094148

1999 GEOLOGICAL and GEOCHEMICAL ASSESSMENT REPORT ON THE HAN 1-124 CLAIMS (GERMAN CREEK PROJECT)

May 4, 2000

Dawson Mining District
N.T.S. 116 B/06

Latitude: 64°20' North
Longitude: 139°17' West

Owner: NovaGold Resources Inc.

Author: Carl M. Schulze

Date of work: August, 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 $ 9000.00 .

M. Bruk

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

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SUMMARY

The German Creek Project consists of the HAN 1-124 contiguous quartz mining claims covering a 25 square kilometre area within NTS Sheet 116 B/6, in the Dawson Mining District. The claims are entirely owned by NovaGold Resources Inc. (NovaGold). The property was originally staked by Viceroy Exploration (Canada), Inc. (VEC) to cover prospective areas adjacent to the R-3A "Class-A" land claim held by the Tr'on dek Hwech'in (TH) of Dawson City. Exploration by Viceroy extended onto the R-3A block in advance of completion of a socio-economic accord with the TH; the accord was never signed and subsequent exploration has been confined to the claim block.

The German Creek Project is located roughly 30 kilometres NNE of Dawson City, Yukon, within Selwyn Basin stratigraphy, consisting of Late-Precambrian to Mississippian shelf and off-shelf sediments derived from the Ancient North American Platform. A regional compressional event has resulted in widespread ESE trending, gently SSW dipping thrust faults. This sequence has been intruded by stocks, plutons, and dykes of the Mid-Cretaceous Tombstone Suite. Locally, a package of Road River Group siltstone and chert has been isolated by thrust faulting into a klippe, deeply incised by the German Creek gulch. North of the klippe, Earn Group sediments overlie Hyland Group sediment, with Menzie Creek basaltic to andesitic volcanics occurring further north. Quartz monzonite dykes extend ESE across the eastern parts of the project area.

Results of the 1997 geological mapping, soil and rock sampling program suggest two potential mineralogical settings resulting from one widespread hydrothermal mineralizing event. These settings are: intrusive hosted mineralization within Tombstone Suite monzonitic to quartz-monzonitic dykes; and structurally controlled mineralization within fractured to brecciated Earn and Road River Group sediments. Results of soil sampling traverses across dyke hosted mineralization include 54 ppb Au/400 metres, and 69 ppb Au/400 metres. Results across the klippe contact zone include: 23 ppb Au/ 600 metres, 28 ppb Au/ 700 metres, and 294 ppb Au/ 150 metres. A value of 57 ppb Au/ 650 metres was returned from a traverse across both settings; and values of 86 ppb Au/200 metres and 122 ppb Au/200 metres were returned from suspected dyke hosted mineralization within the klippe. The dyke-hosted mineralization is associated with higher Au:Hg ratios than sediment hosted mineralization.

The 1999 NovaGold exploration program concentrated on geological and geochemical surveying outside of the Viceroy exploration program. However, several samples of brecciated, silicified and limonitic chert taken across central areas returned anomalous gold values to 404 ppb Au, with anomalous arsenic and antimony values. These are located slightly east of a previous gold-in-soil intersection of 54 ppb Au/ 400 metres. Soil sampling done in 1999 roughly 1.5 kilometres to the east, just east of German Creek, returned a value of 74 ppb Au with 4.5 gpt Ag, weakly elevated lead, zinc and arsenic values and strongly elevated antimony values. Sampling 300 metres to the north delineated a weaker anomaly with gold values to 28 ppb Au, with a similar, proportional pathfinder signature.

NovaGold determined that the limonitic brecciated chert and associated strong gold-in-soil anomalies suggest significant mineralization may occur within central areas and the surrounding R-3A Land Claim blocks. Permafrost and locally heavy overburden, particularly along the north slope, may decrease observed values which would be higher in non-frozen terrain. The newly recognised soil anomaly east of German Creek may represent significant underlying mineralization. However, power auger drilling is necessary for more accurate determination of gold presence. No evidence of mineralization was found outside of the central area.

Expenditures applicable for assessment credits incurred in 1999 total $9,000.

The NovaGold exploration program for 2000 is recommended to consist of additional systematic surface exploration, comprised of geological mapping, prospecting, and "in-fill" soil sampling. This program shall extend across central areas including areas near the 1999 soil anomalies east of German Creek. This program is designed to determine targets for mechanized trenching. Exploration-style diamond drilling shall follow favourable results from the surface exploration program.

CHAPTER 1: INTRODUCTION

1.1 Introductory Statement

The German Creek Project consists of the HAN 1-124 contiguous quartz mining claims covering a 25 square kilometre area within NTS Sheet 116 B/6, in the Dawson Mining District (Figures 1 and 2). The claims are entirely owned by NovaGold Resources Inc. (NovaGold). Adjacent portions of the R-3A "Class-A" land claim held by the Tr'on dek Hwech'in were previously incorporated into the project while it was held by Viceroy Exploration (Canada), Inc. (VEC).

The German Creek Property was staked in March of 1997 by Viceroy International Exploration (VIE) on open ground adjacent to the R-3 land selection of the Tr'on dek Hwech'in (TH). Subsequent to staking, the TH have expanded their land selection to encompass territory north of the claims, largely surrounding the property. A joint-venture agreement presented by VEC to the TH in March of 1998 with respect to their R-3 selection and the German Creek Property was never formerly agreed to. A socio-economic agreement between NovaGold and the TH is presently under negotiation.

The 1999 exploration program involved geological mapping, prospecting, and soil sampling across western, northern, and eastern extremities of the property.

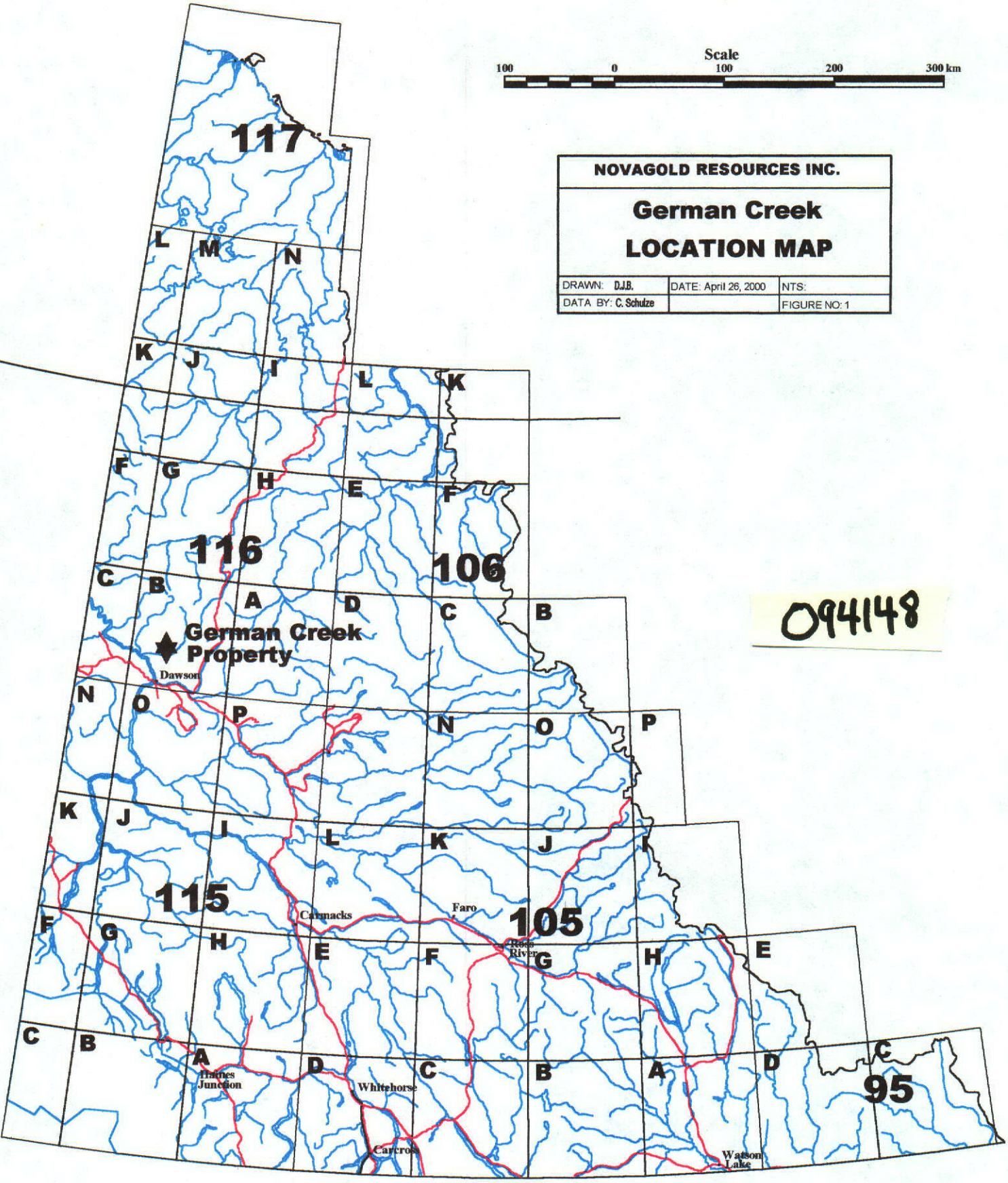
1.2 Location and Access

The German Creek Property is located roughly 30 kilometres north-northeast of Dawson City, Yukon Territory, centred at 64° 20' North latitude, 139° 17' west longitude on NTS Map Sheet 116 B/6. The Klondike Highway extends east-west roughly 30 kilometres south of the project, and the Dempster Highway extends north-south roughly 35 kilometres to the east. Access is currently by helicopter from Dawson City.

1.3 Physiography and Vegetation

The German Creek Project is underlain by unglaciated terrain of moderate relief, with gentle south facing slopes and moderate to steep north facing slopes. Bedrock exposure is limited, confined primarily to ridgetops and stream drainages. Deep gorges occur along parts of German Creek within the claim block; however, most of the property is amenable to surface exploration, including drilling.

Vegetative cover consists of spruce forests with lesser poplar and birch forests along dry south facing slopes. "Buckbrush" covers much of the ridgeline areas.


