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CORPORATION FALCONBRIDGE COPPER / REA GOLD CORPORATION

JOINT VENTURE

REPORT ON THE 1984 WORK PROGRAMME

November 1st, 1984

Ian D. Pirie

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SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

The Bar joint venture property is underlain by volcanic and sedimentary rocks similar in nature to those found in many massive sulphide camps worldwide. The presence of alteration and mineralization in several places is indicative of widespread hydrothermal activity. In addition, direct comparisons may be made with host rock sequences of the Rea Gold and Homestake deposits immediately to the southeast of the property.

Seven areas of the property are targeted for further exploration. Two of these involve diamond drilling as the next step and have excellent potential for an immediate discovery. The rest require more detailed geology, geophysics and geochemistry initially. Other target areas are expected when all lithogeochemical data has been received and analyzed. A specific work programme outline is deferred until this has been done.

INTRODUCTION

Corporation Falconbridge Copper acquired 453 claim units (Bar, Alex, Anna and SC) in the Kamloops Mining Division, British Columbia between November 1, 1983 and May 1, 1984. Under an agreement dated July 2nd, 1984, Corporation Falconbridge Copper and Rea Gold Corporation formed a joint venture to explore these claims, collectively termed the Bar Project.

The terms of the agreement allow Rea Gold Corporation to obtain a 45% interest in the property by spending \$1,000,000 on exploration on the property before January 1st, 1987. CFC is operator.

This report presents the results of work carried out during 1984 and outlines preliminary conclusions and recommendations designed to optimize the chances of early discovery and ensure thorough coverage of this large property.

PROPERTY AND OWNERSHIP

Figure 1 shows the configuration of the Bar, Alex, SC and Anna claims. They consist of 463 claim units covering approximately 11,300 hectares. Table 1 summarizes the pertinent claim data. All are 100% owned by CFC, however the Anna claims are subject to a 5% royalty on the net proceeds of production payable after recovery of exploration, pre-production and capital expenditures.

TABLE 1

<u>Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Month</u>	<u>Expiry Date</u>
Anna 1	5332	20	December	1984
Anna 2	5333	20	December	1984
Anna 7	5339	20	December	1984
Anna 8	5340	20	December	1984
Alex	4888	20	November	1984
SC1	5560	12	March	1985

SC2	5561	20	March	1985
SC3	5562	20	March	1985
BAR 1	4970	18	November	1984
BAR 2	4971	18	November	1984
BAR 3	4972	20	November	1984
BAR 4	4973	20	November	1984
BAR 5	4974	20	November	1984
BAR 6	4975	20	November	1984
BAR 7	4976	20	November	1984
BAR 8	4977	20	November	1984
BAR 9	4978	20	November	1984
BAR 10	4979	20	November	1984
BAR 11	4980	20	November	1984
BAR 12	4981	20	November	1984
BAR 13	4982	20	November	1984
BAR 16	4983	TP	November	1984
BAR 17	4984	TP	November	1984
BAR 18	4985	TP	November	1984
BAR 19	4986	TP	November	1984
BAR 20 Fr	4987	1	November	1984
SC4	5640	20	May	1985
SC5	5641	20	May	1985
SC6	5906	3	October	1985
SC7	5907	6	October	1985

Sufficient assessment work has been or will be filed to maintain all claims.

LOCATION AND ACCESS (Figure 2)

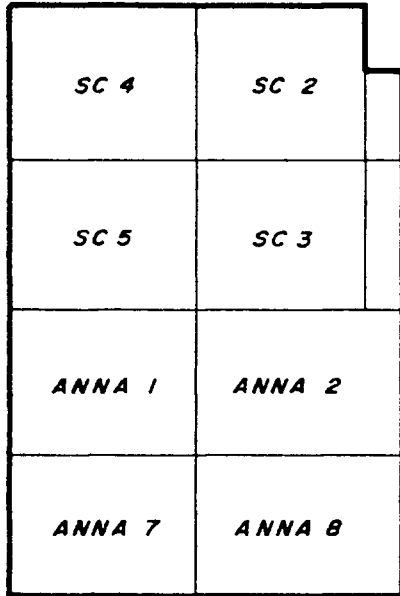
The claims are located on the Adams Plateau between Adams Lake and North Thompson river and are bounded by latitude $51^{\circ}00'N$ and $51^{\circ}25'N$ and longitude $119^{\circ}45'W$ and $120^{\circ}10'W$ (Figure 2).

Access is readily available from Highway 5 in the Barriere area. Principal routes are via the Skwaam Bay Road, Dixon Mountain Road and



