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1985 ASSESSMENT REPORT
on the
SALTSPRING ISLAND CLAIMS

by

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Saltspring Island - Victoria Mining Division
NTS 92B/11, 12, 13 14

Lat. 48°45'N Long. 123°30'W

Owned and Operated by: Kidd Creek Mines Ltd.

October 1985

GEOLOGICAL Vancouver B.C.
ASSESSMENT REPORT

13,996

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SUMMARY

This report presents results of 1985 fieldwork on the Saltspring Island massive sulphide project. The purpose of the project was to explore for volcanic-hosted polymetallic, massive sulphide deposits in the Sicker Group rocks using a Kuroko deposit exploration model. The nearby 1 million ton, polymetallic Twin J and Lenora deposit, and Westmin's 20 million ton Buttle Lake deposit occur in the Sicker Belt.

The project-area consists of 10 claims (122 units) located on southwest Saltspring Island, about 70 km southwest of Vancouver in the Strait of Georgia. The claims are wholly owned by Kidd Creek Mines Ltd.

Fieldwork carried out between May 2 and July 19, 1985 consisted of detailed mapping in the vicinity of Bruce Peak and Hope Hill and continuation of exploration activity on the Musgrave Anomaly Grid in the Fulford Harbour Area. The grid was expanded by the addition of one line. Soil sampling and detailed VLF and magnetometer surveys were performed on all lines. Trenching was carried out.

Results from trenching indicate that base metal content of the rock is sufficiently high to account for soil geochemical responses detected in 1984. Narrow pyrite beds in siltstone could represent part of the conductive Musgrave zone.

The claims are underlain by steeply dipping, isoclinally folded shales, siltstones and diabases of the Sediment-Sill succession, which overlie felsic to intermediate pyroclastic rocks of the Myra Formation. Both formations of late Silurian to Devonian age have been intruded by gabbro.

The 1985 exploration expenditures totalled approximately 8802.98 of which 7700.00 has been applied to assessment.

INTRODUCTION

Location, Access and Physiography

The Saltspring Island Claims (48°45'N, 123°30'W, NTS: 92B/11, 12, 13 and 14) are located on southwestern Saltspring Island, approximately 70 km southwest of Vancouver and 35 km north of Victoria within the Strait of Georgia (Figure 1).

Saltspring Island is about 29 km long and 11 to 16 km wide. The project area is restricted to the southwest part of the Island, an area of about 50 square km. It is bounded by Musgrave Road, on the northeast and by the sea on the southwest.

Access to Saltspring Island is gained by ferry from either Tsawwassen or Horseshoe Bay on the mainland, or from Schwartz Bay or Crofton on Vancouver Island. Ferries arrive at Fulford Harbour, Long Harbour, or Vesuvius. A small float plane base at Ganges provides charter service.

Five, moderately well maintained municipal gravel roads provide access to the network of old, unmaintained logging roads and trails, on the property.

Topography is moderate and undulatory. Elevation ranges from sea level to 700 m at Bruce Peak. Brucey Lake, one kilometre southeast of Bruce Peak, represents the only significant accumulation of fresh water. Most of the island is dry due to low annual precipitation.

The thickness of glacial drift is variable. The southwestern part of the project-area displays drift

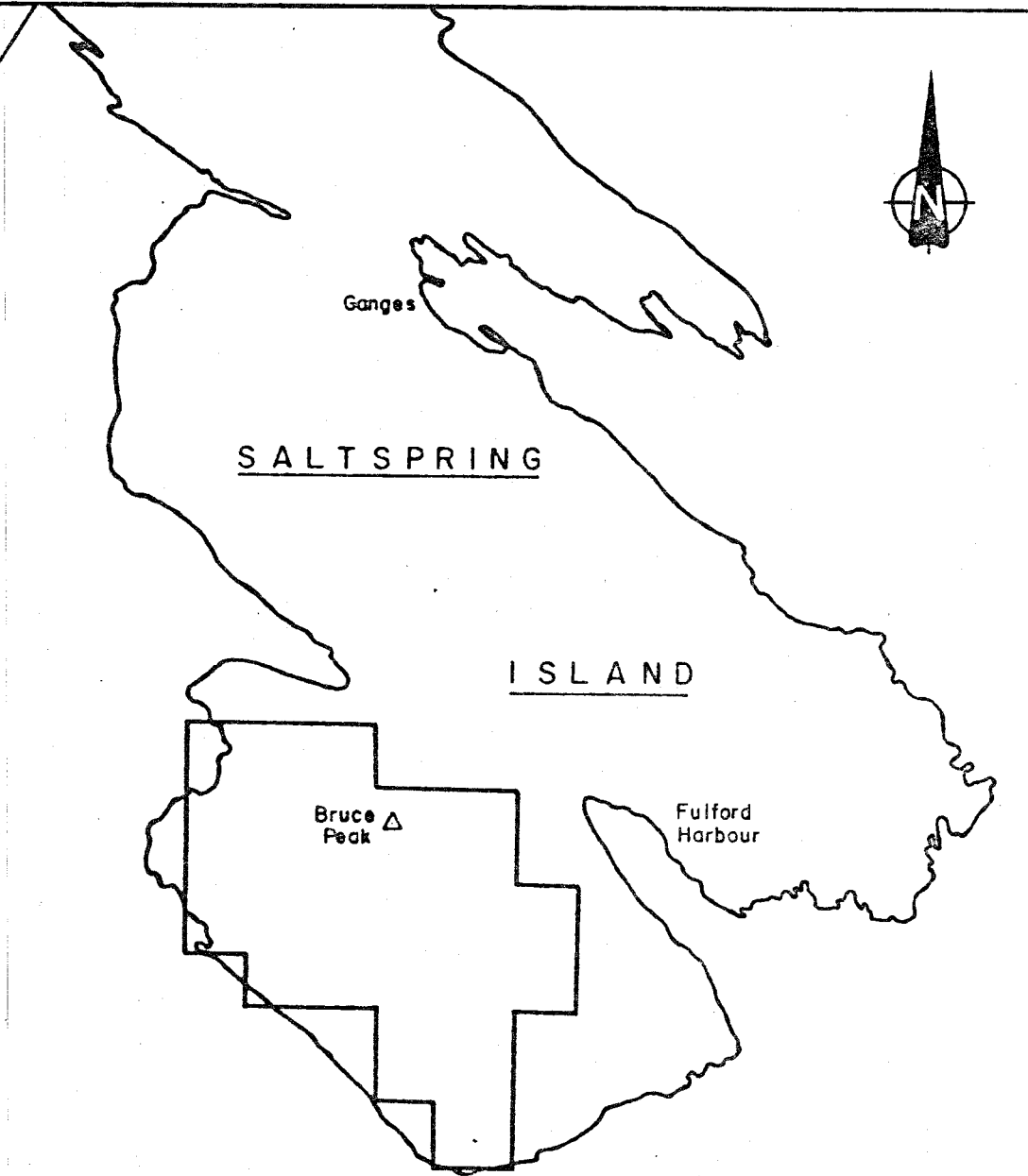
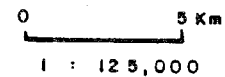


Figure 1 Location Map



thickness in excess of 2 m. Ridges and hills are devoid of overburden.

PROPERTY HISTORY

Two mineral claims (Mesabi and Gogebic) covered the magnetite-iron formation on the northwestern slope of Mount Sullivan as early as 1918.

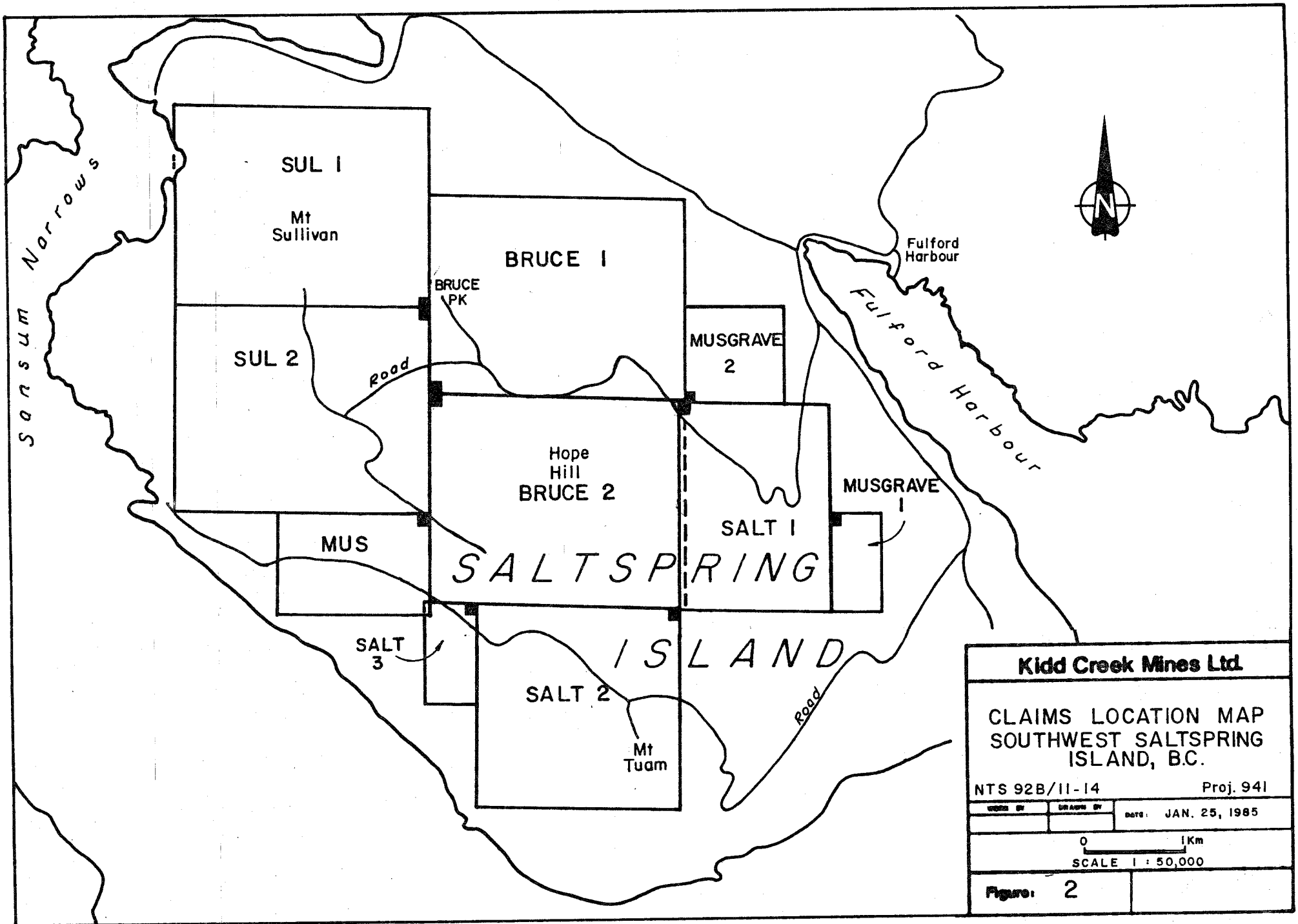
Between 1930 and 1940, a 20 m long adit was driven down-plunge of an auriferous quartz vein located about 1.3 km east of Cape Keppel on the southernmost part of the island.

Gold in quartz veins has been reported by islanders at Beaver Point on the easternmost part of the island. These latter two occurrences are not mentioned in literature.

February 1984 saw the staking of 8 claims (116 units) by Van Alphen Exploration Services Ltd. of Smithers, B.C., on behalf of Kidd Creek Mines Ltd. Two more claims (6 units) were staked during the summer of 1984.

1985 WORK PROGRAMME

The Saltspring Island massive sulphide project was initiated to explore for a polymetallic massive sulphide deposit hosted in the volcanic Myra Formation of the Sicker Group. Work was continued in 1985 in order that a better understanding of geology could be gained and to define the cause of a zone of coincident soil and ground geophysical anomalies.



Kidd Creek Mines Ltd.

**CLAIMS LOCATION MAP
SOUTHWEST SALTSRING
ISLAND, B.C.**

NTS 92B/11-14

Proj. 941

DRAWN BY

DATE: JAN. 25, 1985

0 1 Km

SCALE 1 : 50,000

Figure: 2

TABLE 1

Claim	Units	Record No.	Location Date	Record Date	*Expiry Date
†Salt 1	12	1168	02/23/84	03/08/84	03/08/89
†Bruce 1	20	1171	02/19/84	03/08/84	03/08/89
†Musgrave 1	2	1340	07/19/84	07/30/84	07/30/91
†Musgrave 2	4	1344	08/02/84	08/07/84	08/07/90

* Pending acceptance of assessment work by Gold Commissioner's office.

† Comprise the Hope group

Detailed geological mapping was conducted in the vicinity of Bruce Peak and Hope Hill (Figure 4). The Musgrave Anomaly Grid (Figure 4 and 5) was expanded by the cutting of an additional 620 m long line. Soil sampling and detailed VLF and magnetometer surveys were performed over 9.62 km of cutline. Trenching was carried out on Line F.

GEOLOGY

Regional Setting

Saltspring Island occupies a small portion of the eastern margin of the Cordilleran Insular Belt. The Belt is a highly varied assortment of volcanic, sedimentary, metamorphic and plutonic rocks ranging in age from Paleozoic to Tertiary. The allochthonous nature for the Insular belt proposed by several authors (Jones, 1977; Monger and Price, 1979; Monger and Irvine, 1980) has been widely accepted.
















The Sicker Group is exposed in three separate structural highs indicated in Figure 3. The Saltspring Project occurs within the Cowichan-Horne Lake Uplift, which extends from Vancouver Island across to Saltspring Island.

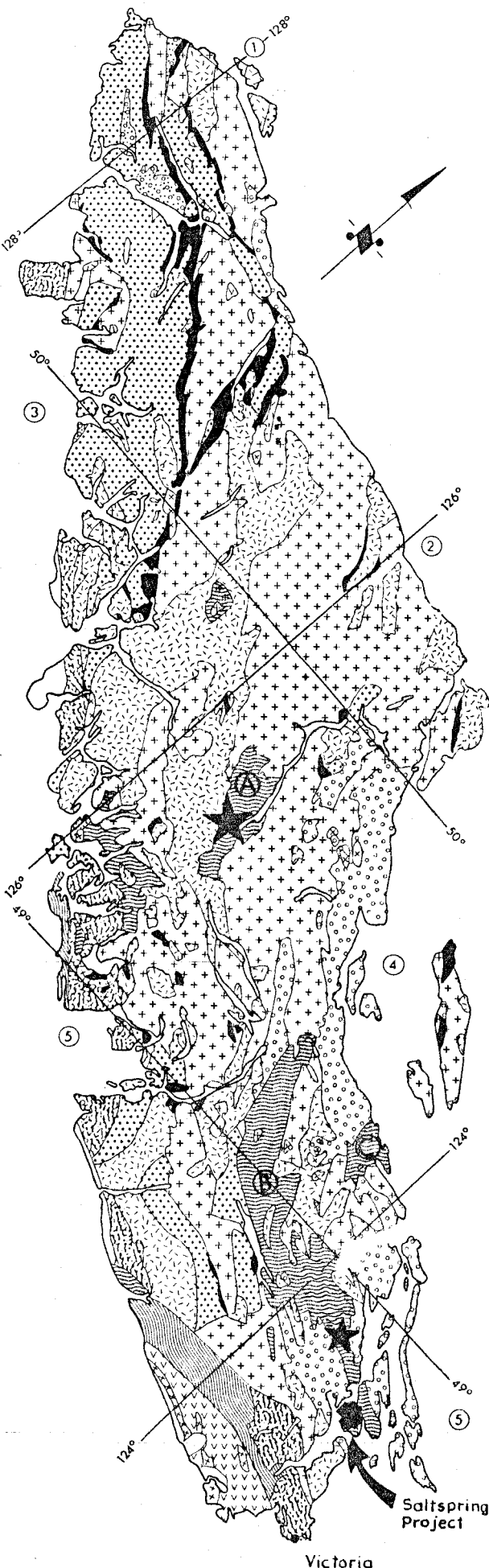
The Sicker Group has been subdivided into five formations as shown by Table 2. The Myra Formation is of prime exploration importance.

The Nitinat Formation (oldest within the Sicker Group) is composed predominantly of mafic volcanic rocks. This unit consists of massive flows but more commonly it is flow breccia comprised of fragments of dark green metabasalt. Phenocrysts of uralitized pyroxene are

Figure 3
Geological sketch map of Vancouver Island.

LEGEND

	CARMANAH GROUP	MIDDLE TERTIARY
	CATFACE INTRUSIONS	EARLY TO MIDDLE TERTIARY
	METCHOSIN VOLCANICS	EARLY TERTIARY
	NANAIMO GROUP	LATE CRETACEOUS
	QUEEN CHARLOTTE GROUP KYUQUOT GROUP	LATE JURASSIC TO
	LEECH RIVER FORMATION PACIFIC RIM COMPLEX	EARLY CRETACEOUS
	ISLAND INTRUSIONS	EARLY AND (?) MIDDLE JURASSIC
	BONANZA GROUP	EARLY JURASSIC
	VANCOUVER GROUP	} LATE AND (?) MIDDLE TRIASSIC
	PARSON BAY FORMATION QUATSINO FORMATION	
	KARMUTSEN FORMATION	
	SICKER BELT	PALEOZOIC
	METAMORPHIC COMPLEXES	JURASSIC AND OLDER
	Buttle Lake - 21×10^6 tons	2% Cu, 6% Zn 2.5 oz Ag, 0.06 oz Au
	Twin J - Produced 19×10^6 Lb Cu 738×10^3 OZ Au Stockpiled 6.7% Zn	
①	ALERT BAY - CAPE SCOTT, 92 L - 102 I (G.S.C. PAPER 74-8)	
②	BUTE INLET, 92 K (IN PREPARATION), O.P. MAP 345	
③	NOOKA SOUND, 92 E (IN PREPARATION)	
④	ALBERNI 92 F (G.S.C. PAPER 68-50)	
⑤	VICTORIA, 92 B, C (FIELD WORK IN PROGRESS: SEE G.S.C. PAPERS 75-1A, p. 21-26; 76-1A, p. 107-111, 77-1A, p. 287-294.)	
A	BUTTLE LAKE UPLIFT	
B	COWICHAN - HORNE LAKE UPLIFT	
C	NANOOSE UPLIFT	



Saltspring Island Project

Victoria



TABLE 2

TABLE OF FORMATIONS OF VANCOUVER ISLAND												
SEQUENTIAL LAYERED ROCKS					CRYSTALLINE ROCKS, COMPLEXES OF POORLY DEFINED AGE							
PERIOD	STAGE	GROUP	FORMATION	SYM-BOL	AVE. THICKNESS	LITHOLOGY	NAME	SYM-BOL	ISOTOPIC AGE Pb/U K/Ar	LITHOLOGY		
CENOZOIC	Eocene to early Eocene	CARMANAH	Late Tert. volcs of Port McNeill	Tvs								
			SOOKE	mpLss		conglomerate, sandstone, shale						
			HESQUIAT	eoTc	1200	sandstone, siltstone, conglomerate						
	OLIGOCENE		ESCALANTE	eTe	300	conglomerate, sandstone	SOOKE INTRUSIONS basic	Tg	32-59	quartz diorite, trondhjemite, gabbro, anorthosite, gabbro, orthogneiss, amphibolite		
			METCHOSIN	eTm	3000	basaltic lava, pillow lava, breccia, tuff	METCHOSIN SCHIST, GNEISS	Tgn	31-49	chlorite schist, gneiss, amphibolite		
	MESOZOIC	LATE	MAESTRICHTIAN	GABRIOLA	uKGA	350	sandstone, conglomerate	LEECH RIVER FM.	JKL	38-41	phyllite, mica schist, greywacke, argillite, chert	
				SPRAY	uKS	200	shale, siltstone					
				GEOFFREY	uKG	150	conglomerate, sandstone					
			CAMPANIAN	NANAIMO	NORTHUMBERLAND	uKN	250	siltstone, shale, sandstone				
					DE COURCY	uKdc	350	conglomerate, sandstone				
CEDAR DISTRICT					uKcd	300	shale, siltstone, sandstone					
EXTENSION - PROTECTION					uKEP	300	conglomerate, sandstone, shale, coal					
SANTONIAN				HASLAM	uKH	200	shale, siltstone, sandstone					
				COMOX	uKc	350	sandstone, conglomerate, shale, coal					
				QUEEN	IKoc	900	conglomerate, greywacke					
MESOZOIC	EARLY	CENOMANIAN	ALBIAN	IKap	50	siltstone, shale						
			APTIAN ?	IKap	50	siltstone, shale						
		JURASSIC	EARLY	KYUQUOT	LONGARM	IKL	750	greywacke, conglomerate, siltstone	PACIFIC RIM COMPLEX	JKP		greywacke, argillite, chert, basic volcanics, limestone
					ONE TREE	IKot	500	siltstone, argillite, conglomerate				
		JURASSIC	MID	BONANZA	KAPOOSE	uJK			ISLAND INTRUSIONS	Jg	141-181	granodiorite, quartz diorite, granite, quartz monzonite
					VOLCANICS	IJa	1500	basaltic to rhyolitic lava, tuff, breccia, minor argillite, greywacke	WESTCOAST SILICIC COMPLEX basic	PMns, PMnb	264, 263-192	quartz-feldspar gneiss, metaquartzite, marble
		TRIASSIC	LATE	VANCOUVER	HARBLEDOWN	IJh						
					PARSON BAY	uJpb	450	calcareous siltstone, greywacke, silty-limestone, minor conglomerate, breccia				
		TRIASSIC	MID	VANCOUVER	QUATSINO	uJo	400	limestone	diabase sills	PJb		
					KARLSEN	uJk	4500	basaltic lava, pillow lava, breccia, tuff				
PALEOZOIC	EARLY	SICKER	Sediment-Sill Unit	Tds	750	metasiltstone, diabase, limestone	metavolcanic rocks	PMmv		metavolcanic rocks, minor metasediments, limestone, marble		
			BUITTLE LAKE	CPbl	300	limestone, chert						
PALEOZOIC	DEV. or EARLIER ? PERM.	SICKER	"NANOOSE"	CPss	500	metagreywacke, argillite, schist, marble						
			Sediment-Sill Unit	PTds	500	metagreywacke, argillite, diabase						
			MYRA	PM	1000	silicic tuff, breccia, argillite	SALTSRING INTR } TYEE QTZ. PORPHYRY } COLQUITZ GNEISS } WARK DIORITE GNEISS }	Pg, Pns, Pnb	>390, >390, >200	metagranodiorite, metaquartz diorite, metaquartz porphyry		
PALEOZOIC	DEV. or EARLIER ? PERM.	SICKER	NITINAT	PN	2000	basic breccia, tuff, lava, greenschist				hornblende-plagioclase gneiss, quartz diorite, amphibolite		

(after Muller, 1981)

conspicuous. Beds of massive, dark coloured tuff occur locally and are cut by irregular intrusive bodies of metadiabase or metagabbro (Muller, 1981). Muller (1980) estimated these beds have a thickness of 1500 m and an age of Ordovician to Silurian.

The Myra Formation represents a thick succession (750-1000 m) of bedded volcanic and sedimentary rock, including rhyolitic to dacitic breccia, minor andesite flows, tuff and argillite, siltstone, greywacke and minor conglomerate. The formation overlies the Nitinat Formation, possibly with minor unconformity (Muller, 1980). At Buttle Lake and Mount Sicker, this formation hosts polymetallic, massive sulphide deposits. It is Late Silurian to Devonian in age (Muller, 1981).

Tyee Quartz Porphyry and the Saltspring Intrusion intrude the Nitinat and Myra Formations. They occur as sills, dykes and a leucocratic granitoid pluton, composed of quartz, albite and secondary mafic minerals (Muller, 1981). Radiometric dating suggests a Late Silurian age.

The Sediment-Sill succession consists of pelitic sedimentary rocks with intercalated diabase sills/dykes and gabbro. The latter appear to exceed the sedimentary rocks in aggregate thickness (Muller, 1981). The unit may be coeval with the Buttle Lake Formation or slightly older. It is estimated to be 500 m thick.

The Buttle Lake Formation marks the top of the Sicker Group. It is composed dominantly of limestone, commonly crinoidal with associated chert, greywacke, and argillite. The formation is about 150 to 450 m thick (Fleming et al, 1983). It has been dated by paleontology

as Middle Pennsylvanian and Early Permian (Muller, 1980).

The Sicker Group has been deformed and metamorphosed primarily in the greenschist facies. Folding and tectonic fabrics are variably developed, however, schistose and lineated rocks are common.

Property Geology

Introduction

The Saltspring Island geology is comprised of lower Sicker Group formations including the Nitinat and Myra Formations, the Sediment-Sill succession and the Saltspring Intrusions. These are unconformably overlain by the Cretaceous Nanaimo Group comprised of sandstone and conglomerate.

Detailed geologic mapping aided by 1:20,000 scale aerial photographs was performed in the vicinity of Hope Hill and Bruce Peak.

The new information resulting from this phase of exploration have been incorporated into Figure 4, Saltspring Island Property Geology.

The outcrop is abundant over much of the terrain but often bedrock is obscured by a thin veneer of ground vegetation. Hand stripping the vegetation reveals excellent quality bedrock exposure for mapping.

Lithology and Stratigraphy

Geology of the Saltspring project claims is shown at a scale of 1:10,000 on Figure 4. The more detailed geology (1:2,000) of the Musgrave anomaly is shown on Figure 5.

Five Formations were recognized on Saltspring Island. From oldest to youngest these formations are:

Myra Formation (map-unit 1), Saltspring Intrusion (map-unit 2), Sediment unit (map-unit 3), and the Mafic Intrusion unit (map-unit 4). All these Formations belong to the Sicker Group. The Youngest stratigraphic unit is the Extension-Protection Formation (map-unit 5) of the Nanaimo Group.

Lithological descriptions of the mapped units are given in Appendix A. The terms gabbro and diabase are used synonymously in this report.

The Sediment-Sill unit proposed by Muller (1980) has been divided into the Sediment unit (map-unit 3) and the Mafic Intrusion unit (map-unit 4).

Volcanic rocks of the Myra Formation (map-unit 1), occupy the northern part of the Saltspring Island project-area and are considered to be of greatest exploration importance; the sedimentary rocks of the Sediment unit (map-unit 4), lie mainly in the south and west part of the project area.

Volcanic rocks consist of felsic to intermediate tuff/crystal tuff/lapilli tuff, minor massive felsic flows or hypabyssal intrusions and mafic flows. Felsic tuffs are commonly laminated with light green and pale white bands. Where thinly bedded, these bands are often undulatory

In the course of geologic mapping in 1984 (Mallalieu et al, 1984) criteria for discrimination between mafic volcanic rock (map-unit 3 m) and the Mafic Intrusion Unit (map-unit 4) was based primarily on grain size.

Cause for re-interpretation of 1984 geologic data was provided by two small outcrops of feldspar-phyric

andesite. Much of the previously interpreted mafic volcanic rock delineated in 1984 must now be considered to be a fine grained phase/chill margin of the gabbro.

The mafic volcanic rock encountered on the north side of the Musgrave Conductor has distinctly different textural characteristics than the feldspar-phyric andesite encountered on Hope Hill (sample AB 13655, Appendix E). This rock-type may represent the older Nitinat Formation which lies along strike with it on the west side of Sansum Narrows.

The Sediment unit (map-unit 3) is composed predominantly of black shale.

Hypabyssal intrusions abound in the project-area. The Saltspring Intrusion (map-unit 2) is a holocrystalline, leucocratic quartz porphyry. It is present on the north shore of Burgoyne Bay. The Mafic Intrusion unit (map-unit 4) consists of gabbro/diabase, feldspar-glomerophyric diabase and amphibole pegmatite plutons and sills. The unit occurs throughout the Myra Formation and Sediment unit.

Structure

The volcanic and sedimentary rock succession present on the Saltspring project is steeply dipping and is interpreted to be overturned and isoclinally folded, as shown by the schematic cross-section on Figure 4. Fold axes have a shallow plunge to the northwest.

The succession generally strikes northwest with a mean dip of 57° to the southwest. Bedding is common in the felsic tuffs and siltstones of the Myra Formation. Soft sediment deformation is locally exemplified by load casts and slump structures. Angular shale rip-up clasts are locally present and suggest the presence of weak

marine currents. Facing determinations are made difficult by fine-grain size in siltstone, the prevalence of laminate-type bedding and by the presence of minor fold structures. These determinations in laminated siltstones indicate bedding tops to the west, but the overall folding geometry is insufficiently known to relate them to fold limbs in the stratigraphy.

Schistosity in the shales of the Sediment unit (map-unit 3) is moderately well developed. Intersections of schistosity and subtle bedding are rare.

Two major faults occur in the project area. In the north, the Fulford Harbour Fault occupies the centre of the Burgoyne Bay-Fulford Harbour Valley and trends 120° . In the south, the Tzuhalem Fault separates the Extension-Protection Formations from the Sediment unit. The Tzuhalem Fault is northwesterly trending and northeasterly dipping (Groves, 1960). It brings in contact a small wedge of the Extension-Protection Formation conglomerate (map-unit 5) of the Nanaimo Group with the Sediment and Mafic Intrusion units of the Sicker Group.

Elsewhere in the project-area, faulting was not perceived as a major feature.

Metamorphism

The Myra Formation, the Sediment and Mafic Intrusion units on Saltspring Island have been affected by low-grade greenschist facies metamorphism.