Scale
100
0
100
200
300 km
NOVAGOLD RESOURCES INC.
German Creek
LOCATION MAP
DRAWN: D.J.B.
DATE: April 26, 2000
NTS:
DATA BY: C. Schulze
FIGURE NO: 1
117
116
106
115
105
95
German Creek Property
Dawson
Carmacks
Faro
Ross River
Haines Junction
Whitehorse
Carcross
Watson Lake

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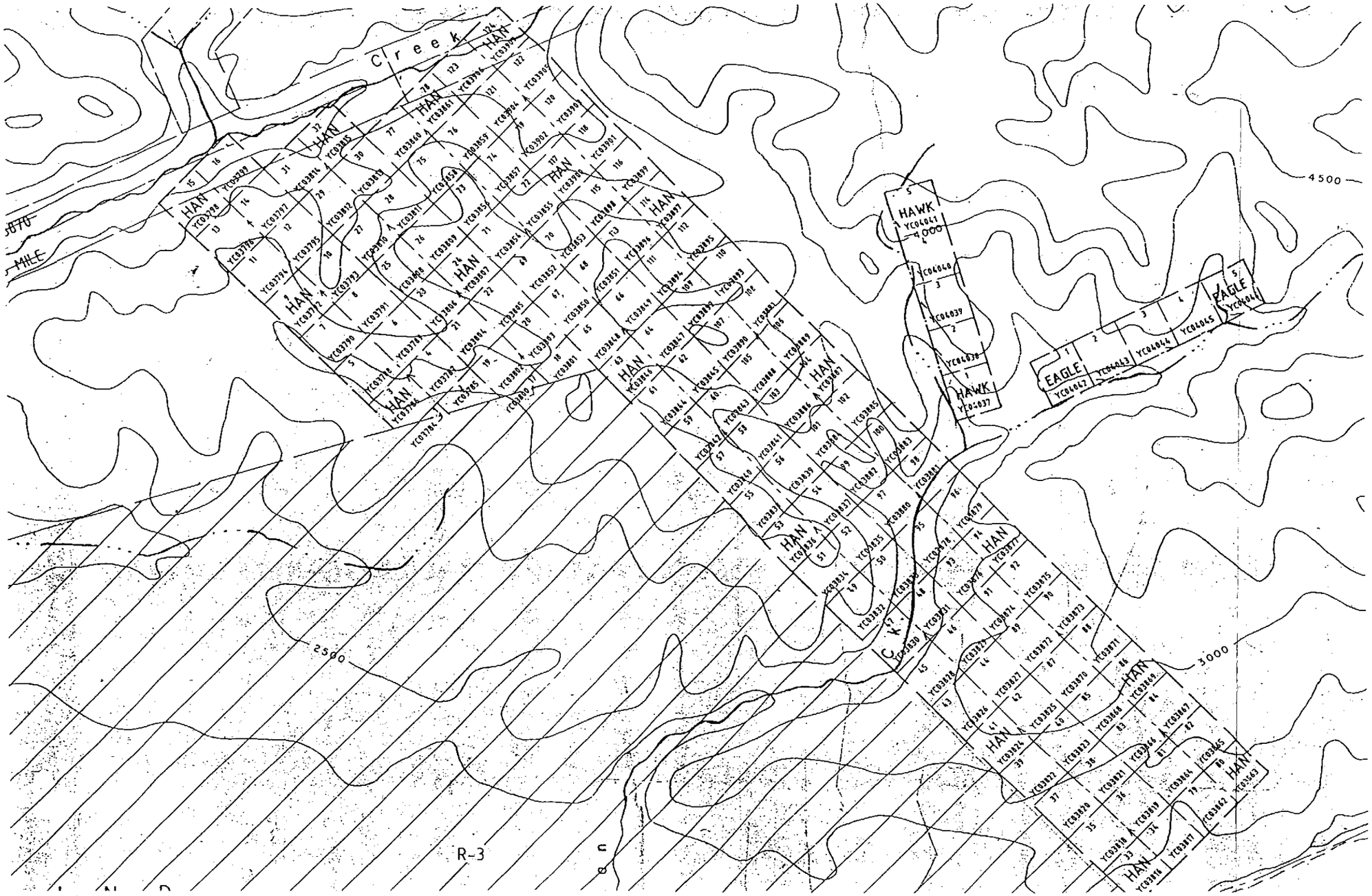


NOVAGOLD RESOURCES INC.	GERMAN CREEK CLAIM LOCATION MAP	DRAWN BY: -	SCALE: 1:45,750
		DATA BY: S.C., C.S.	NTS: 116B/6
		DATE: 04/24/98	FIGURE: 2

1.4 Regional Exploration History and Competitor Activity

A placer gold strike led to a small staking rush along lower German Creek in November 1901, accompanied by staking of several quartz claims. In April 1979, Anaconda Canada Exploration staked the STYX and SCYLLIA Claims to cover copper-lead-zinc and silver soil anomalies, and drilled four holes totalling 373 metres to test three EM conductors. Copper, zinc and silver background values within the core were sufficient to explain these anomalies. Noranda Exploration Company Ltd. staked the RMAN 1-44 Claims along the R-3 boundary in 1992, covering part of the area currently held by the HAN 1-124 Claims.

A silt sampling program conducted just north of the present claim boundary by MacKay-Falkiner and Associates for Loki Gold Mines in 1993 returned several strongly anomalous gold values to 380 ppb Au. Follow-up soil sampling in the area returned background gold values.

The HAWK 1-5 and EAGLE 1-5 Claims located north of the HAN Claims within the newly added portion of the R-3 Block are held by Douglas Jackson.

1.5 Property Exploration History

Viceroy originally met with the Tr'on dek Hwech'in (TH) in August of 1996 to discuss conduction of low-impact work on TH's R-3A land claim selection. As a result of this meeting, four WSW extending traverses totalling 9.5 km were conducted at a normal angle to the regional trend. Three anomalous intervals returning values of 28 ppb Au/ 700 metres, 122 ppb Au/ 200 metres, and 54 ppb Au/ 400 metres, associated with anomalous mercury, arsenic and antimony values, were returned. These results extend beyond the R-3 selection of the TH, onto open ground to the north. The results were presented to the TH in October of 1996. Following discussions with the TH, and at the recommendation of Viceroy, the TH submitted an enlargement of their R-3 block to the federal government in 1997. However, due to competitor activity in the area, Viceroy staked the HAN 1-124 claims to ensure its land holdings. In June of 1997, the TH reached an accord with the federal government on their land selections, including the R-3 block. The TH selected the R3A Block as Class A land, which gives them the right to both surface and mineral rights. In August of 1997, land selections were made public, indicating that the R-3A selection of TH had been expanded to encompass the Han claims. At this same time, Viceroy received verbal approval from Chief Taylor of TH to conduct low impact exploration on the property. In September of 1997 a soil sampling and preliminary geological mapping program along flagged traverse lines spaced 100 m apart was carried out over the property and adjacent parts of the R-3A TH land selection. A total of 11 rock, 1 silt, and 963 soil samples were collected.

A formal joint venture agreement presented to the TH in March of 1998 was never signed. NovaGold acquired a 100% interest with no underlying royalty in the HAN 1-124 claims in 1999 and conducted surface exploration later that year. NovaGold continues to pursue a socio-economic agreement with the TH regarding exploration across the R-3A land claim selections.

Table 1 below lists detailed claim status, including assessment status and expiry dates. Figure 2 is a claim location map showing recorded claim locations.

Table 1: Status of Han Claims after 1999 filing

Claim Name	Grant No.	Number of Claims	Owner	New Expiry Date
Han 001-040	YC03784-3823	40	NovaGold Resources Inc.	March 19, 2001
Han 041-065	YC03824-3848	25	NovaGold Resources Inc.	March 19, 2001
Han 066-086	YC03849-3869	21	NovaGold Resources Inc.	March 19, 2001
Han 087-110	YC03870-3893	24	NovaGold Resources Inc.	March 19, 2001
Han 111-124	YC03894-3907	14	NovaGold Resources Inc.	March 19, 2001

1.6 1999 Work Program

The 1999 NovaGold exploration program consisted of a series of reconnaissance-style traverses across extreme western and eastern property areas not previously covered by Viceroy, as well as a traverse along the north-central property boundary. Traverses involved systematic B-horizon soil sampling at 100-metre intervals, silt and rock sampling, prospecting, and geological mapping. A total of 11 rock, 9 silt and 98 soil samples were taken in 1999.

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 standardised 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

The following personnel were employed at the German Creek Project:

Rick VanNieuwenhuyse	President
Greg Johnson	North American Manager
Carl Schulze	Project Manager
Serguei Soloviev	Geologist
Stephen Erdman,	Technician

Helicopter services were provided by Karl Scholz of Fireweed Helicopters.

CHAPTER 2: GEOLOGY

2.1 Regional Geology

The German Creek 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 northeast. 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. 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.

In the German Creek area, the lowest members of this sequence belong to the Hyland Group, consisting of coarse clastic, frequently calcareous sediments as well as fine grained, frequently calcareous thinly bedded shale, argillite, phyllite, and minor limestone (Table 2). Extensive units of Menzie Creek Volcanics, primarily andesite and basalt, comprising part of the Cambrian to Ordovician Rabbitkettle Formation, occur in the area. Broad sequences of Ordovician to Early Devonian Road River Group chert and siltstone occur throughout the Selwyn Basin, including the German Creek area, often in thrust fault contact with Devonian to Mississippian Earn Group argillite and siltstone.

The Mid-Cretaceous Tombstone-Tungsten Suite (95-89 Ma) has been emplaced within the Selwyn Basin. Intrusives of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City, Yukon to the Yukon-NWT border. Intrusives are believed to control much of the gold emplacement within the Selwyn Basin. Several Tombstone Suite stocks and abundant monzonite dykes occur in the German Creek area.

The German Creek Project is located within a compressional tectonic regime, consisting of abundant east-west trending, gently to moderately south dipping thrust faults. Monzonitic dykes trending roughly east-west may reflect the strike direction of these faults. The compressional event was followed by an extensional tectonic event, resulting in north-northwest and northeast trending normal and reverse faulting throughout the Selwyn Basin.

2.2 Property Geology

The geology of the property is fairly complex and not well understood due to limited exposure. A large unit of Road River Group (OSDr) composed of Duo Lake and Steel Formation chert and siltstone has been thrust over Earn Group (DMe) Lower Portrait Lake Formation argillite and siltstone and have been isolated as a klippe (Figure 4). Breccia zones within both the Road River Group chert and the Earn Group siltstone extend along the inferred thrust fault contact. The Earn Group sediments are intruded by a series of ESE trending quartz monzonite sills (Kqm), which have not been recognised in the Road River sediments. These sills and dykes have intruded Road River Group sediments of the klippe within east-central regions, and within Earn Group sediments stratigraphically below the klippe to the south. Numerous sills occur within Earn Group sediments to the north of the area explored in 1997.