SC 1

BAR PROJECT CLAIM CONFIGURATION

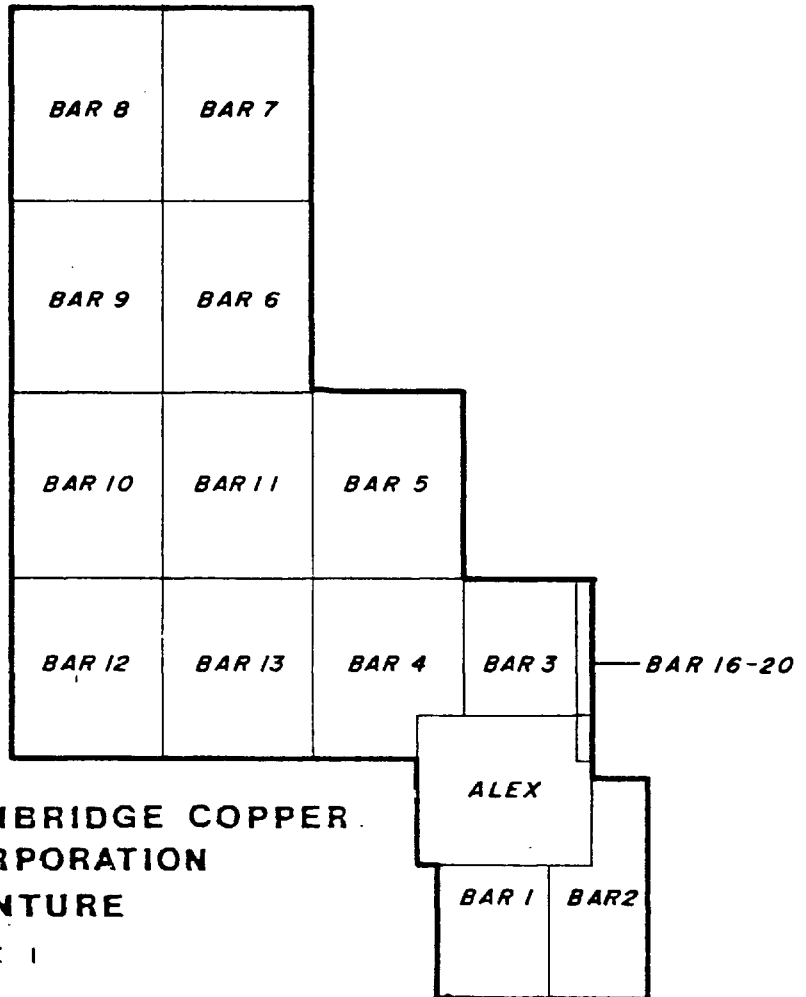


RIVER

EAST
BARRIERE
LAKE

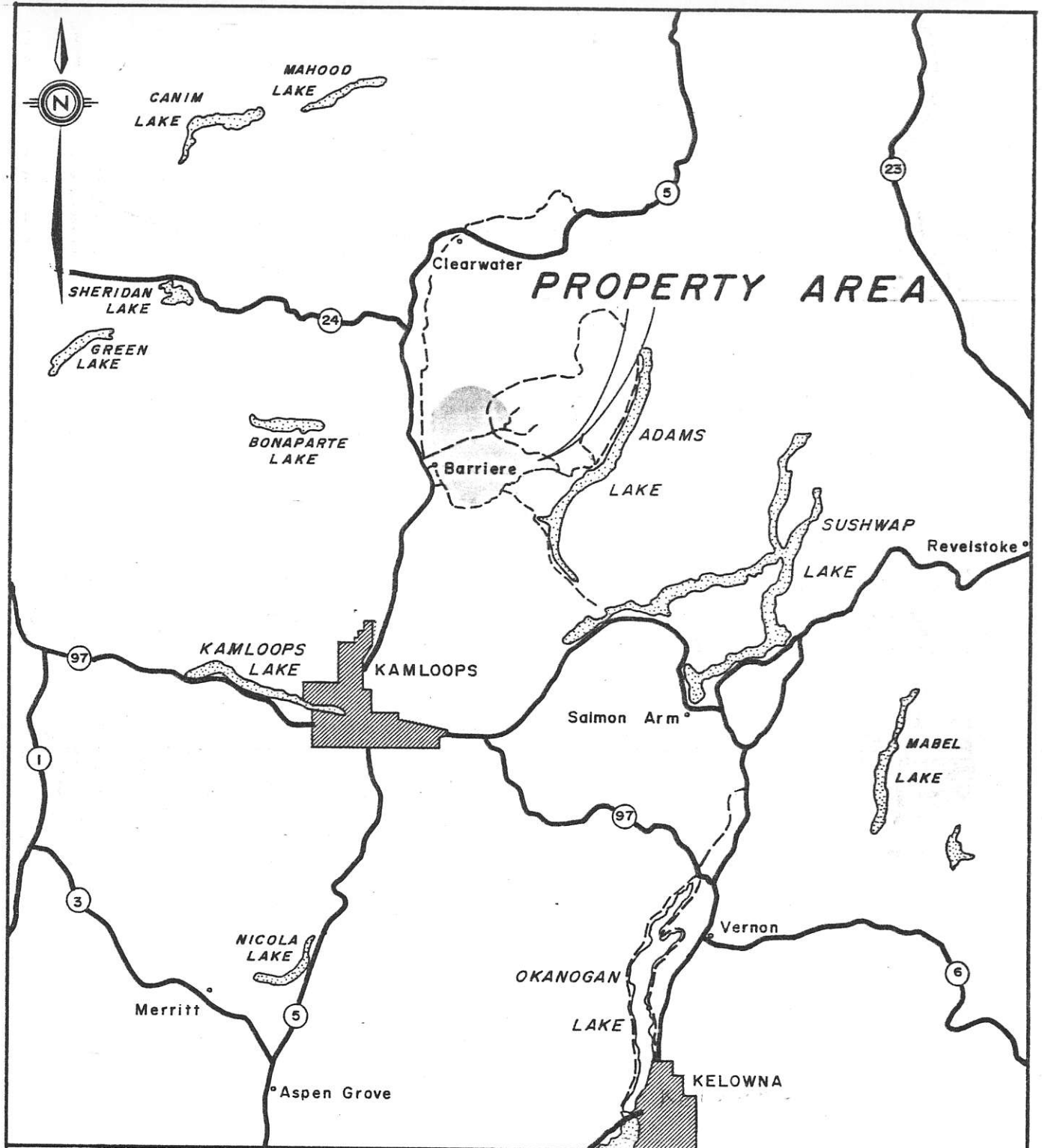
BARRIERE

← TO BARRIERE



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REA GOLD CORPORATION
JOINT VENTURE

FIGURE 1



BAR PROJECT

LOCATION MAP

FIGURE 2

Barriere Lakes Road. From these numerous logging roads provide 4X4 access to most parts of the property.

PHYSIOGRAPHY

The western edge of the Adams Plateau consists of high rolling plateau country incised by locally steep drift filled valleys. Elevations range from less than 500m. in the Sinmax Valley at the south end of the property to over 1900m. on the SC claims. However, the majority of the property lies between 1000m. and 1500m. elevation.

Fairly dense forest cover occurs across most of the area, although the Sinmax Valley is partially cultivated. Active logging operations are present on the property.

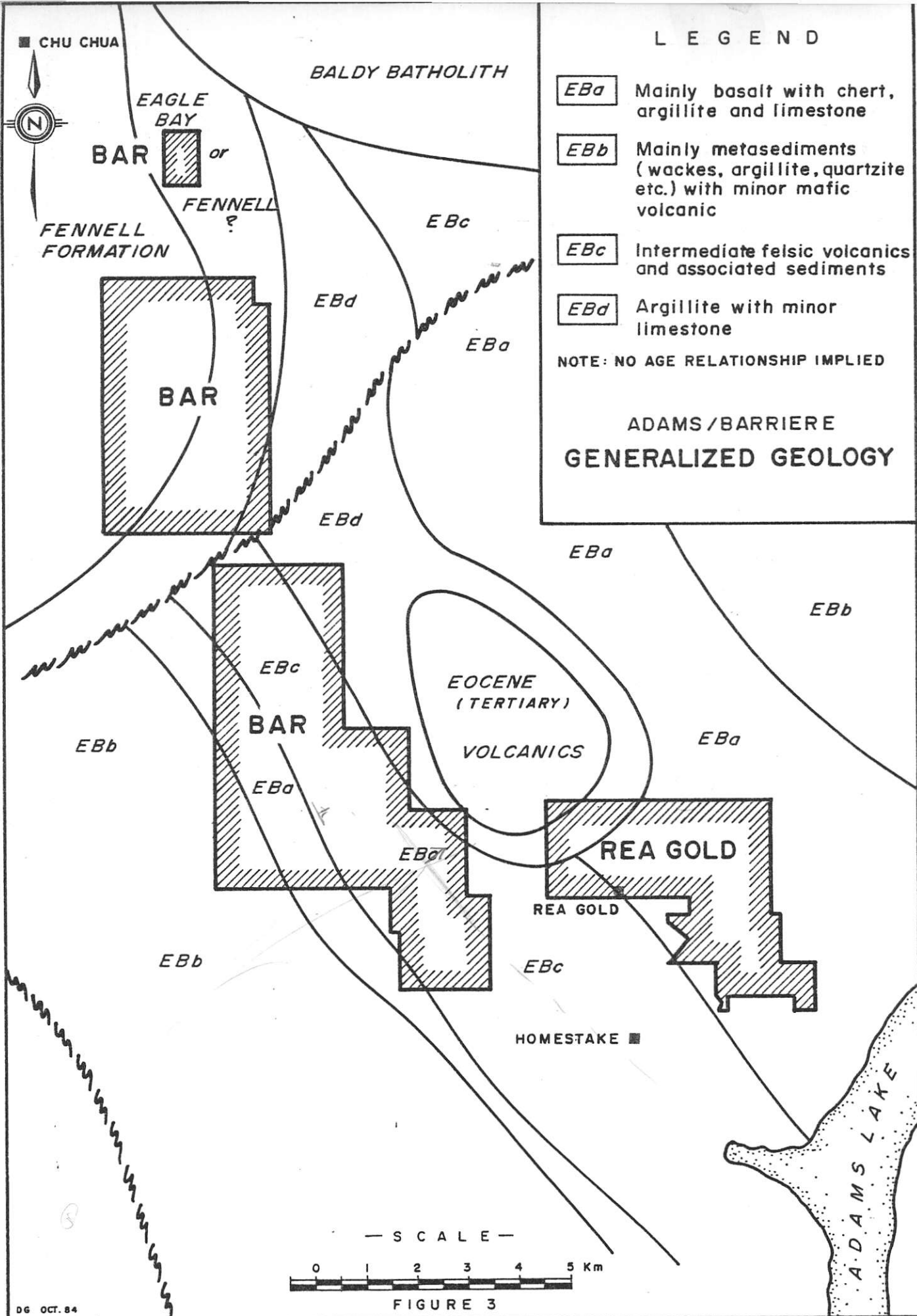
The climate is moderate with temperatures ranging from -25°C in the winter to $30^{\circ}\text{C}+$ in the summer. Precipitation is extremely variable ranging from semi-arid in the south to moderately wet in the north. The snow free period runs from May to November in the south, but lasts only from July to October in the north.

