	BRN	N	30	PINE	TF	CH	20	31/7	SE	
253018	99BT2	403495	6982121	9	C	40	ST	DKBRN	N	45	SCON	TA	CH	10	30/7	CS	No distinguishable B horizon
253025	99BT2	403449	6982215	9	C	30	ST	DKBRN	N	40	TD	TA	CH	10	30/7	CS	No distinguishable B horizon
253035	99BT2	403362	6982257	9	B	40	ST	DKBRN	N	30	TD	TA	CH	10	30/7	CS	Mixed B + talus
253045	99BT2	403320	6982248	9	C	30	ST	DKBRN	N	30	TD	TA	CH	5	30/7	CS	Stream cut; soil
253055	99BT2	403224	6982159	9	C	35	ST	LTBRN	N	35	TD	TA	CH	10	30/7	CS	Scattered outcrop
253065	99BT2	403084	6982244	9	C	30	ST	LTBRN	N	35	SCON	TA	CH	<5	30/7	CS	Underlies talus
253075	99BT2	402943	6982235	9	C	35	ST	LTBRN	N	30	SCON	TA	CH	5	30/7	CS	CH talus, QPM talus to east
253085	99BT2	402860	6982263	9	B	20	ST	DKBRN	N	10	SCON	TA	QPM	20	30/7	CS	"Island" in QPM talus
253095	99BT2	402743	6982199	9	B	25	ST	DKBRN	N	40	SCON	TA	CH	10	30/7	CS	CH, surr. by QPM talus
253105	99BT2	402702	6982149	9	C	20	ST	LTBRN	N	30	SCON	TA	QPM	10	30/7	CS	Next to QPM talus field
253115	99BT2	402542	6982090	9	B	35	ST	DKBRN	N	25	SCON	TA	QPM	10	30/7	CS	Next to QPM talus field
253125	99BT2	402386	6982022	9	C	35	ST	TAN	N	20	SCON	TA	CH/QM	5	30/7	CS	"C" STARTS AT 30 CM
253135	99BT2	402392	6982111	9	C	25	ST	BRN	N	35	TD	TA	QPM	10	30/7	CS	"Island" in QPM talus
253145	99BT2	402304	6982125	9	C	30	ST	BRN	N	40	SCON	TA	QPM	5	30/7	CS	Local strong red soil
253155	99BT2	402176	6982196	9	C	25	MOD	BLK	N	45	SCON	TA	CH	5	30/7	CS	Black chert fragments
253165	99BT2	402116	6982189	9	C	30	ST	TAN	N	40	SCON	TA/COL	CH	5	30/7	CS	Abnt chert o/crop
253175	99BT2	401996	6982239	9	C	30	ST	TAN	N	35	CON	TA/COL	CH	10	30/7	CS	
253185	99BT2	401890	6982330	9	C	35	ST	BLK	N	40	SCON	CV	CH	<5	30/7	CS	Blk ch; L gr; under red layer
253195	99BT2	401795	6982272	9	C	25	ST	BRN	N	45	SCON	CV	CH	5	30/7	CS	Mod. soil dev.
253205	99BT2	401767	6982240	9	C	30	ST	DK GY	N	50	TD	CV	CH	5	30/7	CS	Limonite altered chert
P1035685	99BT1	402636	6982696	9	C	20	L	BROWN	N	10	N	TF	QPM	<5	30/7	SS	
P1035695	99BT1	402618	6982887	9	C	20	L	BROWN	N	5	SF	TF	QPM	5	30/7	SS	
P1035705	99BT1	402537	6983027	9	BC	20	L	BROWN	N	5	SF	TF	QPM	5	30/7	SS	
P1035715	99BT1	402469	6983137	9	BC	20	L	BROWN	N	5	SF	TF	QPM	5	30/7	SS	
P1035725	99BT1	402395	6983200	9	BC	20	L	BROWN	N	5	SF	TF	QPM	5	30/7	SS	
P1035735	99BT1	402307	6983209	9	BC	30	L	BROWN	N	5	SF	TF	QPM	10	30/7	SS	
P1035745	99BT1	402173	6983160	9	BC	20	MOD	BUFF	N	5	SF	TF	QPM	5	30/7	SS	