Contact metamorphism was noted adjacent to gabbroic intrusions. It predates regional metamorphism of sedimentary and volcanic rocks and resulted in localized zones of silicification and bleaching of country rock near the intrusive contact.

Mineralization

Bedded and fracture controlled pyrite mineralization in black siltstone, cherty siltstone was detected in a ditch adjacent to the Musgrave Road, just north of Line F, 26+60W.

A euxinic environment likely generated some sulphide i.e., pyrite disseminations and blebs; however 1.5 cm thick pyrite beds likely required a hydrothermal source.

Trenching

A 15 m long trench was dug west from Line F 26+60W on the Musgrave Anomaly Grid. Black siltstone and cherty siltstone hosting minor pyrite disseminations and rare beds was intersected. Trenching was only about 50% successful due to thickening of the overburden and strong ground water flow.

GEOPHYSICS

Introduction

To aid in the delineation of trenches are not conductive on the MUSGRAVE grid. V.L.F. and magnetic survey of all the grid lines was completed. This survey complemented the existing horizontal loop coverage of the grid. This work was done on May 3, July 18 and July 19 of 1985.

Personnel

HUTTEMANN, Tim - Junior Geophysicist - Kidd Creek Mines Ltd.
 - conducted the field work, Vanc.
 HENDRICKSON, Grant - Staff Geophysicist - Kidd Creek Mines Ltd.
 - Supervisor

MELNYK, Jay - Student, Geophysical Assistant -
Kidd Creek Mines Ltd.

Field work was conducted by T. Hutteman and J. Melnyk

Equipment

1 - Scintrex MP-3 base station total field magnetometer
1 - Scintrex I.G.S. - 2 systems control console - a
portable combination V.L.F./Total field magnetometer

Data Presentation

The geophysical data is shown as profiles on a plan map of the grid. These maps are at a scale 1 to 2500. Profiles of the V.L.F. vertical field strength and the magnetic total field intensity are presented. This format facilitates correlation of conductive and magnetic zones.

Computer listings of the following data are provided in Appendix F.

- a) V.L.F. in-phase vertical field strength.
- b) V.L.F. quadrature vertical field strength.
- c) V.L.F. horizontal field strength.
- d) magnetic intensity.

Survey Procedure

For the magnetic survey, a base station magnetometer was run continuously (sampling every 60 seconds) to monitor the diurnal shift of the earth's magnetic field. The base station was situated to isolate it from cultural effects and its location was checked prior to the survey to ensure against a steep magnetic gradient in the area. A portable magnetometer was used

with the sensor mounted on a back-frame. Accuracy per reading is plus or minus five nanotesla.

Both instruments were total-field measuring, microprocessor-controlled instruments capable of performing automatic diurnal corrections and plotting when connected to each other and a suitable printer.

A base station standard of 56,000 nanotesla was assumed for all diurnal corrections, by taking several measurements prior to the actual magnetic survey.

The VLF survey was conducted simultaneously with the magnetic survey by using the VLF receiver mounted in the same console as the magnetometer and a sensor mounted below the mag. sensor. Since the assumed trends of the anomalous zone(s) and structures were approximately north/south, the VLF communication station of Seattle (24.8 kHz) was used. Seattle is approximately southeast of the Musgrave Grid and provided good signal strength at the grid location.

Three components of the VLF-magnetic field were measured. These include the vertical in-phase, the vertical quadrature and the horizontal field strength. The sign convention for the vertical in-phase is as follows; when facing the station a field dipping to your right will be positive.

The magnetometer and VLF data was stored in the 32k memory of the system's control console. The combination of the VLF receiver and magnetometer effectively halved the time taken to complete the VLF/magnetometer survey and proved to be convenient, reliable and durable.

Discussion of the Data

Conductive zones, some with direct magnetic anomaly correlation have been very well delineated by this survey. The eastern two conductive zones relate well to the horizontal loop electromagnetic anomalies found and reported upon last year (Mallalieu et al, 1984).

The conductive zone on the extreme west side of the grid has not been well delineated since it is located at the western edge of the grid. A perusal of the geology map suggests this anomaly is due to the siltstone/iron formation present in the area

It should be noted that the grid lies on a steep east facing slope thus there is a general east tilt (or negative) to the V.L.F. electromagnetic field.

In studying the V.L.F. data the reader should refer to the data listings at the back of this report. The horizontal field strength data is particularly interesting. This survey is an excellent example of the efficiency of V.L.F. surveying.

All of the V.L.F. and magnetic anomalies are near surface and should be subcropping beneath the thin veneer of overburden present on the property.

Conclusion

Interesting conductive and magnetic zones have been further delineated by the survey. These zones must also be correlated with the geology and geochemistry of the area to see if further work, such as trenching and drilling, is warranted.

GEOCHEMISTRY

Introduction

Soil Sampling

The geochemical soil survey conducted between May 2 and May 4 was performed in order to determine if base/precious metal anomalies would be generated where there had been no significant geophysical responses.

Sampling of B-Fe soil horizon was carried out at 20 m intervals along cut lines A through K on the Musgrave Grid (Figure 5). 295 soil samples were collected.

Soil horizon development is excellent in the vicinity of the Musgrave Anomaly Grid. The B-Fe horizon is commonly as little as 2 cm below the organic-rich A horizon and in some places, is up to 40 cm thick.

Soil sampling was carried out by using a soil mattock. Collecting sixty to seventy samples per man-day was considered good progress.

Samples were collected in Kraft paper envelopes, partially dried at room temperature, and delivered to Acme Analytical Laboratories Ltd. (Acme), Vancouver. The samples were dried at 60°C, sieved to -80 mesh and analysed. All pulp and oversize were retained.

The -80 mesh fraction was analysed as follows:- a 0.500 g sample was digested with 3 ml of a 3:1:2 solution of HCl-HNO₃-H₂O at 95°C for one hour and diluted to 10 ml with water. The solution was then

analysed by inductively coupled plasma (ICP) for Ag, Cu, Pb, Zn and Mn. Using the same sample preparation as above, Atomic Absorption Spectrometry (AA) analysis was performed for Au and Ba on alternate samples. A larger sample (10 g) was used in this case.

Rock Sampling

Rock geochemical sampling was mainly restricted to areas in which detailed mapping was carried out and to where trenching was performed.

Pulps from 9 rock samples taken from the Musgrave Anomaly Grid in 1984 were re-analysed for major oxides and minor elements. A total of 77 rock samples were collected. Locations are plotted on the geology map (Figures 4 and 5).

Sample masses ranged from 0.5 to 4 kg of unweathered material. All samples were pulverized to -100 mesh. Acme Analytical Laboratories Ltd. determined Cu, Pb, Zn, Ag and Mn by ICP. Ba and Au was determined by AA methods. X-Ray Assay Laboratories Limited (X-RAY) of Don Mills, Ontario, performed whole rock analysis by X-ray fluorescence (XRF) and 35-element analysis by neutron activation (NAA) and direct current plasma analysis (DCP).

Results

Presentation

The location of all soil geochemical samples is shown on Figure 8. Soil geochemical results are presented on Figures 9 and 10.

The location of all rock samples is shown on Figures 4 and 5.

Base and precious metal results for rock and soil are listed in Appendes B, C and D. Statistics generated on soil and rock geochemical results are displayed in Tables 4 and 5. Lithology for rock samples may be determined from the geology maps (Figures 4 and 5). Computer print-out reports for whole-rock analyses are given in Appendix E.

Soil Anomalies

Soil geochemical responses are disappointing. The most significant trend consists of three weak Cu anomalies overlying mafic volcanic rock between lines C and F, just above the lower logging road.

These anomalies carry values of 170,103 and 119 ppm repectively. Downslope of the Line D anomaly is a small anomalous soil zone. This zone contains a weak and strong Zn anomaly (335 and 676 ppm). An elevated Ag response of 0.9 ppm is associated with the latter sample. All other Cu anomalies are weak and isolated.

Zn anomalies are relatively rare. Where present they are in close proximity to strong Cu values.

Apart from the weak Ag anomaly on Line D, (see above), the only other anomalous Ag value (0.8 ppm) overlies non-mineralized feldspar crystal tuff on Line C, 25+40W.

Two samples are anomalous in Mn. A weakly anomalous sample (3670 ppm) at about 0+80W, Line B is interpreted to overlie feldspar crystal tuff. The strongly

Table 3
Definition of Soil Geochemical Anomalies

	Strong	Weak	Background
Ag (ppm)	> 1.6	> 0.7	0.3
Au (ppb)	> 60	> 20	7
Cu (ppm)	> 200	> 100	36
Mn (ppm)	> 500	>3500	880
Pb (ppm)	> 50	n/a	10
Zn (ppm)	> 600	> 300	110

TABLE 4
Statistics on Soil Geochemical Results

	Cu	Pb	Zn	Ag	Mn
Number of Samples	295	295	295	295	295
Minimum (ppm)	3	2	15	0	73
Maximum (ppm)	618	25	676	1	24118
Mean (ppm)	35	8	90	0	897
Standard Deviation (ppm)	42	5	65	0	1472
Median (ppm)	26	7	75	0	633
Mode (ppm)	18	2	55	0	324
Skewness	1	0	1	2	1
Kurtosis	131	4	35	17	210
Number of Classes	20	20	20	20	20
Class Interval (ppm)	31	2	34	1	1203

TABLE 5
Statistics on Rock Geochemical Results - Trench F

	Cu	Pb	Zn	Ag	Mn	*Au	Ba
Number of Samples	59	59	59	59	59	59	59
Minimum (ppm)	8	2	5	0	43	1	16
Maximum (ppm)	70	26	2166	4	5777	22	2162
Mean (ppm)	64	7	407	1	683	5	155
Standard Deviation (ppm)	55	5	550	1	1248	5	289
Median (ppm)	38	5	133	0	375	4	90
Mode (ppm)	30	2	15	0	200	1	38
Skewness	1	1	1	1	1	1	1
Kurtosis	5	7	5	8	12	5	40
Number of Classes	20	20	20	20	20	20	20
Class Interval (ppm)	14	2	109	1	287	2	109

* Sample results reported in ppb.

anomalous sample (24118 ppm) taken at 8+50W, Line E is located immediately downslope of a jaspillite outcrop.

Pb, Au and Ba display no anomalous values

Rock Sampling Results

Most of the rock samples collected were taken from Trench F and its immediate vicinity (Figure 5). Base and precious metal content was determined (Appendix D).

Metal values are low but are considered to be sufficiently high to be reflected in soil geochemical results (Mallalieu et al, 1984).

Discussion of Rock Geochemical Results with Respect to 1984 Soil Geochemical Results

The Cu response of rock sampled is generally low (about 60 ppm); however twelve samples display results in excess of 120 ppm. This would be sufficient to explain most of the 1984 soil geochemical anomalies.

Rock geochemical results for Pb are dismal (Table 5). Results are typically in the range of 2-10 ppm. These responses may or may not be reflected in soil in the vicinity of the Musgrave Conductor (10-25 ppm). Evidence for a two fold enrichment in soil relative to rock is not evident therefore it cannot be unequivocally stated that soil geochemical results generated in 1984 have been explained.

The Zn content of rock from Trench F is variable, ranging from 5-2166 ppm. If a threefold

hydromorphic enrichment in soil relative to rock is considered then the Zn content of bedrock in the vicinity of Trench F is more than sufficient to explain a 1984 mean soil geochemical response of 172 ppm.

The Mn content of the rock is typically 400-500 ppm. Responses in soil (1984) were typically 500-1200 ppm in the vicinity of the Musgrave Conductor. A two fold enrichment in soil would not be unexpected.

Au and Ba responses were low in rock and in soil; one must therefore conclude that it is not present in either medium in any appreciable quantity.

CONCLUSIONS

Detailed mapping around Bruce Peak and Hope Hill has confirmed the extensive nature of both the lapilli tuff and feldspar crystal tuff units. Feldspar crystal tuff has now been delineated over a strike length of 4 km through the Musgrave Anomaly Grid.

The presence of feldspar-phyric andesite on Hope Hill has provided cause for re-interpretation of 1984 geologic data. Much of what was previously interpreted as mafic volcanic rock must now be considered a fine grained phase of the gabbro.

Bedded and fracture controlled pyrite mineralization in siltstone, cherty-siltstone was detected in a ditch and trench adjacent to the Musgrave Road, just north of Line F, 26+60W. Pyrite disseminations and blebs were likely generated in a euxinic environment; however more thickly bedded pyrite (1.5 cm) likely required a

hydrothermal source.

The bedded pyrite is conductive. It could represent a part of the Musgrave Conductor (Mallalieu et al, 1984). Most black siltstone has a sufficiently high Zn content to explain Zn responses in 1984 soil geochemical samples (Mallalieu et al, 1984).


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APPENDIX A
LITHOLOGICAL DESCRIPTIONS OF MAPPED ROCK-TYPES
SALTSPRING ISLAND

APPENDIX A
LITHOLOGICAL DESCRIPTIONS OF MAPPED ROCK-TYPES

Unit 5a Polymictic conglomerate

Polymictic conglomerate was mapped northeast of Cape Keppel on the north side of South Mount Tuam Road. Matrix-supported clasts (2 to 40 cm, 50%) are rounded and consist of chert, diorite and jasper magnetite. The matrix is beige to light green, and psammitic in nature. Granules of quartz, shale and sandstone (<4mm, <20%) are randomly distributed throughout the fine-grained groundmass. Jasper clasts (35%) are composed of angular jasper fragments (<10 m, 40%), supported in a massive, grey-white cryptocrystalline quartz-magnetite matrix.

Bedding is rare.

Unit 5b Siltstone

Siltstone is a black to dark grey, fine-grained gritty textured rock. Locally, dark and light-grey bedding is displayed on fracture/joint facies. It is locally calcareous, with carbonate existing as aphanitic interstitial grains (<2%).

Unit 4a Gabbro/Diabase

Gabbro/diabase of the mafic intrusion unit is massive, medium green, and fine- to coarse-grained. Plagioclase and actinolite (0.5-10 mm, 50:50) phenocrysts are subhedral blocky to euhedral lath-like. They are randomly distributed throughout a fine-grained subophitic textured matrix of identical mineralogy. Massive equigranular phases will contain minor interstitial anhedral plagioclase and actinolite.

Unit 4b Feldspar-glomerophyric diabase

Feldspar-glomerophyric diabase (Plate 3a) is a fine-grained, medium dark green, massive rock in which glomerophyric textures are generated by the clustering of individual plagioclase phenocrysts into rosettes (1-2 cm <20%)) or snowflake patterns. The groundmass is composed predominantly of fine-grained actinolite and isolated, equant greenish-white (1-2 mm, 7%) plagioclase. This lithology often occurs near the diabase/gabbro contact and may be a contact phase.

Unit 4c Amphibole pegmatite

Amphibole pegmatite is a massive black rock composed of random oriented euhedral to subhedral (5-15 mm) amphibole laths (50-80%) locally dusted with red powdery hematite. Plagioclase is white, anhedral to subhedral lath-like (2 mm) and interstitial to amphibole.

Units 3s Blackshale-siltstone

The blackshale-siltstone is a fine-grained fissile, to weakly fissile, dull black rock. It is thinly bedded. When in close proximity to diabase sill, silicification of this rock results in the 'bleaching' to a pale green-white.

Carbonate occurs as individual grains (<0.5 mm, <5%) randomly distributed throughout or as rare, narrow veinlets (1-6 mm) accounting for up to 40% of the rock. Veinlets are aligned parallel to cleavage. Minor pyrrhotite and pyrite (totalling <2%) occur locally as disseminations and blebs. Pyrite accounts for up to 5% of the mode as smears on fracture surfaces. Graptolite? or plant debris(?), fossils were encountered on a road quarry about 2 km south of Bruce Peak .

Unit 3p Muscovite Schist

Muscovite schist was intersected on the south side of Musgrave Road in the vicinity of the road quarry. It is a fine-grained, pale green, highly lustrous, schistose rock. A rusty weathered unknown metallic mineral (1 mm, <2%) is randomly distributed throughout. It is stretched into the plane of schistosity.

Unit 3g Greywacke, psammite

Greywacke is a massive, fine-grained grey to grey-green rock composed of detrital quartz, feldspar and calcite. Rock fragments are not evident.

Psammite is a light grey, fine-grained rock containing minor (<1%) fragments of feldspar (10 mm) hosted in a quartz-rich groundmass. Orange-weathered, needle-like (3 x 0.2 mm, 5%) mica grains defines a slight schistosity.

Unit 3c Marble and impure carbonate

Marble is a massive, fine-grained, translucent white rock exhibiting a rough "scaly" fracture surface. The rock effervesces vigorously upon exposure to HCl. Impure carbonate is a fine-grained, (<0.1 mm) grey to grey-green rock with a gritty texture. Bedding is defined by subtle colour variations and by 5 to 10 mm thick, pale white siliceous interbeds. The rock reacts only slightly to HCl.

Unit 3i Lapilli tuff

Lapilli tuff was recognized in only one locality within the Sediment unit. It was intersected immediately west of Mount Tuam near the eastern property boundary of the Tibetan Buddhist retreat.

It is a medium green, slightly chloritic, massive, intermediate to mafic-composition rock. Randomly distributed throughout are anhedral white feldspar crystals (1 to 2 mm, 2 to 3%) and lithic clasts of felsic composition (1 by 2 cm, <5%). Lapilli are aligned parallel to a mild deformation fabric.

Unit 3m Mafic volcanic rocks

Mafic volcanic rocks are massive, fine- to coarse-grained and dark green. Only rarely is a slight foliation evident. Greenish-white, anhedral sub-equant to subhedral lath-like plagioclase phenocrysts (1 to 3 mm, 1 to 7%) are randomly distributed throughout a fine-grained groundmass. Matrix is subophitic textured. It is composed of subhedral lath-like amphibole (green to black) <2 mm, 40-50%) partially enclosing plagioclase laths.

Flow textures and fabrics are conspicuously absent.

Unit 3d Dacite

Dacite is a massive, buff-white weathering unit. The fresh surface is light greenish, composed of a fine-grained aggregate of quartz, feldspar and amphibole. A lineation is defined by acicular, dark grey amphiboles (1 by 10 mm) aligned parallel to a weak foliation.

Unit 2a Quartz porphyry

Quartz porphyry of the Saltspring Intrusion is a leucocratic granitoid rock occupying the north shore of Burgoyne Bay.

Grey to light-blue subhedral equant quartz-eyes (3 to 5 mm, 5%) and anhedral fine-grained hornblende and biotite clots (5mm, 5 to 15%) are randomly distributed throughout a fine-grained grey to white quartz-feldspar matrix.

Unit 1t Rhyolitic tuff

Rhyolitic tuff is a pale white to pale green, fine-grained to cryptocrystalline, finely laminated, cherty rock. Needle-like plagioclase crystallites (0.1 by 1 mm) are rare. Crystallites are off-white, aligned parallel to bedding and locally account for up to 5% of the mode.

The best example of rhyolitic tuff exhibiting laminated bedding is on Line B; east side of Musgrave Road (Plate 4a). Beds, 3 cm thick contain white, elliptical feldspar crystals (1.5 by 4 mm, 25%) alternate with beds 4 cm thick devoid of crystals (cherty interbeds). Grading in crystal-rich beds is not evident.

Unit 1x Feldspar crystal tuff

Feldspar crystal tuff is encountered north of the Musgrave Road and is most evident in the vicinity of the eastern half of the Musgrave Grid.

It is a grey fine-grained moderately schistose to massive intermediate composition rock. Randomly distributed throughout are equant to elliptical, cream-white plagioclase crystals (1 mm, 20%) on elongate, off-white, feldspar-rich lapilli (2 by 10 mm, 10%), aligned parallel to schistosity (Plate 4b). Minor equant quartz crystals (<1 mm, <1%) are disseminated throughout.

Unit 1p Chlorite-sericite schist, chlorite schist

Chlorite-sericite schist and chlorite schist are gradational units. They are usually in close proximity to feldspar crystal tuff.

The rock is pale-green, lustrous, aphanitic, and strong to weakly schistose. Rarely highly diffuse, elongate feldspar crystals (2 by 4 mm) account for up to 10% of the mode.

Unit 11 Lapilli tuff, lapilli-block tuff

Lapilli tuff, lapilli-block tuff was encountered in three areas within the Myra Formation:

- a) the western slopes of Hope Hill
- b) the northern and western slopes of Bruce Peak and
- c) the western and northern slopes of Mount Sullivan

The rock is monolithic in all localities except in location (a), where its heterolithic nature is displayed. The matrix of the rock is dark green, medium-grained, moderately chloritic to finegrained grey. Sausseritized feldspar crystals (3 mm, 7%) are randomly distributed throughout. Composition ranges from mafic to intermediate.

Lapilli are buff-white, about 3 cm in diameter rounded to angular and account for 5 to 7% of the rock. Elliptical blocks, up to 100 cm in length and 15 cm in width (25%) are buff-white to grey-green and aligned parallel to a mild schistosity. Locally, (Hope Hill) a grey reaction 1 m 4 cm thick, surrounds the blocks.

Clasts are intermediate to mafic in composition. Mafic clasts are composed of fine-grained, lath-like actinolite and feldspar. Anhedral feldspar crystals (3mm, 15%) are randomly distributed throughout.

Unit 1q Quartz-feldspar-phyric rhyodacite to rhyolite

Quartz-feldspar-phyric rhyodacite to rhyolite is a massive grey green to pale-white, fine-grained rock. Cream-white, subhedral blocky to anhedral plagioclase phenocrysts (3 mm, 10%) and locally subhedral quartz phenocrysts (1 mm, <2%) are randomly distributed throughout.

Randomly oriented, barren, white quartz veins (<100 cm) are locally present.

Unit 1d Dacite

Dacite is a massive grey to light-green, fine-grained, aphyric to feldspar phyric rock. Subhedral lath-like to blocky feldspar phenocrysts (1 mm, 3%) are yellowish-green and randomly distributed throughout.

Unit 1m Mafic volcanic rocks.

Mafic volcanic rocks are, for the most part, identical in composition and texture as those described in Unit 3m.

The mafic volcanic rock encountered on the Musgrave Grid is massive, fine-grained, grey with a slight mauve tinge. Anhedral, grey to translucent grey feldspar phenocrysts (1 mm, 2%) are distributed through a non-chloritized matrix. Flow textures and fabrics are conspicuously absent.

Outcrop is typically rubbly and exposure is poor.

Unit 1a Amphibolite

Is a massive, blue-green, moderately chloritic rock. Amphibole is subhedral lath-like (< 1 cm, 80%),

randomly oriented throughout. Feldspar is anhedral, equant, and interstitial to amphibole. It is up to 5 mm in diameter. It displays a greenish-white rim and dark green core. It locally accounts for 50% of the rock.

Amphibolite likely represents a metamafic flow.

Unit 1s Siltstone

Siltstone is a fine-grained blocky, massive to moderately fissile rock. It is thinly bedded and is 'bleached' to a pale green-white when in proximity to diabase sills.

Interbeds (< 1 cm) of grey to black siltstone (50%) and white, fine-grained felsic tuff (50%) locally exhibit graded bedding (Plate 6). Angular rip-up clasts of siltstone (3 x 15 cm, 15%) encompassed in felsic tuff was encountered in one locality.

"Pillow-like" concretionary structures up to 50 cm in diameter were recognized in a single outcrop east of Burgoyne Bay.

Unit 1c Impure carbonate

Impure carbonate was encountered in a single outcrop on the Musgrave Grid. It is fine-grained, sugary textured, siliceous rock exhibiting diffuse thin, white and blue-black (4 cm) bedding. It is moderately calcareous.

The rock is likely related to interbedded siltstone and felsic tuff.

APPENDIX B
BA ANALYSES OF SELECTED SOIL GEOCHEMICAL SAMPLES
1984
SALTSPRING ISLAND

SAMPLE#	Ba ppm
STD CB-400	1220
SA 20741	261
SA 20742	338
SA 20748	328
SA 20749	656
SA 20761	474
SA 20766	1387
SA 20767	920
SA 20838	603
SA 20839	907
SA 20840	1146
SA 20841	899
SA 20843	562
SA 20844	711
SA 20845	489
SA 20850	1536
SA 20854	873
SA 20855	509
SA 20856	640
SA 20857	386
SA 20859	367
SA 20860	543
SA 20864	488
SA 20865	508
SA 20866	900
SA 20895	128
SA 20896	211
SA 20897	517
SA 20911	500
SA 20980	418
SA 20981	242
SA 20982	213
SA 20983	226
SA 20984	105
SA 21001	739
SA 21007	834
SA 21008	967
SA 21011	561
SA 21012	778
SA 21017	122
SA 21018	234
SA 21019	230
STD CB-400	1199

APPENDIX C
SOIL GEOCHEMICAL RESULTS - 1985
SALTSPRING ISLAND

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
SA08001	50.00	19.00	92.00	0.10	870.00	1.00	423.00
SA08002	70.00	4.00	99.00	0.20	911.00	0.00	0.00
SA08003	37.00	0.00	89.00	0.10	1082.00	1.00	274.00
SA08004	84.00	0.00	116.00	0.10	3078.00	0.00	0.00
SA08005	75.00	30.00	90.00	0.20	1740.00	5.00	243.00
SA08006	23.00	11.00	85.00	0.10	2293.00	0.00	0.00
SA08007	43.00	17.00	64.00	0.20	547.00	1.00	468.00
SA08008	48.00	22.00	231.00	0.20	1395.00	0.00	0.00
SA08009	55.00	6.00	124.00	0.20	1610.00	1.00	377.00
SA08010	16.00	15.00	73.00	0.20	892.00	0.00	0.00
SA08011	7.00	14.00	88.00	0.30	736.00	1.00	291.00
SA08012	30.00	10.00	96.00	0.80	585.00	0.00	0.00
SA08013	24.00	25.00	291.00	0.50	1817.00	5.00	623.00
SA08014	16.00	9.00	140.00	0.20	389.00	0.00	0.00
SA08015	40.00	10.00	165.00	0.10	1812.00	1.00	351.00
SA08016	34.00	2.00	146.00	0.20	1983.00	0.00	0.00
SA08017	70.00	2.00	115.00	0.20	1127.00	1.00	253.00
SA08018	22.00	9.00	71.00	0.10	799.00	0.00	0.00
SA08019	21.00	13.00	210.00	0.30	2548.00	2.00	332.00
SA08020	13.00	10.00	73.00	0.10	605.00	0.00	0.00
SA08021	17.00	8.00	82.00	0.10	1322.00	1.00	322.00
SA08022	7.00	14.00	91.00	0.20	403.00	0.00	0.00
SA08023	69.00	25.00	678.00	0.90	3202.00	2.00	717.00
SA08024	16.00	14.00	91.00	0.30	835.00	0.00	0.00
SA08025	30.00	15.00	335.00	0.30	3044.00	1.00	461.00
SA08026	170.00	12.00	151.00	0.20	2202.00	0.00	0.00
SA08027	85.00	8.00	161.00	0.10	3761.00	1.00	535.00
SA08028	26.00	2.00	108.00	0.10	945.00	0.00	0.00
SA08029							