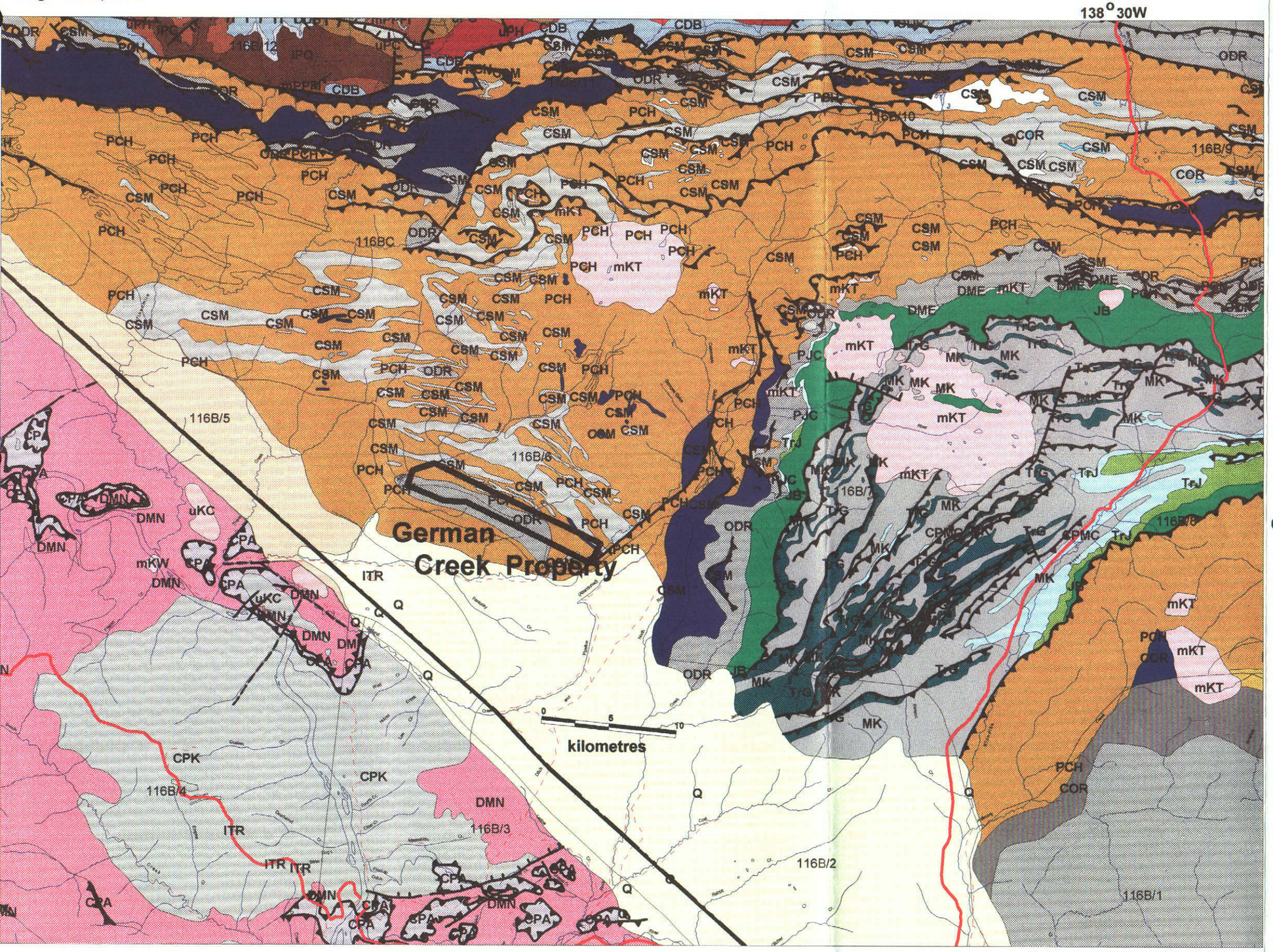
To the north of the klippe, along the north boundary of the HAN Claims, Earn Group sediments lie unconformably over Hyland Group (PrCh) sediments, suggesting thrust faulting. The Hyland Group sediments are intruded and overlain by Menzie Creek (COm) basaltic and andesitic members. An extensive sequence of the Menzie Creek Volcanics extends north-east of the German Creek Project.

An ESE trending, gently SSW dipping thrust fault regime appears to extend across the project area. This may control emplacement of the quartz-monzonitic sills across eastern portions of the project.

TABLE 2: GERMAN CREEK AREA STRATIGRAPHIC COLUMN

Age	Group	Formation (Lithology)	Geology Map Designation	Rock Code	Description
Mid-Cretaceous	Tombstone Plutonic Suite (Selwyn Plutonic Suite)	Monzonite, Quartz Monzonite Coeval South Fork Volcanics	Kqm, Kg	QM, MO	Felsic to intermediate quartz monzonitic, monzonitic, to quartz dioritic intrusives. The name "Selwyn Suite" often applies to eastern portion of the suite. Anvil Intrusives and coeval South Fork Volcanics now considered part of Tombstone Suite; varying phases due to different fractionation states rather than a separate major intrusive event.
Devonian - Mississippian	Earn Group	Prevost Formation	DMp (Dme)	CH, ARG ARGG	Brown weathering shale, grey to grey-brown weathering chert-pebble conglomerate, dark grey-black chert-quartz sandstone.
Devonian	Earn Group	Portrait Lake Formation	Dp (Dme)	CH, ARG, ARGG	Argillite, chert, minor sandstone and conglomerate. Black siliceous argillite form lower member. May contain minor greywacke, siltstone and baritic horizons.
Ordovician-Early Devonian	Road River Group	Steel Formation	(OSDr)	SS	Weakly to moderately calcareous orange weathering mudstone to siltstone, often bioturbated reflecting oxygenated bottom water conditions. Baritic horizons often form distinctive upper members near top of formation.
Ordovician-Early Devonian	Road River Group	Duo Lake Formation	Osd (OSDr)	CH, SLT, ARG	Black argillite and massive to thick bedded chert, weathers bluish white, local tan limonitic weathering.
Cambrian-Ordovician	Rabbitkettle (Road River?)	Menzie Creek Volvanics	Com	BAS, AND	Mafic tuffs, flow, breccias. Dark calcareous amygdaloidal flows, tuffs and volcanic breccia. Primarily andesitic, lesser basaltic members. Highly altered with calcite and zeolite filled Amygdules, thin limestone interbeds. Possible unconformity with overlying Steel Formation.
Cambrian - Early Ordovician		Rabbitkettle Formation	COr	LST, SLST	Buff-tan weathering thin-medium bedded limestone, lesser slate, quartzite, phyllite, limestone, local basalt flows, tuffs, breccias.
Late PreCambrian to Early Cambrian	Hyland Group	Narchilla Formation	Can (PrCh)	PHY, ARG	Maroon, brown, black, green thin bedded argillite, phyllite, siltstone. Lesser light brown weathering "grit" and sandstone. Minor limestone to sandy limestone.
Late PreCambrian to Early Cambrian	Hyland Group	Yusezyu Formation	Py (PrCh)	PHY, ARG	Variably calcareous siltstone, sandstone, conglomerate, locally calcareous "grits". Also abundant members comprised of phyllite, argillite, shale, lesser limestone.

Produced by Blackfox Minerals Ltd.
August 10th, 2000



Derived from Yukon Digital Geology; Albers Yukon Projection

NovaGold Resources Inc.

Regional Geology
German Creek Property
LEGEND

Quaternary
Q unconsolidated material

Lower Tertiary
ITR Ross mixed bimodal volcanics

Upper Cretaceous
uKC Carmacks basic volcanics

Mid Cretaceous
mKT Tombstone felsic intrusives
mKW Whitehorse Suite granites

Jurassic
JB Bug Creek shales and s andstone

Triassic
TrG Galena Suite diorite, gabbro sills, grnstn
TrJ Jones Lake calcareous sandstone, shale

Carboniferous and Permian
CPK Klondike Schist metapelites & volcanics
CPMC Mount Christie cherty shales & shale
CPA Anvil mafic volcanics, chert pelite, lmst

Mississippian
MK Keno Hill massive quartz arenite

Devonian and Mississippian
DME Earn submarine fans & channel deposits
DMN Nasina quartzite and schist

Ordovician to Lower Devonian
ODR Road River-Selwyn shale, chert, lmstn

Cambrian to Silurian
CSM Marmot mafic volcanics

Upper Cambrian and Ordovi cian
COR Rabbitkettle basinal limestone

Lower Cambrian
ICG Gull Lake fine clastics with volcanics

Upper Proterozoic
PCH Hyland clastics and limestone

faults

thrust faults

N
W E
S

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CHAPTER 3: MINERALIZATION

3. 1 Introduction

Anomalous gold values to 128 ppb Au were returned from silt sampling along lower German Creek. This resulted in a detailed silt sampling program in 1993 which returned strongly anomalous gold values to 380 ppb Au from several streams draining quartz-monzonite dykes intruded into Earn Group sediments. Follow-up soil traverses failed to return significant gold values, however not all potential source terrain was tested. The 1996 VIE soil traverse program returned several significant anomalous intervals, resulting in the acquisition of the Han claims.

3.2 *Property Mineralization*

There are two major potential mineralized settings within the German Creek Project: fracture, breccia, and structurally controlled mineralization within Earn and Road River Group sediments; and dyke hosted mineralization. (Figure 4). All significant gold values from rock and soil sampling appear confined to the south-central portion of the Han claims and adjoining R-3 land to the south. This area is underlain by the thrust fault bounded klippe incised by the German Creek valley, as well as many of the Cretaceous dykes.

Structurally controlled mineralization is subdued and occurs as limonitic stringers within microfractured sediments that follow the thrust fault contact isolating the Road River Group sediments as a klippe overlying the Earn Group sediments. Mineralization occurs as hematite in healed fractures of chert and argillite breccias with occasional trace pyrite and arsenopyrite. Three rock samples in brecciated Earn Group argillite along the thrust fault displayed anomalous values from 95 to 195 ppb Au. Most of the significant anomalous soil intervals, with values to 28 ppb Au/ 700 metres, and individual values from a separate traverse to 1,090 ppb Au, are spatially related to the klippe contact. The distribution of anomalous samples appears to be sporadic, but this is most likely due to the presence of thick organic horizons, loess and discontinuous permafrost.

Pyrite, weathered to limonite, is found in the majority of the quartz monzonite sills. Significant anomalous intervals along soil sampling traverses including values of 54 ppb Au/ 400 metres are spatially related to dyke emplacement. A value of 86 ppb Au/ 200 metres towards the centre of the klippe may reflect the presence of a yet undiscovered dyke. However, rock geochemical values returned were low, with a maximum value of 30 ppb Au. Anomalous soil values from traverses across dykes south of the klippe returned values to 53 ppb Au/ 50 metres. A value of 57 ppb Au/ 650 metres was returned from a traverse extending across both the klippe contact and a monzonitic dyke.

The NovaGold 1999 exploration program concentrated on geological and geochemical surveying outside of the Viceroy exploration program. However, several samples of brecciated, silicified and limonitic chert taken across the central anomalous region returned anomalous gold values to 404 ppb Au, with anomalous arsenic to 0.16% As and up to 83 ppm Sb. These are located slightly east of a gold in soil intersection of 54 ppb Au/ 400 metres. Soil sampling in 1999 1.5 kilometres to the east, just east of German Creek, returned a value of 74 ppb Au with 4.5 gpt Ag, weakly elevated lead, zinc and arsenic values of 107 ppm Pb, 151 ppm Zn and 345 ppm As, and strongly elevated antimony values to 117 ppm Sb. Sampling 300 metres to the north delineated a weaker anomaly with gold values to 28 ppb Au, with a similar, proportional pathfinder signature. A silt sample taken from the extreme southeast area returned 18 ppb Au.