P1035755	99BT1	402083	6983332	9	BC	20	MOD	TAN/GR	N	5	SF	TF	HORN	5	30/7	SS	pluton contact zone + As
P1035765	99BT1	401993	6983433	9	BC	20	MOD	BUFF	N	5	SF	TF	HORN	5	30/7	SS	pluton contact zone + As
P1035775	99BT1	401941	6983301	9	BC	20	MOD	BUFF	N	10	SF	TF	HORN	10	30/7	SS	pluton contact zone + As
P1035785	99BT1	402000	6983493	9	BC	20	MOD	LBRN/R	N	5	PINE	TF	HORN	5	30/7	SS	pluton contact zone + As
P1035795	99BT1	401907	6983548	9	C	20	MOD	TAN	N	5	PINE	TF	HORN	<5	30/7	SS	pluton contact zone + As
P1035805	99BT1	401840	6983548	9	BC	20	MOD	BLK	N	15	SF	TF	BLK SH	10	30/7	SS	
P1035815	99BT1	401730	6983598	9	BC	20	MOD	BROWN	N	15	SF	TF	ARG	10	30/7	SS	

P103603	99BT3	403673	6982271	9	B	30	RT	ORG	N	10	TD	TF	CH	5	30/7	SE		
P103604	99BT3	403841	6982328	9	B	30	ST	ORG	N	20	PINE	TF	CH	5	30/7	SE		
P103605	99BT3	403849	6982286	9	B	20	ST	BRN	N	40	PINE	TF	CH	5	30/7	SE		
P103606	99BT3	403950	6982284	9	B	20	ST	BRN	N	40	PINE	TF	CH	5	30/7	SE		
P103608	99BT3	404022	6982296	9	B	40	ST	BRN	N	60	PINE	TF	SH	5	30/7	SE		
P103609	99BT3	404155	6982299	9	B	40	ST	BRN	N	40	PINE	TF	SH	10	30/7	SE		
P103611	99BT3	404326	6982273	9	B	30	ST	BRN	N	30	PINE	TF	SH	10	30/7	SE		
P103612	99BT3	404356	6982307	9	B	30	ST	GRY	N	40	PINE	TF	SH	10	30/7	SE		
P103613	99BT3	404462	6982326	9	B	40	ST	GRY	N	40	PINE	TF	SH	10	30/7	SE		
P103614	99BT3	404475	6982457	9	B	40	ST	GRY	N	20	PINE	TF	SH	10	30/7	SE		
P103615	99BT3	404537	6982377	9	B	40	ST	ORG	N	10	PINE	TF	SH	10	30/7	SE		
P103616	99BT3	404634	6982319	9	B	30	ST	ORG	N	20	PINE	TF	CH	10	30/7	SE		
P103617	99BT3	404730	6982396	9	B	30	ST	BLK	N	20	PINE	TF	CH	5	30/7	SE		
P103618	99BT3	404804	6982344	9	B	30	HT	BLK	N	30	PINE	TF	CH	10	30/7	SE		
P103619	99BT3	404918	6982264	9	B	30	ST	BLK	N	30	PINE	TF	CH	5	30/7	SE		
P103620	99BT3	405019	6982204	9	B	40	ST	BLK	N	20	PINE	TF	CH	5	30/7	SE		
P103621	99BT3	405183	6982057	9	B	20	ST	BRN	N	50	PINE	TF	CH	10	30/7	SE		
P103622	99BT3	405209	6982113	9	B	40	ST	BRN	N	40	PINE	TF	CH	10	30/7	SE		
P103625	99BT3	405415	6982084	9	B	40	ST	BRN	N	30	PINE	TF	SH	5	30/7	SE		
P103626	99BT3	404909	6982292	9	B	30	ST	BRN	N	40	PINE	TF	SH	10	30/7	SE		
P103627	99BT3	405538	6982116	9	B	30	MOD	BRN	N	40	PINE	TF	SH	10	30/7	SE		
P103628	99BT3	405619	6982060	9	B	30	MOD	BRN	N	30	PINE	TF	SH	5	30/7	SE		
P103629	99BT3	405719	6982086	9	B	40	MOD	ORG	N	40	PINE	TF	SH	5	30/7	SE		
P103630	99BT3	405842	6981999	9	B	20	MOD	ORG	N	40	PINE	TF	SH	5	30/7	SE		