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
SA08000	34.00	15.00	114.00	0.10	1329.00	1.00	429.00
SA08001	36.00	9.00	55.00	0.10	489.00	0.00	0.00
SA08002	29.00	9.00	90.00	0.10	760.00	1.00	400.00
SA08003	18.00	16.00	164.00	0.10	763.00	0.00	0.00
SA08004	20.00	11.00	100.00	0.10	1492.00	1.00	357.00
SA08201	35.00	19.00	197.00	0.40	1611.00	1.00	343.00
SA08202	32.00	11.00	135.00	0.10	1943.00	0.00	0.00
SA08203	13.00	9.00	66.00	0.10	450.00	1.00	263.00
SA08204	18.00	9.00	47.00	0.10	296.00	0.00	0.00
SA08205	78.00	10.00	183.00	0.20	1907.00	1.00	677.00
SA08206	35.00	9.00	153.00	0.10	1349.00	0.00	0.00
SA08207	29.00	11.00	71.00	0.10	661.00	1.00	306.00
SA08208	18.00	8.00	112.00	0.10	533.00	0.00	0.00
SA08209	31.00	13.00	64.00	0.20	359.00	1.00	309.00
SA08210	15.00	15.00	126.00	0.10	1521.00	0.00	0.00
SA08211	35.00	6.00	114.00	0.10	685.00	1.00	683.00
SA08212	17.00	10.00	171.00	0.10	2083.00	0.00	0.00
SA08213	50.00	12.00	106.00	0.10	914.00	1.00	539.00
SA08214	135.00	9.00	93.00	0.60	604.00	0.00	0.00
SA08215	33.00	10.00	132.00	0.10	633.00	3.00	536.00
SA08216	22.00	11.00	73.00	0.10	592.00	0.00	0.00
SA08217	38.00	11.00	104.00	0.10	1112.00	1.00	293.00
SA08218	34.00	10.00	116.00	0.10	766.00	0.00	0.00
SA08219	43.00	10.00	131.00	0.30	1081.00	1.00	1126.00
SA08220	45.00	9.00	90.00	0.10	684.00	0.00	0.00
SA08221	36.00	8.00	123.00	0.20	2316.00	1.00	726.00
SA08222	30.00	3.00	72.00	0.10	917.00	1.00	0.00
SA08223	31.00	11.00	203.00	0.10	671.00	1.00	1558.00
SA08224	26.00	11.00	130.00	0.20	384.00	0.00	0.00
SA08225	21.00	3.00	41.00	0.10	600.00	3.00	300.00
SA08226	16.00	10.00	51.00	0.10	490.00	0.00	0.00
SA08227	16.00	0.00	79.00	0.10	111.00	1.00	201.00
SA08228	11.00	0.00	0.00	0.10	0.00	0.00	0.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
SA08230	80.00	15.00	78.00	0.30	746.00	1.00	335.00
SA08231	63.00	12.00	75.00	0.30	438.00	0.00	0.00
SA08232	110.00	10.00	301.00	0.10	2380.00	1.00	445.00
SA08233	49.00	18.00	55.00	0.10	421.00	0.00	0.00
SA08234	27.00	8.00	158.00	0.10	809.00	1.00	307.00
SA08235	34.00	21.00	229.00	0.30	2372.00	0.00	0.00
SA08236	12.00	15.00	139.00	0.10	1759.00	1.00	247.00
SA08237	22.00	17.00	123.00	0.10	1684.00	0.00	0.00
SA08238	103.00	8.00	109.00	0.10	1056.00	1.00	239.00
SA08239	19.00	6.00	169.00	0.10	810.00	0.00	0.00
SA08240	18.00	9.00	79.00	0.20	377.00	4.00	293.00
SA08241	23.00	15.00	135.00	0.10	627.00	0.00	0.00
SA08242	24.00	10.00	62.00	0.10	434.00	3.00	333.00
SA08243	36.00	8.00	47.00	0.10	507.00	0.00	0.00
SA08244	40.00	2.00	55.00	0.10	762.00	1.00	392.00
SA08245	72.00	2.00	34.00	0.10	247.00	0.00	0.00
SA08246	65.00	7.00	97.00	0.30	611.00	5.00	328.00
SA08247	20.00	3.00	93.00	0.10	533.00	0.00	0.00
SA08248	24.00	8.00	36.00	0.10	410.00	1.00	382.00
SA08249	14.00	5.00	50.00	0.10	337.00	0.00	0.00
SA08250	34.00	3.00	55.00	0.10	265.00	3.00	406.00
SA08251	16.00	4.00	32.00	0.10	375.00	0.00	0.00
SA08252	21.00	3.00	40.00	0.10	398.00	1.00	415.00
SA08253	46.00	2.00	43.00	0.10	381.00	0.00	0.00
SA08254	35.00	5.00	65.00	0.10	406.00	0.00	382.00
SA08255	53.00	2.00	55.00	0.20	338.00	0.00	0.00
SA08256	62.00	13.00	64.00	0.20	1389.00	0.00	322.00
SA08257	75.00	6.00	50.00	0.10	447.00	0.00	0.00
SA08258	38.00	6.00	159.00	0.20	741.00	4.00	508.00
SA08259	104.00	2.00	143.00	0.40	1399.00	0.00	0.00
SA08260	35.00	9.00	368.00	0.60	1541.00	11.00	1546.00
SA08261	39.00	13.00	529.00	0.40	2023.00	0.00	0.00
SA08262	33.00	8.00	127.00	0.40	590.00	1.00	440.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
SA08253	38.00	29.00	129.00	0.30	1494.00	0.00	0.00
SA08264	68.00	7.00	106.00	0.20	1091.00	2.00	575.00
SA08265	27.00	11.00	77.00	0.20	321.00	0.00	0.00
SA08266	18.00	9.00	101.00	0.20	1349.00	1.00	504.00
SA08267	34.00	8.00	129.00	0.10	952.00	0.00	0.00
SA08268	30.00	5.00	86.00	0.10	727.00	2.00	506.00
SA08269	21.00	13.00	93.00	0.30	513.00	0.00	0.00
SA08270	37.00	8.00	126.00	0.30	612.00	1.00	470.00
SA08271	21.00	6.00	55.00	0.10	431.00	0.00	0.00
SA08272	18.00	2.00	46.00	0.30	191.00	1.00	328.00
SA21039	16.00	2.00	76.00	0.20	374.00	0.00	0.00
SA21040	28.00	2.00	58.00	0.10	335.00	2.00	392.00
SA21041	25.00	2.00	63.00	0.20	624.00	0.00	0.00
SA21042	31.00	2.00	49.00	0.10	410.00	5.00	426.00
SA21043	13.00	6.00	62.00	0.10	796.00	0.00	0.00
SA21044	13.00	3.00	49.00	0.20	516.00	1.00	484.00
SA21045	28.00	16.00	72.00	0.10	1083.00	0.00	0.00
SA21046	28.00	6.00	67.00	0.10	527.00	1.00	311.00
SA21047	36.00	11.00	78.00	0.10	561.00	0.00	0.00
SA21048	38.00	2.00	68.00	0.10	325.00	3.00	288.00
SA21049	23.00	12.00	56.00	0.10	491.00	0.00	0.00
SA21050	40.00	10.00	62.00	0.10	549.00	1.00	264.00
SA21051	29.00	8.00	54.00	0.10	262.00	0.00	0.00
SA21052	31.00	2.00	71.00	0.20	324.00	1.00	279.00
SA21053	24.00	9.00	63.00	0.10	536.00	0.00	0.00
SA21054	74.00	11.00	56.00	0.10	795.00	2.00	241.00
SA21055	33.00	7.00	67.00	0.10	329.00	0.00	0.00
SA21056	25.00	8.00	76.00	0.20	380.00	1.00	307.00
SA21057	8.00	5.00	35.00	0.10	259.00	0.00	0.00
SA21058	20.00	7.00	83.00	0.10	977.00	2.00	326.00
SA21059	13.00	5.00	112.00	0.10	1197.00	0.00	0.00
SA21061	36.00	14.00	107.00	0.20	341.00	2.00	485.00
SA21062	30.00	5.00	62.00	0.20	544.00	1.00	357.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au *	Mn
SA21063	28.00	5.00	77.00	0.30	341.00	0.00	0.00
SA21064	142.00	18.00	122.00	0.30	2411.00	5.00	159.00
SA21065	46.00	5.00	88.00	0.30	359.00	0.00	0.00
SA21066	44.00	13.00	79.00	0.30	582.00	1.00	299.00
SA21067	17.00	13.00	173.00	0.30	1440.00	0.00	0.00
SA21068	38.00	12.00	133.00	0.10	2624.00	1.00	242.00
SA21069	77.00	14.00	296.00	0.50	1144.00	0.00	0.00
SA21070	41.00	9.00	44.00	0.30	428.00	3.00	315.00
SA21071	56.00	4.00	104.00	0.30	1345.00	0.00	0.00
SA21072	40.00	8.00	62.00	0.30	317.00	1.00	246.00
SA21073	119.00	9.00	82.00	0.40	599.00	0.00	0.00
SA21074	49.00	6.00	93.00	0.40	365.00	1.00	258.00
SA21075	22.00	3.00	67.00	0.10	1174.00	0.00	0.00
SA21076	30.00	4.00	43.00	0.10	277.00	5.00	275.00
SA21077	30.00	8.00	82.00	0.10	430.00	0.00	0.00
SA21078	618.00	8.00	58.00	0.20	543.00	1.00	309.00
SA21079	39.00	8.00	61.00	0.10	770.00	0.00	0.00
SA21080	37.00	10.00	49.00	0.20	418.00	1.00	271.00
SA21082	14.00	13.00	53.00	0.20	490.00	0.00	0.00
SA21083	17.00	6.00	77.00	0.10	736.00	0.00	0.00
SA21084	28.00	8.00	55.00	0.10	693.00	45.00	290.00
SA21085	34.00	12.00	76.00	0.20	1097.00	0.00	0.00
SA21086	33.00	4.00	44.00	0.10	300.00	1.00	240.00
SA21087	31.00	2.00	59.00	0.10	848.00	0.00	0.00
SA21088	19.00	5.00	68.00	0.10	541.00	3.00	299.00
SA21089	22.00	2.00	63.00	0.10	323.00	0.00	0.00
SA21090	19.00	7.00	59.00	0.10	629.00	1.00	213.00
SA21091	19.00	2.00	66.00	0.10	469.00	0.00	0.00
SA21092	29.00	6.00	58.00	0.20	531.00	1.00	213.00
SA21093	46.00	2.00	143.00	0.10	1255.00	0.00	0.00
SA21094	29.00	11.00	59.00	0.10	209.00	1.00	242.00
SA21095	36.00	5.00	43.00	0.20	184.00	0.00	0.00
SA21096	19.00	9.00	45.00	0.10	134.00	0.00	200.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
	22.00	9.00	60.00	0.10	976.00	0.00	0.00
SA21097	9.00	12.00	71.00	0.10	6645.00	1.00	242.00
SA21098	25.00	10.00	68.00	0.10	437.00	0.00	0.00
SA21099	34.00	7.00	72.00	0.20	396.00	1.00	300.00
SA21100	31.00	2.00	68.00	0.10	345.00	0.00	0.00
SA21101	40.00	2.00	76.00	0.10	374.00	2.00	342.00
SA21102	25.00	2.00	44.00	0.00	222.00	0.00	0.00
SA21103	47.00	3.00	155.00	0.30	745.00	4.00	330.00
SA21104	16.00	5.00	120.00	0.10	339.00	0.00	0.00
SA21105	57.00	9.00	125.00	0.40	505.00	1.00	314.00
SA21107	30.00	7.00	63.00	0.20	332.00	1.00	289.00
SA21108	18.00	10.00	95.00	0.10	959.00	0.00	0.00
SA21109	38.00	2.00	83.00	0.10	811.00	1.00	279.00
SA21110	9.00	12.00	61.00	0.10	1598.00	0.00	0.00
SA21111	49.00	11.00	123.00	0.30	2247.00	1.00	318.00
SA21112	41.00	2.00	85.00	0.10	800.00	0.00	0.00
SA21113	50.00	5.00	80.00	0.20	900.00	1.00	338.00
SA21115	31.00	8.00	75.00	0.10	398.00	1.00	336.00
SA21116	78.00	4.00	63.00	0.20	311.00	0.00	0.00
SA21117	15.00	4.00	82.00	0.10	742.00	1.00	347.00
SA21118	26.00	7.00	85.00	0.20	1577.00	0.00	0.00
SA21119	22.00	9.00	86.00	0.20	720.00	7.00	290.00
SA21120	21.00	7.00	52.00	0.20	397.00	0.00	0.00
SA21121	45.00	16.00	69.00	0.10	1543.00	2.00	321.00
SA21122	25.00	2.00	57.00	0.10	332.00	0.00	0.00
SA21123	46.00	4.00	50.00	0.10	267.00	1.00	267.00
SA21124	26.00	4.00	78.00	0.10	579.00	0.00	0.00
SA21125	26.00	5.00	66.00	0.20	691.00	1.00	455.00
SA21126	56.00	12.00	103.00	0.10	1013.00	0.00	0.00
SA21127	59.00	15.00	109.00	0.10	2474.00	2.00	515.00
SA21128	114.00	2.00	134.00	0.20	1099.00	0.00	0.00
SA21129	26.00	2.00	73.00	0.00	636.00	1.00	411.00
SA21130	25.00	2.00	50.00	0.20	352.00	0.00	0.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
SA21132	17.00	7.00	54.00	0.10	896.00	1.00	410.00
SA21133	30.00	6.00	65.00	0.10	1874.00	0.00	0.00
SA21134	46.00	8.00	50.00	0.10	660.00	1.00	426.00
SA21135	21.00	5.00	73.00	0.10	1409.00	0.00	0.00
SA21136	27.00	2.00	42.00	0.10	347.00	1.00	416.00
SA21137	20.00	5.00	65.00	0.30	575.00	0.00	0.00
SA21138	14.00	3.00	53.00	0.10	876.00	1.00	410.00
SA21139	35.00	4.00	105.00	0.10	1153.00	0.00	0.00
SA21140	34.00	13.00	60.00	0.10	572.00	1.00	461.00
SA21141	19.00	16.00	66.00	0.10	897.00	0.00	0.00
SA21142	32.00	9.00	95.00	0.10	774.00	1.00	410.00
SA21601	22.00	7.00	55.00	0.10	307.00	0.00	0.00
SA21602	17.00	4.00	75.00	0.10	972.00	1.00	416.00
SA21603	13.00	2.00	104.00	0.10	761.00	0.00	0.00
SA21604	21.00	4.00	56.00	0.10	255.00	1.00	347.00
SA21605	30.00	5.00	65.00	0.10	368.00	0.00	0.00
SA21606	23.00	8.00	59.00	0.10	1532.00	1.00	406.00
SA21607	29.00	2.00	80.00	0.10	562.00	0.00	0.00
SA21608	32.00	2.00	65.00	0.10	432.00	1.00	331.00
SA21609	18.00	2.00	86.00	0.10	1114.00	0.00	0.00
SA21610	6.00	7.00	15.00	0.20	73.00	1.00	381.00
SA21611	21.00	7.00	46.00	0.10	182.00	0.00	0.00
SA21612	21.00	6.00	45.00	0.10	476.00	1.00	426.00
SA21613	7.00	3.00	52.00	0.10	531.00	0.00	0.00
SA21614	26.00	10.00	54.00	0.10	365.00	1.00	402.00
SA21615	13.00	11.00	75.00	0.10	876.00	0.00	0.00
SA21616	39.00	3.00	50.00	0.10	387.00	1.00	441.00
SA21617	39.00	3.00	90.00	0.10	629.00	0.00	0.00
SA21618	20.00	5.00	74.00	0.10	956.00	1.00	362.00
SA21619	23.00	13.00	74.00	0.20	1258.00	0.00	0.00
SA21620	32.00	3.00	69.00	0.10	571.00	0.00	313.00
SA21621	47.00	14.00	50.00	0.40	1563.00	0.00	0.00
SA21622	11.00	2.00	40.00	0.30	513.00	0.00	300.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
	10.00	4.00	60.00	0.30	707.00	0.00	0.00
SA21623	18.00	1.00	32.00	0.30	137.00	1.00	324.00
SA21624	17.00	2.00	32.00	0.10	130.00	0.00	0.00
SA21625	21.00	8.00	67.00	0.20	447.00	2.00	329.00
SA21626	32.00	2.00	65.00	0.10	1172.00	0.00	0.00
SA21627	27.00	2.00	53.00	0.20	363.00	1.00	267.00
SA21628	10.00	10.00	62.00	0.30	834.00	0.00	0.00
SA21629	24.00	9.00	82.00	0.10	882.00	1.00	319.00
SA21630	17.00	8.00	64.00	0.30	553.00	0.00	0.00
SA21631	7.00	2.00	71.00	0.10	848.00	1.00	345.00
SA21632	3.00	2.00	31.00	0.10	183.00	0.00	0.00
SA21633	18.00	2.00	66.00	0.20	306.00	2.00	360.00
SA21634	16.00	5.00	93.00	0.10	1160.00	0.00	0.00
SA21635	27.00	4.00	55.00	0.10	349.00	3.00	329.00
SA21636	6.00	2.00	31.00	0.10	526.00	0.00	0.00
SA21637	20.00	6.00	75.00	0.10	841.00	1.00	308.00
SA21638	33.00	10.00	104.00	0.10	2309.00	0.00	0.00
SA21639	18.00	7.00	81.00	0.20	1000.00	1.00	308.00
SA21640	20.00	4.00	75.00	0.10	1039.00	0.00	0.00
SA21641	32.00	12.00	96.00	0.20	1032.00	1.00	345.00
SA21642	18.00	5.00	120.00	0.30	807.00	0.00	0.00
SA21643	39.00	11.00	121.00	0.10	567.00	3.00	277.00
SA21644	29.00	2.00	89.00	0.10	692.00	0.00	0.00
SA21645	11.00	6.00	49.00	0.10	351.00	1.00	298.00
SA21646	31.00	2.00	77.00	0.10	1096.00	0.00	0.00
SA21647	39.00	11.00	71.00	0.10	1095.00	2.00	288.00
SA21648	25.00	2.00	80.00	0.30	722.00	0.00	0.00
SA21649	8.00	6.00	50.00	0.10	831.00	1.00	386.00
SA21650	23.00	4.00	90.00	0.10	1597.00	0.00	0.00
SA21651	19.00	12.00	63.00	0.10	1043.00	1.00	329.00
SA21652	13.00	5.00	64.00	0.10	322.00	0.00	0.00
SA21653	12.00	11.00	51.00	0.10	390.00	2.00	329.00
SA21654	26.00	8.00	62.00	0.10	263.00	0.00	0.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
SA21655	13.00	3.00	39.00	0.10	247.00	1.00	270.00
SA21656	45.00	2.00	55.00	0.30	131.00	0.00	0.00
SA21657	11.00	6.00	25.00	0.10	157.00	1.00	300.00
SA21658	20.00	6.00	54.00	0.20	334.00	0.00	0.00
SA21659	23.00	9.00	73.00	0.30	726.00	2.00	240.00
SA21660	17.00	2.00	109.00	0.10	829.00	0.00	0.00
SA21661	19.00	4.00	57.00	0.20	324.00	3.00	260.00
SA21662	23.00	11.00	60.00	0.30	291.00	0.00	0.00
SA21663	12.00	2.00	50.00	0.10	368.00	0.00	0.00
SA21664	27.00	2.00	54.00	0.10	368.00	0.00	0.00
SA21665	148.00	2.00	75.00	0.30	1013.00	1.00	240.00
SA21666	23.00	9.00	80.00	0.10	1969.00	0.00	0.00
SA21667	25.00	4.00	88.00	0.10	455.00	1.00	334.00
SA21668	35.00	2.00	57.00	0.30	372.00	0.00	0.00
SA21669	14.00	11.00	37.00	0.30	311.00	1.00	473.00
SA21670	31.00	5.00	45.00	0.10	264.00	0.00	0.00
SA21671	34.00	6.00	90.00	0.10	318.00	2.00	290.00
SA21672	95.00	2.00	80.00	0.20	341.00	0.00	0.00
SA21673	21.00	6.00	79.00	0.20	379.00	1.00	321.00
SA21674	20.00	5.00	58.00	0.10	1110.00	0.00	0.00
SA21675	24.00	4.00	95.00	0.20	519.00	3.00	265.00
SA21676	29.00	3.00	64.00	0.10	289.00	0.00	0.00
SA21677	17.00	7.00	63.00	0.10	525.00	4.00	250.00
SA21678	41.00	2.00	60.00	0.10	353.00	0.00	0.00
SA21679	27.00	2.00	92.00	0.10	682.00	1.00	264.00
SA21680	13.00	11.00	108.00	0.10	1717.00	0.00	0.00
SA21681	12.00	20.00	45.00	0.10	949.00	1.00	347.00
SA21682	22.00	10.00	65.00	0.10	350.00	0.00	0.00
SA21683	18.00	2.00	60.00	0.10	218.00	3.00	275.00
SA21684	26.00	3.00	56.00	0.10	375.00	1.00	234.00
SA21685	14.00	9.00	77.00	0.10	770.00	0.00	0.00
SA21686	17.00	9.00	84.00	0.10	871.00	1.00	265.00
SA21687	21.00	4.00	47.00	0.10	340.00	0.00	0.00

* Results reported in ppb,
all others reported in ppm.

	Cu	Pb	Zn	Ag	Mn	Au*	Ba
SA21690	11.00	9.00	76.00	0.10	1001.00	1.00	295.00
SA21691	13.00	11.00	67.00	0.10	988.00	0.00	0.00
SA21692	13.00	3.00	143.00	0.10	1007.00	1.00	250.00

* Results reported in ppb,
all others reported in ppm.

APPENDIX D
ROCK GEOCHEMICAL RESULTS - TRENCH F
SALTSPRING ISLAND

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MAY 16 1985 DATE REPORT MAILED: *May 27/85* ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

KIDD CREEK MINES PROJECT - 941 FILE # 85-0610

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Au
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppb	
AB-13618	1	19	7	13	.6	21	4	196	2.84	9	5	ND	1	9	1	2	2	22	.13	.01	2	30	.10	32	.02	20	.34	.01	.02	1	1
AB-13619	1	47	4	21	.5	17	7	359	2.00	4	5	ND	1	8	1	2	2	25	.36	.21	4	13	.15	122	.04	13	.34	.01	.02	1	2
AB-13620	1	35	3	15	.3	18	5	520	1.98	3	5	ND	1	4	1	2	2	31	.11	.04	4	19	.18	133	.04	23	.41	.01	.02	1	1
AB-13621	1	34	3	21	.3	15	5	369	1.74	2	5	ND	1	15	1	2	2	26	.75	.47	7	16	.13	144	.04	25	.34	.01	.02	1	3
AB-13622	1	61	2	22	1.0	25	9	464	2.57	4	5	ND	1	3	1	2	2	31	.12	.05	3	17	.18	98	.04	9	.40	.01	.02	1	2
AB-13623	1	33	2	15	.1	16	4	499	1.88	5	5	ND	1	4	1	2	5	27	.19	.10	4	16	.17	109	.03	27	.37	.01	.01	1	8
AB-13624	2	41	5	524	.5	20	5	291	2.22	39	5	ND	1	28	4	2	2	57	1.98	1.08	10	27	.19	221	.05	18	.52	.01	.04	1	22
AB-13625	1	28	5	26	.1	34	2	151	1.15	11	5	ND	1	11	1	2	2	55	.18	.02	2	19	.09	396	.03	18	.39	.01	.03	1	4
AB-13626	11	130	3	313	.9	49	11	517	4.06	7	5	ND	1	9	2	2	2	73	.25	.11	9	14	.27	57	.07	9	.71	.01	.04	1	8
AB-13627	8	120	2	283	.8	51	12	542	4.10	4	5	ND	1	11	2	2	2	75	.44	.25	10	15	.28	52	.06	12	.71	.01	.03	1	8
AB-13628	8	113	4	334	.4	50	11	531	4.05	3	5	ND	1	11	2	2	2	72	.36	.20	12	13	.27	64	.06	18	.71	.01	.04	1	16
AB-13629	8	121	3	342	.6	45	12	549	3.85	5	6	ND	1	9	2	2	2	74	.19	.08	9	15	.28	76	.06	17	.72	.01	.04	1	6
AB-13630	19	216	4	99	1.4	66	15	386	4.31	14	5	ND	1	5	1	2	2	54	.10	.03	4	9	.20	27	.06	14	.57	.01	.03	1	4
AB-13631	13	90	3	113	.4	75	8	370	3.26	3	5	ND	1	5	1	2	2	77	.10	.03	5	9	.18	86	.06	11	.52	.01	.03	1	20
AB-13632	25	270	6	77	2.1	67	23	404	7.37	61	5	ND	1	15	1	3	2	75	.24	.05	6	13	.24	16	.14	26	.98	.01	.03	1	16
AB-13633	20	133	3	112	.9	60	13	394	3.82	9	5	ND	1	5	1	2	3	61	.10	.03	5	9	.21	38	.06	19	.63	.01	.04	1	14
AB-13634	1	60	2	14	.1	12	4	200	1.24	2	5	ND	1	4	1	2	2	29	.07	.01	2	12	.39	113	.04	21	.43	.02	.04	1	4
AB-13635	1	81	2	46	.1	8	6	215	1.32	2	5	ND	1	2	1	2	5	23	.06	.01	2	9	.39	33	.03	9	.37	.02	.01	1	14
AB-13636	1	27	3	5	.2	3	2	43	1.20	2	5	ND	1	2	1	2	2	9	.01	.01	2	2	.01	131	.01	11	.04	.01	.01	1	2
AB-13637	9	125	2	212	1.0	49	13	586	4.43	13	5	ND	1	8	2	2	3	71	.17	.06	7	19	.30	38	.07	6	.76	.01	.03	1	16
AB-13638	16	152	5	146	1.6	59	19	440	5.33	25	5	ND	2	12	1	2	2	66	.18	.06	6	15	.24	26	.10	12	.78	.01	.04	1	12
AB-13639	13	89	3	133	.6	59	8	371	2.80	2	5	ND	2	4	1	2	3	58	.08	.03	4	9	.18	61	.05	13	.50	.01	.04	1	4
AB-13640	20	155	5	182	1.7	69	17	431	5.43	25	5	ND	1	10	1	2	2	66	.24	.11	6	12	.24	22	.08	13	.72	.01	.04	1	6
AB-13641	19	139	4	105	1.1	68	12	375	3.64	13	5	ND	1	7	1	2	3	65	.12	.03	5	11	.19	31	.07	11	.54	.01	.04	1	4
AB-13642	21	186	4	91	2.0	63	25	-426	5.96	40	9	ND	3	11	3	2	2	74	.15	.04	6	13	.26	19	.10	15	.86	.01	.03	1	1
AB-13643	1	22	4	105	.1	24	3	541	1.37	14	5	ND	1	4	1	2	2	15	.09	.01	2	9	.34	289	.04	16	.51	.01	.03	1	4
AB-13644	74	112	26	601	3.8	172	12	75	3.75	53	5	ND	1	14	4	5	2	32	.48	.04	2	3	.05	17	.07	2	.98	.01	.06	1	1
AB-13645	21	134	6	96	1.6	72	21	388	6.95	27	5	ND	1	11	1	2	2	67	.26	.10	3	12	.22	17	.10	10	.86	.01	.04	1	4
AB-13646	1	45	2	16	.3	28	6	152	1.48	5	5	ND	1	12	1	2	2	18	.13	.01	2	10	.19	248	.04	18	.52	.01	.12	1	4
AB-13647	1	59	9	103	.5	25	5	325	2.93	6	5	ND	1	20	1	2	2	12	.22	.02	5	8	.12	112	.02	19	.59	.01	.04	1	1
AB-13648	26	44	14	794	1.2	99	5	55	1.75	25	5	ND	1	27	5	2	2	17	.34	.02	2	2	.02	37	.04	8	.66	.01	.04	1	1
AB-13649	3	35	7	1277	.3	12	5	442	1.91	11	5	ND	1	26	9	2	2	17	.59	.01	2	8	.26	304	.06	16	.79	.01	.05	1	10
AB-13670	37	45	11	509	1.3	88	6	165	3.95	19	5	ND	1	20	3	2	2	32	.27	.03	4	4	.06	42	.02	11	.59	.01	.05	1	4
AB-13671	38	38	13	182	1.1	107	4	82	1.81	13	5	ND	1	24	1	2	2	20	.33	.03	2	3	.03	56	.04	9	.58	.01	.05	1	1
AB-13672	220	64	24	1833	2.9	126	9	83	3.00	15	5	ND	1	14	12	3	2	42	.28	.03	2	4	.04	19	.04	3	.56	.01	.06	1	1
AB-13673	36	34	9	778	1.2	88	5	81	2.85	3	5	ND	1	18	5	2	2	39	.25	.03	3	4	.04	57	.04	3	.51	.01	.06	1	4
STD C/AU 0.5	26	61	40	133	7.5	71	27	1189	3.95	40	17	7	36	49	18	15	23	59	.48	.16	39	59	.89	179	.08	37	1.74	.07	.12	12	490

KIDD CREEK MINES PROJECT 941 FILE # 85-0610

PAGE 2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au# ppb
AB-13674	30	43	9	868	1.0	88	5	58	1.69	17	5	ND	1	23	5	2	2	24	.37	.03	2	2	.05	31	.05	19	.69	.01	.06	1	1
AB-13675	1	27	2	181	.2	17	4	210	1.52	2	5	ND	1	5	1	2	2	12	.07	.01	2	8	.22	262	.03	5	.37	.01	.03	1	4
AB-13676	7	25	11	2166	.7	62	3	100	2.81	2	5	ND	1	26	13	2	2	49	.36	.03	3	10	.05	68	.06	5	.72	.01	.07	1	6
AB-13677	41	30	10	475	.7	81	4	52	1.64	2	5	ND	1	23	3	2	2	35	.30	.03	3	3	.03	58	.03	4	.60	.01	.05	1	1
AB-13678	29	40	11	864	1.2	93	6	56	1.78	36	5	ND	1	28	4	2	2	22	.40	.03	2	3	.02	38	.04	5	.77	.01	.04	1	4
AB-13679	3	30	5	1678	.3	10	4	400	1.87	10	5	ND	1	8	11	2	2	19	.17	.01	2	9	.32	187	.05	4	.56	.01	.06	1	8
AB-13680	3	32	11	1484	.1	14	5	426	1.85	12	5	ND	1	14	9	2	2	20	.46	.01	2	10	.28	236	.05	3	.57	.01	.05	1	7
AB-13681	1	30	3	215	.1	19	4	200	1.51	2	5	ND	1	12	1	2	2	11	.34	.15	2	8	.18	244	.04	10	.36	.01	.04	1	3
AB-13682	1	24	5	120	.2	11	4	173	1.12	3	5	ND	1	2	1	2	2	7	.07	.01	2	6	.13	173	.03	9	.21	.01	.03	1	2
AB-13683	7	37	10	1528	.4	13	5	439	2.14	22	5	ND	1	14	10	2	2	18	.47	.01	2	9	.31	104	.06	5	.64	.01	.05	1	5
AB-13684	2	35	6	43	.6	19	4	276	2.10	2	5	ND	1	36	1	2	2	29	.61	.22	4	24	.21	263	.03	19	.94	.01	.02	1	4
AB-13685	20	41	16	1553	.9	23	5	517	2.31	3	5	ND	2	40	10	2	2	23	.63	.02	2	10	.22	97	.10	2	1.42	.01	.06	1	1
AB-13686	36	33	20	320	1.0	61	4	89	1.85	21	5	ND	1	31	2	2	2	14	.41	.02	2	4	.02	56	.03	9	.69	.01	.02	1	4
AB-13687	1	34	8	44	.1	17	6	373	2.40	4	5	ND	1	38	1	2	2	49	.72	.21	6	27	.44	2162	.10	13	1.30	.04	.04	1	5
AB-13688	2	37	10	211	.1	25	9	1524	9.11	2	10	ND	3	17	1	2	2	51	.43	.06	8	22	.40	202	.14	10	1.19	.04	.05	1	1
AB-13689	1	8	2	35	.1	24	12	694	2.49	2	7	ND	2	24	1	2	9	53	.62	.14	5	42	2.19	52	.15	10	1.96	.03	.02	1	1
AB-13690	5	21	11	32	.1	6	4	208	2.17	2	5	ND	2	4	1	2	6	18	.12	.03	6	3	.74	130	.08	15	.81	.01	.13	1	1
AB-13691	2	29	6	42	.1	19	8	4398	2.08	2	5	ND	4	26	1	2	5	45	.29	.05	12	27	.49	157	.12	15	1.41	.05	.07	1	2
AB-13692	4	19	2	46	.2	17	7	5777	2.02	2	7	ND	5	24	1	2	4	44	.25	.05	16	28	.47	113	.13	18	1.29	.05	.08	1	1
AB-13693	2	14	2	43	.1	16	5	5550	1.92	2	5	ND	4	35	1	2	5	39	.23	.04	16	22	.39	122	.15	10	1.19	.07	.09	1	1
AB-13694	1	10	7	42	.1	9	4	5036	1.80	2	5	ND	3	30	1	2	2	37	.23	.04	16	20	.38	90	.15	18	.94	.07	.11	1	1
AB-13695	5	30	7	1652	.3	13	5	656	2.07	16	5	ND	1	12	11	2	2	21	.25	.01	2	10	.30	243	.07	12	.65	.01	.05	1	7
AB-13696	3	30	6	818	.3	15	4	1062	1.85	8	5	ND	1	46	6	2	2	22	.63	.02	4	10	.27	740	.10	16	1.20	.01	.05	1	12
STD C:AU 0.5	20	59	40	131	7.3	69	27	1175	3.88	41	17	7	37	49	17	16	21	57	.48	.15	39	57	.87	175	.08	38	1.70	.07	.11	12	495

APPENDIX E
WHOLE ROCK GEOCHEMICAL ANALYSIS DATA
SALTSPRING ISLAND

==== K I D D C R E E K M I N E S L T D ====
 === KIDD CREEK MINE SITE COMPUTER SYSTEM ===

REPORT #2000

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 PRINTED 20-OCT-85
 10:32:12

SAMPLE ID # AB13637

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : DM94185019 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE :
 NIS : 092R14 PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE, THIN SECTION

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, TECTONIZED, CRYSTAL. LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 05-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	61.30	63.45	59.14	Q 21.94	NA2O+K2O 5.25 SiO2 63.45 SUBALKALINE
Al2O3	17.20	17.80	19.56	C 4.86	
Fe2O3	5.66	2.16	1.52	OR 14.11	OLA 15.92 NE* 25.63 QA 58.45 SUBALKALINE
FeO	0.00	3.32	2.59	AB 26.00	
CaO	3.44	3.56	3.56	AN 16.69	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MgO	3.47	3.59	4.99	LC 0.00	
Na2O	2.78	2.88	5.20	NE 0.00	A 37.19 F 37.36 M 25.45 THOLEIITIC
K2O	2.29	2.37	2.82	KP 0.00	
TiO2	0.59	0.61	0.43	AC 0.00	AL2O3 17.80 NORM PLAG 39.10 CALC-ALKALINE
P2O5	0.16	0.17	0.13	DI 0.00	
MnO	0.08	0.08	0.07	HE 0.00	AN 29.38 AB* 45.78 OR 24.84 K-RICH SERIES
S	0.00	0.00	0.00	EN 9.98	
NiO	0.00	0.00	0.00	FS 2.94	CI 16.05 NORM PLAG 39.10 ANDESITE
CR2O3	0.00	0.00	0.00	ED 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WD 0.00	JENSEN CALC-ALKALINE ANDESITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 67.10 EE 15.79 MG 17.11
LOI	3.16	0.00	0.00	MT 2.28	
TOTAL	96.61	100.00	100.00	IL 0.86	COLOR INDEX : 16.05 HASHIMOTO INDEX : 48.08
				CR 0.00	
				HM 0.00	
				AP 0.35	
				PU 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				OL 0.00	
				OPX 13.92	
				CPX 0.00	
				AB* 26.00	

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.B.)