NovaGold determined that the limonitic brecciated chert and associated strong gold-in-soil anomalies suggest significant mineralization may occur within central areas and the surrounding R-3A Land Claim blocks. Permafrost and locally heavy overburden, particularly along the north slope, may result in "subdued" geochemical anomalies, with lower values than would be expected from non-frozen terrain. The newly recognised soil anomaly east of German Creek may represent significant underlying mineralization. However, power auger drilling is

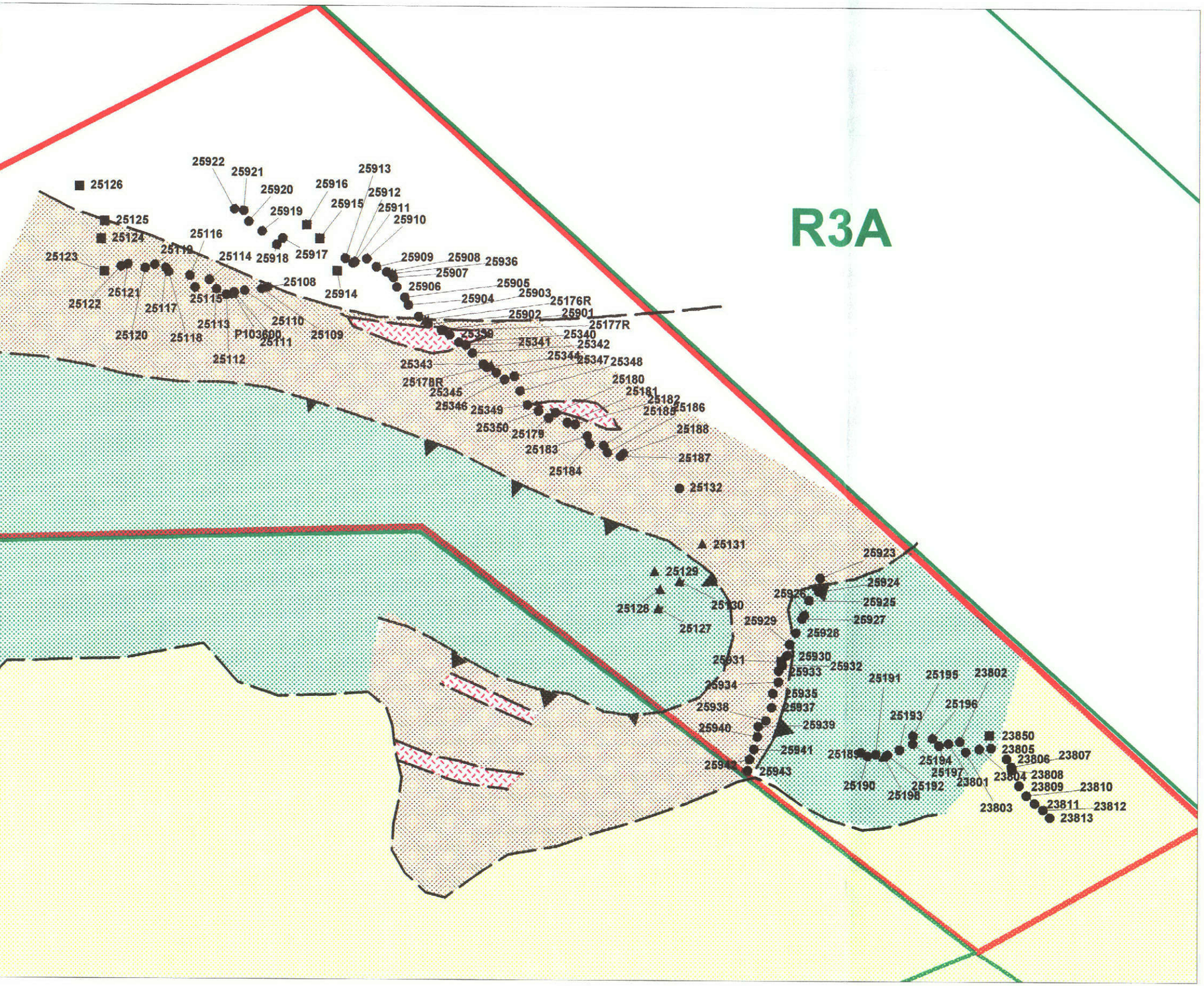
necessary for more accurate determination of gold presence. No evidence of mineralization was found outside of the central area.

3.3 Geochemistry

Most of the soil intervals returning anomalous gold values also returned weakly to moderately elevated arsenic and antimony, and strongly elevated mercury values, a signature similar to that of Brewery Creek. However, anomalous gold values coinciding with a monzonitic dyke returned only weakly elevated mercury values; the Au:Hg ratio elsewhere from samples spatially related to intrusives is usually higher than that for sediment hosted fracture controlled mineralization. The anomalous values obtained from Line GCL located in the centre of the klippe returned only weakly anomalous mercury, suggesting the presence of a dyke. Trace element analysis of rock sampling displayed a similar pattern, with low mercury values returned from the dykes, and strongly elevated mercury values to 1000 ppb Hg returned from brecciated Earn Group sediments. Thus, the variability in Au:Hg ratios may be used as a tool to define mineralogic settings.

NOVAGOLD RESOURCES INC

Property Geology and Sample Locations



GEOLOGICAL LEGEND	STRUCTURAL SYMBOLS
Cretaceous Intrusives (Kqm)	Geological contact, undefined.
Devonian-Mississippian Earn Group (DMe)	Geological contact, defined.
Ordivician-Silurian Road River (OsDr)	Thrust fault, known, "teeth" indicate down-dip direction
Cambrian-Ordivician Rabbitkettle Fm. (COr)	Thrust fault, assumed, "teeth" indicate down-dip direction.
Pre-Cambrian Hyland Group (PrCh)	Bedding (primary feature)
Quaternary Sediments	Bedding (vertical)
	Joint
	Joint (vertical)
	Faults.
	OTHER SYMBOLS
	Rock Sample
	Soil Sample
	Silt Sample
	Intermittant Stream
	Permanent Stream
	Cliff
	Talus
	Outcrop

UTM NORTH

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CHAPTER 4: CONCLUSION

The German Creek Project is located within Selwyn Basin stratigraphy, consisting of Late Precambrian to Mississippian shelf and off-shelf sediments derived from the ancient North American Platform. A regional compressional event has resulted in widespread ESE trending, gently SSW dipping thrust faults. This sequence has been intruded by stocks, plutons, and dykes of the Mid-Cretaceous Tombstone Suite. Locally, a package of Road River Group siltstone and chert has been isolated by thrust faulting into a klippe, overlying Earn Group argillite and siltstone, deeply incised by the German Creek gulch. North of the klippe, Earn Group sediments overlie Hyland Group sediment, with Menzie Creek basaltic to andesitic volcanics occurring further north. Quartz monzonite dykes extend ESE across the eastern parts of the project area.

The HAN 1-124 Claims were staked to cover open ground adjacent to the R-3 Land Claim selection held by the Tr'on dek Hwech'in (TH). Viceroy International Exploration (VIE) originally met with the TH in August 1996 to discuss low impact exploration across the R-3 selection. Favourable results were returned from four traverses extending across the R-3 selection as well as land currently held as the Han claims. The R-3A land selection, made upon recommendation by VIE, currently encompasses the Han claims to the north. A formal joint venture agreement was presented to the TH in March 1998, and is still under discussion.

Results of geological mapping, soil and rock sampling suggest two potential mineralogical settings resulting from one widespread hydrothermal mineralizing event. These settings are: 1) intrusive hosted mineralization within Tombstone Suite monzonitic to quartz-monzonitic dykes; and 2) structurally controlled mineralization within fractured to brecciated Earn and Road River Group sediments. Results of soil sampling traverses across dyke hosted mineralization include 54 ppb Au/400 metres, and 69 ppb Au/400 metres. Results across the klippe contact zone include 23 ppb Au/ 600 metres, 28 ppb Au/ 700 metres, and 294 ppb Au/ 150 metres. A value of 57 ppb Au/ 650 metres was returned from a traverse across both settings; and values of 86 ppb Au/200 metres and 122 ppb Au/200 metres were returned from suspected dyke hosted mineralization within the klippe.

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NovaGold determined that the limonitic brecciated chert and associated strong gold-in-soil anomalies suggest significant mineralization may occur within central areas and the surrounding R-3A Land Claim blocks. Permafrost and locally heavy overburden, particularly along the north slope, may decrease observed values that would be higher in non-frozen terrain. The newly recognised soil anomaly east of German Creek may represent significant underlying mineralization. However, power auger drilling is necessary for more accurate determination of gold presence. No evidence of mineralization was found outside of the central area.

Expenditures applicable for assessment credits incurred in 1999 total $9,000.

CHAPTER 5: RECOMMENDATIONS

The 2000 NovaGold exploration program is recommended to consist of additional systematic surface exploration, comprised of geological mapping, prospecting, and "in-fill" soil sampling, possibly utilising power augers in areas of permafrost or thick overburden. This program shall extend across central areas including areas near the 1999 soil anomalies east of German Creek. If encouraging geochemical results are returned where exposure is limited, resulting in failure to delineate surface mineralization, a surface magnetometer and electromagnetic survey are recommended.

This program is designed to determine targets for mechanized trenching. Favourable results from the surface exploration and trenching phases shall lead to delineation of exploration-style diamond drill targets.

The pending socio-economic accord with the Tr'on dek Hwech'in First Nation should be completed as soon as possible, enabling NovaGold to extend exploration onto prospective areas of the R-3A land packages.

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STATEMENT OF QUALIFICATIONS

I, Carl M. 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 1999 exploration program and continue to function as agent for NovaGold through my consulting firm, Wolf Star Resources.

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

3) I have been practising my profession as a geologist 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 am a member of the Yukon Prospectors Association.