P103631	99BT3	405972	6982063	9	B	30	MOD	ORG	N	30	PINE	TF	SH	10	30/7	SE		
P103632	99BT3	406001	6982038	9	B	50	MOD	GRY	N	50	PINE	TF	SH	5	30/7	SE		
P103633	99BT3	406128	6981983	9	B	50	MOD	GRY	N	40	PINE	TF	SH	5	30/7	SE		
P103634	99BT3	406216	6981963	9	B	50	MOD	GRY	N	20	PINE	TF	SH	5	30/7	SE		
P103635	99BT3	406299	6981985	9	B	50	MOD	GRY	N	20	PINE	TF	SH	10	30/7	SE		
P103636	99BT4	403670	6982198	9	B	30	RT	BRN	N	20	TD	TF	CH	10	31/7	SE		
P103637	99BT4	403721	6982114	9	B	40	RT	BRN	N	20	TD	TF	CH	5	31/7	SE		
P103638	99BT4	403817	6982104	9	B	40	RT	BRN	N	10	TD	TF	CH	5	31/7	SE		
P103639	99BT4	403882	6982028	9	B	20	RT	BRN	N	20	TD	TF	CH	5	31/7	SE		
P103640	99BT4	403975	6982007	9	B	20	RT	BRN	N	20	TD	TF	CH	5	31/7	SE		
P103641	99BT4	404053	6981954	9	B	20	RT	BRN	N	30	TD	TF	CH	5	31/7	SE		
P103642	99BT4	404112	6981953	9	B	20	RT	BR/BLK	N	10	TD	TF	CH/ARG	5	31/7	SE	FAULT	
P103643	99BT4	404152	6981963	9	B	30	RT	BRN	N	30	TD	TF	CH	10	31/7	SE		
P103644	99BT4	404245	6981992	9	B	20	RT	BLK	N	10	TD	TF	ARG	10	31/7	SE		
P103645	99BT4	404339	6981983	9	B	20	RT	BRN	N	40	TD	TF	CH	5	31/7	SE		
P103646	99BT4	404439	6981973	9	B	30	RT	BRN	N	30	TD	TF	CH	5	31/7	SE		
P103647	99BT4	404515	6981906	9	B	10	RT	BRN	N	20	TD	TF	CH	20	31/7	SE		
P103648	99BT4	404566	6981823	9	B	30	ST	BRN	N	20	TD	TF	CH	20	31/7	SE		
P103649	99BT4	404563	6981722	9	B	40	ST	BRN	N	20	TD	TF	CH	10	31/7	SE		
P103650	99BT4	404641	6981662	9	B	40	ST	BRN	N	20	TD	TF	CH	10	31/7	SE		

3b) SOIL SAMPLE GEOCHEMICAL RESULTS

Sample No.	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Tl	Bi	Cd	Co	Ni	Ba	W	Cr	V	Mn	La	Sr	Zr	Sc	Ti	Al	Ca	Fe	Mg	K	Na	P
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
24851	<5	0.2	84	18	155	26	<5	<3	3	<10	<2	<0.1	11	48	232	5	21	65	668	8	24	1	1	0.01	1.06	0.04	3.65	0.14	0.04	0.01	0.07
24852	33	1.3	36	40	39	41	<5	<3	13	<10	<2	<0.1	2	16	177	<5	48	133	79	11	92	2	2	0.01	0.74	0.02	3.9	0.05	0.25	0.02	0.23
24853	17	0.3	101	30	97	54	<5	<3	9	<10	<2	<0.1	9	33	293	<5	36	137	1045	11	142	2	2	0.01	0.96	0.06	3.47	0.12	0.18	0.01	0.16
24854	17	0.1	108	27	256	32	<5	<3	5	<10	<2	<0.1	27	67	274	<5	20	48	1402	8	37	2	3	0.01	1.34	0.02	4.6	0.29	0.12	0.01	0.09
24855	7	0.1	70	28	183	29	<5	<3	7	<10	<2	<0.1	9	42	218	<3	17	75	988	10	19	1	1	<0.01	1.21	0.02	3.83	0.08	0.11	0.01	0.15
24856	9	<0.1	74	20	166	38	<5	<3	3	<10	<2	<0.1	10	43	134	<5	27	69	416	10	13	1	1	0.01	1.59	0.03	4.79	0.2	0.09	0.01	0.07