CR	0.00:RB	50.00:SR	420.00:Y	40.00:ZR	150.00:NB	20.00:BA	920.00:AU	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CU	0.00:NI	0.00:EU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BE	0.00:MO	0.00:AG	0.00:CO	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.30:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PB	0.00:SI	0.00:TH	0.00:U	0.00:					

COMMENTS : FELDSPAR CRYSTAL THIN, FELDSPAR BLOCKY, 1-2 MM. IN DIAMETER V-104, SET IN AN INTERMEDIATE GROUND MASS, CHLORITE-FELDSPAR.

==== KIDD CREEK MINES LTD. ====
 === KIDD CREEK MINESITE COMPUTER SYSTEM ===

REPORT #3000

PAGE 1
 PRINTED 20-OCT-85
 10:33:16

SAMPLE ID # AB13638

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400
 TOWNSHIP :
 NTS : 092B13
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94185019
 LOT : 0 CONCESSION :
 GRID COORDINATES : E :

PROJECT # 941
 PROVINCE :
 PROJECT : SALTSRING BASE METAL
 0.0 N : 0.0 EL : 0.0

FIELD NAME :
 FINAL NAME :
 ALTERATION :
 MINERALIZATION :
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 06-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS
SI02	51.20	53.35	48.69	Q 0.00
AL2O3	17.80	18.55	19.95	C 0.00
FE2O3	9.53	2.48	1.70	OR 7.83
FE0	0.00	6.70	5.12	AF 45.81
CA0	5.48	5.71	5.58	AN 23.05
MGO	5.13	5.35	7.27	LC 0.00
NA2O	4.97	5.18	9.15	NE 0.00
K2O	1.29	1.34	1.57	KP 0.00
TIO2	0.88	0.92	0.63	AC 0.00
P2O5	0.22	0.23	0.18	BI 1.78
MNO	0.19	0.20	0.15	HE 0.92
S	0.00	0.00	0.00	EN 1.93
NIO	0.00	0.00	0.00	ES 1.00
CR2O3	0.00	0.00	0.00	EO 8.79
CO2	0.00	0.00	0.00	FA 4.58
H2O+	0.00	0.00	0.00	WD 0.00
H2O-	0.00	0.00	0.00	LN 0.00
LOI	3.31	0.00	0.00	MT 2.55
TOTAL	95.97	100.00	100.00	IL 1.26
				CR 0.00
				HM 0.00
				AP 0.47
				PO 0.00
				NS 0.00
				KS 0.00
				RU 0.00
				AB 0.00
				UL 13.37
				UPX 3.93
				CPX 2.71
				ABA 45.81

CLASSIFICATIONS AND INDICES					
NA2O+K2O	6.52	SI02	53.35	ALKALINE	
OLA	25.07	NEA	44.25	QA	30.68
CPX	14.24	OL	70.34	OPX	15.42
A	31.35	F	42.95	M	25.69
AL2O3	18.55	NORM	PLAG	33.48	CALC-ALKALINE
AN	30.06	ABA	59.73	OR	10.21
CI	22.83	NORM	PLAG	33.48	HAWAIIITE
JENSEN CALC-ALKALINE BASALT					
AL	57.29	FE	21.83	MG	20.88
COLOR INDEX : 22.83					
HASHIMOTO INDEX : 38.06					

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	50.00:RB	10.00:SK	240.00:Y	30.00:ZK	50.00:NB	20.00:BA	270.00:AU	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CO	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MB	0.00:AG	0.00:EN	0.00:SH	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
FB	0.00:SI	0.00:TH	0.00:U	0.00:					

COMMENTS : LAPPHI-BLOCK TUFF, MONOLITHIC, ACCOUNTS FOR 50% CLASTS UP TO 10 CM BY 10 CM. MATRIX IS INTERMEDIATE-CHLORITIZED

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:34:15

SAMPLE ID # AB13639

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400

FIELD NUMBER : D094185020

PROJECT # 941

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE :

NTS : 092N13

GRID COORDINATES : E :

0.0 N : 0.0 EL : 0.0

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.TECTONIZED,LOOK AT COMMENTS FILE.

FINAL NAME :

ALTERATION : METAMORPHOSED ,EPIDOTIZATION ,MODERATE.

MINERALIZATION : NODULES ,NIL ,NO COMMENT.

FORMATION :

SAMPLED BY : D. MALLALIEU.

DATE : 06-MAY-85

ANALYTICAL

ANALYZED BY : XRAL

DATE : 05-JUN-85

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SI02	52.20	54.67	49.50	Q	0.00	NA20+K20	6.67	SI02	54.67	ALKALINE		
AL2O3	16.60	17.38	18.55	C	0.00							
FE2O3	8.35	2.34	1.59	DR	5.09	OL*	22.15	NE*	46.53	QA	31.32	ALKALINE
FE0	0.00	5.77	4.37	AB	50.83							
CAO	5.63	5.90	5.72	AN	18.43	CPX	32.43	OL	63.84	OPX	3.72	SUBALKALINE
MGO	5.84	6.12	8.25	LC	0.00							
NA20	5.53	5.79	10.17	NE	0.00	A	32.30	E	38.09	M	29.61	THOLEIITIC
K20	0.24	0.88	1.02	KP	0.00							
TIO2	0.73	0.76	0.52	AC	0.00	AL2O3		17.38	NORM	PLAG	26.61	CALC-ALKALINE
P2O5	0.20	0.21	0.16	DI	5.10							
MNO	0.18	0.19	0.14	HE	1.97	AN	24.78	AB*	68.37	OR	6.84	SODIC
S	0.00	0.00	0.00	EN	0.59							
NiO	0.00	0.00	0.00	ES	0.23	CI		25.22	NORM	PLAG	26.61	HAWAIIITE
CR2O3	0.00	0.00	0.00	FO	10.03							
CO2	0.00	0.00	0.00	FA	3.88							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN						CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN	0.00	AL	55.50	FE	19.81	MG	24.69	
LOI	3.62	0.00	0.00	MT	2.39							
				IL	1.04							
TOTAL	95.49	100.00	100.00	CR	0.00	COLOR INDEX :		25.22				
				HM	0.00	HASHINOTO INDEX :		37.44				
				AP	0.43							
				FO	0.00							
				NS	0.00							
				KS	0.00							
				KU	0.00							
				AG	0.00							
				UL	13.91							
				OPX	0.81							
				CPX	7.07							
				ABA	50.83							

TRACE ELEMENTS (P.P.M.) AU.FT (P.P.B.)

CR	150.00:RB	20.00:SR	340.00:Y	30.00:ZR	40.00:NB	20.00:BA	270.00:AU	0.00:LI	0.00:
RE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CO	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:ER	0.00:MO	0.00:AG	0.00:CB	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HE	0.00:TA	0.00:W	0.00:
PB	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : P5806/90 CHLORITIC,MAFIC TUFF,MATRIX TO LARPELLI BLOCK TUFF,BLOCKY FELDSPARS ACCIT FOR 50% AND ARE 100. BLACK

REPORT #2000

PAGE 1
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 10:39:17

SAMPLE ID # A613640 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : DM94185021 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE :
 NTS : 092613 PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, TECTONIZED, FELDSPAR PORPHYRIC.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 06-MAY-85 ANALYTICAL
 ANALYZED BY : XRAL DATE : 05-JUN-85 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDRUS WT %	NORMALIZED ANHYDRUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	52.90	55.77	51.86	Q 7.29	NA2O+K2O 6.03 SiO2 55.77 SUBALKALINE
Al2O3	16.90	17.82	19.34	C 7.09	
Fe2O3	10.50	3.03	2.10	OR 8.87	OL* 25.29 NE* 33.69 GA 41.02 SUBALKALINE
FeO	0.00	7.24	5.57	AR 40.37	
CaO	1.75	1.85	1.82	AN 6.01	OPX 0.00 GL 0.00 OPX 100.00 SUBALKALINE
MgO	5.84	6.16	8.45	LC 0.00	
Na2O	4.29	4.53	8.07	NE 0.00	A 27.23 F 44.97 M 27.80 THOLEITIC
K2O	1.43	1.51	1.77	KF 0.00	AN 10.88 AB* 73.07 GK 16.05 AVERAGE SERIES
TiO2	1.37	1.44	1.00	AC 0.00	CI 29.39 NORM PLAG 12.96 ANDESITE
P2O5	0.45	0.47	0.37	DI 0.00	
MnO	0.18	0.19	0.15	HE 0.00	
S	0.00	0.00	0.00	EN 16.90	
NiO	0.00	0.00	0.00	ES 7.35	JENSEN CALC-ALKALINE BASALT
Cr2O3	0.00	0.00	0.00	FO 0.00	AL 52.83 FE 24.09 MG 23.08
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WD 0.00	
H2O-	0.00	0.00	0.00	LN 0.00	
LOI	4.00	0.00	0.00	MT 3.15	
TOTAL	94.85	100.00	100.00	IL 2.00	COLOR INDEX : 29.39 HASHIMOTO INDEX : 54.62
				CR 0.00	
				HM 0.00	
				AP 0.99	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				KU 0.00	
				AG 0.00	
				UL 0.00	
				OPX 24.25	
				CPX 0.00	
				ABA 40.37	

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.B.)

CR	0.00:RB	30.00:SK	110.00:Y	30.00:ZR	130.00:NB	20.00:BA	1130.00:AU	-10.00:LI	10.00:
BE	-10.00:R	20.00:SC	37.00:V	240.00:CR	2.00:CU	28.00:NI	8.00:CO	47.00:ZN	260.00:
AS	-2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CB	-0.20:SB	0.30:CS	-0.50:LA	14.00:
CE	41.00:NB	20.00:SM	6.40:EU	1.40:YS	4.20:LU	0.78:HC	-1.00:TA	-1.00:W	-3.00:
FB	26.00:NI	-0.50:TH	2.30:U	-0.50:					

COMMENTS : PS140738NE, FINE GRAINED APHYRIC ANDESITE, MODERATELY CHLORITIC, ESSENTIALLY CHLORITE-SCHIST.

==== K I D D C R E E K M I N E S L T D ====
 === KIDD CRCEK MINGSITE COMPUTER SYSTEM. ===

REPORT #2000

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SAMPLE ID # AB13641

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : DM94185022 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE :
 NTS : 092B13 PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, HETEROGENEUS, TECTONIZED, CRYSTAL.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, CHLORITIZATION, MODERATE.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 06-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %		NA2O+K2O	SiO2	SiO2	55.75	ALKALINE			
SiO2	53.10	55.75	50.84	Q	3.34	NA2O+K2O	7.13	SiO2	55.75	ALKALINE			
Al2O3	18.10	19.00	20.43	C	7.42	OLA	25.79	NEA	36.51	QA	37.70	SUBALKALINE	
Fe2O3	9.48	2.58	1.77	OR	13.39	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE	
FeO	0.00	6.63	5.06	AB	42.69	A	31.98	F	40.18	M	27.84	THOLEIITIC	
CaO	1.19	1.25	1.22	AN	4.48	AN	7.40	AB*	70.49	OR	22.11	SODIC	
MgO	5.91	6.20	8.43	LC	0.00	EN	16.87	CI	28.16	NORM PLAG	9.50	MUGEARITE	
Na2O	4.60	4.83	8.54	NE	0.00	ES	7.25	JENSEN CALC-ALKALINE BASALT					
K2O	2.19	2.30	2.68	KP	0.00	FD	0.00	AL	55.92	FE	20.99	MG	23.09
TiO2	0.96	1.01	0.69	AC	0.00	FA	0.00	COLOR INDEX : 28.16					
P2O5	0.24	0.25	0.19	DI	0.00	WO	0.00	HASHIMOTO INDEX : 58.32					
MnO	0.18	0.19	0.15	HE	0.00	LN	0.00						
S	0.00	0.00	0.00	EN	16.87	MT	2.66						
NiO	0.00	0.00	0.00	IL	1.38	CR	0.00						
CR2O3	0.00	0.00	0.00	HM	0.00	AP	0.52						
CO2	0.00	0.00	0.00	PD	0.00	NS	0.00						
H2O+	0.00	0.00	0.00	KS	0.00	KU	0.00						
H2O-	0.00	0.00	0.00	RU	0.00	AB	0.00						
LOI	4.00	0.00	0.00	OL	0.00	OPX	34.12						
TOTAL	95.25	100.00	100.00	CPX	0.00	CPX	0.00						
				AB*	42.69								

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.S.)

CR	110.00:RB	30.00:SR	120.00:Y	10.00:ZR	60.00:NB	10.00:BA	1270.00:AU	0.00:LI	0.00:
BE	0.00:B	0.00:SC	0.00:V	0.00:CR	0.00:CO	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:CD	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PF	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : PS314/90. MODERATELY CHLORITIC, MEDIUM GREEN, FINE GRAINED, INTERMEDIATE COMPOSITION TUFF WITH SUB-EQUANT Qtz, FELDSPAR
 RECRYSTALLIZED FROM A METALLOIDAL MELTS, TYPICAL OF THE TUFFS OF THE KIDD CREEK MINE

==== KIDD CREEK MINES LTD. ====
 === KIDD CREEK MINESITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
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SAMPLE ID # A813642

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400
 TOWNSHIP :
 NTS : 092813
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 0M941840216
 LOT : 0 CONCESSION :
 GRID COORDINATES : F :

PROJECT # 941
 PROVINCE :
 PROJECT : SALTSRING BASE METAL
 0.0 M : 0.0 KL : 0.0

FIELD NAME : VOLCANICLASTIC,MAFIC .ASH.TECTONIZED,CRYSTAL .LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAK.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 06-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	WT Z	NORMALIZED ANHYDROUS WT Z	NORMALIZED ANHYDROUS CATION Z		NORMS	CLASSIFICATIONS AND INDICES						
SiO2	53.00	56.03	51.06	Q	2.57	Na2O+K2O	7.28	SiO2	56.03	ALKALINE		
Al2O3	17.90	12.92	20.33	C	6.00							
Fe2O3	8.80	2.55	1.75	OR	14.03	OLA	24.89	NEA	37.83	QA	37.28	SUBALKALINE
FED	0.00	6.08	4.63	AS	43.05							
CaO	1.70	1.80	1.75	AN	7.28	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	5.63	5.95	8.08	LC	0.00							
Na2O	4.61	4.87	8.61	ME	0.00	A	33.71	F	38.74	M	27.55	THOLEIITIC
K2O	2.28	2.41	2.81	KP	0.00							
TiO2	0.91	0.96	0.66	AC	0.00	AL2O3	18.92	NORM	PLAG	14.46		CALC-ALKALINE
P2O5	0.22	0.23	0.18	DI	0.00							
MnO	0.18	0.19	0.15	HE	0.00	AN	11.31	ABA	66.90	OR	21.80	SODIC
S	0.00	0.00	0.00	EN	16.17							
NiO	0.00	0.00	0.00	ES	6.49	CI	26.60	NORM	PLAG	14.46		MUGEARITE
Cr2O3	0.00	0.00	0.00	ED	0.00							
Co2	0.00	0.00	0.00	EA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN CALC-ALKALINE BASALT						
H2O-	0.00	0.00	0.00	LN	0.00	AL	57.10	FE	20.19	MG	23.71	
LOI	4.00	0.00	0.00	MT	2.62							
				IL	1.32							
TOTAL	94.59	100.00	100.00	CR	0.00	COLOR INDEX : 26.60						
				HM	0.00	HASHIMOTO INDEX : 55.63						
				AP	0.48							
				PD	0.00							
				NS	0.00							
				KS	0.00							
				KU	0.00							
				AG	0.00							
				UL	0.00							
				OPX	22.66							
				CPX	0.00							
				AB*	43.05							

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.B.)

CR	120.00:RB	40.00:SR	140.00:Y	10.00:ZR	50.00:NB	30.00:BA	1410.00:AU	0.00:LI	0.00:
BE	0.00:IB	0.00:SC	0.00:V	0.00:DR	0.00:OB	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MU	0.00:AG	0.00:CB	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YS	0.00:LB	0.00:HF	0.00:TA	0.00:W	0.00:
PR	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : P5140/60NE. LIGHT GREEN. CHLORITIC, MAFIC. TURFACIOUS IN NATURE. PALE WHITE FELDSPAR CRYSTALS. EQUANT IN SHAPE. 1-1 MM

REPORT #2000

PAGE 1
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SAMPLE ID # AB13643

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400
 TOWNSHIP :
 NTS : 092B13
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94185022
 LOT : 0 CONCESSION :

PROJECT # 941
 PROVINCE :
 PROJECT : SALTSRING BASE METAL
 0.0 N : 0.0 EL : 0.0

GRID COORDINATES : E :

FIELD NAME : VOLCANICLASTIC.FELSIC.LAPILLI.CLAST SUPPORTED.TECTONIZED.LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : PERVASIVE,SILICIFICATION.WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-SZ.PYRITE.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 06-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	70.20	70.87	65.04	Q	20.80	NA2O+K2O	8.04	SI02	70.87	SUBALKALINE		
AL2O3	14.30	14.44	15.62	C	0.00							
FE2O3	3.40	1.98	1.37	OR	9.17	OLA	2.82	NE*	42.42	QA	54.76	SUBALKALINE
FEO	0.00	1.31	1.00	AB	57.57							
CAO	1.49	1.50	1.48	AN	5.67	CPX	20.77	OL	0.00	OPX	79.23	SUBALKALINE
MGO	1.22	1.23	1.68	LC	0.00							
NA2O	6.41	6.47	11.51	NE	0.00	A	65.04	F	25.00	M	9.97	CALC-ALKALINE
K2O	1.55	1.56	1.83	KP	0.00							
TIO2	0.46	0.46	0.32	AC	0.00	AL2O3		14.44	NORM	PLAG	8.97	CALC-ALKALINE
F2O5	0.11	0.11	0.09	BI	0.78							
MNO	0.06	0.06	0.05	HE	0.02	AN	7.83	ABA	79.50	OR	12.66	AVERAGE SERIES
S	0.00	0.00	0.00	EN	2.98							
NIB	0.00	0.00	0.00	ES	0.00	CI		6.56	NORM	PLAG	8.97	RHYOLITE
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN						CALC-ALKALINE DACITE
H2O-	0.00	0.00	0.00	LN	0.00	AL	77.93	FE	13.66	NS	8.41	
LOI	1.16	0.00	0.00	MT	2.05							
TOTAL	99.06	100.00	100.00	IL	0.64	COLOR INDEX :						6.56
				CF	0.00	HASHIMOTO INDEX :						25.96
				HM	0.00							
				AP	0.23							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				UL	0.00							
				OPX	5.06							
				CPX	0.80							
				AB*	57.57							

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	30.00:RB	10.00:SR	220.00:Y	50.00:ZR	150.00:NB	10.00:BA	800.00:AH	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CD	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:CB	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:NB	0.00:SM	0.00:EU	0.00:YS	0.00:LU	0.00:HE	0.00:TA	0.00:W	0.00:
PB	0.00:RI	0.00:TH	0.00:U	0.00:					

COMMENTS : PS314/90. CLASTS OF RHYODACITIC COMPOSITION. MATRIX DARK GREEN CRYPTOCRYSTALLINE. RANDOMLY DISTRIBUTED BASIC ELONGATE MINERALS (AMPHIBOLE), 0.2 MM BY 10 MM CLAST AT 7 MM AND 10 MM AND FINELY GRANULAR, 0.1 MM

==== K I D D C R E E K M I N E S L I D E ====
 KIDD CREEK MINESITE COMPUTER SYSTEM

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:39:25

SAMPLE ID # A813644

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400
 TOWNSHIP :
 NTS : 092B13
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 0M94185006
 LOT : 0 CONCESSION :
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 PROJECT # 941
 PROVINCE :
 PROJECT : SALTSRING BASE METAL

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,FINE,FELDSPAR PORPHYRITIC,MASSIVE ,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED ,CHLORITIZATION,WEAR.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 06-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SiO2	48.90	50.37	47.29	Q	3.07	NA20+K20	3.07	SiO2	50.27	SUBALKALINE		
Al2O3	13.90	14.29	15.84	C	0.00							
Fe2O3	12.10	3.15	2.23	DR	1.85	OL*	36.46	NE*	25.88	Q*	37.66	SUBALKALINE
FeO	0.00	8.36	6.58	AB	16.03							
CaO	12.00	12.33	12.43	AN	30.67	CPX	57.44	OL	0.00	OPX	42.56	ALKALINE
MgO	7.39	7.60	10.65	LC	0.00							
Na2O	1.71	1.75	3.21	NE	0.00	A	9.91	F	53.67	M	36.43	THOLEIITIC
K2O	0.30	0.31	0.37	KP	0.00							
TiO2	1.56	1.60	1.13	AC	0.00	AL2O3		14.29	NORM	PLAG	65.67	THOLEIITIC
P2O5	0.15	0.15	0.12	DI	17.16							
MnO	0.18	0.19	0.15	ME	7.22	AN	63.17	AB*	33.02	OR	3.82	AVERAGE SERIES
S	0.00	0.00	0.00	EN	12.72							
NiO	0.00	0.00	0.00	ES	5.05	CI		49.06	NORM	PLAG	65.67	BASALT
Cr2O3	0.00	0.00	0.00	EU	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00							
H2O-	0.00	0.00	0.00	LN	0.00	JENSEN						HIGH MAGNESIUM THOLEIITIC BASALT
LOI	1.34	0.00	0.00	MT	3.34	AL	43.31	FE	27.58	Mg	29.11	
TOTAL	97.28	100.00	100.00	IL	2.27							
				CR	0.00							COLOR INDEX : 48.06
				HM	0.00							HASHIMOTO INDEX : 35.93
				AP	0.33							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				UL	0.00							
				OPX	18.07							
				CPX	24.38							
				AB*	16.03							

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	0.00:IB	10.00:SR	140.00:Y	-10.00:ZK	90.00:NB	20.00:BA	200.00:AU	-10.00:LI	10.00:
RE	-10.00:IB	30.00:SC	41.00:V	360.00:CR	210.00:CU	46.00:NI	120.00:EU	150.00:ZN	99.00:
AS	-3.00:SE	-3.00:EK	-1.00:MO	41.00:AB	-0.50:CD	-0.20:SB	0.40:CS	-0.50:LA	7.50:
CE	21.00:NB	12.00:SM	3.40:EU	0.90:YB	2.10:LU	0.31:HF	2.00:TA	1.00:M	-3.00:
PB	26.00:BI	-0.50:TH	-0.50:U	-0.50:					

COMMENTS : FINE GRAINED PHASE OF GABBRO, DARK GREEN, SLIGHTLY GREENISH WHITE ANHYDRAL PLAGIOCLASE CRYSTALS 1 MM. XZ SET IN FINE

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:40:27

SAMPLE ID # AB13645

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400

TOWNSHIP :

NTS : 092R13

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94185009

LOT : 0 CONCESSION :

GRID COORDINATES : E :

PROJECT # 941

PROVINCE :

PROJECT : SALTSRING BASE METAL

0.0 N : 0.0 EL : 0.0

FIELD NAME : PLUTONIC,MAFIC OR MELANOCRATIC,PEGMATITIC,MASSIVE ,OPHITIC ,LOOK AT COMMENTS FILE.

FINAL NAME :

ALTERATION : METAMORPHOSED ,LOOK AT COMMENTS,LOOK AT COMMENTS.

MINERALIZATION : DISSEMINATED AND BLEBS,1-SX,PYRRHOTITE.

FORMATION :

SAMPLED BY : D. MALLALIEU.