Carl M. Schulze
Consulting Geologist
Wolf Star Resources

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Carl M. Schulze
Consulting Geologist
Wolf Star Resources

APPENDIX 1

APPLICABLE EXPENDITURES FOR ASSESSMENT CREDITS

German Creek Property (Han 1-124) Expenditures	
Description	**Expenditure**
Labour	$2,800
Project preparation, compilation	560
Geochemical Analyses	2,233
Helicopter	1,800
Map production, report writing	1,507
Total	**$9,000**

APPENDIX 2

ROCK SAMPLE GEOCHEMICAL RESULTS

ROCK SAMPLE DESCRIPTION SHEET

Sample No.	Easting	Northing	Traverse	Zone	Sample Type	Width (m)	Sample Descr.	Form.	Lithology	Modifier	Colour	Carb. Presence	Silicification	Argillic Alt.	Potassic Alt.	Phyllic Alt.	Limonite	Mineral #1	Amount %	Mineral #2	Amt %	Other Mineral	Amt %	Date	Sampler	Comments
25127	584098	7134703	99GC7	7	CG		Rc		CH	frac	lgrey		S1	A1			mod								SS	QLim veinlets
25128	584118	7134881	99GC7	7	CG		Rc		CH	brec	tan		S2	A1			str								SS	Lim hols
25129	584064	7135048	99GC7	7	CG		Rc		CH	brec	tan		S2	A1			str								SS	Lim hols
25130	584294	7134952	99GC7	7	G		Ta		CH	brec	grey		S1	A1			mod								SS	QLim veinlets
25131	584503	7135303	99GC7	7	G		Ta		CH	brec	tan		S2	A1			str								SS	QLim veinlets
25176R	581927	7137370	99GC2	7	CG		Rc	Kqm	QFM	QFP	grey					Ph1	tr	P	1					08-05-99	C.S.	Fine, stringer controlled pyrite
25177R	582092	7137270	99GC2	7	CG		Rc	Kqm	QFM	brec	buff			A1		Ph2	wk	P	2					08-05-99	C.S.	F. gr. dissem, unoxidised pyrite
25178R	582544	7136947	99GC2	7	CG		Rc	Kqm	QFM	mass	blue-gry		S1	A1		Ph2	wk	P	3					08-05-99	C.S.	VFG dissem Py, not oxidised
25198	586197	7133334	99GC6	7	CG		Rc	OSDr	BAS	frac	tan	C1	S1				str	P	1					08-06-99	C.S.	Finely fractured +/- pyrite; Qz veins
25936	581618	7137801	99GC3	7	CG																			08-05-99	SS	
P103600	580139	7137609	99GC1	7	CG		Rc		LAQM	frac	grey			A1			mod								SS	Lim along fractures

ROCK SAMPLE DESCRIPTION SHEET

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	%	%	%	%	%	%	%	%
25127	14	<0.1	30	5	23	190	10	<3	<1	<10	<2	<0.1	2	6	67	<5	69	4	120	2	5	1	1	<0.01	0.09	0.04	0.63	0.02	0.06	0.02	0.01
25128	404	<0.1	97	7	48	1569	83	<3	<1	<10	<2	0.4	2	10	173	<5	95	8	328	2	30	2	4	<0.01	0.11	0.02	2.1	0.01	0.04	0.02	0.02
25129	85	<0.1	16	5	70	81	18	<3	<1	<10	<2	<0.1	2	19	61	<5	130	3	178	<5	5	1	3	<0.01	0.08	0.01	1.23	0.01	0.04	0.02	0.01
25130	62	<0.1	19	3	33	112	11	<3	1	<10	<2	<0.1	1	6	156	<5	83	6	82	4	8	1	1	<0.01	0.13	0.01	1.23	0.01	0.08	0.02	0.01
25131	<5	<0.1	61	15	168	58	23	<3	<1	<10	<2	0.2	5	33	186	<5	138	6	1271	3	7	<1	2	<0.01	0.13	0.01	2.29	0.01	0.08	0.02	0.02
25176R	<5	<0.1	5	43	37	20	<5	<3	1	<10	<2	<0.1	1	4	152	<5	79	2	51	26	28	11	1	<0.01	0.28	0.1	0.68	0.01	0.22	0.04	0.08
25177R	<5	0.1	8	43	48	39	<5	<3	1	<10	<2	<0.1	1	4	258	<5	81	2	50	30	28	6	2	<0.01	0.51	0.09	1.19	0.03	0.31	0.05	0.09
25178R	<5	<0.1	6	43	52	22	<5	<3	1	<10	<2	<0.1	<1	5	466	<5	59	2	36	23	34	5	1	<0.01	0.39	0.16	1.32	0.02	0.36	0.05	0.1
25198	<5	<0.1	53	30	132	40	<5	<3	4	<10	<2	0.1	55	114	807	<5	56	78	2295	34	226	5	9	<0.01	2.45	3.38	8.56	1.05	0.2	0.04	0.45
25936	<5	<0.1	38	12	121	26	<5	<3	1	<10	<2	1.8	28	122	148	<5	91	59	1021	14	234	4	13	<0.01	2.5	8.4	6.73	2.01	0.19	0.04	0.16
P103600	<5	0.1	7	50	27	22	<5	<3	1	<10	<2	<0.1	1	3	112	6	55	3	33	25	22	7	1	<0.01	0.36	0.14	1.01	0.02	0.33	0.04	0.11

APPENDIX 3

SOIL SAMPLE GEOCHEMICAL RESULTS

SOIL SAMPLE DESCRIPTION SHEET

Sample No.	Easting	Northing	Traverse	Zone	Horizon	Depth (cm)	Slope Angle	Colour	ermafro (yes/no?	% Coar agments	Vegetation	Surficial Geology	Frag. Lithology	% Organic	Date	Sampler	Comments
23801	586800	7133457	99GC6	7	B	40	GEN	GR-BRN	N	35	CON	TILL	MIXED	5	08-06-99	C.S.	Till, B-horizon
23802	586904	7133472	99GC6	7	B	30	GEN	GRY	N	30	CON	TILL		10	08-06-99	C.S.	Very wet, poss thawed pfrost
23803	586959	7133378	99GC6	7	B	40	GEN	GRY	N	25	CON	COV	BAS	5	08-06-99	C.S.	Colluvium + till
23804	587083	7133407	99GC6	7	B	40	GEN	GRY	N	20	CON	COV	BAS	5	08-06-99	C.S.	Wet, poss. till + colluvium
23805	587196	7133414	99GC6	7	B	30	ST	RED	N	25	CON	RC		10	08-06-99	C.S.	Outcrop near stream
23806	587338	7133316	99GC6	7	B	30	GEN	LT BRN	N	15	CON	COV		5	08-06-99	C.S.	Colluvium + till
23807	587383	7133238	99GC6	7	B	35	GEN	LT BRN	N	10	CON	COV	BAS	5	08-06-99	C.S.	Well developed B-horizon
23808	587387	7133213	99GC6	7	B	30	GEN	LT BRN	N	5	CON	COV		5	08-06-99	C.S.	
23809	587455	7133066	99GC6	7	B	35	GEN	GRY	Y	<5	CON	LOESS?		5	08-06-99	C.S.	Permafrost at 35 cm
23810	587522	7132974	99GC6	7	B	15	MOD	RED	N	10	CON	RC	DIAB	5	08-06-99	C.S.	70m SE of 23809S, O/c nearby
23811	587599	7132904	99GC6	7	B	35	SL	GRY	N	5	CON	COV	BAS	5	08-06-99	C.S.	Fine red stain near basalt frags
23812	587676	7132843	99GC6	7	B	15	GEN	BUFF	N	10	CON	RC	SH	5	08-06-99	C.S.	Thin soil overlying rcrop
23813	587739	7132770	99GC6	7	B	30	GEN	TAN	N	5	CON	COV	SH	5	08-06-99	C.S.	Well developed B-horizon
25108	580460	7137668	99GC1	7	BC	30	L	brown	N	5	SF		CH	5	08-05-99	SS	
25109	580405	7137652	99GC1	7	C	40	L	tan	N	5	SF		CH	5	08-05-99	SS	
25110	580246	7137637	99GC1	7	BC	30	L	buff	N	5	SF		CH	5	08-05-99	SS	
25111	580149	7137621	99GC1	7	BC	20	M	brown	N	5	TREES		QM	10	08-05-99	SS	
25112	580078	7137596	99GC1	7	BC	30	M	tan	N	5	PINE		QM	10	08-05-99	SS	
25113	579987	7137650	99GC1	7	BC	40	M	tan	N	5	PINE		QM	10	08-05-99	SS	
25114	579918	7137735	99GC1	7	BC	30	M	tan	N	5	PINE		QM	10	08-05-99	SS	
25115	579786	7137664	99GC1	7	C	30	M	tan	N	5	PINE		QM	5	08-05-99	SS	
25116	579739	7137775	99GC1	7	BC	20	M	grey	N	5	TREES		QM	10	08-05-99	SS	
25117	579515	7137842	99GC1	7	C	20	M	tan	N	10	PINE		QM	10	08-05-99	SS	
25118	579540	7137811	99GC1	7	BC	30	M	grey	N	10	PINE		QM	10	08-05-99	SS	
25119	579410	7137871	99GC1	7	C	20	M	lbrown	N	10	TREES		QM	10	08-05-99	SS	
25120	579320	7137844	99GC1	7	BC	30	M	dgrey	N	10	TREES		QM	15	08-05-99	SS	
25121	579161	7137875	99GC1	7	B	40	M	black	Y	5	TREES		SLT	40	08-05-99	SS	Bad quality sample (high organics %
25122	579096	7137857	99GC1	7	B	40	M	black	Y	5	TREES		SLT	40	08-05-99	SS	Bad quality sample (high organics %
25132	584290	7135819	99GC4	7	BC	30	L	tan	N	5	PINE		VOLC?	5	08-05-99	SS	
25179	583076	7136465	99GC2	7	B	35	MOD	BRN	N	20	CON	COV	SH/CH	15	08-05-99	C.S.	Possibly overlain by loess
25180	583139	7136514	99GC2	7	B	30	MOD	GRY	Y	10	CON	COV		20	08-05-99	C.S.	Frozen grey layer under "A"hor
25181	583248	7136423	99GC2	7	A-B	35	MOD	BRN	N	10	CON	RC	QM	35	08-05-99	C.S.	Sparse soil between boulders
25182	583320	7136409	99GC2	7	B	25	MOD	GRY	Y	20	CON	COV	QM	15	08-05-99	C.S.	Large QM fragments
25183	583432	7136301	99GC2	7	C	30	GEN	GRY	N	25	CON	COV	SH	10	08-05-99	C.S.	Large overlying QM cobbles
25184	583458	7136227	99GC2	7	B	25	GEN	RD-BRN	N	15	CON	COV	QM	15	08-05-99	C.S.	
25185	583585	7136212	99GC2	7	B	30	GEN	BRN	N	10	CON	COV	QM	10	08-05-99	C.S.	Minor shale fragments
25186	583619	7136146	99GC2	7	B	25	MOD	RD-BRN	N	20	CON	COV	SH	10	08-05-99	C.S.	East facing slope
25187	583741	7136111	99GC2	7	B	30	MOD	BRN	N	20	CON	COV	BAS	10	08-05-99	C.S.	Coarse colluviom (Menzie Ck)
25188	583768	7136138	99GC2	7	A-B	20	ST	RED	N	5	CON	RC	BAS	20	08-05-99	C.S.	Red fine soil between cobble
25189	585987	7133367	99GC6	7	C	20	HTOP	TAN	N	30	CON	RC	BLK CH	5	08-06-99	C.S.	Overlain by thin "B-horizon"
25190	586050	7133338	99GC6	7	C	25	GEN	TAN	N	25	CON	RC	SH	5	08-06-99	C.S.	Very thin "B-horizon"
25191	586125	7133350	99GC6	7	C	35	GEN	BUFF	N	25	CON	COV	SH	5	08-06-99	C.S.	High clay content
25192	586236	7133348	99GC6	7	B	35	GEN	TAN	N	10	CON	COV	BAS	20	08-06-99	C.S.	Large Menzie Ck fragments
25193	586346	7133394	99GC6	7	B	35	GEN	GRY	Y	15	CON	COV	BAS	10	08-06-99	C.S.	High clay content, deeper pfrost
25194	586469	7133453	99GC6	7	B	35	FLAT	GR-BRN	N	5	CON	LOESS	BAS	5	08-06-99	C.S.	Poss mixed B-hor + loess
25195	586470	7133527	99GC6	7	B	35	FLAT	GR-BRN	N	<5	CON	LOESS		5	08-06-99	C.S.	Reddish areas in loess
25196	586650	7133502	99GC6	7	A-B	30	GEN	GR-BRN	Y	<5	CON	LOESS		25	08-06-99	C.S.	Thin, grey "B-hor" over pfrost
25197	586712	7133437	99GC6	7	B	30	GEN	GRY	N	30	CON	TILL	MIXED	10	08-06-99	C.S.	Till, loess, poss. some B-horizon
25339	582156	7137234	99GC2	7	C	25	GEN	LT BRN	N	35	BB	COV	CH	10	08-05-99	C.S.	Some Qz. Mon. Flt overlies chert
25340	582242	7137162	99GC2	7	C	25	GEN	LT BRN	N	35	BB	COV	SH	5	08-05-99	C.S.	Thin, red "B" horizon
25341	582307	7137138	99GC2	7	B	35	MOD	RD-BRN	N	20	BB	COV	SH	10	08-05-99	C.S.	Minor, overlying AQM horizon
25342	582368	7137062	99GC2	7	C	40	MOD	RD-BRN	N	20	BB	COV	LQM	10	08-05-99	C.S.	Smaller shale fragments
25343	582471	7136961	99GC2	7	C	25	MOD	BRN	N	25	BB	COV	BLK CH	10	08-05-99	C.S.	Shallow soil development