24857	7	0.1	93	9	126	42	<5	<3	3	<10	<2	<0.1	14	116	150	<5	20	88	1188	9	16	1	1	0.01	1.06	0.01	2.87	0.08	0.06	0.01	0.06
24858	8	0.3	72	11	108	24	<5	<3	3	<10	<2	<0.1	6	26	122	<5	19	71	638	4	11	1	1	0.01	0.86	0.03	2.49	0.05	0.06	0.02	0.08
24859	6	0.1	91	9	172	16	<5	<3	2	<10	<2	<0.1	8	37	98	<5	18	50	514	4	28	1	2	0.01	0.82	0.01	3	0.07	0.06	0.01	0.05
24860	6	0.1	93	11	189	9	<5	<3	2	<10	<2	<0.1	6	35	138	<5	13	90	189	10	22	1	2	0.02	0.56	0.01	3.11	0.03	0.04	0.01	0.05
24861	10	0.2	69	16	176	21	<5	<3	2	<10	<2	1.9	12	32	269	<5	16	51	1407	8	22	1	1	0.01	0.69	0.05	2.83	0.13	0.07	0.01	0.11
24862	<5	0.3	62	11	154	18	<5	<3	2	<10	<2	1.8	8	28	200	<5	15	53	730	7	19	1	1	<0.01	0.67	0.03	2.6	0.1	0.06	0.01	0.09
24863	15	0.1	135	28	282	46	<5	<3	3	<10	<2	0.8	30	98	614	<3	29	91	8454	6	23	2	2	<0.01	1.4	0.03	4.4	0.06	0.07	0.01	0.11
24864	38	0.3	177	17	306	16	<5	<3	5	<10	<2	0.4	15	58	397	<5	15	65	1404	6	59	1	2	<0.01	0.89	0.1	3.08	0.12	0.11	0.01	0.17
24865	6	0.1	148	24	327	56	<5	<3	7	<10	<2	11.6	31	65	876	5	17	68	8824	10	56	2	2	0.01	1.38	0.22	2.95	0.08	0.09	0.01	0.23
25301S	11	<0.1	69	34	260	98	<5	<3	8	<10	<2	<0.1	10	62	375	<5	55	245	446	13	47	2	2	0.06	3.05	0.1	4.92	0.92	0.42	0.03	0.09
25302S	15	<0.1	98	24	258	107	<5	<3	4	<10	<2	<0.1	15	69	247	7	39	104	845	11	35	2	2	0.06	2.77	0.05	5.15	0.61	0.21	0.03	0.1
25303S	21	<0.1	185	43	260	104	<5	<3	13	<10	<2	<0.1	18	79	324	6	40	128	647	14	48	4	3	0.04	3.65	0.03	8.65	0.58	0.25	0.03	0.18
25304S	21	<0.1	118	27	217	169	<5	<3	4	<10	<2	<0.1	23	53	318	7	28	82	1339	16	41	1	4	0.05	2.68	0.26	4.92	0.73	0.22	0.02	0.08
25305S	7	0.2	142	38	164	59	<5	<3	2	<10	<2	<0.1	10	69	112	<5	32	78	482	9	15	1	2	0.04	1.88	0.04	4.42	0.24	0.07	0.03	0.07
25306S	23	<0.1	179	39	269	88	<5	<3	4	<10	<2	0.3	25	105	229	<5	49	139	1076	13	19	2	3	0.05	2.5	0.05	5.57	0.4	0.12	0.02	0.1
25307S	12	0.1	159	54	503	111	<5	<3	3	<10	<2	0.9	50	174	319	<5	49	120	4747	12	15	2	3	0.05	2.53	0.05	6.54	0.41	0.12	0.02	0.09
25308S	13	<0.1	49	34	78	252	<5	<3	1	<10	<2	0.1	7	14	330	<5	10	37	264	15	63	1	3	0.04	2.63	0.23	2.25	0.43	0.11	0.02	0.06
25309S	21	<0.1	112	26	160	109	<5	<3	7	<10	<2	<0.1	13	63	258	<5	34	184	703	16	93	1	1	0.04	2.65	0.58	3.94	0.72	0.17	0.02	0.34
25310S	7	<0.1	52	73	105	186	5	<3	2	<10	<2	<0.1	12	21	306	<5	17	60	646	28	217	2	6	0.12	2.82	0.97	3.12	0.72	0.3	0.05	0.06