REGIONAL GEOLOGY (Figure 3)

The Adams-Barriere region has been mapped by a number of government workers, most recently by Preto et al (1977-1981). Their preliminary geology map (No. 56) has recently been released by the B. C. Ministry of Energy Mines and Petroleum Resources.

The region is underlain by weakly metamorphosed and moderately deformed volcanic and sedimentary rocks of Late Devonian to Early Carboniferous (Mississippian) age which have been intruded by granodiorites and monzonites, mostly of Cretaceous age. The volcano-sedimentary rocks are divided into the Fennell Formation and the Eagle Bay Formation.

The Fennell formation consists of submarine basalts and mafic intrusions with minor chert, sediment and felsic intrusions and volcanics. It has been interpreted as having formed in a volcanic island-type environment



by Aggarwal (1984). The Fennell Formation hosts the Chu Chua deposit which contains 2.6 M tons of 2.0% Cu and 0.25 oz/t Ag and is a basalt hosted syngenetic massive sulphide.

The Eagle Bay formation can be divided into four main packages:

- a) a predominantly mafic volcanic package with chert, argillite and limestone (EBa);
- b) a predominantly sedimentary package (greywackes, argillites, quartzite etc). with minor mafic volcanics (EBb);
- c) an intermediate - felsic volcanic package with associated sediments (EBc);
- d) a sedimentary package comprised of argillites with minor limestones (EBd).

Just how these packages inter-relate has yet to be conclusively determined but all are consistent with depositional environments which might be found in an oceanic area flanking a volcanic island or island-arc.

Mineralization is largely confined to packages EBa and EBc. The mafic volcanics and associated sediments host numerous stratabound and vein occurrences, particularly east of Adams Lake. Most are Pb-Zn-Ag with limey hosts. The more felsic package contains the Homestake Ba-Ag-Pb-Zn deposits as well as numerous Cu-Pb-Zn occurrences. The Rea Gold Au-Ag-Ba-Pb-Zn-Cu deposits are close to the transition between the two packages.

The Eagle Bay formation is in part coeval with and in part overlies the Fennell Formation. The Bar Property lies entirely within the Eagle Bay south of the Barriere River, but straddles the contact between the Eagle Bay and the Fennell north of the Barriere River.

The major intrusive body in the area is the Cretaceous Baldy batholith. It causes a major disruption in the northwest continuation of the Eagle Bay formation, but has no obvious effect on the rocks of the property area.

Also present, between the Johnson Creek and Barriere River valleys is a basin containing Eocene andesites and basalts assigned to the Kamloops Group. These cover the Palaeozoic stratigraphy immediately east of the southern Bar claims.

Structural features of the region include at least two phases of folding and faulting. These can be readily seen on the outcrop scale, but are hard to delineate on the regional scale because of the discontinuous nature of rock types and locally poor outcrop.

PREVIOUS WORK

Although the Adams-Barriere area has seen a moderate amount of exploration over the years, very little previous exploration has been recorded on the Bar Property area. South of the Barriere River the only filed assessment is for the southern half of the Bar 1 claim (see Figure 1). There, Cominco carried out a minor amount of geology and geochemistry in 1977 without significant results (Wodjak, 1977). There is also evidence of a fairly old grid in the area SE of Dixon Lake, but its origin and raison d'etre are unknown at this time.

North of the Barriere River the entire property is covered by a 1978 Craigmont Dighem airborne survey. It shows numerous conductors and was used, to a certain extent, by CFC to choose areas for staking. Most of the conductors have never been located or tested on the ground. A limited area on the eastern side of the Anna and southern SC claims was covered by EM-16, Mag and soils (Vollo, 1981). This data will be integrated with our own.

A group of claims known as the Enargite claims are adjacent to and partly overlap claim SC1. Although very little data is available on them, Min-File lists past production of 5 tons of ore from sulphide pods in quartz

veins cutting sediments. Minor amounts of lead, zinc and silver were recovered.

CFC - 1984 PROGRAMME

The following exploration work was carried out by CFC during 1984:

DigheM Airborne Survey	400 km	covered the property south of the Barriere River, not previously covered by Craigmont.
Stream Sediment Sampling	38 samples	heavy mineral separates analyzed for Au + 26 element ICP and compared to Rea Gold area orientation.
Semi-detailed Reconnaissance Mapping and Lithochemical Sampling	322 samples 240 man-days (approx.)	tying together geology and prioritizing targets.
Linecutting	45 km	Dixon Lake Area
Geophysics	38.5 km	two station VLF, Dixon Lake grid
Soil Sampling	873 samples	Dixon Lake grid covered at 50m. intervals with 25m. samples every 10th line.
Litho Sampling	212 samples	available outcrop sampled at approx. 50m. intervals

methods. A notable example of this is Equity Silver's Sam Goosly deposit, the discovery of which is attributed to a HM stream sediment survey in an area previously sampled by numerous exploration companies using normal methods.

Since the Bar property is so large and drained by numerous creeks it was decided to carry out such a survey. Consequently 31 samples were taken from various points on and around the property along with 7 orientation samples from creeks draining the Rea Gold property (Map 1a). Samples were analyzed for Au, total Ba and a 26 element ICP package.

The results are shown in symbol map form (Maps 1b-d) for the elements Au, Ag, Cu, Pb, Zn, As, Sb and Ba. Other elements are not considered important at this time, although they may be plotted at a later date. All data is presented in Appendix L.