DATE : 05-MAY-85

ANALYTICAL

ANALYZED BY : XRAL

DATE : 05-JUN-85

TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	48.20	49.27	47.61	Q	6.36	NA20+K20	2.58	SI02	49.27	SUBALKALINE		
AL203	12.00	12.27	13.97	C	0.00							
FE203	18.20	4.99	3.63	OK	2.65	OK	30.18	NEA	27.24	QA	42.58	SUBALKALINE
FE0	0.00	12.25	9.90	AB	20.11							
CA0	9.13	9.33	9.66	AN	23.55	CPX	50.97	OL	0.00	OPX	49.03	SUBALKALINE
MGO	5.28	5.40	7.77	LC	0.00							
NA20	2.10	2.15	4.02	NE	0.00	A	10.42	F	67.74	M	21.84	THOLEIITIC
K20	0.42	0.43	0.53	KP	0.00							
TIO2	3.38	3.45	2.51	AC	0.00	AL203		12.27	NORM	PLAG	53.94	THOLEIITIC
P205	0.23	0.24	0.19	DI	10.64							
MNO	0.23	0.24	0.19	HE	7.89	AN	50.86	ABA	43.42	OR	5.72	AVERAGE SERIES
S	0.00	0.00	0.00	EN	10.23	CI		46.81	NORM	PLAG	53.94	BASALT
NIO	0.00	0.00	0.00	FS	7.59							
CR203	0.00	0.00	0.00	FO	0.00	JENSEN HIGH IRON THOLEIITIC BASALT						
CO2	0.00	0.00	0.00	FA	0.00	AL	36.79	FE	42.74	MG	20.47	
H20+	0.00	0.00	0.00	WO	0.00							
H20-	0.00	0.00	0.00	LN	0.00							
LOI	1.31	0.00	0.00	MT	5.44							
TOTAL	97.84	100.00	100.00	IL	5.02							
				CR	0.00							
				HM	0.00							
				AP	0.51							
				PU	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	17.82							
				CPX	18.53							
				ABA	20.11							

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	0.00:RB	30.00:SR	160.00:Y	30.00:ZR	130.00:NB	30.00:BA	280.00:AU	-10.00:LI	10.00:
BE	-10.00:R	30.00:SC	47.00:V	790.00:CR	15.00:CD	57.00:NI	62.00:CU	290.00:ZN	130.00:
AS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:ED	-0.20:SB	0.50:CE	-0.50:LA	12.00:
CE	31.00:NO	17.00:SM	5.60:YB	1.30:YB	3.00:LV	0.46:HF	3.00:TA	1.00:W	-3.00:
PS	26.00:BI	-0.50:TH	0.20:W	-0.50:					

COMMENTS : PEGMATITE GABBRO, DARK GREEN AMPHIBOLE. EUBHUKAL 10 MM BY 3 MM. RANDOM ORIENTATION. DISTRIBUTION. 40X GREENISH-WHITE
 PLATINUM-LIKE INTERSTITIAL TO AMPHIBOLE. BASALT TO AN. DISSEMINATIONS AND AGGREGATES. (X 10)

==== KIND CREEK MINES LTD ====
 === KIND CREEK MINESITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:41:28

SAMPLE ID # AB13646

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400
 TOWNSHIP :
 NTS :
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94185030
 LOT : 0 CONCESSION :
 GRID COORDINATES : E :

PROJECT # 941
 PROVINCE :
 PROJECT : SALTSRING BASE METAL
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,BEDDED,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : UNKNOWN ,LOOK AT COMMENTS,NO COMMENT.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 06-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SI02	73.10	75.70	71.28	G 41.76	NA20+K20 4.94 SI02 75.70 SUBALKALINE
AL203	11.60	12.01	13.33	C 3.75	
FE203	3.75	2.03	1.44	DR 7.97	OLA 6.52 NE* 24.18 O* 69.30 SUBALKALINE
FE0	0.00	1.67	1.31	AB 32.99	
CA0	0.73	0.76	0.76	AN 3.47	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
Mg0	2.25	2.33	3.27	LC 0.00	
NA20	3.49	3.61	6.60	NE 0.00	A 45.89 F 32.46 M 21.65 THOLEITIC
K20	1.28	1.33	1.59	KP 0.00	
TI02	0.46	0.48	0.34	AC 0.00	AL203 12.01 NORM PLAG 9.52 THOLEITIC
P205	0.05	0.05	0.04	DI 0.00	
MNO	0.04	0.04	0.03	HE 0.00	AN 7.81 AB* 74.25 DR 17.94 AVERAGE SERIES
S	0.00	0.00	0.00	EN 6.54	
NIO	0.00	0.00	0.00	ES 0.58	CI 9.95 NORM PLAG 9.52 RHYOLITE
CR203	0.00	0.00	0.00	ED 0.00	
ED2	0.00	0.00	0.00	FA 0.00	JENSEN CALC-ALKALINE ANDESITE
H20+	0.00	0.00	0.00	WD 0.00	AL 67.59 FE 15.63 MG 16.52
H20-	0.00	0.00	0.00	LN 0.00	
LOI	2.00	0.00	0.00	MT 2.16	
TOTAL	96.57	100.00	100.00	IL 0.67	COLOR INDEX : 9.95 HASHIMOTO INDEX : 45.55
				CR 0.00	
				HM 0.00	
				AP 0.11	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				KU 0.00	
				AG 0.00	
				OL 0.00	
				DPX 7.12	
				CPX 0.00	
				AB* 32.99	

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	40.00:RE	30.00:SR	200.00:Y	20.00:ZR	50.00:NB	10.00:BA	7370.00:AU	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CB	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:CD	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:FE	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PB	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : RHYOCLASTIC TUFF, CHERY TUFF, GREENISH-WHITE (S CH.) WITH INTERBEDS OF WHITE CHERY, SHOWS UNULATORY BEDDING, PITCH

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:42:30

SAMPLE ID # A813647

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400

TOWNSHIP :

NTS :

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94185030A

LOT : 0 CONCESSION :

GRID COORDINATES : E :

PROJECT # 941

PROVINCE :

PROJECT : SALTSRING BASE METAL

0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,BEDDED,TECTONIZED,LOOK AT COMMENTS FILE.

FINAL NAME :

ALTERATION : UNKNOWN ,CHLORITIZATION,MODERATE.

MINERALIZATION : NIL ,NIL ,NO COMMENT.

FORMATION :

SAMPLED BY : B. MALLALIEU.

DATE : 09-MAY-85

ANALYTICAL

ANALYZED BY : XRAL

DATE : 05-JUN-85

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SiO2	75.00	77.31	73.22	Q	48.08	Na2O+K2O	3.48	SiO2	77.31	SUBALKALINE		
Al2O3	10.00	10.31	11.51	C	4.04	OLA	9.92	NEA	18.37	QA	71.71	SUBALKALINE
Fe2O3	4.03	1.96	1.40	OR	3.80	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
FeO	0.00	1.98	1.56	AB	26.21	A	32.23	F	34.58	M	33.19	THOLEIITIC
CaO	0.82	0.85	0.86	AN	3.67	AL2O3	10.31	NORM	PLAG	12.27	THOLEIITIC	
MgO	3.48	3.59	5.06	LC	0.00	AN	10.89	ABA	77.82	OR	11.29	AVERAGE SERIES
Na2O	2.77	2.86	5.24	NE	0.00	CI	14.00	NORM	PLAG	12.27	BACITE	
K2O	0.61	0.63	0.76	KP	0.00	JENSEN	CALC-ALKALINE BASALT					
TiO2	0.40	0.41	0.29	AC	0.00	AL	57.97	FE	16.52	MG	25.51	
P2O5	0.09	0.09	0.07	DI	0.00	COLOR INDEX :	14.00					
MnO	0.03	0.03	0.02	HE	0.00	HASHIMOTO INDEX :	53.26					
S	0.00	0.00	0.00	EN	10.13							
NiO	0.00	0.00	0.00	FS	1.20							
CR2O3	0.00	0.00	0.00	FO	0.00							
CU2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	2.16	0.00	0.00	NT	2.09							
TOTAL	97.02	100.00	100.00	IL	0.59							
				CR	0.00							
				HM	0.00							
				AP	0.20							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AB	0.00							
				OL	0.00							
				OPX	11.32							
				CPX	0.00							
				ABA	35.23							

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	30.00:RB	30.00:SK	130.00:Y	30.00:ZR	50.00:NB	10.00:BA	2550.00:AU	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CU	0.00:NI	0.00:DU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:CD	0.00:SB	0.00:US	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YS	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PF	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : SLIGHTLY MORE CHLORITIC VARIATION OF A813646. BEDDED FELSIC TRF. INTERBEDS ARE 1-3 MM. THICK DARK GREEN, CHLORITIC.

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:43:32

SAMPLE ID # A813648

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400

FIELD NUMBER : DM94185044

PROJECT # 941

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE :

NTS :

PROJECT : SALTSRING BASE METAL

UTM ZONE : 10

GRID COORDINATES : E :

0.0 N : 0.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH.TECTONIZED.CRYSTAL .LOOK AT COMMENTS FILE.

FINAL NAME :

ALTERATION : METAMORPHOSED .CHLORITIZATION.MODERATE.

MINERALIZATION : NIL ,NIL ,NO COMMENT.

FORMATION :

SAMPLED BY : D. MALLALIEU.

DATE : 09-MAY-85

ANALYTICAL

ANALYZED BY : XRAL

DATE : 05-JUN-85

TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES									
SiO2	55.30	58.36	53.79	Q	10.24	NA2O+K2O	6.06	SiO2	58.36	SUBALKALINE				
Al2O3	17.80	18.79	20.41	C	6.00	OL*	17.09	NE*	38.04	OL*	44.86	SUBALKALINE		
Fe2O3	9.03	2.62	1.82	OR	4.66	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE		
FeO	0.00	6.22	4.79	AB	47.05	A	33.04	F	46.76	M	30.20	THOLEIITIC		
CaO	2.44	2.58	2.54	AN	10.17	AL2O3	18.79	NORM	PLAG	17.78	CALC-ALKALINE			
MgO	3.51	3.70	5.09	LC	0.00	AN	16.44	AB*	76.03	OR	7.53	AVERAGE SERIES		
Na2O	4.99	5.27	9.41	NE	0.00	CI	21.07	NORM	PLAG	17.78	ANDESITE			
K2O	0.75	0.79	0.93	KP	0.00	JENSEN	CALC-ALKALINE	ANDESITE	AL	61.80	FE	22.79	MG	15.41
TiO2	0.98	1.03	0.72	AC	0.00	COLOR INDEX :	21.07	HASHIMOTO INDEX :	36.44					
P2O5	0.37	0.39	0.30	DI	0.00									
MnO	0.24	0.25	0.20	HE	0.00									
S	0.00	0.00	0.00	EN	10.18									
NiO	0.00	0.00	0.00	FS	6.74									
Cr2O3	0.00	0.00	0.00	FO	0.00									
CO2	0.00	0.00	0.00	FA	0.00									
H2O+	0.00	0.00	0.00	WO	0.00									
H2O-	0.00	0.00	0.00	LN	0.00									
LOI	3.00	0.00	0.00	MT	2.72									
TOTAL	94.75	100.00	100.00	IL	1.43									
				CR	0.00									
				HM	0.00									
				AP	0.81									
				PD	0.00									
				NS	0.00									
				KS	0.00									
				RU	0.00									
				AG	0.00									
				UL	0.00									
				OPX	16.91									
				CPX	0.00									
				AB*	47.05									

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.P.)

CR	20.00:RB	30.00:SR	290.00:Y	40.00:ZR	110.00:NB	20.00:BA	780.00:AU	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CD	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MG	0.00:AG	0.00:CB	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SH	0.00:EU	0.00:YB	0.00:LU	0.00:INE	0.00:TA	0.00:W	0.00:
PB	0.00:R1	0.00:TH	0.00:U	0.00:					

COMMENTS : ROCK IS CRYSTAL-LAPPILLI TUPE. INTERMEDIATE TO MA-FIC COMPOSITION. MATRIX IS MEDIUM GREEN DISTRIBUTED RANDOMLY THROUGHOUT. ANALYSIS TO SUBORDINANT DATE PREVIOUS. ANALYSIS TO DATE 1985.

==== K I D D C R E E K M I N E S L T D ====
 === KIDD CREEK MINE SITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:44:34

SAMPLE ID # AB13649

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : DM94135044A PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE :
 NTS : PROJECT : SALTSRING BASIN METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE, THIN SECTION

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MATRIX SUPPORTED, CRYSTAL. LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : UNKNOWN, EPIDOTIZATION, WEAK.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 09-MAY-85 ANALYTICAL
 ANALYZED BY : XRAL DATE : 05-JUN-85 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	64.40	66.37	63.27	Q	33.27	MA20+K20	3.02	SI02	66.37	SUBALKALINE		
AL2O3	14.80	15.25	17.14	C	2.78							
FE2O3	7.30	2.42	1.74	OR	4.77	OLA	12.65	NE*	19.11	Q*	68.23	SUBALKALINE
FED	0.00	4.50	3.59	AB	20.67							
CAD	4.72	4.86	4.97	AN	23.18	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MGO	2.22	2.29	3.25	LC	0.00							
NA2O	2.17	2.24	4.13	NE	0.00	A	25.20	F	55.71	M	19.09	THOLEIITIC
K2O	0.76	0.78	0.95	KP	0.00							
TIO2	0.85	0.88	0.63	AC	0.00	AL2O3	15.25	NORM	PLAG	52.86	THOLEIITIC	
F2O5	0.24	0.25	0.20	DI	0.00							
MNO	0.16	0.16	0.13	HE	0.00	AN	47.68	ABA*	42.51	OR	9.81	AVERAGE SERIES
S	0.00	0.00	0.00	EN	6.50							
NiO	0.00	0.00	0.00	ES	4.44	CI	14.81	NORM	PLAG	52.86	ANDESITE	
CR2O3	0.00	0.00	0.00	FO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN	THOLEIITIC	DACITE				
H2O-	0.00	0.00	0.00	LN	0.00	AL	64.74	FE	22.98	MG	12.28	
LOI	2.77	0.00	0.00	MT	2.61							
				IL	1.26							
TOTAL	97.03	100.00	100.00	CR	0.00	COLOR INDEX :	14.81					
				HM	0.00	HASHIMOTO INDEX :	30.19					
				AP	0.53							
				PD	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				UL	0.00							
				OPX	10.95							
				CPX	0.00							
				ABA*	20.67							

TRACE ELEMENTS (P.P.M.) AU, PT (P.P.B.)

CR	10.00:RB	30.00:SR	390.00:Y	50.00:ZR	190.00:NB	30.00:BA	520.00:AU	0.00:LI	0.00:
BE	0.00:8	0.00:SC	0.00:V	0.00:CR	0.00:CO	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:UB	0.00:SB	0.00:ES	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HE	0.00:TA	0.00:W	0.00:
PB	0.00:RI	0.00:TH	0.00:U	0.00:					

COMMENTS : PS310/768W. FELDSPAR CRYSTAL ANDESITE TUFF. LIGHT GREEN. FINE GRAINED MATRIX, RANDOMLY DISTRIBUTED THROUGHOUT.
 GRABBED FROM SUB-EQUANT FELDSPAR (1 MP. 0.52) ANDESITE

==== K I D D C R E E K M I N E S L T D ====
 === KIDD CREEK MINESITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:45:36

SAMPLE ID # AB13650

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400
 TOWNSHIP :
 NTS :
 UTM ZONE : 10
 SAMPLE TYPE : GRAE SAMPLE

FIELD NUMBER : BM94185047
 LOT : 0 CONCESSION :
 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0

PROJECT # 941
 PROVINCE :
 PROJECT : SALTSRING BASE METAL

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH.TECTONIZED.CRYSTAL .LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : PERVASIVE .CHLORITIZATION.STRONG.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XPAL

DATE : 09-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %		NORMS
SiO2	63.20	64.75	59.64	Q	21.45
Al2O3	19.60	20.08	21.80	C	9.12
Fe2O3	4.37	2.11	1.46	OK	15.61
FeO	0.00	2.13	1.64	AB	39.24
CaO	0.95	0.97	0.96	AN	4.27
MgO	2.14	2.19	3.01	LC	0.00
Na2O	4.29	4.40	7.85	NE	0.00
K2O	2.59	2.65	3.12	KP	0.00
TiO2	0.56	0.57	0.40	AC	0.00
F2O5	0.08	0.08	0.06	BI	0.00
MnO	0.06	0.06	0.05	HE	0.00
S	0.00	0.00	0.00	EN	6.02
NiO	0.00	0.00	0.00	FS	1.12
Cr2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	2.54	0.00	0.00	MT	2.19
				IL	0.79
TOTAL	97.61	100.00	100.00	CR	0.00
				HM	0.00
				AP	0.17
				PO	0.00
				NS	0.00
				KS	0.00
				KU	0.00
				AG	0.00
				OL	0.00
				OPX	7.14
				CPX	0.00
				ABA	39.24

CLASSIFICATIONS AND INDICES

NA20+K20	7.05	SiO2	64.75	SUBALKALINE		
OL*	7.89	NEA	34.71	QA	57.40	SUBALKALINE
CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
A	53.12	F	30.36	M	16.52	THOLEIITIC
Al2O3	20.08	NORM	PLAG	9.81	CALC-ALKALINE	
AN	7.22	AB*	66.38	OR	26.40	K-RICH SERIES
CI	10.13	NORM	PLAG	9.81	RHYOLITE	
JENSEN	CALC-ALKALINE	DACITE				
AL	76.87	FE	12.51	MG	10.61	

COLOR INDEX : 10.13
 HASHIMOTO INDEX : 47.44

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	10.00:RB	60.00:SR	150.00:Y	50.00:ZR	200.00:NB	10.00:BA	1480.00:AU	0.00:LI	0.00:
RE	0.00:R	0.00:SC	0.00:V	0.00:CR	0.00:CB	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:UB	0.00:SB	0.00:ES	0.00:LA	0.00:
CE	0.00:ND	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PB	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : PS155/67NE. MEDIUM GREEN,HIGHLY CHLORITIC AMPHIBOLIC TUFF (CHLORITE SCHIST) RANDOMLY DISTRIBUTED THROUGHOUT. DISSESE
 FINNISH FINGERATE FELDSPAR CRYSTALS. (2 MM. DIA.) NO MINERALIZATION

==== KIDD CREEK MINES LTD ====
 === KIDD CREEK MINESITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:46:38

SAMPLE ID # AB13651

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400
 TOWNSHIP :
 NTS :
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94135048
 LOT : 0 CONCESSION :
 GRID COORDINATES : E :

PROJECT # 941
 PROVINCE :
 PROJECT : SALTSRING BASE METAL
 0.0 N : 0.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,TECTONIZED,CRYSTAL .LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU.
 ANALYZED BY : XRAL

DATE : 09-MAY-85
 DATE : 05-JUN-85

ANALYTICAL
 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	51.10	53.33	51.39	Q 13.73	NA20+K20 4.65 SiO2 53.33 SUBALKALINE
Al2O3	19.10	19.93	22.64	C 6.74	
Fe2O3	13.80	2.70	1.96	OR 26.39	OLA 40.07 NEA 5.56 OA 54.37 SUBALKALINE
FeO	0.00	10.53	8.48	AB 3.41	
CaO	4.97	5.19	5.36	AN 24.86	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MgO	2.03	2.12	3.04	LC 0.00	
Na2O	0.35	0.37	0.68	NE 0.00	A 23.59 F 65.67 M 10.74 THOLEIITIC
K2O	4.11	4.29	5.28	KP 0.00	
TiO2	1.09	1.14	0.82	AC 0.00	AL2O3 19.93 NORM FLAG 87.93 CALC-ALKALINE
P2O5	0.27	0.28	0.23	DI 0.00	
MnO	0.13	0.14	0.11	HE 0.00	AN 45.47 ABX 6.24 OR 48.28 K-RICH SERIES
S	0.00	0.00	0.00	EN 6.09	
NiO	0.00	0.00	0.00	ES 13.58	CI 24.25 NORM FLAG 87.93 BASALT
Cr2O3	0.00	0.00	0.00	EO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN THOLEIITIC DACITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 61.09 FE 30.70 MG 8.21
LOI	3.47	0.00	0.00	MT 2.94	
TOTAL	95.83	100.00	100.00	IL 1.65	COLOR INDEX : 24.25 HASHIMOTO INDEX : 53.58
				CR 0.00	
				HM 0.00	
				AP 0.61	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AS 0.00	
				UL 0.00	
				OPX 19.67	
				CPX 0.00	
				ABX 3.41	

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	20.00:RB	70.00:SR	300.00:Y	30.00:ZR	40.00:NB	-10.00:BA	1490.00:AU	0.00:LI	0.00:
BE	0.00:IB	0.00:SC	0.00:V	0.00:CR	0.00:CU	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:CD	0.00:SB	0.00:CS	0.00:LA	0.00:
SE	0.00:NB	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PE	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : ACICULAR GRAINED, DARK GREEN CHLORITE SCHIST CONTAINING MINOR SCLEROPH GRAINS. ANHYDROUS SUB-EQUANT (1 P.P. 1.3%).
 UNOBTAINED SUBSTITUTED MAFIC CRYSTALS TYPE

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:47:40

SAMPLE ID # AB13652 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : 0M94185049 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE :
 NTS : PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC.MAFIC .ASH.TECTONIZED.CRYSTAL .LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : PERVASIVE .EPIDOTIZATION .MODERATE.
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 09-MAY-85 ANALYTICAL
 ANALYZED BY : XRAL DATE : 05-JUN-85 TECHNIQUE : X-RAY FLUORESCENCE

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	63.80	66.34	63.70	Q	39.77 NA2O+K2O 3.70 SiO2 66.34 SUBALKALINE
Al2O3	15.50	16.12	18.24	C	10.85
Fe2O3	8.47	2.42	1.75	OR	19.38 OL* 19.65 NE* 5.09 QA 75.26 SUBALKALINE
FeO	0.00	5.75	4.61	AB	5.03
CaO	1.33	1.38	1.42	AN	6.27 CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MgO	3.08	3.20	4.38	LC	0.00
Na2O	0.52	0.54	1.01	NE	0.00 A 24.96 F 53.44 N 21.60 THOLEITIC
K2O	3.04	3.16	3.88	KP	0.00
TiO2	0.83	0.86	0.62	AC	0.00
P2O5	0.12	0.12	0.10	BI	0.00
MnO	0.09	0.09	0.08	HE	0.00
S	0.00	0.00	0.00	EN	9.17
NiO	0.00	0.00	0.00	ES	6.38
Cr2O3	0.00	0.00	0.00	FO	0.00
CO2	0.00	0.00	0.00	FA	0.00
H2O+	0.00	0.00	0.00	WO	0.00
H2O-	0.00	0.00	0.00	LN	0.00
LOI	3.31	0.00	0.00	MT	2.63
TOTAL	96.16	100.00	100.00	IL	1.25
				CR	0.00
				HK	0.00
				AP	0.27
				PU	0.00
				NS	0.00
				KS	0.00
				RU	0.00
				AG	0.00
				UL	0.00
				CPX	15.55
				CPX	0.00
				AB*	5.03

TENSEN CALC-ALKALINE ANDESITE
 AL 61.03 FE 23.63 MG 15.33
 COLOR INDEX : 19.42
 HASHIMOTO INDEX : 76.79

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CR	10.00:RB	70.00:SR	80.00:Y	40.00:ZR	130.00:NB	20.00:BA	2740.00:AU	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:U	0.00:UR	0.00:CD	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:CB	0.00:SR	0.00:CS	0.00:LA	0.00:
CE	0.00:ND	0.00:SN	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PS	0.00:BI	0.00:TH	0.00:U	0.00:					

COMMENTS : PS127/77NE. FELDSPAR CRYSTAL ANDESITE TUPE. GRANGE (MOLITE. CLINDZOIS) TINTED FELDSPAR CRYSTALS (1MM, 150).
 GROUNDMASS IS ACICULAR CHLORITE AND AMPHIBOLE. ON US SE. N.W. CORNER ROAD BUILT 1981 BY USGS.

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:48:42

SAMPLE ID # AB18653 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : 0494185051 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, BLOCK, HETEROGENEOUS, TECTONIZED, LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : UNKNOWN, LOOK AT COMMENTS, NO COMMENT.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 09-MAY-85 ANALYTICAL
 ANALYZED BY : XRAL DATE : 05-JUN-85 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	54.60	57.07	52.89	Q	7.85	NA2O+K2O	5.80	SiO2	57.07	SUBALKALINE		
Al2O3	17.90	18.71	20.44	C	1.33							
Fe2O3	7.60	2.50	1.74	OR	12.56	OLA	20.47	NEA	35.24	OA	44.29	SUBALKALINE
FeO	0.00	4.90	3.80	AB	23.05							
CaO	5.39	5.63	5.59	AN	24.96	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	3.64	3.80	5.26	LC	0.00							
Na2O	3.52	3.68	6.61	NE	0.00	A	34.63	F	42.66	M	22.71	THOLEIITIC
K2O	2.03	2.12	2.51	KP	0.00							
TiO2	0.89	0.93	0.65	TAC	0.00	AL2O3	18.71	NORM	PLAG	43.02		CALC-ALKALINE
P2O5	0.44	0.46	0.36	BI	0.00							
MnO	0.18	0.19	0.15	HE	0.00	AN	35.37	ABA	46.84	OR	17.79	AVERAGE SERIES
S	0.00	0.00	0.00	EM	10.51							
NiO	0.00	0.00	0.00	ES	4.85	CI	19.27	NORM	PLAG	43.02		ANDESITE
Cr2O3	0.00	0.00	0.00	EO	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WG	0.00	JENSEN		CALC-ALKALINE	ANDESITE			
H2O-	0.00	0.00	0.00	LN	0.00	AL	63.81	FE	19.78	MG	16.41	
LOI	4.20	0.00	0.00	MT	2.61							
TOTAL	95.67	100.00	100.00	IL	1.30	COLOR INDEX :	19.27					
				CR	0.00	HASHIMOTO INDEX :	38.89					
				HM	0.00							
				AP	0.96							
				FO	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.00							
				AB	0.00							
				DL	0.00							
				OPX	15.36							
				CPX	0.00							
				AA*	23.05							

TRACE ELEMENTS (P.P.M.) AU, PT (P.P.B.)

CR	0.00:RB	40.00:SR	250.00:Y	30.00:ZR	90.00:NB	10.00:BA	1120.00:AU	-10.00:LI	50.00:
FE	-10.00:F	30.00:SC	23.00:V	120.00:CR	19.00:CM	13.00:MI	13.00:CB	2.00:ZN	120.00:
AS	2.00:SE	-3.00:BR	1.00:MO	-5.00:AG	-0.50:CB	-0.20:SB	0.40:CS	-0.30:LA	14.40:
CE	31.00:NO	17.00:SN	4.70:EU	1.50:YB	3.70:LU	0.57:HF	2.00:TA	-1.00:W	-3.00:
PS	22.00:BI	-0.50:TH	2.30:U	0.00:					

COMMENTS : BASIIC COMPOSITION, FINE GRAINED, GREY TINTED, INTERMEDIATE IN COMPOSITION, ACCORDS FOR TYPE OF YOUR MOUNTING TECHNIQUE. CLASSIFIED BY 20 80 CR. BLOCK OR READER ERROR.

REPORT #2090

PAGE 1
 PRINTED 20-OCT-85
 10:49:44

SAMPLE ID # AB13654

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : DM94185052 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, LAPILLI, TECTONIZED. LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : UNKNOWN, LOOK AT COMMENTS, NO COMMENT.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 09-MAY-85 ANALYTICAL
 ANALYZED BY : XRAL DATE : 05-JUN-85 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SiO2	57.80	60.31	56.63	Q	22.52	NA20+K20	3.42	SiO2	60.31	SUBALKALINE		
Al2O3	17.70	18.47	20.44	C	5.48							
Fe2O3	7.28	2.48	1.75	OR	7.95	OL*	21.45	NE*	19.65	Q*	58.90	SUBALKALINE
FeO	0.00	4.60	3.61	AB	19.09							
CaO	4.84	5.05	5.08	AN	23.88	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	4.21	4.39	6.15	LC	0.00							
Na2O	2.01	2.10	3.82	NE	0.00	A	23.36	E	46.65	M	29.98	THOLEIITIC
K2O	1.27	1.33	1.59	KP	0.00							
TiO2	0.88	0.92	0.65	AC	0.00	AL2O3	18.47	NORM	PLAG	55.58		CALC-ALKALINE
P2O5	0.22	0.23	0.18	BI	0.00							
MnO	0.12	0.13	0.10	HE	0.00	AN	46.90	ABA	37.49	OR	15.61	AVERAGE SERIES
S	0.00	0.00	0.00	EN	12.29							
NiO	0.00	0.00	0.00	PS	4.37	CI	20.60	NORM	PLAG	55.58		BASALT
Cr2O3	0.00	0.00	0.00	FO	0.00							
Li2O	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN		CALC-ALKALINE	ANDESITE			
H2O-	0.00	0.00	0.00	LN	0.00	AL	62.50	FE	18.70	MG	18.80	
LOI	3.85	0.00	0.00	MT	2.63							
TOTAL	95.84	100.00	100.00	IL	1.30							
				CR	0.00	COLOR INDEX :	20.60					
				HM	0.00	HASHIMOTO INDEX :	44.44					
				AP	0.49							
				PU	0.00							
				NS	0.00							
				RS	0.00							
				KU	0.00							
				AG	0.00							
				UL	0.00							
				DPX	16.67							
				CPX	0.00							
				AK*	19.09							

TRACE ELEMENTS (P.P.M.) AU, PT (P.P.B.)

CR	10.00:KB	30.00:SR	350.00:Y	30.00:ZR	140.00:NB	20.00:BA	1650.00:AU	0.00:LI	0.00:
BE	0.00:R	0.00:SC	0.00:V	0.00:OR	0.00:CO	0.00:NI	0.00:CU	0.00:ZN	0.00:
AS	0.00:SE	0.00:BR	0.00:MO	0.00:AG	0.00:CD	0.00:SB	0.00:CS	0.00:LA	0.00:
CE	0.00:NB	0.00:SM	0.00:EU	0.00:YB	0.00:LU	0.00:HF	0.00:TA	0.00:W	0.00:
PB	0.00:BI	0.00:TH	0.00:RU	0.00:					

COMMENTS : P5502/44SW, FINE GRAINED LT. TO MG. GREEN ANDESITE. MATRIX 10-15% SUB-EQUANT PEGUSPAG DISTRIBUTED THROUGHOUT. PASE

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 10:50:46

SAMPLE ID # AB13655 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24400 FIELD NUMBER : 094185050 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC, INTERMEDIATE, FINE, EQUIGRANULAR, FELDSPAR PORPHYRITIC, MASSIVE.
 FINAL NAME :
 ALTERATION : PERVASIVE, EPIDOTIZATION, STRONG.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU. DATE : 09-MAY-85 ANALYTICAL
 ANALYZED BY : XRAL. DATE : 05-JUN-85 TECHNIQUE : X-RAY FLUORESCENCE

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES				
	WT Z	ANHYDROUS WT Z	ANHYDROUS	CATION Z						
S102	52.20	54.39	50.94	Q	8.41	NA20+K20	3.29	S102	54.39	SUBALKALINE
AL203	18.40	19.17	21.16	C	0.00					
FE203	9.04	2.51	1.77	OR	1.99	OLA	21.76	NEA 32.44	GA 45.80	SUBALKALINE
FEO	0.00	6.22	4.87	AB	26.86					
CAO	8.98	9.36	9.39	AN	38.48	CPX	26.62	OL 0.00	OPX 73.38	SUBALKALINE
MGO	3.45	3.59	5.02	LC	0.00					
NA20	2.84	2.96	5.37	NE	0.00	A	21.43	F 55.17	M 23.40	THOLEIITIC
K20	0.32	0.33	0.40	KP	0.00					
TIO2	0.91	0.95	0.67	AC	0.00	AL203	19.17	NORM PLAG	58.89	CALC-ALKALINE
P205	0.28	0.29	0.23	DI	3.08					
MNO	0.22	0.23	0.12	HE	2.15	AN	57.14	ABA 39.89	OR 2.96	AVERAGE SERIES
S	0.00	0.00	0.00	EN	8.49					
NIO	0.00	0.00	0.00	ES	5.92	CI	23.63	NORM PLAG	58.89	BASALT
CR203	0.00	0.00	0.00	ED	0.00					
CO2	0.00	0.00	0.00	EA	0.00					
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN		CALC-ALKALINE	ANDESITE	
H2O-	0.00	0.00	0.00	LN	0.00	AL	62.86	FE 22.24	MG 14.90	
LOI	3.00	0.00	0.00	MT	2.65					
TOTAL	95.98	100.00	100.00	IL	1.34					
				CR	0.00	COLOR INDEX :	23.63			
				HM	0.00	HASHIMOTO INDEX :	24.18			
				AP	0.62					
				PD	0.00					
				NS	0.00					
				KS	0.00					
				KU	0.00					
				AS	0.00					
				OL	0.00					
				OPX	14.42					
				CPX	5.23					
				ABA	26.86					

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.B.)