25311S	11	<0.1	64	60	117	321	<5	<3	1	<10	<2	<0.1	15	31	361	<5	12	43	998	28	133	1	6	0.07	2.9	0.83	2.86	0.64	0.22	0.03	0.06
25312S	10	0.2	219	143	138	138	18	<3	5	<10	<2	0.8	12	69	407	<5	40	139	552	15	64	2	5	0.05	1.62	0.36	4.39	0.43	0.24	0.02	0.19
25313S	5	0.2	22	18	48	62	<5	<3	<1	<10	<2	0.6	4	9	124	<5	5	23	175	6	23	1	1	0.03	1.02	0.13	1.08	0.14	0.04	0.03	0.05
25314S	10	0.3	38	59	49	161	<5	<3	3	<10	<2	<0.1	4	12	117	8	14	61	137	13	20	1	<1	0.01	1.1	0.07	1.81	0.12	0.06	0.02	0.07
25315S	61	0.1	142	28	62	226	<5	<3	6	<10	<2	<0.1	4	24	305	<5	77	246	246	20	13	1	1	0.03	2.05	0.07	3.02	0.68	0.29	0.02	0.14
25316S	30	0.5	310	85	174	859	17	<3	8	<10	<2	0.7	19	53	283	<5	42	152	706	19	27	1	4	0.04	1.95	0.07	5.92	0.46	0.2	0.02	0.13
25317S	8	<0.1	72	27	106	357	<5	<3	6	<10	<2	<0.1	10	37	245	<5	36	119	340	16	63	2	2	0.04	3.05	0.19	3.79	1.05	0.25	0.03	0.08
25318S	30	1.5	198	273	427	293	19	<3	13	<10	<2	3.6	9	88	99	<5	45	111	682	20	8	6	3	0.01	0.78	0.18	7.55	0.24	0.17	0.02	0.05
25319S	88	10.9	237	2242	230	1160	93	<3	11	<10	<2	0.3	8	32	370	10	41	149	880	25	41	2	1	0.01	1.43	0.06	6.95	0.15	0.3	0.02	0.18
25320S	54	3.1	533	152	273	231	13	<3	12	<10	<2	0.4	15	66	641	<5	78	346	1107	15	72	6	9	0.15	5.93	0.13	8.1	2.53	1.35	0.03	0.31
P1035685	7	2.8	747	101	120	2638	19	<3	3	<10	8	<0.1	14	7	193	5	10	37	685	33	313	4	7	0.08	4.03	1.85	3.68	0.79	0.31	0.06	0.05
P1035695	<5	<0.1	7	4	12	34	<5	<3	<1	<10	<2	<0.1	2	2	46	5	2	15	39	2	17	1	1	0.02	0.63	0.09	0.53	0.05	0.04	0.04	0.03
P1035705	72	<0.1	364	51	72	977	6	<3	2	<10	17	<0.1	11	8	185	<5	8	32	373	26	165	2	5	0.06	3.26	1.38	2.81	0.61	0.15	0.04	0.05
P1035715	28	0.1	161	122	102	762	8	<3	1	<10	8	<0.1	11	9	198	6	8	31	484	28	257	2	6	0.03	3.76	1.35	2.84	0.67	0.11	0.05	0.05
P1035725	29	<0.1	182	111	106	809	7	<3	2	<10	5	<0.1	10	7	196	9	8	30	398	27	240	2	5	0.03	3.8	1.23	2.79	0.65	0.11	0.05	0.05
P1035735	18	<0.1	124	151	93	927	9	<3	3	<10	9	<0.1	7	6	219	6	9	34	265	18	92	2	3	0.02	3.5	0.43	2.87	0.5	0.09	0.03	0.06
P1035745	28	<0.1	84	15	35	272	<5	<3	1	<10	4	<0.1	3	9	75	<5	6	32	86	4	20	1	1	0.02	1.36	0.19	0.83	0.15	0.05	0.04	0.04
P1035755	88	0.1	33	13	23	90	<5	<3	1	<10	<2	<0.1	3	5	34	<5	4	22	98	3	9	1	1	0.02	0.55	0.1	0.73	0.06	0.03	0.04	0.05
P1035768	49	0.4	245	72	202	870	7	<3	6	<10	5	<0.1	15	49	242	6	31	90	591	14	22	1	2	0.04	2.36	0.11	3.85	0.66	0.18	0.02	0.07
P1035778	43	<0.1	172	31	128	488	<5	<3	5	<10	4	<0.1	9	44	141	<5	23	91	202	9	18	1	1	0.03	1.62	0.08	3.44	0.37	0.08	0.03	0.08