Au, Ag (Map 1b)

Both Au and Ag are quite highly anomalous in Homestake Creek and in two small creeks draining the Rea Gold area. Johnson Creek, some distance from known mineralization, is moderately anomalous and even the upper reaches of Homestake Creek show anomalous values.

On the Bar property, areas immediately north of the Dixon Lake valley and at the extreme north end of the property stand out as highly anomalous in terms of Au values. In fact 3 of the creeks show values (900, 930 and 1100 ppb) greater than or equal to the best of the creeks draining Samatosum Mountain (900 ppb). Ag also highlights the north end of the property.

Areas with lower, but still anomalous Au values include the Alex Creek area at the south end of the property, the south slope of the Dixon Lake valley and the north slope of the Barriere River.

Ba, As, Sb

All creeks sampled on Samatosum Mountain were anomalous in Ba. Homestake Creek and one of the Rea Gold area creeks are anomalous in As while only the former is anomalous in Sb.

On Bar, Ba and As again highlight the extreme north end of the property and also the Alex Creek area. Arsenic is anomalous in two creeks draining into the Barriere River, one from the north slope and one from the south. Sb anomalies suggest a source near the watershed between Dixon Lake and the Barriere River.

Cu, Pb, Zn

All creeks on Samatosum Mountain except one of the Rea Gold area creeks were anomalous in Cu, Pb and Zn.

One again, on Bar, the north end of the property is highlighted, along with Alex Creek. Otherwise only two isolated anomalies (one in Cu, one in Pb) in creeks not anomalous in anything else, were found.

Geology (Maps 2a-d)

During the course of the 1984 field season, the entire property area was geologically mapped at the semi-detailed scale of 1:10,000. Although a lack of outcrop in a few areas hampered the mapping, sufficient exposure generally exists to allow fairly good stratigraphic correlations to be made.

South of the Barriere river (Maps 2a,b) the property is underlain by a NW trending, usually easterly dipping, sequence of volcanics and sediments. Although they are locally folded (especially the sediments) they have good continuity and are believed to young eastwards.

The oldest exposed rocks on the property are greywackes with minor chert, limestone and mafic volcanics. These correspond to package Ebb on

the Regional Geology map and are considered to be of low exploration potential.

Immediately overlying the sediments is a heterogeneous sequence of alkaline basalts, including flows and pillowed flows, tuffs, lapilli tuffs and related sediments and intrusions. They are often strongly magnetic and may be variolitic and vesicular. In the area south of Dixon Lake there is quite extensive quartz-carbonate veining and carbonate-sericite-pyrite alteration. These rocks correspond to package EBa on the regional map and are tentatively correlated with the footwall basalts on the Rea Gold property. They are considered to be on the upright limb of a regional fold. The Rea Gold property is considered to be on the recumbent limb.

Overlying the basalts is a mixed sequence of sediment and volcanics. The sediments include very coarse varieties (quartz-pebble conglomerates and quartzose grits), fine varieties (wackes and argillites) and chemical varieties (chert, very minor limestone) and are volumetrically dominant. The volcanics are basaltic tuffs and lapilli tuffs. Diorite intrusions are also common. These rocks are transitional between packages EBa and EBc and correspond to units mapped in and to the SW of the Rea Gold trenches area. These rocks are thus correlated with the mineralized sequence hosting the Rea Gold massive sulphides.

The youngest volcanic rocks exposed are intermediate to felsic pyroclastics. These have been traced from the Johnson Creek area in the extreme SE and are known to correlate with rocks hosting the Homestake deposits (package EBc). In the north-central part of the Bar claims considerable amounts of quartz-feldspar porphyry and enhanced thicknesses of the intermediate to felsic pyroclastics suggest a volcanic centre. However, active logging and poor exposure has not permitted full definition of this centre to date.

The youngest sediments exposed are argillites and greywackes of package EBd which underlie the extreme eastern parts of the property.

North of the Barriere river (Map 2c,d) units strike more or less north-south and generally dip steeply west to steeply east, but with extreme variability. Younging direction is, as yet, ambiguous.

These rocks may be divided into three groups. In the south and south-east a package of intermediate to felsic pyroclastics with coarse quartzose sediments may be confidently correlated with similar rocktypes on the property, south of the Barriere river. This is package EBC on the regional map and includes the Homestake stratigraphy.

The bulk of the claim group is underlain by a sedimentary package intruded by diorites and hosting a major felsic volcanic centre. The sediments tend to be predominantly cherty to the west and become argillitic to the east, with wackes in the centre. The volcanics consist of a quartz-feldspar porphyry (QFP) dome flanked by rhyolite flows and breccias. Folding is extensive within the package and local tops can be either east or west. However, it is currently felt that these rocks young eastward and are the time-stratigraphic equivalent of the Rea Gold and Homestake host rocks.

The western side of the property is underlain by a sequence of tholeiitic basalts and intrusions with very minor cherty tuffs. It is one of these cherty tuffs which, 4km north of SCl, hosts the 2 million ton Chu Chua cupriferous massive sulphide deposit. Although attention was focussed more on the felsic rocks during 1984, mineralized cherty tuffs and altered mafic volcanics were noted on the property.

The most significant mineralized area is undoubtedly related to the felsic volcanic centre mentioned above. The QFP dome is laced with pyritic stringers accompanied by sericitic alteration. In addition, sediments surrounding the centre have yielded exceptionally high Ba values (up to 20,000+ppm). In addition, sediments surrounding the centre have yielded exceptionally high Ba values (up to 20,000+ppm).

Lithogeochemistry

The last of the reconnaissance rock sample data has recently been received and computer entry is underway. This data will be analyzed, with very careful regard to geology, as time permits. A brief scan of raw data suggests numerous anomalous areas indicated by high Ba and trace element (Cu, Zn) values and depleted alkalis (Na_2O , CaO). A full analysis of these will be presented as soon as it is available. Raw data is included herein (Appendix 2, Maps 3a-j).

Dixon Lake Area - Detailed Work

Recognition that the stratigraphy in the Dixon Lake area is equivalent to that on the Rea Gold property was made quite early in the programme. Consequently a 45 km grid was established to allow detailed examination of some of the most interesting Digheem anomalies within this favourable sequence. Maps 4a,b, 5a-h and 6 present the results. Soil geochemical raw data is in Appendix 3. Lithogeochemical data has not yet been received.

The area gridded covers the contact between the basaltic volcanics in the Dixon Lake area and the sedimentary/volcanic package that is correlated with the mineralized sequence at Rea Golf.

The volcanics are very heterogeneous, ranging from flows and pillowed flows to tuffs and lapilli tuffs. Amygdules are common and usually carbonate and/or chlorite filled. Magnetite is abundant south of Dixon Lake. Like the footwall basalts on the Rea Gold option, Fe-carbonate is an abundant alteration product. It is often accompanied by sericite and quartz-carbonate veins and locally by up to 10% pyrrhite. There is no doubt that hydrothermal systems were active within this unit on the Bar property.