SOIL SAMPLE DESCRIPTION SHEET

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	%	%	%	%	%	%	%	%
23801	<5	0.2	31	29	120	49	<5	<3	2	<10	<2	1	17	56	344	<5	51	57	782	22	32	3	5	0.06	1.81	0.57	3.44	0.6	0.09	0.03	0.07
23802	5	0.2	26	26	126	49	<5	<3	1	<10	<2	1	17	52	449	<5	56	61	556	18	57	4	4	0.07	1.83	1.15	3.36	0.69	0.07	0.03	0.11
23803	6	0.3	40	37	137	53	<5	<3	2	<10	<2	1.1	18	63	405	<5	59	64	627	27	45	4	7	0.06	2.09	0.78	3.97	0.68	0.1	0.03	0.1
23804	<5	0.2	34	30	126	60	<5	<3	<1	<10	<2	1.2	17	60	449	<5	61	61	705	22	49	4	6	0.05	2.17	0.93	3.69	0.74	0.09	0.03	0.1
23805	<5	0.2	44	28	115	73	<5	<3	2	<10	<2	0.5	29	73	633	<5	55	125	563	15	25	8	5	0.25	3.23	0.63	5.74	1.01	0.13	0.03	0.13
23806	6	0.2	21	19	77	56	<5	<3	1	<10	<2	1.2	11	35	397	<5	40	62	355	18	28	4	4	0.05	2.05	0.47	2.99	0.56	0.06	0.03	0.05
23807	<5	<0.1	18	15	73	52	<5	<3	2	<10	<2	0.6	12	31	366	<5	37	60	435	14	34	3	4	0.04	1.94	0.6	3.01	0.55	0.05	0.03	0.05
23808	<5	0.1	37	23	93	47	<5	<3	2	<10	<2	1.2	16	58	481	6	57	63	452	16	44	5	5	0.05	1.92	0.81	3.6	0.75	0.05	0.03	0.09
23809	7	0.3	27	23	70	43	<5	<3	3	<10	<2	0.8	11	34	347	7	38	54	261	13	41	3	4	0.04	1.59	0.8	2.78	0.53	0.05	0.03	0.07
23810	<5	0.1	31	19	123	70	<5	<3	2	<10	<2	2.4	15	37	890	<5	45	86	426	16	70	4	5	0.05	2.35	1.32	3.83	0.54	0.17	0.05	0.08
23811	7	0.1	29	21	96	49	<5	<3	1	<10	<2	0.6	18	42	907	<5	48	69	385	14	51	4	5	0.05	1.92	1.05	3.76	0.74	0.07	0.03	0.08
23812	<5	1.2	13	18	92	50	<5	<3	5	<10	<2	1	5	23	585	<5	34	189	152	15	19	2	3	0.03	2.04	0.12	2.42	0.26	0.06	0.03	0.02
23813	9	0.3	44	23	79	47	<5	<3	4	<10	<2	0.8	10	36	772	<5	38	73	212	15	29	10	6	0.07	1.65	0.22	2.96	0.48	0.1	0.03	0.02
25108	<5	0.1	26	22	54	78	<5	<3	6	<10	<2	0.3	8	23	139	<5	33	109	243	14	13	4	4	0.06	2.35	0.1	3.36	0.33	0.05	0.03	0.03
25109	<5	0.1	23	23	56	73	<5	<3	6	<10	<2	0.4	8	21	350	5	41	133	207	15	30	4	4	0.07	2.57	0.11	3.99	0.35	0.06	0.03	0.05
25110	5	<0.1	23	18	66	62	<5	<3	2	<10	<2	1.5	11	27	110	<5	33	61	257	12	11	3	4	0.05	2.06	0.1	2.85	0.47	0.06	0.03	0.02
25111	<5	0.2	13	34	93	47	<5	<3	2	<10	<2	1.1	5	13	144	<5	14	52	388	11	15	1	1	0.01	1.56	0.13	2.34	0.13	0.06	0.02	0.05
25112	6	<0.1	16	27	110	59	<5	<3	1	<10	<2	0.6	6	21	128	5	25	59	262	11	14	1	2	0.03	2.02	0.11	3.96	0.35	0.06	0.02	0.05
25113	<5	0.1	13	25	95	50	<5	<3	4	<10	<2	<0.1	7	18	132	<5	31	83	280	10	14	3	2	0.04	2.38	0.12	4.65	0.32	0.05	0.02	0.05
25114	<5	0.1	9	22	40	43	<5	<3	1	<10	<2	0.2	2	9	88	<5	14	51	173	9	9	1	1	0.02	1.3	0.08	2.02	0.13	0.04	0.02	0.05
25115	<5	<0.1	14	35	89	64	<5	<3	3	<10	<2	0.6	7	18	134	<5	27	73	292	14	15	1	2	0.03	2.02	0.13	3.68	0.36	0.09	0.03	0.07
25116	<5	0.1	10	26	52	49	<5	<3	1	<10	<2	<0.1	3	13	141	<5	17	47	140	15	19	<1	1	0.02	1.34	0.17	1.68	0.2	0.07	0.03	0.07
25117	<5	0.1	17	28	65	67	<5	<3	7	<10	<2	<0.1	6	16	182	<5	30	155	214	13	27	1	2	0.05	1.86	0.1	3.49	0.35	0.08	0.02	0.05
25118	6	0.3	27	23	59	51	<5	<3	7	<10	<2	<0.1	3	11	192	<5	19	126	91	12	25	1	2	0.03	1.38	0.08	1.9	0.18	0.07	0.03	0.1
25119	<5	0.3	16	24	84	74	<5	<3	7	<10	<2	0.5	6	19	162	8	26	155	179	12	32	1	2	0.03	1.99	0.15	3.14	0.28	0.08	0.03	0.06
25120	10	0.1	51	39	117	133	<5	<3	8	<10	<2	8.2	6	36	324	7	15	76	179	18	63	1	2	0.01	1.69	0.14	2.09	0.13	0.13	0.03	0.09
25121	8	<0.1	21	10	43	13	<5	<3	2	<10	<2	0.4	14	36	154	<5	22	25	944	4	113	4	2	0.01	0.56	3.75	2.07	0.28	0.03	0.03	0.11
25122	<5	<0.1	12	<2	15	13	<5	<3	1	<10	<2	0.4	2	14	129	<5	5	5	182	<2	143	1	<1	0.01	0.24	5.21	0.41	0.26	0.02	0.03	0.07
25132	5	<0.1	19	13	56	60	<5	<3	2	<10	<2	0.7	9	30	118	<5	31	58	202	8	10	1	2	0.03	1.91	0.1	2.8	0.37	0.03	0.02	0.03
25179	<5	0.1	32	18	106	66	<5	<3	2	<10	<2	0.9	14	43	351	<5	49	81	525	16	22	2	4	0.05	2.19	0.24	3.27	0.56	0.07	0.03	0.04
25180	<5	0.4	39	20	114	65	<5	<3	2	<10	<2	2	14	55	486	<5	61	80	395	16	41	1	4	0.06	2.1	0.89	2.96	0.58	0.06	0.03	0.09
25181	<5	0.3	41	20	67	63	<5	<3	2	<10	<2	0.9	14	43	311	<5	76	99	334	21	23	2	4	0.08	2.29	0.38	3.36	0.46	0.06	0.03	0.06
25182	<5	0.2	36	18	97	65	<5	<3	1	<10	<2	0.7	16	54	608	<5	68	91	520	22	47	2	5	0.04	2.49	1.39	3.33	0.58	0.07	0.03	0.08
25183	<5	0.2	42	21	116	122	<5	<3	3	<10	<2	<0.1	20	80	396	17	80	85	393	31	63	1	6	0.03	1.84	0.27	5.18	0.47	0.17	0.07	0.1
25184	<5	0.1	33	19	84	123	<5	<3	2	<10	<2	<0.1	23	79	729	11	89	89	527	14	23	2	5	0.03	2.85	0.27	4.06	0.68	0.06	0.03	0.04
25185	<5	0.1	29	17	87	90	<5	<3	2	<10	<2	0.2	26	96	1355	<5	108	88	485	16	46	2	6	0.03	2.67	0.8	3.63	0.74	0.05	0.03	0.09
25186	7	1	38	21	106	64	<5	<3	17	<10	<2	<0.1	6	40	207	12	34	171	161	15	87	3	2	0.02	1.78	0.07	4.32	0.29	0.1	0.03	0.06
25187	<5	0.1	23	16	67	64	<5	<3	1	<10	<2	0.1	18	55	529	<5	53	75	458	10	38	2	4	0.04	2.35	0.46	3.74	0.6	0.04	0.03	0.04
25188	<5	0.1	25	16	53	62	<5	<3	2	<10	<2	0.4	20	35	802	9	52	107	1346	9	18	2	6	0.03	2.7	0.15	4.55	0.47	0.03	0.03	0.05
25189	<5	0.2	31	20	99	84	<5	<3	3	<10	<2	0.4	10	27	759	<5	35	82	252	14	22	1	3	0.04	2.3	0.1	3.49	0.42	0.1	0.02	0.05
25190	6	0.5	28	38	90	47	<5	<3	8	<10	<2	0.6	6	24	815	<5	27	72	145	20	44	3	3	0.02	1.41	0.07	2.7	0.33	0.1	0.02	0.04
25191	5	0.5	50	18	128	70	<5	<3	4	<10	<2	0.6	13	56	2156	<5	50	101	226	31	46	3	5	0.02	2.66	0.59	3.47	0.45	0.14	0.03	0.06
25192	<5	0.4	41	19	110	62	<5	<3	1	<10	<2	<0.1	24	70	1310	<5	46	66	573	28	78	5	6	0.01	2.05	1.58	4.44	0.37	0.16	0.03	0.14
25193	<5	0.3	32	23	88	72	<5	<3	2	<10	<2	0.5	16	54	988	<5	54	89	335	27	38	3	5	0.04	2.49	0.56	3.72	0.57	0.11	0.03	0.09
25194	5	0.2	44	24	98	79	<5	<3	1	<10	<2	1.1	18	52	706	6	51	83	643	24	43	8	7	0.09	2.51	0.68	3.64	0.6	0.1	0.04	0.07
25195	<5	0.2	31	20	79	61	<5	<3	2	<10	<2	0.7	12	39	481	<5	38	73	311	19	35	2	5	0.07	2.09	0.54	3.02	0.51	0.08	0.04	0.08
25196	13	0.1	14	19	63	58	<5	<3	1	<10	<2	0.6	8	28	248	<5	39	56	168	16	26	1	3	0.08	1.74	0.47	2.03	0.42	0.06	0.03	0.07
25197	5	0.2	46	36	146	69	<5	<3	3	<10	<2	0.3	21	83	448	8	71	74	573	30	46	5	8	0.09	2.36	0.77	4.12	0.87	0.13	0.04	0.12
25339	7	0.2	22	32	68	72	<5	<3	6	<10	<2	0.9	8	18	219	<5	21	75	402	21	37	1	2	0.03	1.57	0.12	2.58	0.29	0.12	0.03	0.07
25340	<5	0.1	21	21	44	46	<5	<3	7	<10	<2	0.6	4	13	149	<5	15	116	130	15	20	1	1	0.03	0.89	0.05	2.08	0.09	0.06	0.02	0.04
25341	<5	0.4	26	28	92	82	<5	<3	8	<10	<2	0.3	10	21	206	<5	31	119	530	12	33	2	3	0.03	1.98	0.07	3.74	0.38	0.11	0.03	0.06
25342	9	0.2	26	23	72	71	<5	<3	6	<10	<2	0.7	10	24	193	<5	27	70	383	16	22	2	3	0.04	1.83	0.12	2.63	0.42	0.07	0.03	0.05
25343	<5	0.2	29	28	48	54	6	<3	31	<10	<2	0.4	5	19	370	<5	25	147	175	18	29	2	2	0.04	1.25	0.09	2.33	0.26	0.05	0.03	0.05