P1035788	<5	<0.1	6	4	10	11	<5	<3	<1	<10	<2	<0.1	2	2	17	<5	2	19	32	<2	7	<1	1	0.03	0.24	0.04	0.37	0.02	0.02	0.04	0.02
P1035798	5	<0.1	10	<2	11	18	<5	<3	<1	<10	<2	<0.1	2	3	16	<5	2	18	123	2	7	1	<1	0.02	0.56	0.07	0.58	0.03	0.02	0.04	0.04
P1035808	37	2.4	73	38	78	19	<5	<3	9	<10	<2	<0.1	5	33	71	6	24	136	674	14	53	1	2	0.01	0.29	0.07	3.45	0.06	0.42	0.02	0.07
P1035818	24	0.3	91	84	184	53	<5	<3	3	<10	<2	<0.1	16	61	216	6	24	97	2279	12	21	1	2	0.02	0.96	0.02	5.01	0.09	0.09	0.02	0.1

P103603	12	0.8	99	94	353	47	<5	<3	4	<10	<2	<0.1	13	100	267	<5	45	136	974	14	13	1	2	0.02	1.49	0.01	4.92	0.3	0.27	0.02	0.1
P103604	6	<0.1	42	35	164	33	<5	<3	7	<10	<2	<0.1	6	29	233	<5	21	150	1399	11	15	1	1	0.02	0.65	0.02	2.67	0.11	0.12	0.02	0.08
P103605	27	1.2	135	52	292	50	<5	<3	10	<10	<2	0.4	18	72	279	<5	46	174	1500	14	31	2	1	0.01	2.25	0.02	7.02	0.51	0.22	0.02	0.21
P103606	21	1.5	112	50	613	51	<5	<3	15	<10	<2	3.6	19	95	372	<5	38	248	1652	14	25	1	2	0.02	1.69	0.05	3.91	0.63	0.19	0.02	0.09
P103608	13	<0.1	81	59	233	15	<5	<3	7	<10	<2	0.2	14	47	322	<5	16	89	2138	14	18	1	1	0.01	0.75	0.01	4.3	0.05	0.13	0.02	0.13
P103609	7	<0.1	65	22	330	57	<5	<3	13	<10	<2	0.6	9	60	285	<5	30	196	451	10	40	1	2	0.01	1.43	0.03	3.96	0.18	0.1	0.02	0.09
P103611	19	0.2	136	28	231	33	<5	<3	7	<10	<2	2	25	91	420	<5	22	86	2893	17	51	1	3	0.01	1.09	0.05	4.39	0.14	0.19	0.02	0.12
P103612	10	<0.1	91	29	389	36	<5	<3	15	<10	<2	1.3	15	53	589	<5	17	92	1726	11	20	1	1	<0.01	0.93	0.05	4	0.11	0.1	0.02	0.14
P103613	34	<0.1	218	139	284	105	6	<3	16	<10	<2	0.9	87	203	303	<5	17	71	6282	27	221	1	5	<0.01	0.86	0.36	6.89	0.09	0.31	0.02	0.24
P103614	10	<0.1	143	43	223	32	<5	<3	9	<10	<2	1.2	24	97	745	<5	12	45	2832	13	44	2	5	<0.01	1.09	0.03	6.03	0.1	0.16	0.02	0.08
P103615	6	<0.1	56	9	122	24	<5	<3	4	<10	<2	<0.1	7	32	83	<5	11	61	367	13	7	1	1	0.01	0.91	0.02	3.09	0.05	0.06	0.02	0.06
P103616	6	<0.1	48	25	142	36	<5	<3	6	<10	<2	<0.1	12	34	237	<5	23	72	980	12	25	1	1	0.01	1.12	0.08	3.64	0.24	0.09	0.02	0.11
P103617	5	<0.1	59	15	200	21	<5	<3	3	<10	<2	<0.1	11	45	134	5	11	45	522	8	16	1	1	0.01	0.87	0.01	3.22	0.08	0.06	0.02	0.08
P103618	5	2.3	346	26	654	39	<5	<3	3	<10	<2	<0.1	13	193	154	<5	23	123	855	26	18	2	6	<0.01	1.71	0.01	6.17	0.08	0.07	0.01	0.09
P103619	<5	<0.1	50	24	195	30	<5	<3	7	<10	<2	<0.1	7	40	153	<5	16	112	303	12	21	1	1	0.01	0.92	0.02	3.22	0.08	0.09	0.02	0.07