CR	0.00:RB	20.00:SR	690.00:Y	30.00:ZR	120.00:NB	20.00:BA	220.00:AU	-10.00:LI	50.00:
EE	-10.00:TB	20.00:SC	26.00:V	190.00:CR	11.00:CD	16.00:NI	11.00:CU	24.00:ZN	110.00:
OS	-2.00:SE	-3.00:BR	-1.00:MO	-5.00:AG	-0.50:CO	-0.20:SB	0.20:ES	-0.50:LA	15.40:
CE	26.00:ND	20.00:SM	4.90:EU	1.20:YB	3.70:LU	0.58:HF	2.00:TA	-1.00:W	-3.00:
FB	-32.00:BI	-0.50:TH	5.00:U	1.20:					

COMMENTS : FELDSPAR-PHYR & ANDESITE MATRIX IS OBSERVED AND FINE GRANULAR, RANDOMLY DISTRIBUTED THROUGHOUT SUBHERAL ROCKY
 RECONSTITUTED MATRIX IS OBSERVED

REPORT #0000

PAGE 1
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 11:44:55

SAMPLE ID # AB16910

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008
 TOWNSHIP :
 NTS : 092B14
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94184399C PROJECT # 941
 LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
 GRID COORDINATES : E : 465692.0 N : 5400087.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH-BEDDED, QUARTZ AND FELDSPAR PORPHYRITIC, TECTONIZED.
 FINAL NAME :
 ALTERATION : PERVASIVE, SERICITIZATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRRHOTITE PLUS CHALCOPYRITE.
 FORMATION :

SAMPLED BY : D.MALLALIEU
 ANALYZED BY : XRAL

DATE : 21-JUL-84
 DATE : 14-MAR-85

ANALYTICAL
 TECHNIQUE : ATOMIC ABSORPTION

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES						
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %								
SI02	68.30	70.91	65.57	Q	29.77	NA20+K20	5.81	SI02	70.91	SUBALKALINE		
AL2O3	15.30	15.77	17.34	C	2.75							
FE2O3	3.49	1.91	1.34	OR	9.58	OL*	4.52	NE*	31.63	OR	63.85	SUBALKALINE
FE0	0.00	1.52	1.19	AB	35.02							
CA0	2.67	2.75	2.75	AN	12.67	CPX	0.00	OL	0.00	CPX	100.00	SUBALKALINE
MGO	1.30	1.34	1.86	LC	0.00							
NA20	4.08	4.21	7.60	NE	0.00	A	55.95	F	31.15	M	12.90	THOLEITIC
K2O	1.56	1.61	1.92	KF	0.00							
TI02	0.35	0.36	0.25	AC	0.00	AL2O3		15.77	NORM	PLAG	24.99	CALC-ALKALINE
P2O5	0.16	0.16	0.13	DI	0.00							
MNO	0.06	0.06	0.05	HE	0.00	AN	21.02	AB*	63.09	OR	15.89	AVERAGE SERIES
S	0.00	0.00	0.00	EN	3.73							
NIO	0.00	0.00	0.00	ES	0.63	CI		6.87	NORM	PLAG	24.99	DACITE
CR2O3	0.00	0.00	0.00	EU	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN						
H2O-	0.00	0.00	0.00	LN	0.00	AL	78.71	FE	12.83	MG	8.46	CALC-ALKALINE DACITE
LOI	2.08	0.00	0.00	MT	2.01							
TOTAL	97.01	100.00	100.00	IL	0.51							
				CR	0.00	COLOR INDEX :		6.87				
				HH	0.00	WASHINGTON INDEX :		29.76				
				AP	0.35							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				KU	0.00							
				AG	0.00							
				UL	0.00							
				UPX	4.35							
				CPX	0.00							
				ABA	38.02							

TRACE ELEMENTS (P.P.M.) AU, PT (P.P.B.)

CU	15.00:PB	22.00:ZN	46.00:AG	-0.50:AU	-10.00:MN	386.00:BA	1700.00:CO	0.00:CR	4.00:
RE	30.00:SR	1050.00:Y	20.00:ZR	170.00:NB	10.00:SC	8.40:CD	1.00:NJ	4.00:AS	-2.00:
SE	-3.00:BR	-1.00:MO	-5.00:CP	-0.30:SB	0.60:CS	-0.50:LA	11.70:DE	26.00:NB	11.00:
SM	2.80:EU	0.50:YB	3.00:LU	0.55:HS	4.00:TA	-1.00:W	-3.00:BT	-0.50:TH	5.40:
U	2.00:								

COMMENTS : SP0355/555W

==== K I D D C R E E K M I N E S L T D ====
 === KIDD CREEK MINESITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 11:45:58

SAMPLE ID # AB16912

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008 FIELD NUMBER : DM94184400A PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092B14 PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 465660.0 N : 5400064.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE, HOMOGENEOUS, TECTONIZED.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, LOOK AT COMMENTS, STRONG.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU DATE : 21-JUL-84 ANALYTICAL
 ANALYZED BY : XRAL DATE : 14-MAR-85 TECHNIQUE : ATOMIC ABSORPTION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SiO2	69.70	72.48	69.02	Q	42.54	NA2O+K2O	4.37	SiO2	72.48	SUBALKALINE		
Al2O3	14.40	14.97	16.81	C	5.16							
Fe2O3	3.18	1.90	1.36	OR	18.59	OL*	6.44	NE*	12.14	Q*	81.42	SUBALKALINE
FeO	0.00	1.26	1.01	AR	12.09							
CaO	2.70	2.81	2.86	AN	13.76	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
MgO	1.65	1.72	2.44	LC	0.00							
Na2O	1.26	1.31	2.42	NE	0.00	A	48.21	F	32.85	M	18.94	THOLEITIC
K2O	2.94	3.06	3.72	KP	0.00							
TiO2	0.32	0.34	0.25	AC	0.00	Al2O3	14.97	NORM	PLAG	53.23		THOLEITIC
P2O5	0.08	0.08	0.07	BI	0.00							
MnO	0.06	0.06	0.05	HE	0.00	AN	30.97	ABA	27.21	OR	41.82	K-RICH SERIES
S	0.00	0.00	0.00	EN	4.87							
NiO	0.00	0.00	0.00	ES	0.26	CI	7.66	NORM	PLAG	53.23		ANDESITE
Cr2O3	0.00	0.00	0.00	EO	0.00							
CO2	0.00	0.00	0.00	EA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN		CALC-ALKALINE	DACITE			
H2O-	0.00	0.00	0.00	LN	0.00	AL	76.72	FE	12.17	MG	11.11	
LOI	2.31	0.00	0.00	MT	2.05							
TOTAL	96.16	100.00	100.00	IL	0.49							
				CR	0.00	COLOR INDEX :	7.66					
				HM	0.00	HASHIMOTO INDEX :	53.68					
				AP	0.18							
				PO	0.00							
				NS	0.00							
				KS	0.00							
				KU	0.00							
				AG	0.00							
				OL	0.00							
				OPX	5.13							
				CPX	0.00							
				ABA	12.09							

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.B.)

CU	16.00:PB	24.00:ZN	73.00:AG	-0.50:PU	-10.00:MN	360.00:BA	3000.00:CO	0.00:CR	6.00:
RB	70.00:SR	1330.00:Y	40.00:ZR	140.00:NB	20.00:SC	13.00:CO	4.00:NI	7.00:AS	-2.00:
SE	-3.00:BR	-1.00:MO	-5.00:CD	-0.30:SB	0.80:CS	1.60:LA	12.10:FE	37.00:ND	13.00:
Sm	3.80:EU	0.90:YB	3.00:LU	0.53:RE	3.00:TA	-1.00:W	-3.00:BI	-0.50:TH	2.50:
U	1.40:								

COMMENTS : SP0310/858W

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 PRINTED 30-OCT-85
 11:47:00

SAMPLE ID # AB16914

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008

TOWNSHIP :

NTS : 092B14

UTM ZONE : 10

SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94184402

LOT : 0 CONCESSION :

GRID COORDINATES : E : 465650.0

PROJECT # 941

PROVINCE : BRITISH COLUMBIA

PROJECT : SALTSRING BASIN METAL

N : 5400052.0 EL : 0.0

FIELD NAME : VOLCANICLASTIC.INTERMEDIATE.ASH.HOMOGENEOUS.TECTONIZED.LOOK AT COMMENTS FILE.

FINAL NAME :

ALTERATION : METAMORPHOSED.SERICITIZATION.MODERATE.

MINERALIZATION : NIL,NIL,NO COMMENT.

FORMATION :

SAMPLED BY : D.MALLALIEU

DATE : 31-JUL-84

ANALYTICAL

ANALYZED BY : XRAL

DATE : 14-MAR-85

TECHNIQUE : ATOMIC ABSORPTION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	71.60	73.49	69.78	Q 41.11	NA20+K20 5.30 SiO2 73.49 SUBALKALINE
Al2O3	14.80	15.19	17.00	C 4.55	
Fe2O3	2.00	1.80	1.28	OR 22.97	OL* 3.83 NE* 14.38 O* 81.79 SUBALKALINE
FeO	0.00	0.23	0.18	AB 13.89	
CaO	2.51	2.58	2.62	AN 12.69	CPX 0.00 OL 0.00 OPX 100.00 SUBALKALINE
MgO	1.02	1.05	1.48	LC 0.00	
Na2O	1.47	1.51	2.78	NE 0.00	A 64.66 F 22.55 M 12.78 CALC-ALKALINE
K2O	3.69	3.79	4.59	KP 0.00	
TiO2	0.25	0.26	0.18	AC 0.00	AL2O3 15.19 NORM PLAG 47.75 THOLEIITIC
P2O5	0.06	0.06	0.05	BI 0.00	
MnO	0.05	0.05	0.04	HE 0.00	AN 25.62 AB* 25.03 OR 46.35 K-RICH SERIES
S	0.00	0.00	0.00	EN 2.96	
NiO	0.00	0.00	0.00	FS 0.00	CI 4.65 NORM PLAG 47.75 HIGH ALUMINA ANDRESITE
Cr2O3	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WO 0.00	JENSEN CALC-ALKALINE RHYOLITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 84.27 FE 8.38 MG 7.34
LOI	1.93	0.00	0.00	MT 0.12	
TOTAL	97.42	100.00	100.00	IL 0.37	COLOR INDEX : 4.65 HASHIMOTO INDEX : 54.20
				CR 0.00	
				HM 1.20	
				AP 0.13	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				QL 0.00	
				OPX 3.96	
				CPX 0.00	
				AB* 13.89	

TRACE ELEMENTS (P.P.M.) NO.FT (P.P.M.)

EU	7.50:PB	15.00:ZN	90.00:AG	-0.50:AH	-10.00:MN	305.00:BA	2300.00:C	0.00:CK	3.00:
RB	60.00:SR	910.00:Y	50.00:XA	210.00:NB	10.00:SO	13.00:CO	2.00:NI	6.00:AS	-2.00:
SE	-1.00:BR	-1.00:MG	-5.00:CB	-0.20:SS	1.20:CS	1.10:LA	34.30:OZ	50.00:ND	36.00:
SM	7.90:EU	1.00:YS	3.00:LU	0.54:RE	6.00:TA	-1.00:W	-3.00:BT	-0.50:TH	4.60:
U	1.80:								

COMMENTS : IP03120004

REPORT #2000

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 PRINTED 20-OCT-85
 11:46:02

SAMPLE ID # A816919

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008
 TOWNSHIP :
 NTS : 092814
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : DM94184423
 LOT : 0 CONCESSION :
 GRID COORDINATES : E : 465613.0 N : 5399615.0 EL : 0.0

PROJECT # 941
 PROVINCE : BRITISH COLUMBIA
 PROJECT : SALTSRING BASE METAL

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, HOMOGENEOUS, TECTONIZED, LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, WEAK.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU
 ANALYZED BY : XRAL

DATE : 21-JUL-84
 DATE : 14-MAR-85

ANALYTICAL
 TECHNIQUE : ATOMIC ABSORPTION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	65.80	68.13	63.36	Q 26.20	NA2O+K2O 6.08 SiO2 68.13 SUBALKALINE
Al2O3	14.90	15.43	16.91	C 3.99	
Fe2O3	4.83	2.18	1.53	OR 11.38	OLA 9.60 NEA 30.81 OR* 59.59 SUBALKALINE
FeO	0.00	2.53	1.97	AB 37.52	
CaO	1.84	1.91	1.90	AN 7.86	CPX 0.00 OL 0.00 CPX 100.00 SUBALKALINE
MgO	2.68	2.77	3.85	LC 0.00	
Na2O	4.02	4.16	7.50	NE 0.00	A 45.52 F 33.70 M 20.78 THOLEIITIC
K2O	1.85	1.92	2.28	KP 0.00	
TiO2	0.61	0.63	0.44	AC 0.00	AL2O3 15.43 NORM PLAG 17.32 CALC-ALKALINE
P2O5	0.24	0.25	0.20	DI 0.00	
MnO	0.08	0.08	0.07	HE 0.00	AN 13.85 ABA 66.11 OR 20.04 AVERAGE SERIES
S	0.00	0.00	0.00	EN 7.69	
NiO	0.00	0.00	0.00	FS 1.66	CI 12.53 NORM PLAG 17.32 BACITE
Cr2O3	0.00	0.00	0.00	FO 0.00	
CO2	0.00	0.00	0.00	FA 0.00	
H2O+	0.00	0.00	0.00	WD 0.00	JENSEN CALC-ALKALINE ANDESITE
H2O-	0.00	0.00	0.00	LN 0.00	AL 68.29 FE 16.18 MG 15.53
LOI	2.39	0.00	0.00	MT 2.29	
TOTAL	96.98	100.00	100.00	IL 0.88	COLOR INDEX : 12.53 HASHIMOTO INDEX : 43.60
				CR 0.00	
				HM 0.00	
				AP 0.52	
				PO 0.00	
				NS 0.00	
				KS 0.00	
				KU 0.00	
				AS 0.00	
				UL 0.00	
				OPX 9.35	
				CPX 0.00	
				AB* 37.52	

TRACE ELEMENTS (P.P.M.) AU, PT (P.P.B.)

CU	14.00:BR	20.00:ZN	110.00:AG	-0.50:AU	-10.00:MN	515.00:BA	1100.00:C	0.00:CR	-10.00:
RE	40.00:SR	320.00:Y	30.00:ZR	110.00:NB	10.00:SB	13.00:CO	6.00:N1	8.00:AS	2.00:
SE	-3.00:BR	-1.00:MO	-5.00:CB	-0.20:SB	0.40:CS	2.30:LA	19.50:CE	39.00:NB	12.00:
SM	4.70:EU	1.30:YB	4.00:LU	0.63:HF	2.00:TA	-1.00:W	-3.00:SI	-0.50:TH	3.10:
U	1.70:								

COMMENTS : 092808/5854

REPORT #2000

PAGE 1
 PRINTED 20-OCT-88
 11:49:04

SAMPLE ID # AB16921 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008 FIELD NUMBER : 0894184426A PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092R14 PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 465661.0 N : 5399661.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH, HOMOGENEOUS, TECTONIZED, LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION : METAMORPHOSED, SERICITIZATION, STRONG.
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU DATE : 21-JUL-84 ANALYTICAL
 ANALYZED BY : XRAL DATE : 14-MAR-88 TECHNIQUE : ATOMIC ABSORPTION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SiO2	78.50	75.52	71.39	Q	42.25	Na2O+K2O	5.40	SiO2	75.52	SUBALKALINE		
Al2O3	13.00	13.36	14.98	C	4.12	OLA	4.75	NEA	19.74	GA	75.51	SUBALKALINE
Fe2O3	2.52	1.73	1.23	OR	17.55	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE
FeO	0.00	0.78	0.61	AB	22.88	A	58.14	F	25.06	M	16.80	CALC-ALKALINE
CaO	1.34	1.32	1.39	AN	6.70	AL2O3	13.36	NORM	PLAG	22.65	THOLEIITIC	
MgO	1.52	1.56	2.20	LC	0.00	AN	14.21	ABA	48.54	OR	37.24	K-RICH SERIES
Na2O	2.43	2.50	4.58	NE	0.00	CI	6.41	NORM	PLAG	22.65	DACITE	
K2O	2.83	2.91	3.51	KP	0.00	JENSEN	CALC-ALKALINE	DACITE				
TiO2	0.18	0.18	0.13	AC	0.00	AL	77.93	FE	10.55	MG	11.52	
P2O5	0.04	0.04	0.03	DI	0.00	COLOR INDEX :	6.41					
MnO	0.05	0.05	0.04	HE	0.00	HASHIMOTO INDEX :	53.57					
S	0.00	0.00	0.00	EN	4.40							
NiO	0.00	0.00	0.00	FS	0.00							
Cr2O3	0.00	0.00	0.00	FD	0.00							
CO2	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00							
H2O-	0.00	0.00	0.00	LN	0.00							
LOI	1.54	0.00	0.00	MT	1.57							
TOTAL	97.33	100.00	100.00	IL	0.26							
				CR	0.00							
				HM	0.18							
				AP	0.09							
				PU	0.00							
				MS	0.00							
				KS	0.00							
				RU	0.00							
				AG	0.00							
				UL	0.00							
				OPX	4.40							
				CPX	0.00							
				ABA	22.88							

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.B.)

CU	7.50:PB	18.00:ZN	100.00:AG	-0.50:AU	-10.00:MN	315.00:BA	1200.00:C	0.00:CR	-10.00:
RE	70.00:SR	300.00:Y	50.00:ZR	190.00:NB	30.00:SC	7.70:CD	2.00:NI	5.00:AS	-2.00:
SE	-3.00:BR	1.00:MO	-5.00:CU	-0.20:SB	0.00:CS	0.90:LA	25.30:CE	58.00:ND	27.00:
Sh	6.30:EU	1.50:YB	6.00:LU	0.94:HF	5.00:TA	-1.00:W	-3.00:BI	-0.50:TH	5.50:
U	2.30:								

COMMENTS : SPS305/66SH

==== K I D D C R E E K M I N E S L T D ====
 === KIDD CREEK MINESITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 11:50:06

SAMPLE ID # AB16925

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008
 TOWNSHIP :
 NTS : 092B14
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 0894184440
 LOT : 0 CONCESSION :
 GRID COORDINATES : E : 464585.0 N : 5400009.0 EL : 0.0

PROJECT # 941
 PROVINCE : BRITISH COLUMBIA
 PROJECT : SALTSRING BASE METAL

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH, BEDDED, HOMOGENEOUS, CRYSTAL.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : NIL, NIL, NO COMMENT.
 FORMATION :

SAMPLED BY : D. MALLALIEU
 ANALYZED BY : XRAL

DATE : 26-JUL-84
 DATE : 14-MAR-85

ANALYTICAL
 TECHNIQUE : ATOMIC ABSORPTION

	NORMALIZED		NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES							
	WT %	ANHYDROUS WT %	ANHYDROUS	CATION %									
SiO2	90.60	92.29	90.48	Q	79.87	NA20+K20	1.67	SiO2	92.29	SUBALKALINE			
Al2O3	3.47	3.53	4.08	C	0.47								
Fe2O3	1.44	1.47	1.08	OR	0.26	OL*	1.08	NE*	9.60	Q*	89.31	SUBALKALINE	
FeO	0.00	0.00	0.00	AB	15.49								
CaO	0.27	0.28	0.29	AN	1.16	CPX	0.00	OL	0.00	OPX	100.00	SUBALKALINE	
MgO	0.47	0.48	0.70	LC	0.00								
Na2O	1.60	1.63	3.10	NE	0.00	A	48.15	F	38.05	M	13.80	THOLEIITIC	
K2O	0.04	0.04	0.05	KP	0.00								
TiO2	0.20	0.20	0.15	AC	0.00	AL2O3		3.53	NORM	PLAG	6.98	THOLEIITIC	
P2O5	0.04	0.04	0.03	BI	0.00								
MnO	0.04	0.04	0.03	HE	0.00	AN	6.87	AB*	91.62	OR	1.51	K-POOR SERIES	
S	0.00	0.00	0.00	EN	1.40								
NiO	0.00	0.00	0.00	FS	0.00	CI		3.55	NORM	PLAG	6.98	RHYOLITE	
Cr2O3	0.00	0.00	0.00	EU	0.00								
CO2	0.00	0.00	0.00	FA	0.00								
H2O+	0.00	0.00	0.00	WO	0.00	JENSEN							
H2O-	0.00	0.00	0.00	LN	0.00	AL	67.51	FE	20.93	Mg	11.56	CALC-ALKALINE ANDESITE	
LOI	0.62	0.00	0.00	MT	0.00								
TOTAL	98.17	100.00	100.00	IL	0.07	CDLOR INDEX :						2.55	
				CR	0.00	HASHIMOTO INDEX :							21.43
				Hm	1.08								
				AP	0.09								
				FU	0.00								
				NS	0.00								
				KS	0.00								
				EU	0.12								
				AG	0.00								
				OL	0.00								
				OPX	1.40								
				CPX	0.00								
				AB*	15.49								

TRACE ELEMENTS (P.P.M.) AU, FT (P.P.B.)

CU	28.00:PB	10.00:ZN	50.00:AG	-0.50:AU	-10.00:MN	342.00:BA	-150.00:CO	0.00:CR	20.00:
RB	-10.00:SR	40.00:Y	20.00:ZR	30.00:NB	10.00:SC	6.40:CO	3.00:NI	12.00:AS	-2.00:
SE	-3.00:BR	-1.00:MO	-5.00:CD	-0.20:SB	-0.20:CS	-0.50:LA	4.10:CE	18.00:NB	-10.00:
SM	2.30:EU	0.40:YB	2.00:LU	0.33:HF	1.00:TA	-1.00:W	-3.00:RI	-0.50:TH	2.50:
U	0.90:								

COMMENTS : SP0312/5580

REPORT 12000

PAGE 1
 PRINTED 20-OCT-85
 11:51:07

SAMPLE ID # A816929

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008

FIELD NUMBER : DM94134441

PROJECT # 941

TOWNSHIP :

LOT : 0 CONCESSION :

PROVINCE : BRITISH COLUMBIA

NTS : 092B14

PROJECT : SALTSRING BASE METAL

UTM ZONE : 10

GRID COORDINATES : E : 464555.0 N : 5400773.0 EL : 0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, FELSIC, ASH, BEDDED, HOMOGENEOUS, CRYSTAL.

FINAL NAME :

ALTERATION :

MINERALIZATION : NIL, NIL, NO COMMENT.

FORMATION :

SAMPLED BY : D.MALLALIEU

DATE : 26-JUL-84

ANALYTICAL

ANALYZED BY : XRAL

DATE : 14-MAR-85

TECHNIQUE : ATOMIC ABSORPTION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES							
SiO2	80.20	80.93	75.73	Q	43.36	NA2O+K2O	5.50	SiO2	80.93	SUBALKALINE		
Al2O3	9.90	9.99	11.02	C	0.00							
Fe2O3	1.30	1.31	0.92	OR	0.36	OLA	0.49	NE*	31.72	Q*	67.79	SUBALKALINE
FeO	0.00	0.00	0.00	AB	49.33							
CaO	1.16	1.17	1.17	AN	2.70	CPX	79.15	OL	0.00	OPX	20.85	ALKALINE
MgO	0.63	0.64	0.89	LC	0.00							
Na2O	5.39	5.44	9.87	NE	0.00	A	75.18	F	16.13	M	8.69	CALC-ALKALINE
K2O	0.06	0.06	0.07	KP	0.00							
TiO2	0.40	0.40	0.28	AC	0.00	AL2O3		9.99	NORM	PLAG	5.19	THOLEIITIC
P2O5	0.04	0.04	0.03	BI	2.32							
MnO	0.02	0.02	0.02	HE	0.00	AN	5.15	AB*	94.16	OR	0.69	K-POOR SERIES
S	0.00	0.00	0.00	EN	0.61							
NiO	0.00	0.00	0.00	ES	0.00	CI		3.89	NORM	PLAG	5.19	RHYOLITE
Cr2O3	0.00	0.00	0.00	FO	0.00							
CoO	0.00	0.00	0.00	FA	0.00							
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN						CALC-ALKALINE RHYOLITE
H2O-	0.00	0.00	0.00	LN	0.00	AL	83.93	FE	9.32	MG	6.75	
LOI	0.39	0.00	0.00	MT	0.00							
TOTAL	99.10	100.00	100.00	IL	0.03							
				CR	0.00	COLOR INDEX :						3.89
				HM	0.92	HASHIMOTO INDEX :						9.53
				AP	0.09							
				PU	0.00							
				NS	0.00							
				KS	0.00							
				RU	0.27							
				AG	0.00							
				HL	0.00							
				OPX	0.61							
				CPX	2.33							
				AB*	49.33							

TRACE ELEMENTS (P.P.M.) AU.PT (P.P.E.)

CU	7.00:FK	10.00:ZN	18.00:AG	-0.50:AU	-10.00:MN	164.00:BA	500.00:CO	0.00:CR	10.00:
RB	10.00:SK	180.00:IY	20.00:ZE	50.00:NB	10.00:SC	15.00:CD	5.00:NI	15.00:AS	-2.00:
SE	-3.00:BR	-1.00:MO	-5.00:CD	-0.20:SR	-0.20:ES	-0.50:LA	5.60:CE	17.00:NB	10.00:
SM	2.40:EU	-0.30:YB	2.00:LU	0.31:HF	2.00:TA	-1.00:W	-3.00:SI	-0.50:TH	1.00:
U	-0.50:								

COMMENTS : SP0317/90

==== K I D D C R E E K M I N E S L T D ====
 === KIDD CREEK MINESITE COMPUTER SYSTEM ===

REPORT #2000

PAGE 1
 PRINTED 30-OCT-85
 11:52:08

SAMPLE ID # AB16933

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008
 TOWNSHIP :
 NTS : 092B14
 UTM ZONE : 10
 SAMPLE TYPE : GRAB SAMPLE

FIELD NUMBER : 0M941844588
 LOT : 0 CONCESSION :
 GRID COORDINATES : E : 464540.0 N : 5400755.0 EL : 0.0

PROJECT # 941
 PROVINCE : BRITISH COLUMBIA
 PROJECT : SALTSRING BASE METAL

FIELD NAME : VOLCANICLASTIC,FELSIC,ASH,BEDDED,HOMOGENEOUS ,LOOK AT COMMENTS FILE.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : NIL ,NIL ,NO COMMENT.
 FORMATION :

SAMPLED BY : D.MALLALIEU
 ANALYZED BY : XRAL

DATE : 26-JUL-84
 DATE : 14-MAR-85

ANALYTICAL
 TECHNIQUE : ATOMIC ABSORPTION

	WT %	NORMALIZED		NORMS	CLASSIFICATIONS AND INDICES	
		ANHYDROUS WT %	ANHYDROUS CATION %			
SiO2	86.60	89.41	87.61	Q	77.36	NA20+K20 1.53 SiO2 89.41 SUBALKALINE
Al2O3	4.51	4.66	5.38	C	2.36	
Fe2O3	3.41	1.68	1.24	OR	3.49	OLA 3.56 NEA 6.09 OA 90.36 SUBALKALINE
FeO	0.00	0.22	0.59	AB	9.22	
CaO	0.26	0.27	0.28	AN	1.19	CPX 0.00 OL 0.00 OFX 100.00 SUBALKALINE
MgO	1.43	1.48	2.16	LC	0.00	
Na2O	0.94	0.97	1.84	NE	0.00	A 29.14 F 42.70 M 28.16 THOLEITIC
K2O	0.54	0.56	0.70	KP	0.00	
TiO2	0.13	0.13	0.10	AC	0.00	AL2O3 4.66 NORM PLAG 11.47 THOLEITIC
P2O5	0.03	0.03	0.03	BI	0.00	
MnO	0.08	0.08	0.07	HE	0.00	AN 8.59 AB* 66.31 OR 25.09 AVERAGE SERIES
S	0.00	0.00	0.00	EN	4.31	
NiO	0.00	0.00	0.00	FS	0.00	CI 6.31 NORM PLAG 11.47 RHYOLITE
Cr2O3	0.00	0.00	0.00	FO	0.00	
CO2	0.00	0.00	0.00	FA	0.00	
H2O+	0.00	0.00	0.00	WD	0.00	JENSEN CALC-ALKALINE BASALT
H2O-	0.00	0.00	0.00	LN	0.00	AL 56.39 FE 21.00 MG 22.61
LOI	1.31	0.00	0.00	MT	1.69	
TOTAL	96.85	100.00	100.00	IL	0.20	
				CR	0.00	COLOR INDEX : 6.31
				HM	0.11	HASHIMOTO INDEX : 62.15
				AP	0.07	
				FO	0.00	
				NS	0.00	
				KS	0.00	
				FU	0.00	
				AG	0.00	
				UL	0.00	
				OFX	4.31	
				CPX	0.00	
				ABA	9.22	

TRACE ELEMENTS (P.P.M.) AU,PT (P.P.B.)