The overlying sediment/volcanic package is rather poorly exposed in places, due to the recessive weathering of some of the sediments (as well as alteration zones and massive sulphides!) It consists essentially of quartzites and fine grained wackes north of Dixon Lake. Within these are basins of

chert, very similar to the Rea Breccia in character, and argillite. Several thin mafic tuffs and debris flows are also present. South of Dixon Lake, in the Mine Lake area, a very distinctive zone of quartzose grits and quartz pebble conglomerates is found in addition to the aforementioned rock types. Intruding all of these are plugs, dykes and sills of hornblende diorite and gabbro.

The overall geological environment on the grid is one of transition from basaltic volcanism to sedimentation in an oceanic basin.

Soil geochemistry shows numerous anomalies in all elements (Maps 5a-h). Two areas stand out in particular. These are both north of Dixon Lake, occurring NE of the baseline on lines 107-112 and 124-130. (They may, in fact, be a single zone since no data exists between those areas.) The areas are characterized by anomalous Au and Ag with smaller anomalies in Zn, Pb and As. Coincident VLF (and Dighem) conductors are also present (see Map 6).

Another area which stands out lies south of Dixon Lake at the SW end of lines 82-87. Although not coincident, anomalies in Cu, Zn, As, Ag, and Au occur in an area of VLF conductors and altered volcanics.

DISCUSSION OF RESULTS

The primary objective of the 1984 programme was to examine the Bar property in as much detail as possible to establish specific areas for more detailed work and eventual diamond drilling. This has been completed to the extent that specific target areas are now apparent and one area has been detailed to the point of having drill targets.

Geological mapping has confirmed the presence of subaqueous volcanics and sediments throughout the property. Moreover, the volcanics show the mafic to felsic range characteristic of many volcanogenic massive sulphide hosting sequences worldwide (Noranda, Kuroko, Kidd Creek, etc.). On a local scale, direct comparisons may be made with stratigraphy in the Rea Gold and Homestake deposit areas. The Rea deposits are hosted by chert and chert breccia in a transition zone between basalts and sediments, with minor

intermediate volcanics. The Homestake deposits are hosted by felsic volcanics. On the Bar property south of the Barriere River the basalt-sediment transition appears to be somewhat thicker than at Rea, but has definite chert basins. The presence of the Homestake felsics has been confirmed over a strike length of more than 10 km with a potential volcanic centre indicated on the property towards the north.

North of the Barriere River a similar mafic-sediment-felsic sequence has been outlined. Although it does not appear to correlate directly with the sequence to the south, it is believed to be a time stratigraphic equivalent. Several areas of cherty tuff similar to Chu Chua host rocks have been outlined within the basaltic package. The felsic rocks consist of QFP domes and associated extrusives, characteristic of a vent area, and flanked by cherts and argillites.

Alteration and mineralization are widespread throughout the Bar property. Most notable areas are within the basalts south of Dixon Lake (qtz-carb-py veins, carb-sericite alteration); within sediments NW of Dixon Lake (py-galena in veinlets), in cherty tuffs in the west-central part of the SC/Anna claims (pyritic); and in QFP in the area north of Sprague Creek (extensive qtz-py stockwork with sericitic alteration). Although none of these are by any means ore grade, they do indicate extensive hydrothermal activity. This hydrothermal activity, when combined with a favourable depositional environment (as indicated by mapped lithologies) is strong evidence for the presence of significant massive sulphide bodies.

The stream sediment survey succeeded in outlining at least three drainage basins worthy of further exploration. These basins are to the north of Dixon and Little Dixon Lakes; in the area of claim SC1; and the Alex Creek drainage area.

The area north of the Dixon Lakes includes both the Rea Gold and Homestake packages. In addition, several intriguing, isolated Dighem anomalies occur and anomalous soil geochem values have been obtained from these.

Alex Creek drains rocks of the Homestake sequence. There are also several isolated Dighem responses in the area.

SC1 has very limited exposure, however what there is is very revealing. Silicified basalts, cherts and angular chert breccias with abundant pyrite cross the area.

Detailed work in the Dixon Lake area has outlined three zones of soil and VLF anomalies in geologically favourable areas. Analysis of lithogeochemical data, when available, is expected to produce further targets.

CONCLUSIONS AND RECOMMENDATIONS

Final conclusions and recommendations for 1985 cannot be made until all lithogeochemical data is received and analyzed in conjunction with the geology. As well, compilation of the Dighem data with the recently completed geological base maps is unfinished. However, preliminary conclusions can be drawn which point to a very exciting and successful 1985 and 1986.

Prime target areas for follow up will include the following:-

1. North of the Barriere River

a) the felsic volcanic/QFP area towards the north end of the claims has areas of strong pyritic stockwork. Flanking sediments have yielded Ba values in excess of 20,000 ppm. This classic massive sulphide environment must be explored in detail and its Dighem anomalies tested.

b) mafic volcanics between Delta Creek and Bottrel Creek on the west side of the Anna claims are bleached and altered and host several cherty tuff horizons. At least 8 Dighem responses occur in the basalts or at their contact with chert to the east. This is

correlated with the Chu Chua massive sulphide deposit stratigraphy and is a must for follow up.

c) stream sediment anomalies from the SCl area require follow up. This will probably be in a fairly low key manner initially until the property can be expanded in that area.

2. South of the Barriere River

a) drill targets already exist in the area north of Dixon Lake. These must be tested in conjunction with expansion of the existing grid to the northeast to cover the anomalous Little Dixon Lake drainage basin and Dighem anomalies therein.

b) drill targets in the basalts south of Dixon Lake and at the contact with the overlying sediments near Mine Lake exist. These should be tested to determine the potential of this area and further work designed accordingly.

c) the potential felsic centre at the watershed between the Barriere River and the Dixon Lakes must be examined. Because of poor exposure and active logging this will probably take form of additional mapping and sampling initially.

d) the Homestake felsic sequence in the Alex Creek basin must be examined. Sources for the high stream sediment values will be sought and Dighem anomalies located.

All of this work cannot be undertaken under the current budget scenario. In the coming weeks targets will be refined and prioritized and a budget proposal submitted which will be designed for early discovery. This will be achieved by concentrating funds in the top priority areas with a large portion of them going into diamond drilling. At the same time, sufficient work must be carried out on other areas to cover assessment requirements.

REFERENCES

- Aggarwal, P.K. et al (1984) Magmatic composition and tectonic setting of altered volcanic rocks of the Fennell Formation, B.C. CJES 21, 745-752.
- Preto, V.A. (1977-81) Reports on the geology of the Adams-Barriere area in BCDEMPR Geological Fieldwork reports.
- Vollo, N. (1981) Report on the CH claims.
Assessment Report 9622, B.C. Mineral Resources Branch.
- Wodjak, P. (1977) Report on the Stake claims
Assessment Report 6679, B.C. Mineral Resources Branch

Appendix 1

Heavy mineral analyses

stream sediment samples

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project 215/217 Date of report June 6/84.

File No. 4-321 Date samples received May 1/84.

Samples submitted by: I. Pirie

Company: Corp. Falconbridge Copper

Report on: 7 HM Geochem samples

Assay samples

Copies sent to:

1. Corp. Falconbridge Copper, Delta, B.C.
2. Corp. Falconbridge Copper, Barriere, B.C.
- 3.

Samples: Sieved to mesh Ground to mesh

Prepared samples stored discarded HM - -20 mesh

rejects stored discarded

Methods of analysis: HM-Specific gravity flotation and routine geochem
analysis. 26 ICP Analysis. Au-aqua regia.A.A.