P103620	<5	0.1	26	11	93	18	<5	<3	5	<10	<2	<0.1	4	16	153	<5	10	70	150	9	12	1	1	0.01	0.57	0.02	1.51	0.04	0.07	0.02	0.05
P103621	8	<0.1	89	25	251	22	<5	<3	8	<10	<2	<0.1	15	60	138	<5	15	61	683	14	17	1	3	0.01	0.89	0.03	4.5	0.14	0.09	0.02	0.08
P103622	19	<0.1	76	22	288	31	<5	<3	6	<10	<2	<0.1	14	59	256	7	22	88	684	12	36	1	2	0.02	1.2	0.09	4.66	0.25	0.1	0.02	0.11
P103625	<5	0.1	61	23	475	44	8	<3	30	<10	<2	<0.1	6	61	142	5	26	445	114	7	21	1	1	0.01	0.88	0.01	2.64	0.06	0.09	0.02	0.06
P103626	6	7.9	177	41	63	48	6	<3	43	<10	<2	1.3	2	30	488	<5	140	1156	8	5	259	2	1	0.01	0.84	0.02	2.26	0.05	0.25	0.02	0.11
P103627	15	1.7	172	13	267	40	<5	<3	8	<10	<2	0.4	3	39	277	10	26	83	62	6	49	2	3	<0.01	0.67	0.02	1.73	0.03	0.05	0.01	0.05
P103628	<5	1.5	44	30	258	19	<5	<3	11	<10	<2	<0.1	6	42	124	<5	17	171	114	9	21	1	1	0.01	0.58	0.01	2.5	0.04	0.07	0.01	0.05
P103629	<5	<0.1	76	10	548	16	<5	<3	13	<10	<2	<0.1	10	68	62	<5	7	180	237	5	5	1	1	<0.01	0.51	0.01	2.69	0.02	0.05	0.01	0.08
P103630	<5	<0.1	56	10	117	18	<5	<3	3	<10	<2	<0.1	7	24	90	<5	14	66	180	9	9	1	2	0.01	1.02	0.01	3.78	0.07	0.08	0.02	0.07
P103631	8	<0.1	83	7	182	37	<5	<3	1	<10	<2	<0.1	14	57	262	<5	16	74	827	5	13	2	5	<0.01	1.68	0.19	3.73	0.1	0.09	0.01	0.06
P103632	<5	13.3	46	186	158	24	<5	<3	22	<10	<2	0.1	2	19	278	<5	51	219	27	4	48	<1	1	0.01	0.39	0.01	2.4	0.02	0.24	0.02	0.08
P103633	<5	<0.1	43	29	269	26	<5	<3	9	<10	<2	<0.1	6	44	342	<5	23	177	120	8	62	1	2	0.01	0.84	0.09	2.75	0.11	0.09	0.02	0.12
P103634	14	2.4	66	20	302	88	<5	<3	10	<10	<2	0.5	6	49	1391	<5	51	280	231	9	70	2	3	<0.01	2.95	0.57	2.79	0.44	0.23	0.02	0.17
P103635	6	<0.1	49	17	243	37	<5	<3	8	<10	<2	<0.1	9	38	379	<5	23	139	578	11	34	1	2	0.01	1.08	0.15	2.75	0.21	0.12	0.02	0.11
P103636	20	11.3	279	154	1113	159	<5	<3	76	<10	<2	1.7	8	116	145	<5	147	1685	277	50	37	5	6	0.17	3.27	0.1	3.92	2.12	0.47	0.03	0.13
P103637	<5	<0.1	59	15	197	32	<5	<3	3	<10	<2	<0.1	11	42	123	<5	18	49	410	10	9	1	1	0.02	1.47	0.04	3.69	0.26	0.1	0.02	0.1
P103638	19	<0.1	87	32	190	33	<5	<3	6	<10	<2	<0.1	8	44	238	<5	32	115	169	16	38	1	1	0.01	1.73	0.05	5.88	0.22	0.12	0.02	0.16
P103639	6	<0.1	77	12	145	51	<5	<3	2	<10	<2	<0.1	17	60	94	<5	20	28	606	16	8	1	2	0.01	2.2	0.02	3.74	0.62	0.11	0.02	0.08
P103640	17	<0.1	81	32	346	50	<5	<3	11	<10	<2	<0.1	18	77	385	6	35	84	1428	18	43	1	1	0.01	1.85	0.06	5.93	0.43	0.09	0.02	0.12
P103641	17	<0.1	86	37	470	44	<5	<3	10	<10	<2	<0.1	25	98	328	<5	22	51	2091	15	36	3	2	0.01	1.73	0.04	5.55	0.24	0.14	0.02	0.12