CU	130.00:PB	10.00:ZN	48.00:AG	-0.50:AU	22.00:MN	584.00:BA	2900.00:IC	0.00:CR	-10.00:
RE	20.00:SR	60.00:Y	20.00:ZF	10.00:NB	-10.00:SC	5.30:CO	11.00:NI	38.00:AS	5.00:
SE	-3.00:BR	-1.00:MO	-5.00:CD	-0.20:SB	0.80:CS	-0.50:LA	19.30:CE	32.00:ND	12.00:
SM	1.90:EU	0.30:YB	1.00:LU	0.17:HF	1.00:TA	-1.00:W	-3.00:BI	-0.50:TH	1.60:
U	0.60:								

COMMENTS : SLIGHTLY SUBVOLCANIC FELDSPAR CRYSTAL RHYOLITIC TO RHYOLITIC TUFF INTERSECTED WITH CHERTY TUFF.

REPORT #2000

PAGE 1
 PRINTED 20-OCT-85
 11:53:09

SAMPLE ID # A818572

WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 24008 FIELD NUMBER : E-60 PROJECT # 941
 TOWNSHIP : LOT : 0 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092814 PROJECT : SALTSRING BASE METAL
 UTM ZONE : 10 GRID COORDINATES : E : 0.0 N : 0.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY OXIDE IRON FORMATION, SILT, LAMINATED.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : BEDDED, 5-20% MAGNETITE.
 FORMATION :

SAMPLED BY : S.ENNS DATE : 28-OCT-84 ANALYTICAL
 ANALYZED BY : XRAL DATE : 14-MAR-85 TECHNIQUE : ATOMIC ABSORPTION

	WT %	NORMALIZED ANHYDROUS WT %	NORMALIZED ANHYDROUS CATION %	NORMS	CLASSIFICATIONS AND INDICES
SiO2	86.50	89.14	90.75	86.57	NA2O+K2O 0.03 SiO2 89.14 SUBALKALINE
Al2O3	0.24	0.25	0.30	1.11	
Fe2O3	11.00	1.57	1.20	0.20	DL* 10.33 NE* 0.00 Q* 89.67 SUBALKALINE
FeO	0.00	8.79	7.48	-5.00	
CaO	0.12	0.12	0.13	0.38	CPX 0.00 OL 0.00 QPX 100.00 SUBALKALINE
MgO	0.01	0.01	0.02	0.00	
Na2O	-0.01	-1.00	-1.00	0.00	A 0.30 F 99.60 M 0.10 THOLEIITIC
K2O	0.03	0.03	0.04	0.00	
TiO2	0.02	0.02	0.02	0.00	AL2O3 0.25 NORM PLAG 100.00 THOLEIITIC
P2O5	0.04	0.04	0.04	0.00	
MnO	0.03	0.03	0.03	0.00	AN 65.28 ABA 0.00 OR 34.72 K-RICH SERIES
S	0.00	0.00	0.00	0.03	
NiO	0.00	0.00	0.00	13.79	CI 15.65 NORM PLAG 100.00 BASALT
Cr2O3	0.00	0.00	0.00	0.00	
CO2	0.00	0.00	0.00	0.00	
H2O+	0.00	0.00	0.00	0.00	JENSEN HIGH IRON THOLEIITIC BASALT
H2O-	0.00	0.00	0.00	0.00	AL 3.28 FE 96.54 MG 0.17
LOI	0.93	0.00	0.00	1.89	
TOTAL	97.03	99.00	99.00	0.03	COLOR INDEX : 15.65 HASHIMOTO INDEX : 25.00
				CR 0.00	
				HM 0.00	
				AP 0.09	
				PD 0.00	
				NS 0.00	
				KS 0.00	
				RU 0.00	
				AG 0.00	
				DL 0.00	
				QPX 13.82	
				CPX 0.00	
				ABA -5.00	

TRACE ELEMENTS (P.P.M.) AU, PT (P.P.B.)

CU	21.00:PB	18.00:ZN	15.00:AG	-0.50:AU	24.00:MN	302.00:BA	-150.00:CR	-10.00:RE	10.00:
SR	10.00:Y	-10.00:ZR	-10.00:NE	20.00:SC	0.50:CO	3.00:NI	8.00:AS	23.00:SE	-3.00:
BR	-1.00:MO	-5.00:CD	-0.20:SR	0.50:CS	0.50:LA	1.20:CE	3.00:ND	-10.00:SM	0.30:
EU	-0.20:YB	0.00:LU	0.06:HE	-1.00:TA	-1.00:W	-3.00:SI	-0.50:TH	-0.50:U	0.50:

COMMENTS : BEDDING 100/60W. CLEAVAGE PARALLEL. FINE MAGNETITE BUDS WITH MINOR JASPER <1/2% PYRITE ALONG BEDDING
 MINOR MNDS. LINE B 34+00

APPENDIX F

V.L.F AND MAGNETOMETER COMPUTER PRINT-OUTS

APPENDIX G
STATEMENT OF EXPENDITURES
SALTSPRING ISLAND

CLAIMS: Hope Group Comprised of Bruce 1, Bruce 2, Salt 1, Musgrave 1, Musgrave 2.

MINING DIVISION: Victoria

NTS: 92B/11, 12, 13, 14

SUMMARY OF WORK: Linecutting, detailed geological mapping, geochemical sampling, ground geophysical surveying.

PERIOD OF WORK: May 2 - July 19, 1985

COSTS:

A. LINECUTTING AND GRID CHAINING: 0.62 1-km, 20 m stations, horiz. chaining

PERSONNEL

G. Hendrickson, geophysicist May 2 - 3	2 days @\$227/day	<u>454.00</u>	
		454.00	454.00

ROOM AND BOARD

2 man-days @ \$30/day		60.00	60.00
-----------------------	--	-------	-------

TRANSPORTATION

Toyota diesel 4 x 4	2 days @ \$1,000/month	66.00	
Redhawk Rentals, Burnaby, B.C.			
Diesel fuel		30.00	
4 Ferry Crossings	@\$5.00/crossing	<u>20.00</u>	<u>116.66</u>
TOTAL COST: Linecutting and grid		116.66	\$ 630.66

B. TRENCHING

PERSONNEL

HENDRICKSON, G., Geophysicist May 7	1 day @\$227/day	227.00	
MALLALIEU, D., Geologist May 7	1 day @\$92/day	<u>92.00</u>	
		319.00	319.00

ROOM AND BOARD

2 man days @ \$30/day		60.00	60.00
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TRANSPORTATION

Toyota 4x4 Pick-up	1 day @ \$500/day	16.66	16.66
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BACKHOE AND OPERATOR

	45 hours. @ \$44/hour	200.00	<u>200.00</u>
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TOTAL: Trenching			595.66
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TOTAL COST: Line cutting, grid chaining and trenching			\$1,226.32
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\$1,200 of this cost to be applied to:

Musgrave 1 2 units Record No. 1340 July 3 years @			1,200.00
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GROUND GEOPHYSICS: HLEM and Magnetometer surveys 0.62-km

PERSONNEL

HUTTEMAN, T., Junior Geophysicist

May 3, July 18-19	3 days @\$78/day	234.00	
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MELNYK, J., Junior Geophysical Assistant			
	2 days @\$66/day	132.00	
		<u>366.00</u>	<u>366.00</u>

ROOM AND BOARD

5 man-days @ \$30/day		150.00	150.00
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TRANSPORTATION

Toyota diesel 4x4	3 days @ \$1000/month	100.00	
-------------------	-----------------------	--------	--

Redhawk Rentals, Burnaby, B.C.

Diesel fuel		30.00	
-------------	--	-------	--

6 Ferry crossings	@ \$6/crossing	<u>36.00</u>	
		166.00	<u>166.00</u>

REPORT PREPARATION

HENDRICKSON, G., Geophysicist

October 21	1 day @ \$277.00	277.00	<u>277.00</u>
			909.00

D. GEOCHEMICAL SAMPLING: Soil and Rock Geochemistry

PERSONNEL

MALLALIEU, D., Geologist

May 2-4	3 days @ \$92/day	276.00	
---------	-------------------	--------	--

HUTTEMAN, T., Junior Geophysicist

May 2	1 day @\$78/day	78.00	
-------	-----------------	-------	--

MELNYK, Junior Geophysical Assistant

May 2-3	2 days @\$66/day	132.00	
---------	------------------	--------	--

CAMBEN, Junior Geological Assistant

May 2-3	2 days @\$62/day	124.00	
---------	------------------	--------	--

MONGER, J., Junior Geological Assistant

May 3	1 day @\$68/day	<u>68.00</u>	
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		678.00	\$678.00
--	--	--------	----------

ROOM AND BOARD

9 man days @ 30/day		270.00	270.00
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TRANSPORTATION

Toyota 4x4 Pick-up	2 days @\$500/month	33.33	
--------------------	---------------------	-------	--

Redhawk Rentals, Burnaby, B.C.

Gasoline		30.00	
----------	--	-------	--

Toyota diesel 4x4 Landcruiser

	3 days @\$1000/month	100.00	
--	----------------------	--------	--

Diesel fuel		30.00	
-------------	--	-------	--

10 Ferry Crossings	@ \$6/crossing	<u>60.00</u>	
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		\$253.33	253.33
--	--	----------	--------

GEOCHEMICAL ANALYSES

Acme Analytical Laboratory, Vanc. B.C.

189 soil for Ba @\$3.00		567.00	
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148 soil for Au @\$4.00	592.00	
295 soil for Cu, Pb, Zn, Ag, Mn @\$4.60	1,357.00	
15 references for Cu, Pb, Zn, Ag, Mn @\$4.60	64.00	
7 references for Ba @ 3.00	21.00	
7 references for Au @ 4.00	28.00	
59 rock for 30 element ICP @ 8.75	<u>516.25</u>	
	3,150.25	\$3,150.25

X-Ray Assay Laboratories Ltd.,
Don Mills, Ontario

27 rock for Whole Rock Analysis @ 20.25	546.75	
14 rock for multi element Analysis @ 27.00	<u>378.00</u>	
	924.75	<u>924.75</u>

TOTAL COST: Geochemical Sampling \$5,276.33

E. GEOLOGICAL MAPPING:

PERSONNEL

MALLALIEU, Geologist

May 5-6, 8-9 4 days @ \$92/day 368.00

ROOM AND BOARD

4 man-days @ \$30/day 120.00 120.00

TRANSPORTATION

Toyota 4x4 Pick-up 4 days @\$1000/month 133.33

Redhawk Rentals, Burnaby, B.C.

Gasoline 30.00

8 ferry crossings @ \$5/crossing 40.00

203.33 203.33

REPORT PREPARATION

700.00

TOTAL: Geological Mapping \$1,391.33

TOTAL COST: Ground geophysics, geochemical
sampling, and geological mapping \$7,576.66

\$6,500 of this plus \$1,500 of PAC to be applied to:

Musgrave 2	4 units	Record No. 1344	Aug.	2 years @	1600.00
Bruce 1	20 units	Record No. 1171	Feb.	1 year @	4000.00
Salt 1	12 units	Record No. 1168	Feb.	1 year @	2400.00

The excess \$1076.66 to be applied to future work on Bruce 1.

APPENDIX H
STATEMENTS OF QUALIFICATIONS
SALTSPRING ISLAND

STATEMENT OF QUALIFICATIONS

NAME: David Mallalieu
ADDRESS: 701 - 1281 West Georgia, Vancouver, B.C. V6E 3J7
EDUCATION: B.Sc. - Honours Geology, 1983
Carleton University

EXPERIENCE:

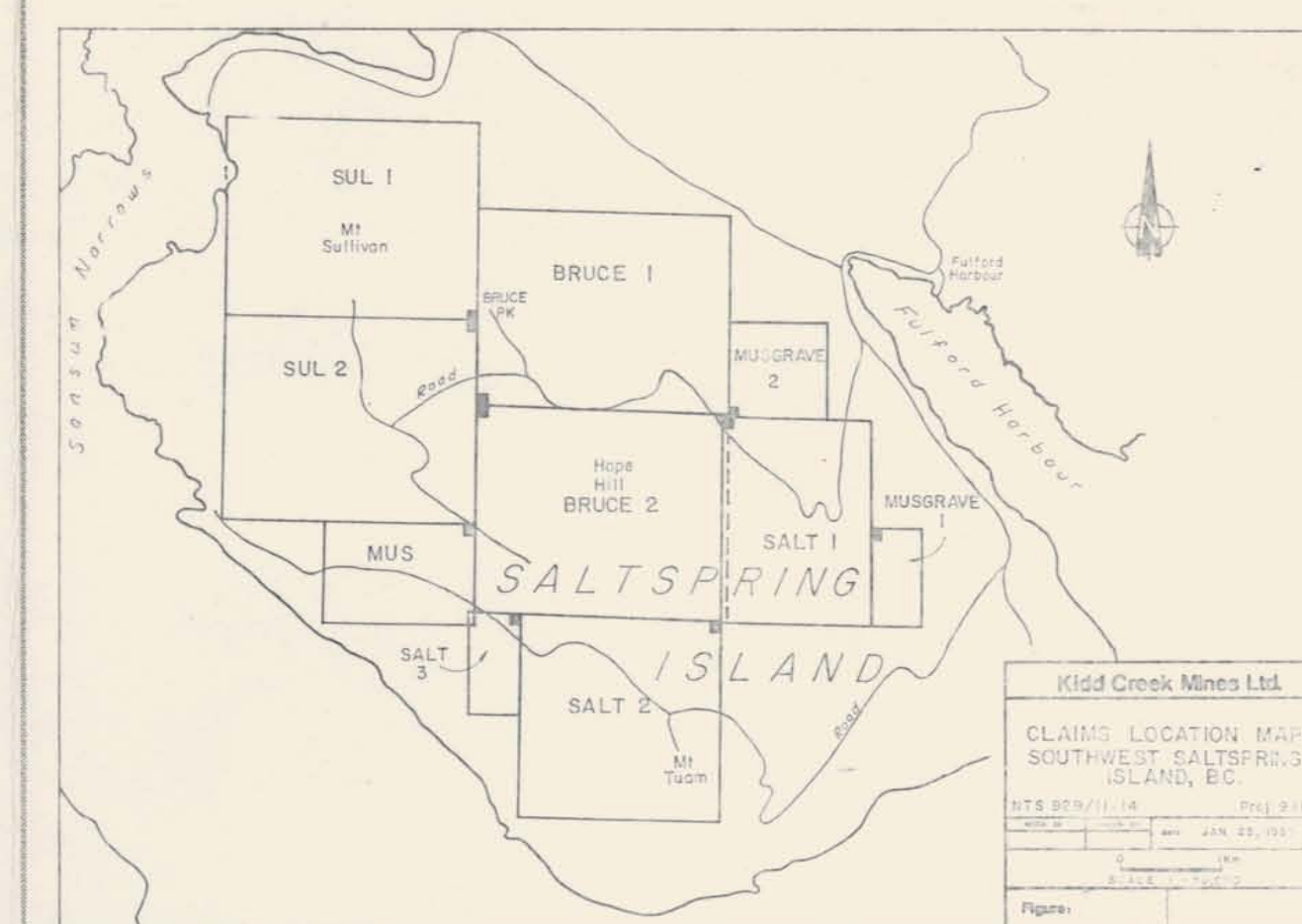
May-Sept 1981 Mattagami Lake Exploration Ltd.
Junior Geological Assistant

May-Sept 1982 Mattagami Lake Exploration Ltd.
Senior Geological Assistant

April-Dec 1983 Billiton Canada Ltd. - Vancouver
Senior Geological Assistant

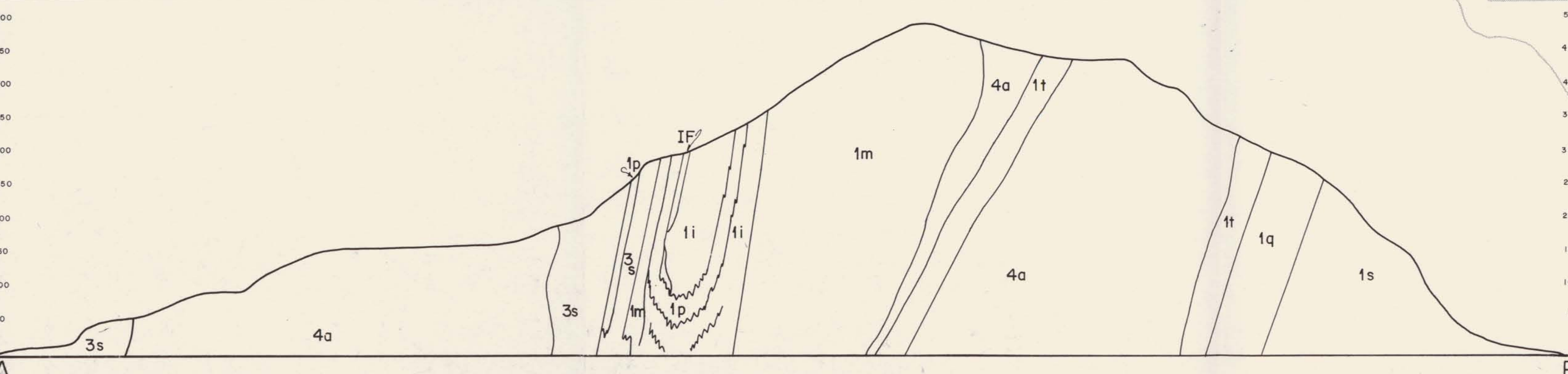
May-Dec 1984 Kidd Creek Mines Ltd.
Geologist

March-Nov 1985 Kidd Creek Mines Ltd.
Geologist



LEGEND

- NAVAHO GROUP**
- Extension - Protection Formation (Map Unit 5)
 - 5a Polytactic conglomerate, 5b Siltstone
- SICKER GROUP**
- Mafic Intrusion Unit (Map Unit 4)**
- 4a Gabro/Diabase, 4b Feldspar-gneophyric diabase, 4c Amphibole pegmatite
- SEDIMENT UNIT (Map Unit 3)**
- 3a Black shale/Siltstone
 - 3b Muscovite schist
 - 3g Greywacke, psammite
 - 3c Marble and impure carbonate
 - 3i Lapilli tuff
 - 3m Mafic volcanic rocks: andesite, basaltic-andesite, basalt
- SALTSPRING INTRUSION (Map Unit 2)**
- 2a Quartz porphyry
- MYRA FORMATION (Map Unit 1)**
- 1t Rhyolitic tuff
 - 1x Feldspar crystal tuff
 - 1p Chlorite-sericite schist, chlorite schist
 - 1l Lapilli tuff, lapilli-black tuff
 - 1q Quartz-feldspar-phyric rhyodacite to rhyolite
 - 1d Dacite
 - 1m Mafic volcanic rock
 - 1a Amphibolite
 - 1s Siltstone
 - 1c Impure carbonate
- SYMBOLS**
- Outcrop: defined, approximate
 - Geologic contact: defined, inferred
 - Formational contact
 - +/× Bedding: horizontal, vertical, inclined
 - +/× Bedding with tops direction indicated; horizontal, vertical, inclined
 - +/× Foliation, cleavages: horizontal, vertical, inclined
 - +/× Fold axis: antiformal, synformal
 - +/× Fold axis plunge
 - ~ Fault: defined, approximate, inferred
 - Rock sample for major oxides
 - * Rock sample for base-precious metals
- Qtz** Quartz
Py Pyrite
Mt Magnetite
Cpy Chalcocopyrite
Jasp Jaspillite
Rho Rhodonite
F Fossil locality
Ca Pervasive carbonate veining



Geological Schematic Cross Section A - B

HORIZONTAL SCALE 1:10,000
 VERTICAL SCALE 1:5,000

GEOLOGICAL BRANCH ASSESSMENT REPORT

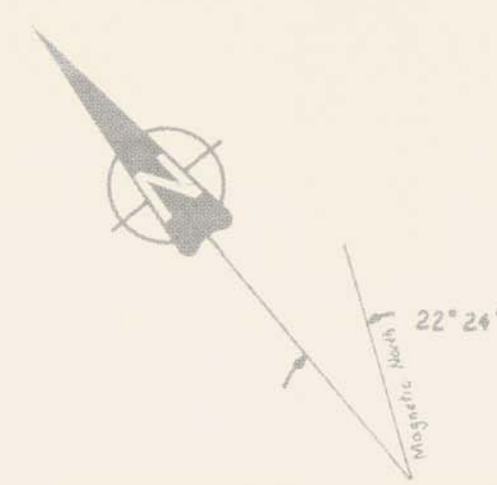
13,996

Kidd Creek Mines Ltd.
 SALTSPRING ISLAND, B.C.
 PROPERTY GEOLOGY

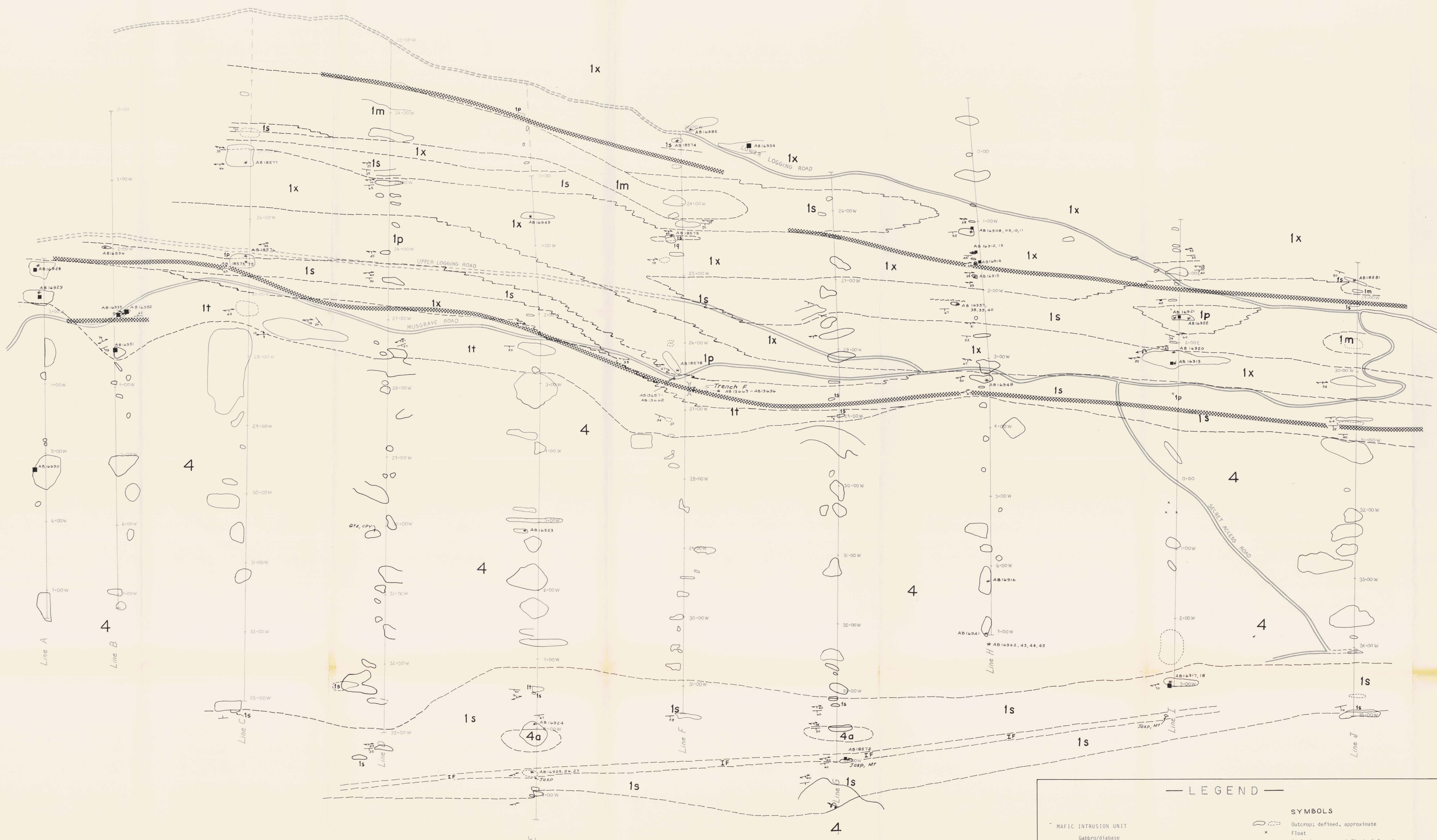
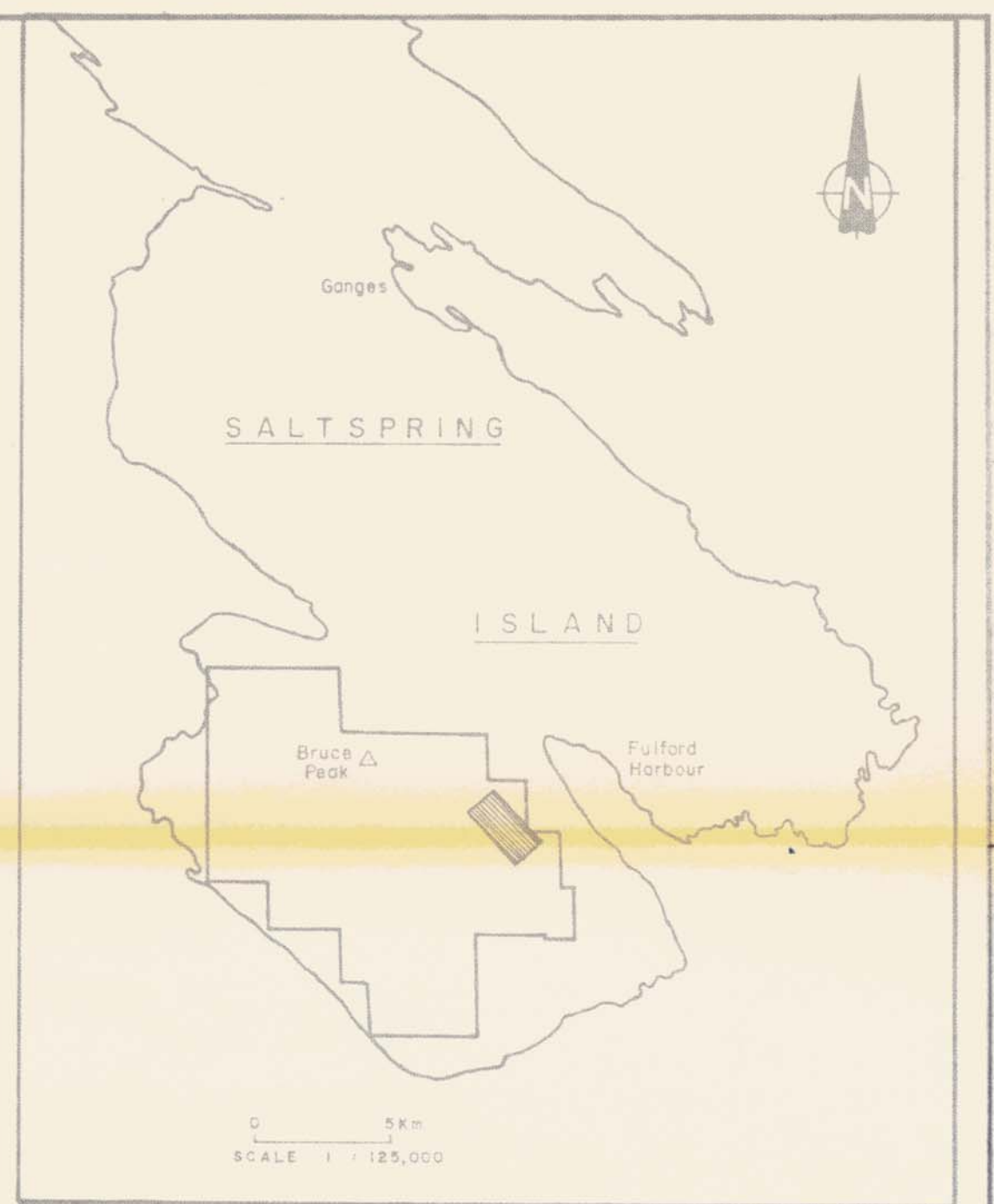
NTS 92B/11-14 Proj 941
 DRAWN BY DATE FEB 18, 1985

SCALE IN METRES 1:10,000

Figure: 4



1m
1q



27+00 W
28+00 W
29+00 W
30+00 W
31+00 W
32+00 W
33+00 W

Line K

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
13,996

— LEGEND —

<p>MAFIC INTRUSION UNIT</p> <p>4 Gabbro/diabase Feldspar-glaucophanic diabase Amphibole pegmatite</p> <p>MYRA FORMATION</p> <p>It Rhyolitic tuff 1m Mafic volcanic rock 1q Quartz-feldspar-phyric rhyodacite to rhyolite 1x Feldspar crystal tuff 1p Chlorite-sericite-schist, chlorite schist 1s Black siltstone</p> <p>IRON FORMATION</p> <p>IF</p>	<p>SYMBOLS</p> <p>○ Outcrop; defined, approximate □ Outcrop; inferred — Geologic contacts; defined, inferred — Bedding; horizontal, vertical, inclined — Bedding with tops, direction indicated; horizontal, vertical, inclined — Foliation, cleavage; horizontal, vertical, inclined — Fold axis; antiformal, synformal — Fold axis plunge QZz Quartz Mtz Magnetite Cpy Chalcopyrite Jsp Jaspillite ■ Rock sample for major oxides ● Rock sample for base-precious metals XXX H.L.E.M. Conductor</p>
--	--

Note: All lines have been chained independently of one another.