SOIL SAMPLE DESCRIPTION SHEET

Sample No.	Easting	Northing	Traverse	Zone	Horizon	Depth (cm)	Slope Angle	Colour	ermafro (yes/no?	% Coar agments	Vegetation	Surficial Geology	Frag. Lithology	% Organic	Date	Sampler	Comments
25344	582500	7136932	99GC2	7	C	30	MOD	GR-BRN	N	40	BB	COV	CH - SH	10	08-05-99	C.S.	
25345	582588	7136884	99GC2	7	B	30	MOD	BRN	N	20	BB	COV	QFP	10	08-05-99	C.S.	QFP colluvium covers "B" hor
25346	582667	7136821	99GC2	7	B	30	MOD	RD-BRN	N	20	BB	COV	QFP	10	08-05-99	C.S.	
25347	582756	7136851	99GC2	7	B	25	MOD	RD-BRN	N	15	BB	COV	QM	10	08-05-99	C.S.	Overlain by loess
25348	582808	7136716	99GC2	7	C	25	MOD	TAN	N	25	BB	COV	QM/SH	15	08-05-99	C.S.	QM frags are larger, overlying?
25349	582879	7136587	99GC2	7	B	30	GEN	TAN	N	20	BB	COV	QM/SH	10	08-05-99	C.S.	Larger QM - LAQM frags
25350	582982	7136528	99GC2	7	B	30	MOD	GR-BRN	N	20	CON	COV	QM	10	08-05-99	C.S.	Possibly overlain by loess
25901	582079	7137276	99GC3	7	B	50	HT	BRN		10	BB	TF	LAQM	5	08-05-99	SE	
25902	581955	7137332	99GC3	7	B	40	HT	BRN		10	BB	TF	QM	5	08-05-99	SE	
25903	581866	7137400	99GC3	7	B	40	SL	BRN		10	BB	TF	LAQM	0	08-05-99	SE	
25904	581770	7137509	99GC3	7	B	40	SL	BRN		10	BB	TF	LAQM	0	08-05-99	SE	
25905	581735	7137577	99GC3	7	B	40	MOD	BRN		10	BB	TF	ARG	5	08-05-99	SE	
25906	581660	7137676	99GC3	7	B	40	SL	BRN		10	BB	TF	VOL	0	08-05-99	SE	
25907	581629	7137764	99GC3	7	B	30	RT	BLK		10	BB	TF	VOL	0	08-05-99	SE	
25908	581565	7137812	99GC3	7	B	20	RT	RED		10	SP	TA	VOL	0	08-05-99	SE	
25909	581471	7137859	99GC3	7	B	20	RT	ORG		10	SP	TA	VOL	0	08-05-99	SE	
25910	581378	7137933	99GC3	7	B	10	RT	BRN		0	SP	TA	VOL	20	08-05-99	SE	
25911	581270	7137903	99GC3	7	B	30	ST	BRN		10	SP	TA	VOL	30	08-05-99	SE	
25912	581252	7137896	99GC3	7	A	60	ST	BRN		0	SP	NR		70	08-05-99	SE	
25913	581179	7137940	99GC3	7	A	60	ST	BRN		0	SP	NR		80	08-05-99	SE	
25917	580599	7138119	99GC3	7	AB	50	ST	BRN		20	SP	TA	VOL	60	08-05-99	SE	
25918	580545	7138062	99GC3	7	B	40	ST	BRN		20	SP	TA	VOL	30	08-05-99	SE	
25919	580408	7138184	99GC3	7	B	40	ST	BRN		10	SP	TA	VOL	10	08-05-99	SE	
25920	580283	7138272	99GC3	7	B	30	RT	GRY		10	SP	LOESS	VOL	0	08-05-99	SE	
25921	580236	7138375	99GC3	7	B	30	RT	GRY		10	SP	LOESS	VOL	0	08-05-99	SE	
25922	580151	7138387	99GC3	7	B	30	RT	GRY		10	SP	TA	VOL	0	08-05-99	SE	
25923	585600	7134988	99GC5	7		100	SL	BRN		0	SP	TIL		0	08-06-99	SE	
25924	585587	7134865	99GC5	7		100	SL	BRN		0	SP	TIL		0	08-06-99	SE	
25925	585495	7134782	99GC5	7		100	SL	BRN		0	SP	TIL		0	08-06-99	SE	
25926	585454	7134643	99GC5	7		100	SL	BRN		10	SP	TIL		0	08-06-99	SE	
25927	585431	7134611	99GC5	7		100	SL	BRN		10	SP	TIL		0	08-06-99	SE	
25928	585378	7134477	99GC5	7	B	30	SL	BRN		10	SP	TIL		0	08-06-99	SE	
25929	585320	7134372	99GC5	7	B	20	SL	BRN		30	SP	TIL	CPC	0	08-06-99	SE	
25930	585294	7134269	99GC5	7	B	30	ST	LBRN		30	SP	TF	SH	0	08-06-99	SE	
25932	585252	7134177	99GC5	7	B	30	ST	LBRN		30	SP	TF	SH	0	08-06-99	SE	
25933	585217	7134124	99GC5	7	B	30	VAL	BRN		20	SP	TF		10	08-06-99	SE	
25934	585216	7134021	99GC5	7	B	40	ST	BRN		10	SP	TIL		0	08-06-99	SE	
25935	585165	7133916	99GC5	7	B	50	ST	BRN		10	SP	TIL	VOL	0	08-06-99	SE	
25937	585154	7133788	99GC5	7	B	50	MOD	GRY		10	SP	TF	VOL	0	08-06-99	SE	
25938	585101	7133664	99GC5	7	B	50	MOD	GRY		10	SP	TF	CH	0	08-06-99	SE	
25939	585028	7133607	99GC5	7	B	50	MOD	GRY		0	SP	TF	CH	0	08-06-99	SE	
25940	585022	7133512	99GC5	7	B	50	MOD	GRY		0	BB	TF	CH	0	08-06-99	SE	
25941	584991	7133394	99GC5	7		80	SL	GRY		0	BB	TIL		0	08-06-99	SE	
25942	584951	7133301	99GC5	7	B	80	SL	BRN		0	BB	TIL		0	08-06-99	SE	
25943	584933	7133196	99GC5	7	B	80	SL	BRN		0	BB	TIL		0	08-06-99	SE	