Remarks:

Y: CORP. FALCONBRIDGE COPPER

CT No: 215/217

MIN-EM LABS ICP REPORT

705 WEST 15th ST., NORTH VANCOUVER, B.C. V 7T2

FILE No: 4-321HM

ENTION: I. PIRIE

(604)980-5814 OR (604)988-4524

TYPE HEAVY MINERAL

DATE: JUNE 6, 1984

REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
HM-0-1	12.7	2110	170	16	6	1400	34.9	70	898	262000	171	2760
HM-0-2	56.5	2030	171	35	9	1160	38.9	66	970	235000	211	2740
HM-0-3	38.3	2930	155	15	10	2500	41.3	61	1050	231000	390	4590
HM-0-4	1.8	10800	0	10	9	10300	2.5	41	78	69000	338	10900
HM-0-5	3.4	16300	93	19	15	9690	7.1	82	143	108000	337	13300
HM-0-6	1.7	13100	0	11	10	1000	1.7	26	28	50900	703	9510
HM-0-7	3.9	13100	176	17	7	9920	11.3	109	204	151000	315	9910

TION: I. PIRIE

(604)980-5814 OR (604)988-4524

TYPE HEAVY MINERAL

DATE: JUNE 6, 1984

PORT VALUES IN PPM)	MN	NA	NI	P	PB	SE	SR	TH	U	V	ZN	
HM-0-1	119	12	27	35	385	1720	310	33	1	31	.0	8480
HM-0-2	129	12	60	32	381	1900	334	40	2	24	.0	10100
HM-0-3	336	14	93	30	757	1610	358	45	4	28	.0	11600
HM-0-4	507	2	131	54	1240	80	9	54	0	7	52.5	139
HM-0-5	632	3	80	126	1340	191	12	50	0	11	77.8	259
HM-0-6	485	2	201	44	1360	86	7	57	0	11	59.9	87
HM-0-7	776	7	74	207	2560	220	26	59	4	26	53.8	373

ENTION: I. FIRIE

(604)980-5814 OR (604)988-4524

TYPE HEAVY MINERAL

DATE: JUNE 6, 1984

REPORT VALUES IN PPM)	BA	SE	BA	AU PFB	HMZ
HM-0-1	503	0	39000	900	41.97
HM-0-2	644	0	29000	235	33.17
HM-0-3	326	0	40000	590	15.61
HM-0-4	253	0	1500	25	6.08
HM-0-5	205	0	2100	50	10.43
HM-0-6	180	0	700	380	4.93
HM-0-7	246	0	1720	45	5.47

JUN 27 1984

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project 215 Date of report June 25/84.

File No. 4-387 Date samples received June 15/84.

Samples submitted by:

Company: Corp. Falconbridge Copper

Report on: 18 HM Geochem samples

..... Assay samples

Copies sent to:

1. Corp. Falconbridge Copper, Delta, B.C.
2. M.Burson, Barriere, B.C.
3.

Samples: Sieved to mesh Ground to mesh

Prepared samples stored discarded

rejects stored discarded

Methods of analysis: HM-Specific gravity flotation and 26 ICP Analysis.

Total Ba-fusion.A.A., Au-aqua regia.A.A.

Remarks:

.....
.....

SPECIALISTS IN MINERAL ENVIRONMENTS


GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: CORP. FALCONBRIDGE COPPER
PROJECT: 215
ATTENTION: A. DAVIDSON/M. BURSON

FILE 4-387
DATE: JUNE 25/84
TYPE: HEAVY MINERAL

We hereby certify that the following are the results of the geochemical analysis made on 18 samples submitted.

SAMPLE NUMBER	AU PPB	TOTAL BA PPM
500	15	520
501	100	450
502	30	600
503	450	550
504	35	740
505	40	910
506	1100	460
507	145	530
508	5	500
509	15	710
510	10	490
511	25	570
550	900	600
551	10	930
552	5	400
553	5	300
554	5	200
555	5	300

Certified by 

215

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7H 1G2

FILE No: 4-387HM

ANALYST: J. DAVIDSON/M. BURSON

(604)980-5814 OR (604)988-4524

TYPE HEAVY MINERAL

DATE: JUNE 25, 1984

PORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
500	1.1	13100	0	13	8	8250	2.2	38	32	90500	380	8850
501	1.1	9430	0	10	9	5760	2.3	33	29	77300	219	8000
502	1.4	14100	0	13	12	8470	2.0	32	22	70500	363	11600
503	1.0	14700	8	14	8	9690	2.6	35	24	77500	348	10200
504	1.1	7350	9	10	8	11300	2.2	31	26	65000	240	8080
505	1.0	5720	21	9	7	6170	3.9	43	68	88700	176	7540
506	1.0	9480	6	10	8	5730	2.5	37	34	76800	214	7270
507	1.5	13100	29	15	13	10100	3.3	38	50	89000	189	7970
508	1.0	10700	4	10	9	8900	1.2	21	20	51400	160	5450
509	1.0	12400	29	14	7	12600	3.4	40	52	85100	266	7980
510	1.3	11600	15	12	11	8880	2.1	34	48	76200	216	6950
511	.9	10500	8	10	8	8410	1.5	21	16	51900	221	5530
520	1.5	18200	21	17	16	10800	2.7	37	42	93900	156	10300
551	2.0	17100	0	16	23	11000	.7	37	41	91800	124	10900
552	2.0	22800	0	22	25	18600	.2	36	41	91400	189	11900
553	1.6	17600	0	15	18	13200	.0	35	15	62000	113	9550
554	1.7	16300	0	14	20	11900	.0	26	18	63100	116	9950
555	1.3	9970	0	9	12	9520	.9	17	12	45500	349	4400

BY: J. DAVIDSON/M. BURSON

(604)980-5814 OR (604)988-4524

TYPE HEAVY MINERAL

DATE: JUNE 25, 1984

VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
500	658	3	53	52	1920	38	11	63	0	32	61.0	123
501	515	2	41	53	969	37	7	44	3	29	43.2	103
502	452	2	47	58	1630	29	10	63	0	37	60.5	88
503	492	3	37	57	2140	37	14	70	0	36	62.5	118
504	429	2	45	52	1000	33	10	55	2	38	42.3	98
505	870	5	63	54	982	69	12	44	0	35	39.2	161
506	480	3	41	53	947	35	10	43	0	41	47.7	100
507	472	3	104	52	1260	59	12	42	14	47	76.0	162
508	341	1	86	32	775	22	7	41	5	33	52.4	95
509	663	4	47	57	2670	46	15	75	5	38	52.3	146
510	594	4	56	50	1350	92	12	55	5	37	52.5	157
511	474	3	84	36	1200	28	10	45	5	38	46.8	108
550	645	2	159	60	436	34	6	29	0	27	98.6	146
551	478	0	156	43	322	20	1	26	0	26	124.4	101
552	537	0	238	35	459	19	3	37	0	32	154.4	83
553	526	0	211	24	154	8	4	24	0	29	100.6	36
554	329	0	184	25	239	10	2	25	0	32	95.1	40
555	533	1	318	20	496	17	5	60	1	41	46.2	46