P103642	5	<0.1	102	17	974	56	23	<3	56	<10	<2	5.4	9	126	501	<5	16	300	378	22	10	1	3	<0.01	1.95	0.05	2.59	0.15	0.08	0.01	0.06
P103643	13	3.4	195	39	735	34	<5	<3	4	18	<2	0.8	18	138	214	<5	23	69	1034	24	33	2	6	0.01	1.26	0.01	5.83	0.14	0.13	0.01	0.13
P103644	10	3.3	69	35	124	20	9	<3	5	<10	<2	1.3	2	25	497	<5	19	46	150	13	43	3	2	<0.01	0.38	0.02	1.6	0.04	0.08	0.02	0.03
P103645	7	<0.1	166	35	167	<5	<5	<3	3	<10	<2	<0.1	11	53	209	<5	33	68	894	11	15	2	1	0.01	1.23	0.02	11.31	0.09	0.13	0.01	0.22
P103646	19	<0.1	163	32	414	28	<5	<3	9	<10	<2	<0.1	26	108	228	<5	32	73	1175	16	34	2	4	0.01	1.76	0.03	7.81	0.24	0.18	0.02	0.14
P103647	8	4.9	75	44	256	20	<5	<3	3	<10	<2	1.2	6	36	456	<5	17	53	289	14	73	1	3	<0.01	0.88	0.09	2.82	0.08	0.19	0.03	0.09
P103648	<5	3.3	44	31	245	38	<5	<3	18	<10	<2	0.1	4	35	459	<5	38	337	92	15	72	1	1	0.01	0.98	0.02	2.8	0.09	0.17	0.02	0.11
P103649	8	<0.1	86	32	258	29	<5	<3	3	<10	<2	<0.1	17	67	216	<5	26	59	755	9	22	1	1	0.01	1.41	0.04	5.64	0.18	0.11	0.02	0.09
P103650	6	0.3	51	26	75	23	<5	<3	6	<10	<2	<0.1	6	30	629	<5	32	105	672	10	81	1	1	0.01	0.8	0.03	3.26	0.09	0.13	0.02	0.11

4b) SILT SAMPLE GEOCHEMICAL RESULTS

Sample No.	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Tl	Bi	Cd	Co	Ni	Ba	W	Cr	V	Mn	La	Sr	Zr	Sc	Ti	Al	Ca	Fe	Mg	K	Na	P
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
25200T	6	<0.1	36	21	68	127	<5	<3	1	<10	<2	0.3	9	12	193	5	7	37	526	36	64	1	7	0.06	2.14	0.79	2.28	0.63	0.19	0.03	0.07
103607	227	1.1	159	50	1262	52	5	<3	12	<10	<2	13	29	283	664	5	32	185	4494	15	47	1	4	0.01	1.41	0.47	5.29	0.52	0.24	0.02	0.13
103610	<5	<0.1	64	42	313	36	<5	<3	19	<10	<2	<0.1	18	47	696	<5	18	192	4751	18	33	<1	1	0.01	0.73	0.01	3.19	0.05	0.13	0.02	0.1
103623	10	0.1	68	12	830	50	<5	<3	7	<10	<2	11.4	13	225	761	<5	20	100	6703	7	65	1	1	0.01	1.16	0.82	2.74	0.27	0.14	0.02	0.21
103624	11	0.2	61	15	668	43	<5	<3	7	<10	<2	8.5	12	172	747	<5	20	116	4560	8	49	1	1	0.01	1.94	0.56	2.49	0.24	0.12	0.02	0.17

APPENDIX 4: SILT SAMPLE GEOCHEMICAL RESULTS

4a) SILT SAMPLE DESCRIPTION SHEET

Sample No.	Easting	Northing	Zone	% Fines	Colour	Stream Grade	Stream Width	Date	Sampler	Comments
25200T	403291	6982219	9	90	buff	Steep	<0.5m	30/7/99	C.S.	Intrusive talus nearby
103607	404011	6982301	9	80	BRN				S.E.	
103610	404278	6982405	9	80	BRN				S.E.	
103623	405290	6982306	9	30	BRN				S.E.	
103624	405341	6982223	9	40	BRN				S.E.	