SOIL SAMPLE DESCRIPTION SHEET

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	%	%	%	%	%	%	%	%
25344	<5	<0.1	24	22	59	65	<5	<3	7	<10	<2	0.6	7	24	275	<5	32	148	231	16	20	1	2	0.04	1.85	0.12	2.78	0.38	0.07	0.03	0.06
25345	5	<0.1	23	36	136	155	<5	<3	5	<10	<2	1.6	11	28	308	<5	28	70	777	21	39	1	4	0.05	1.84	0.24	3.06	0.41	0.11	0.03	0.14
25346	5	<0.1	21	30	102	167	<5	<3	3	<10	<2	0.6	7	21	286	12	29	80	243	17	23	1	3	0.04	2.21	0.13	3.51	0.39	0.09	0.03	0.06
25347	<5	<0.1	16	22	55	54	<5	<3	2	<10	<2	0.8	5	14	146	<5	26	73	208	15	16	1	2	0.04	1.75	0.11	2.78	0.31	0.08	0.03	0.06
25348	<5	0.1	16	24	74	71	<5	<3	6	<10	<2	0.7	12	17	266	<5	29	91	831	14	26	<1	1	0.02	1.76	0.11	2.98	0.36	0.1	0.02	0.08
25349	<5	<0.1	24	22	78	74	<5	<3	4	<10	<2	0.4	9	28	239	<5	32	67	305	18	18	1	4	0.03	2.36	0.11	3.02	0.41	0.09	0.03	0.04
25350	<5	0.2	39	17	94	78	<5	<3	2	<10	<2	0.8	17	60	408	10	71	88	664	20	26	2	6	0.05	2.38	0.53	3.52	0.7	0.06	0.03	0.06
25901	<5	<0.1	18	39	71	97	<5	<3	3	<10	<2	0.8	9	25	176	<5	21	41	272	24	33	1	3	0.03	1.56	0.1	2.8	0.34	0.11	0.03	0.06
25902	<5	<0.1	12	33	57	445	<5	<3	3	<10	<2	<0.1	3	17	114	<5	10	41	125	27	16	1	1	0.02	1.36	0.06	3.15	0.14	0.06	0.02	0.07
25903	<5	<0.1	29	20	92	59	<5	<3	1	<10	<2	<0.1	22	50	258	<5	33	50	895	18	24	1	4	0.02	1.84	0.28	3.8	0.43	0.1	0.03	0.1
25904	<5	0.1	20	20	66	59	<5	<3	2	<10	<2	0.5	10	32	206	<5	51	81	471	16	19	1	1	0.02	2.04	0.18	3.14	0.46	0.08	0.03	0.09
25905	8	<0.1	33	25	107	66	<5	<3	3	<10	<2	<0.1	20	59	278	<5	43	69	701	18	21	1	5	0.03	2.29	0.22	4.19	0.51	0.09	0.03	0.09
25906	<5	<0.1	15	33	95	61	<5	<3	2	<10	<2	<0.1	6	23	119	<5	33	77	385	18	16	1	1	0.02	1.87	0.1	3.95	0.31	0.07	0.03	0.06
25907	<5	<0.1	4	16	5	14	<5	<3	14	<10	<2	<0.1	1	1	93	<5	7	155	21	13	6	<1	1	0.01	0.35	0.01	0.85	0.03	0.04	0.02	0.02
25908	<5	<0.1	68	27	79	53	<5	<3	2	<10	<2	<0.1	47	133	633	5	182	167	529	14	34	4	9	0.02	3.17	0.66	7.95	0.45	0.05	0.03	0.07
25909	<5	<0.1	44	22	97	91	<5	<3	2	<10	<2	<0.1	45	179	392	<5	201	185	1122	12	37	4	9	0.17	4.47	0.73	6.83	1.59	0.05	0.03	0.06
25910	<5	<0.1	117	17	85	79	<5	<3	2	<10	<2	<0.1	43	202	942	<5	176	140	2242	20	62	5	14	0.02	4.14	1.29	6.21	1.5	0.29	0.03	0.07
25911	<5	<0.1	103	18	104	67	<5	<3	4	<10	<2	0.2	61	204	552	<5	165	126	2359	19	143	4	8	0.07	3.73	2.51	6.95	2.3	0.07	0.03	0.12
25912	<5	<0.1	39	26	95	70	<5	<3	3	<10	<2	<0.1	32	93	330	<5	77	78	1403	27	56	6	7	0.01	3.61	0.92	6.07	0.8	0.08	0.03	0.1
25913	<5	<0.1	46	22	105	18	<5	<3	2	<10	<2	1.6	16	63	169	<5	24	26	1171	9	145	3	3	<0.01	0.99	3.13	3.43	0.32	0.05	0.03	0.1
25917	<5	<0.1	101	18	94	62	<5	<3	6	<10	<2	<0.1	58	163	89	<5	331	203	381	10	12	9	18	0.01	3.15	0.17	8.28	0.51	0.13	0.02	0.04
25918	<5	<0.1	61	19	78	73	<5	<3	2	<10	<2	<0.1	39	107	355	<5	179	159	1954	20	59	4	16	0.01	3.65	1.15	6.99	1.06	0.13	0.03	0.05
25919	<5	0.1	44	15	84	51	<5	<3	<1	<10	<2	<0.1	28	95	831	<5	51	72	851	32	95	3	10	0.02	2.85	1.22	6.09	0.38	0.26	0.03	0.32
25920	<5	0.1	34	16	89	119	<5	<3	1	<10	<2	<0.1	17	78	223	<5	58	84	344	15	15	3	4	0.02	3.49	0.17	4.91	0.48	0.08	0.02	0.06
25921	<5	0.1	36	24	118	81	<5	<3	2	<10	<2	0.2	13	39	238	<5	35	85	281	11	48	2	3	0.03	2.39	0.08	4.02	0.41	0.09	0.02	0.04
25922	<5	<0.1	42	25	75	61	<5	<3	3	<10	<2	<0.1	34	87	777	10	109	162	384	8	32	10	8	0.25	2.92	0.63	6.94	0.35	0.05	0.03	0.04
25923	<5	0.2	40	15	101	55	<5	<3	2	<10	<2	0.6	14	39	501	<5	38	73	368	19	36	5	6	0.09	1.84	0.6	3.1	0.6	0.09	0.05	0.09
25924	<5	0.1	39	19	105	61	<5	<3	3	<10	<2	0.6	13	37	526	<5	43	75	416	20	37	4	6	0.09	1.98	0.62	3.15	0.62	0.09	0.04	0.08
25925	6	0.1	41	28	108	80	<5	<3	3	<10	<2	1.3	16	61	470	<5	59	82	482	23	38	3	7	0.08	2.73	0.71	3.94	0.63	0.09	0.04	0.07
25926	<5	<0.1	30	23	95	67	<5	<3	2	<10	<2	0.7	12	47	331	<5	51	69	383	23	32	2	5	0.08	2.19	0.45	3.3	0.57	0.09	0.03	0.06
25927	6	<0.1	29	27	88	63	<5	<3	1	<10	<2	0.5	12	45	359	<5	46	68	375	25	29	2	5	0.08	2.17	0.39	3.24	0.56	0.08	0.03	0.06
25928	<5	<0.1	34	25	135	57	<5	<3	1	<10	<2	0.1	17	58	220	<5	60	66	597	28	22	1	4	0.06	2.14	0.3	4.14	0.59	0.09	0.03	0.09
25929	28	0.9	94	48	510	313	37	<3	11	<10	<2	2.4	18	135	926	<5	71	127	314	30	61	2	4	0.01	1.91	0.07	5.77	0.23	0.12	0.02	0.14
25930	6	2.4	72	123	145	88	19	<3	26	<10	<2	1.1	4	38	361	<5	34	146	79	27	432	1	1	0.01	0.95	0.19	3.16	0.07	0.2	0.03	0.19
25932	5	0.5	23	21	103	67	<5	<3	2	<10	<2	0.9	16	35	581	<5	42	68	723	16	32	1	2	0.04	1.89	0.27	3.02	0.45	0.08	0.03	0.11
25933	74	4.5	52	107	151	345	117	<3	75	<10	<2	0.2	3	27	607	<5	50	443	66	38	356	1	<1	0.01	0.85	0.04	5.22	0.05	0.21	0.04	0.26
25934	8	0.4	28	35	189	115	<5	<3	3	<10	<2	1.1	16	51	994	11	75	96	568	24	58	2	6	0.05	1.73	0.71	3.63	0.6	0.09	0.04	0.13
25935	19	0.2	30	15	98	60	<5	<3	2	<10	<2	1	18	85	2226	<5	99	86	408	24	81	3	8	0.06	1.98	1.03	3.11	0.71	0.09	0.04	0.1
25937	7	0.2	23	17	91	65	5	<3	1	<10	<2	1.2	12	37	1179	<5	41	74	635	18	48	1	4	0.05	2.07	0.63	2.7	0.5	0.09	0.04	0.07
25938	7	0.2	24	15	85	52	<5	<3	2	<10	<2	0.9	8	24	610	<5	32	71	218	18	35	1	3	0.05	1.75	0.5	2.38	0.49	0.09	0.04	0.07
25939	5	0.2	25	17	83	63	<5	<3	1	<10	<2	1.2	11	26	579	<5	31	71	236	19	31	1	4	0.05	1.89	0.41	2.74	0.48	0.1	0.04	0.08
25940	5	0.2	14	16	54	50	<5	<3	1	<10	<2	0.5	5	18	321	<5	23	45	95	14	22	<1	2	0.03	1.42	0.27	2.02	0.34	0.06	0.03	0.05
25941	14	0.2	31	22	83	81	<5	<3	1	<10	<2	0.5	11	35	502	<5	38	63	383	18	27	2	4	0.06	1.87	0.28	3.04	0.39	0.09	0.03	0.06
25942	8	<0.1	37	17	87	68	<5	<3	2	<10	<2	1.2	10	36	637	<5	35	65	301	19	37	5	5	0.07	1.75	0.52	2.92	0.52	0.08	0.04	0.07
25943	5	0.1	32	15	68	46	<5	<3	3	<10	<2	0.9	9	26	471	<5	32	60	259	20	31	3	5	0.07	1.75	0.39	2.49	0.46	0.07	0.04	0.05

APPENDIX 4:

SILT SAMPLE GEOCHEMICAL RESULTS

SILT SAMPLE DESCRIPTION SHEET

Sample No.	Easting	Northing	Zone	% Fines	Colour	Stream Grade	Stream Width	Date	Sampler	Comments
23850	587179	7133533	7	45	GRY	MOD	1 m	08-06-99	C.S.	Several sites, fairly abnt silt
25123	578942	7137807	7	30	dgrey	10	1,0	08-05-99	SS	
25124	578912	7138108	7	50	dgrey	10	2,0	08-05-99	SS	
25125	578943	7138272	7	80	dgrey	15	2,0	08-05-99	SS	
25126	578709	7138595	7	80	dgrey	15	2,0	08-05-99	SS	
25914	581106	7137824	7	30	GRY		1.5	08-05-99	SE	
25915	580942	7138120	7	30	GRY		1.5	08-05-99	SE	
25916	580822	7138243	7	80	GRY		1.5	08-05-99	SE	
25931	585242	7134213	7	80	BRN		2	08-06-99	SE	

SILT SAMPLE DESCRIPTION SHEET

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	%	%	%	%	%	%	%	%
23850	18	0.2	35	31	294	87	6	<3	3	<10	<2	2.9	25	97	486	<5	109	82	1060	23	66	4	6	0.12	1.89	1.07	3.83	0.78	0.1	0.03	0.11
25123	6	0.2	48	24	1024	140	<5	<3	4	<10	<2	9.8	101	307	990	6	98	71	18048	19	139	3	6	0.02	1.9	0.99	5.86	0.69	0.12	0.03	0.12
25124	<5	0.3	50	23	874	122	<5	<3	2	<10	<2	9	71	248	837	12	80	68	11284	18	149	2	6	0.02	1.82	1.18	4.96	0.65	0.12	0.04	0.11
25125	<5	0.3	47	23	626	96	<5	<3	2	<10	<2	5.8	53	184	779	<5	74	68	8350	19	130	2	6	0.03	1.81	1.04	4.77	0.64	0.12	0.03	0.11
25126	<5	0.2	44	19	417	71	<5	<3	3	<10	<2	3.6	36	129	499	<5	52	58	4592	21	146	2	5	0.03	1.74	1.41	4.06	0.64	0.16	0.04	0.13
25914	11	0.3	48	24	414	56	<5	<3	5	<10	<2	15.1	27	101	303	<5	52	68	1540	15	137	3	4	0.01	1.74	1.76	3.9	0.57	0.09	0.03	0.14
25915	<5	0.1	49	21	295	52	<5	<3	4	<10	<2	4.9	24	102	257	<5	71	71	654	16	149	3	4	0.01	1.84	1.68	4.18	0.77	0.08	0.03	0.14
25916	<5	<0.1	41	36	169	33	<5	<3	3	<10	<2	1.1	24	57	150	<5	37	37	1731	12	72	2	5	0.01	1.51	0.54	4.69	0.5	0.08	0.02	0.07
25931	5	0.2	20	22	122	55	<5	<3	2	<10	<2	9.3	19	38	419	17	44	57	1277	15	37	1	3	0.05	1.5	0.51	3	0.5	0.06	0.03	0.08