NAME: J. DAVIDSON/M. BURSON

(604)980-5914 OR (604)988-4524

TYPE HEAVY MINERAL

DATE: JUNE 25, 1984

ORT VALUES IN PPM)	BA	SE	HM%
500	78	0	6.42
501	40	0	6.60
502	63	0	9.52
503	68	0	7.83
504	177	0	9.97
505	138	0	7.18
506	47	0	7.52
507	116	0	5.80
508	42	0	2.95
509	107	0	4.11
510	94	0	5.92
511	55	0	3.91
550	93	0	14.85
551	309	0	13.95
552	76	0	10.97
553	30	0	31.32
554	37	0	28.04
555	34	0	24.81

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project 215 Date of report July 11/84

File No. 4-489 Date samples received July 2/84

Samples submitted by:

Company: Corp. Falconbridge Copper

Report on: 11 HM Geochem samples

..... Assay samples

Copies sent to:

1. Corp. Falconbridge Copper, Barriere, B.C.
2. Corp. Falconbridge Copper, Delta, B.C.
3.

Samples: Sieved to mesh Ground to mesh

Prepared samples stored discarded

rejects stored geodiscarded

Methods of analysis: ICP 26 element, HM floatation, Ba fusion A.A.
analysis., Au aqua regia A.A. analysis.

Remarks:

SPECIALISTS IN MINERAL ENVIRONMENTS

ACT No: 215

705 WEST 15th ST., NORTH VANCOUVER, B.C. V. 1T2

FILE No: 4-48988

ATTENTION: M. J. BURSON

(604)980-5814 OR (604)988-4524

DATE: JULY 11, 1984

REPORT VALUES IN PPM	AS	AL	AG	B	BI	CA	CB	CC	CD	CE	K	MS
512	.4	6970	0	8	2	4520	.0	15	24	45500	256	3720
513	1.2	7670	3	5	3	2550	.0	10	8	26200	187	2540
514	.3	13200	0	15	2	3980	.0	15	24	71000	515	7450
515	.6	12200	0	14	1	4860	.0	12	53	111000	459	9300
516	1.2	15100	0	12	2	4410	.0	14	77	132000	216	7780
556	4.2	14000	27	13	6	6910	.0	24	107	107000	247	9830
557	7.5	18100	0	19	7	9410	.0	32	47	31800	414	9930
558	1.8	20100	0	20	11	13700	.0	31	70	120000	446	10400
559	1.3	17700	0	17	8	11400	.0	25	20	90000	279	10400
560	1.2	15800	0	15	6	9800	.0	23	18	80700	227	9830
561	1.9	21300	0	23	12	16500	.0	32	24	130000	452	10300

LOT No: 215

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7T 1T2

DATE: JULY 11, 1984

ATTENTION: M. J. BURSON

(604) 980-5514 OR (604) 988-4524

REPORT VALUES IN PPM	MN	MO	NA	NI	P	PP	SB	SE	TH	U	V	ZN
512	111	0	147	23	450	58	0	22	0	1	31.8	43
513	158	1	46	13	514	9	1	14	0	40	19.0	24
514	321	0	225	38	1900	0	0	45	0	6	52.0	63
515	782	1	86	71	1400	0	0	40	0	0	56.3	98
516	770	0	128	70	249	0	0	3	0	0	93.4	147
526	586	1	172	49	318	337	0	14	0	0	94.3	466
527	2300	0	426	44	425	720	0	19	0	0	95.3	94
528	743	0	952	28	0	0	0	12	0	0	121.5	24
529	312	0	529	34	0	0	0	11	0	0	89.0	18
530	282	0	463	33	0	0	0	10	0	0	78.8	18
531	454	0	979	15	0	0	0	15	0	0	127.9	22

PROJECT No: 215

705 WEST 156th ST., NORTH VANCOUVER, B.C. V 7J2

FILE No: 4-48944

ATTENTION: M. J. BURSON

(604) 990-5014 OR (604) 998-4524

DATE: JULY 11, 1984

REPORT VALUE IN PPM	SA	SE	SA-TOTAL	AU-PPB	WWT
510	74	0	200	5	8.56
510	19	0	300	5	3.50
514	41	0	340	525	4.58
515	46	0	320	5	11.07
516	72	0	400	40	14.03
556	136	0	800	930	15.56
557	270	0	720	370	17.45
558	78	0	300	5	20.66
559	45	0	210	5	25.08
560	40	0	250	5	25.07
561	57	0	370	5	25.11

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project 215 Date of report July 26/84

File No. 4-615 Date samples received July 20/84

Samples submitted by:

Company: Corp. Falconbridge Copper

Report on: 2 HM Geochem samples

.....
..... Assay samples
.....

Copies sent to:

1. Corp. Falconbridge Copper, Barriere, B.C.

2. Corp. Falconbridge Copper, Delta, B.C.

3.

Samples: Sieved to mesh Ground to mesh

Prepared samples stored discarded

rejects HM stored discarded

Methods of analysis: HM analysis, ICP 26 element, Ba fusion A.A., Au
aqua regia A.A. analysis,

Remarks:

.....
.....

SPECIALISTS IN MINERAL ENVIRONMENTS

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: CORP. FALCONBRIDGE COPPER
PROJECT: 215
ATTENTION: M. BURSON/A. DAVIDSON

FILE: 4-615
DATE: JULY 26/84
TYPE: HEAVY MINERAL

We hereby certify that the following are the results of the geochemical analysis made on 2 samples submitted.

SAMPLE NUMBER	TOTAL SA PPM
AME18	310
AME19	100

Certified by



MP. FALCONBRIDGE COPPER

NIM-EN LABS ICP REPORT

(807162873) PAGE 1 OF 2

NO: 215

305 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M1G2

FILE No: 4-115

ANALYST: M. BURSON/A. DAVIDSON

(404) 980-8814 OR (404) 982-4524

DATE: JULY 21, 1984

PORT VALUE IN PPM	AS	AL	AG	B	BI	CA	CO	CU	DU	FE	K	MG
ANALYSIS	2.0	14700	3	13	17	1000	15	15	32	37400	507	7650
ANALYSIS	1.8	12000	2	14	14	9600	10	10	14	55300	478	5590

6: 015

705 WEST 156th ST., NORTH VANCOUVER, B.C. V7N 1J1

FILE No: 4-615

BY: M. BURSON/A. DAVIDSON

16041990-0014 OF 16041992-4524

DATE: JULY 24, 1984

POST VALUE (IN \$M)	MM	DD	NA	NI	P	FE	EE	EF	FR	U	V	IN
40515	114	1	150	45	1000	1	1	01	0	10	77.8	78
40520	015	1	150	24	1470	1	1	00	0	14	43.6	45

Ac: 118

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7V 7P2

FILE No. 4-618

WILSON, M. BARRON, DAVIDSON

6041950-5814 OR 6041958-4524

DATE: JULY 16, 1954

REPORT VALUES IN 1954	SA	SE	AMOUNT	WY
AMT 10	70	0	7	1.69
AMT 20	11	0	15	3.34

Appendix 2

Lithogeochemical analyses



TERRAMIN RESEARCH LABS LTD.