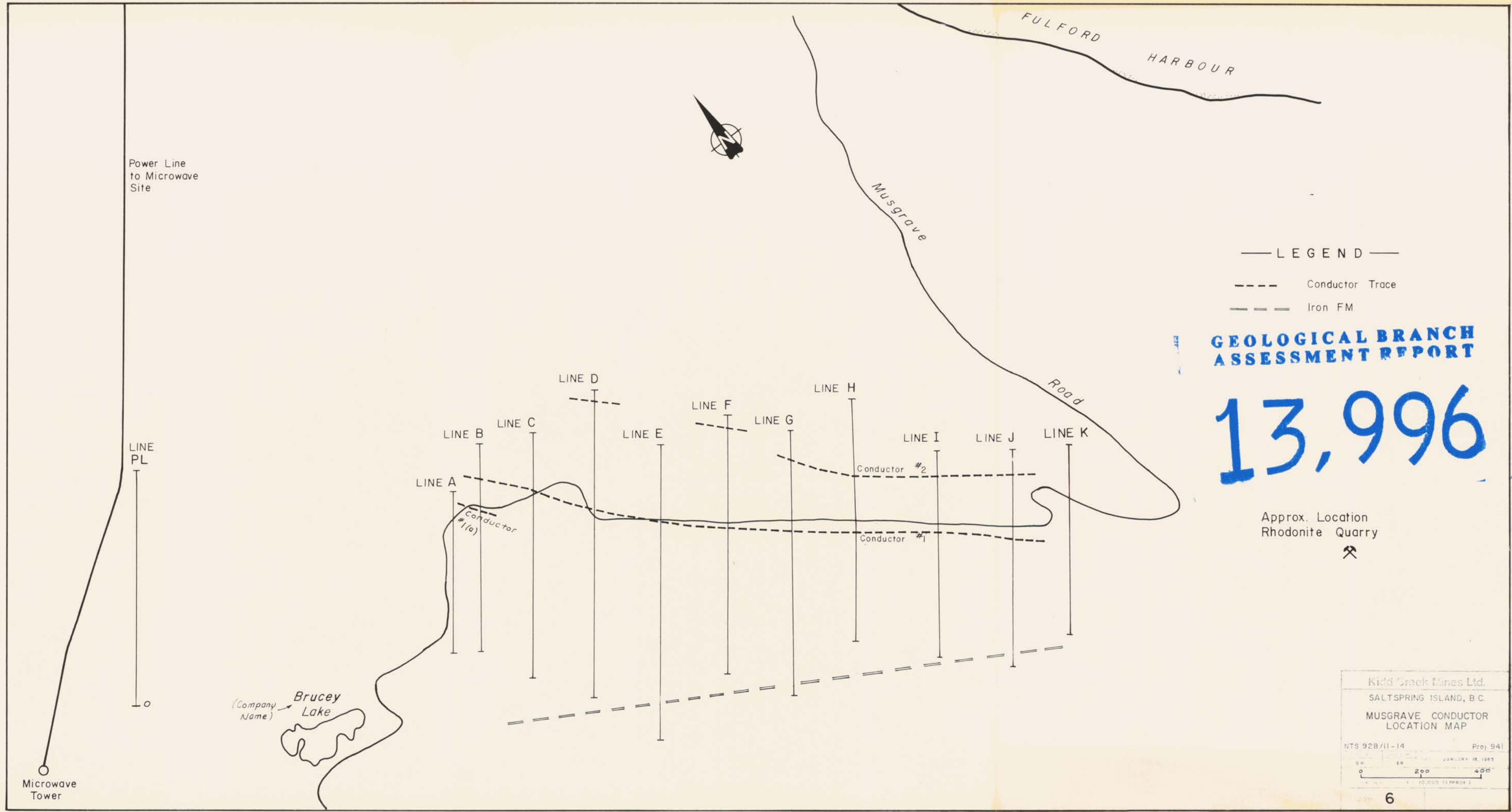
Kidd Creek Mines Ltd.
SALTSPRING ISLAND, B.C.
**MUSGRAVE GRID
GEOLOGY**

NTS 92B/11-14 Proj. 941

WORKS BY: DRAWN BY: DATE: FEB. 6, 1985

SCALE IN METERS 1:2000

Figure: 5



Power Line to Microwave Site

LINE PL

Microwave Tower

Brucey Lake
(Company Name)

FULFORD HARBOUR

Musgrave

Road

LINE A LINE B LINE C LINE D LINE E LINE F LINE G LINE H LINE I LINE J LINE K

Conductor #1(a)

Conductor #2

Conductor #1

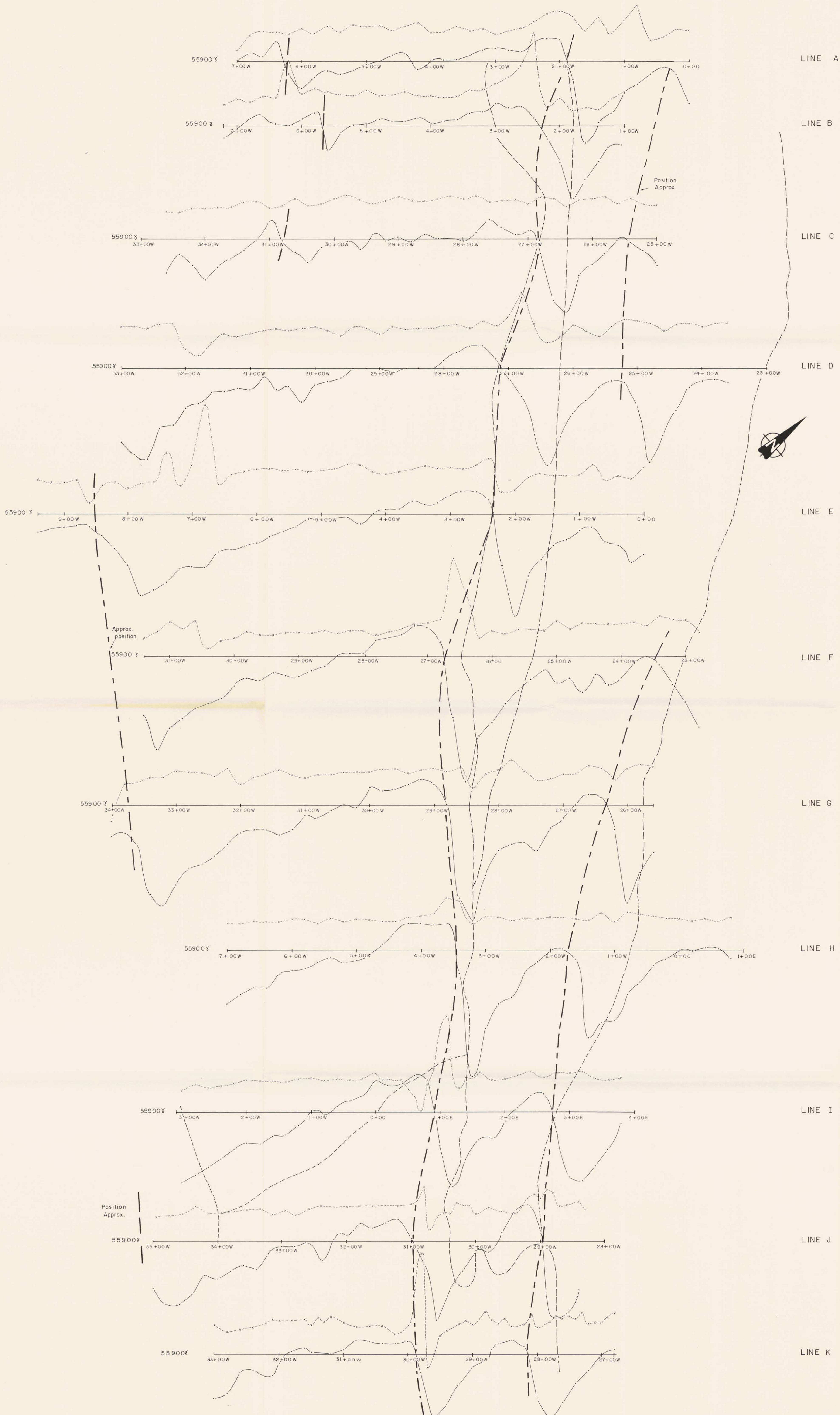
— LEGEND —
 - - - Conductor Trace
 - · - · Iron FM

GEOLOGICAL BRANCH ASSESSMENT REPORT

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Approx. Location Rhodonite Quarry
 ⚒

Kidd Creek Mines Ltd.
 SALTSRING ISLAND, B.C.
 MUSGRAVE CONDUCTOR LOCATION MAP
 NTS 92B/11-14 Proj 941
 JANUARY 18, 1985
 0 200 400
 1:10,000 (APPROX.)



LINE A
 LINE B
 LINE C
 LINE D
 LINE E
 LINE F
 LINE G
 LINE H
 LINE I
 LINE J
 LINE K

— Road
 ××× Total Field Mag (γ) lcm = 100γ
 - - - VLF In-Phase (%) lcm = 10% Vertical Field
 - · - VLF Conductor Trace

Note Lines were chained independently of each other, however were tied to the main access road

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

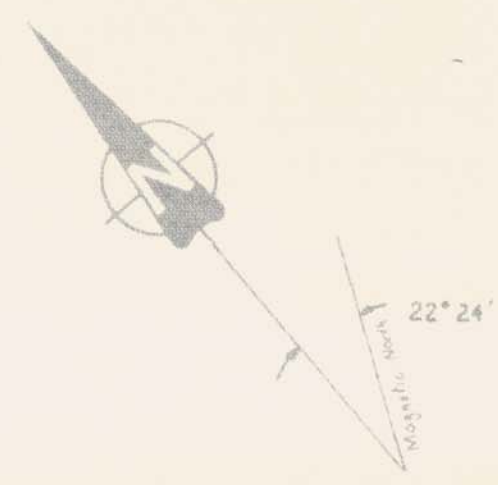
13,996

Kidd Creek Mines Ltd.
 SALTSRING ISLAND, B.C.
 MUSGRAVE GRID
 PROFILES OF VLF & MAGNETIC DATA

Proj. 941

WORK BY DM	DRAWN BY ER	DATE: OCTOBER 17, 1985
SCALE IN METRES 2500		

Figure: 7



Note - All lines have been chained independently of one another

○ 1984 Soil Sample, SA Series
● 1985 Soil Sample

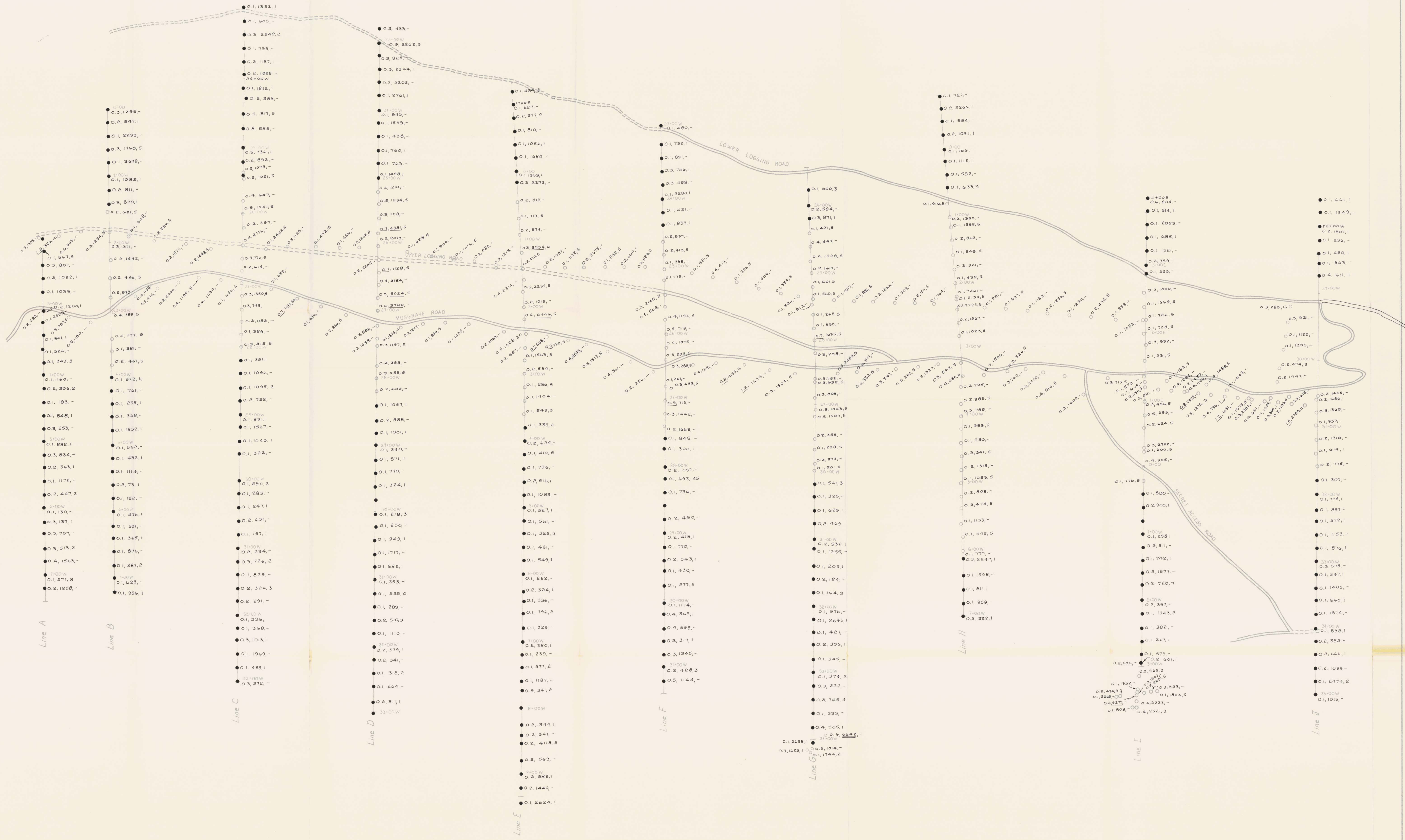
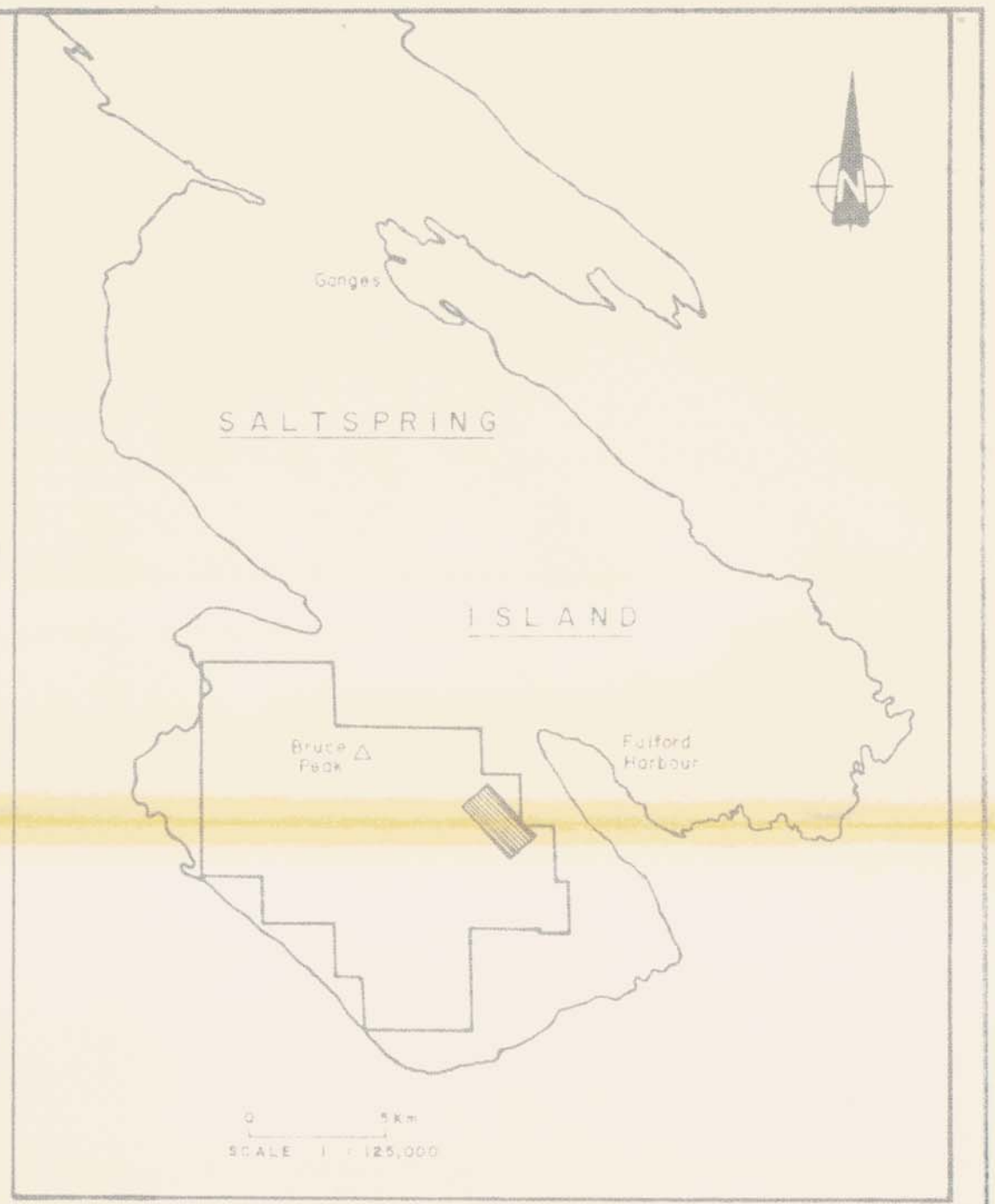
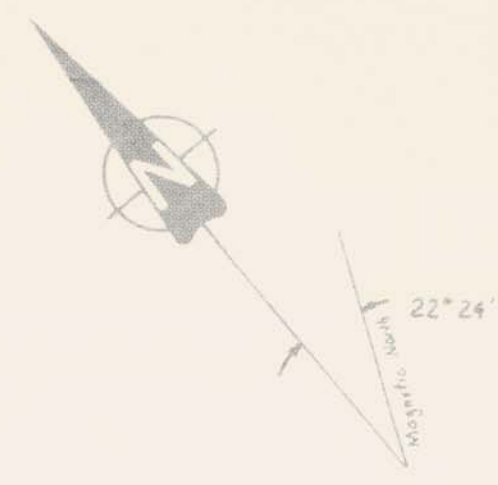
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,996

Kidd Creek Mines Ltd.
SALTSPRING ISLAND, B.C.
MUSGRAVE GRID
SOIL SAMPLE LOCATIONS

NTS 92B/11-14 Proj. 941
WORK BY: DRAWN BY: DATE: OCT, 1985
SCALE IN METRES 1:2000

Figure: 8



Note - All lines have been chained independently of one another.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,996

Ag, Mn, Au (All values in ppm except Au in ppb)

○ 1984 Sample
● 1985 Sample

Threshold Values			
	Ag	Mn	Au
Weak	>0.7	>3500	>20
Strong	>1.6	>5000	>50

Kidd Creek Mines Ltd.

SALTSPRING ISLAND, B.C.

MUSGRAVE GRID

Ag, Mn, Au SOIL RESULTS

NTS 9287/11-14
DATE OCT., 1985
Proj. 941

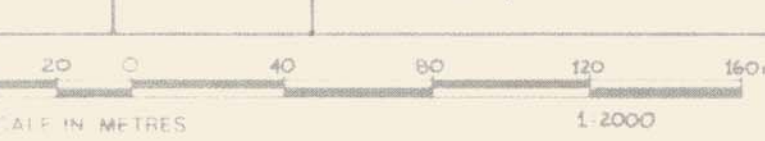
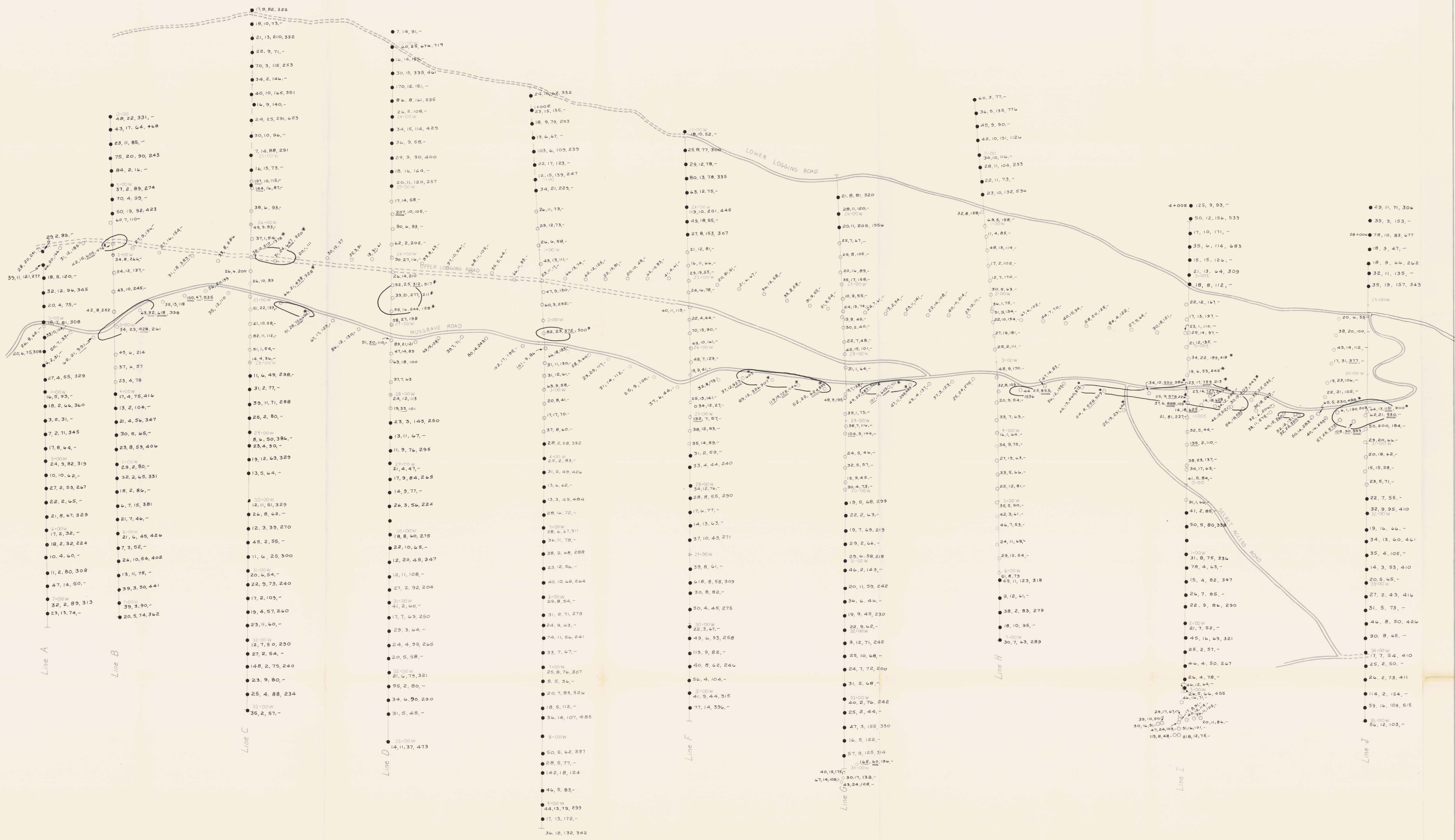
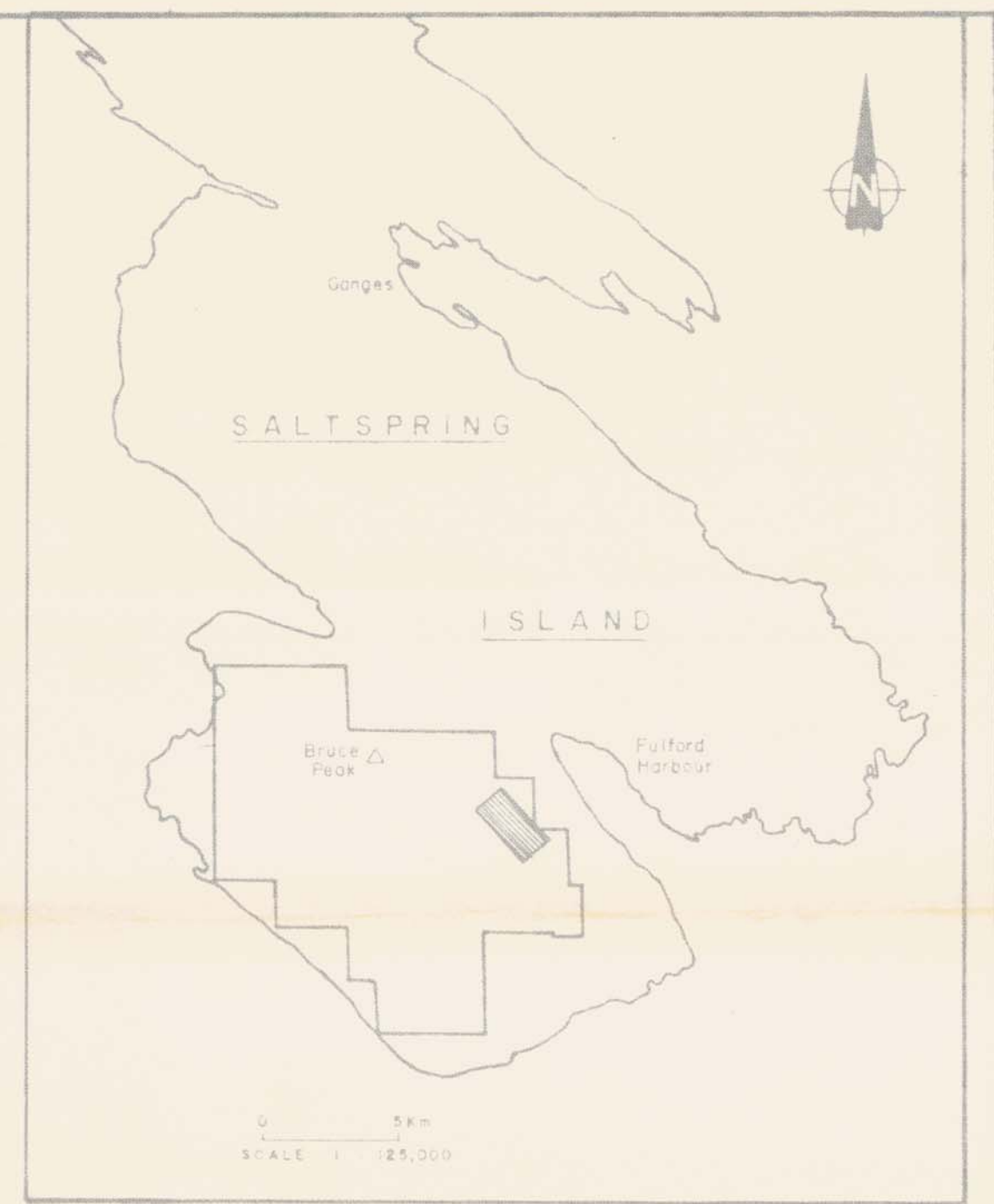
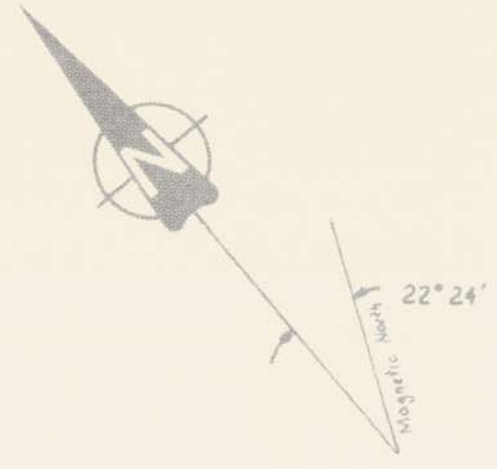


Figure: 10



Note - All lines have been chained independently of one another.

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,996

Phosphorus (All values in ppm)

List of anomalous Zn in Soils

- 1984 Sample
- 1985 Sample
- * Samples reassayed for Ba in 1985

Threshold Values

	Cu	Pb	Zn	Ba
Weak	<100	<30	<300	<475
Strong	<200	<50	<600	<850

Kidd Creek Mines Ltd.

SALTSRING ISLAND, B.C.

MUSGRAVE GRID

Cu, Pb, Zn, Ba SOIL RESULTS

NTS 92B/11-14 Proj. 941

WORK SHEET	DRAWN BY	DATE
		OCT, 1985

SCALE IN METERS 1:5000

Figure: 9