Corporation, Malcombridge Copper

JOB # 84-007

Page 1/4

JUL 20 1984

	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm					
1	BR 84 5001	48.8	11.5	1.15	5.20	.584	320		46	91					
2	5002	57.3	4.76	2.98	3.79	.384	2500		44	41					
3	5003	52.4	6.39	3.40	3.25	.867	830		67	65					
4	5004	50.1	7.75	2.64	3.56	.851	840		63	50					
5	5005	67.6	.434	.632	.228	.584	590		32	67					
6	5006	75.1	.262	.449	.142	.417	690		15	32					
7	5007	53.7	7.76	2.35	.714	.834	720		49	136					
8	5008	54.8	6.48	2.54	1.46	.851	710		65	79					
9	5009	70.0	2.78	.630	2.76	.500	850		4	73					
10	5010	52.2	5.12	1.86	4.17	.901	1170		3	105					
1	5011	65.9	4.59	.574	.147	.367	1200		12	26					
2	5012	50.7	10.9	3.32	3.32	.284	630		7	57					
3	5013	71.4	3.68	.355	4.50	.284	1180		3	17	/				
4	5014	74.4	.137	.363	3.67	.367	770		22	15					
5	5015	68.5	.106	.277	.218	.334	1650		23	69					
6	5016	33.6	.562	5.74	.177	2.22	150		54	310					
7	5017	46.6	1.59	2.72	.976	5.50	1100		30	114					
8	5018	46.4	10.4	1.61	4.95	2.30	870		6	78					
9	5019	35.5	15.0	2.42	.954	2.24	1520		15	84					
20	5020	43.9	4.03	4.10	1.74	3.47	1300		13	171					



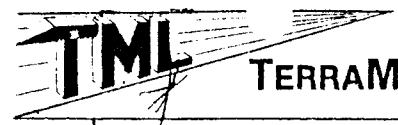
TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm					
21	BR 84 5021	43.2	4.67	4.11	3.91	3.59	2010		1	174					
2	5022	48.3	2.53	2.22	.355	3.75	1310		4	155					
3	5023	32.7	11.5	6.57	2.05	5.17	280		59	126					
4	5024	41.5	5.05	5.21	1.97	4.84	1460		5	183					
5	5025	58.6	.988	3.40	3.87	2.59	610		50	128					
6	5026	46.4	6.03	9.75	1.08	2.54	240		49	122					
7	5027	45.6	5.64	8.06	3.24	3.19	960		69	114					
8	5028	68.2	2.08	4.64	3.13	1.25	270		29	62					
9	5029	19.7	8.91	1.77	.109	1.02	300		36	94					
3 0	5030	54.8	1.33	.512	2.97	1.20	320		39	77					
1	5031	38.3	16.0	.590	.677	1.55	1040		5	131					
2	5032	48.1	7.92	.784	.124	1.63	1060		21	137					
3	5033	98.4	.130	.159	.001	.083	90		6	16					
4	5034	47.3	6.77	15.0	.020	1.05	30		73	80					
5	5035	84.1	.154	1.17	.018	.317	430		9	19					
6	5036	39.4	1.09	1.25	.001	.667	60		360	141					
7	5037	41.3	7.57	7.08	2.84	3.77	470		14	142					
8	5038	37.7	7.39	11.8	.159	3.34	130		53	115					
9	5039	61.4	2.15	1.66	7.10	.767	390		135	76					
4 0	5040	96.5	.706	.471	.027	.167	180		4	19					



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm				
4 1	BR 84 5041	40.0	16.5	10.2	.421	.150	90		3	21				
2	5042	34.0	9.83	3.63	.701	4.84	610		48	172				
3	5043	34.9	24.8	2.93	.318	1.50	350		13	37				
4	5044	41.5	14.3	3.33	2.02	3.34	400		33	88				
5	5045	49.2	4.92	5.04	4.54	5.50	260		45	112				
6	6001	54.8	1.13	4.76	3.19	.651	3980		76	91				
7	6002	65.7	1.54	3.18	5.43	.484	1700		106	58				
8	6003	58.8	.406	3.20	5.94	.667	2760		48	67				
9	6004	56.9	3.11	2.49	6.51	.617	2240		51	40				
5 0	6005	79.6	.327	1.76	4.99	.317	1360		48	38				
1	6006	55.2	1.96	6.08	4.91	.550	1510		62	87				
2	6007	91.1	.361	.280	1.47	.217	310		7	26				
3	6008	40.2	14.3	5.34	3.46	2.95	320		24	100	/			
4	6009	43.2	8.86	4.92	.748	2.74	1240		20	133				
5	6010	52.4	8.45	2.77	3.65	2.49	1040		30	71				
6	6011	96.9	.480	.343	.023	.150	250		4	11				
7	6012	42.4	16.2	3.63	3.07	2.15	640		28	78				
8	6013	51.1	3.89	3.53	4.38	2.30	940		3	156				
9	6014	77.0	2.80	1.14	.891	.267	700		6	47				
6 0	6015	55.2	7.37	1.28	2.00	.767	980		8	77				



TERRAMIN RESEARCH LABS LTD.

Corporation Iconbridge Copper

JUL - 9 1984

JOB # 84-117

Page 1/3

	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm					
1	BR 84 5046	25.7	29.2	2.25	.535	1.87	1300		16	56					
2	5047	46.2	7.92	5.14	4.57	1.63	170		51	100					
3	5048	47.3	6.25	4.23	5.73	1.87	240		38	109					
4	5049	39.4	5.71	12.6	.030	1.72	220		39	124					
5	5050	87.5	1.05	.559	2.71	.167	50		13	20					
6	5051	49.6	3.36	4.84	6.04	2.67	620		52	125					
7	5052	71.9	.446	.524	1.90	.284	1420		44	18					
8	5053	67.8	2.63	1.59	1.10	.584	530		67	68					
9	5054	40.9	5.57	5.07	4.85	5.00	250		39	117					
10	5055	38.1	9.95	9.10	2.67	2.57	330		46	85					
1	5056	44.7	6.13	5.87	3.72	1.58	410		64	104					
2	5057	88.6	.116	.302	1.11	.117	160		23	15					
3	5058	49.4	4.38	4.01	5.58	4.50	510		15	97					
4	5059	41.9	7.95	8.09	3.07	3.55	300		56	93					
5	6032	41.9	7.79	6.68	.249	5.84	540		39	130					
6	6033	41.7	8.03	6.23	3.96	4.17	70		28	150					
7	6034	41.5	7.11	2.34	3.07	4.84	1100		38	147					
8	6035	45.6	5.32	5.47	3.91	3.27	820		19	159					
9	6036	42.4	12.0	3.88	4.33	2.49	1010		6	118					
20	6037	35.9	5.32	8.84	1.28	4.17	590		63	171					



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm					
21	BR 84 6038	49.6	4.80	3.47	4.54	2.19	1640		7	142					
2	6039	47.5	6.87	4.81	5.47	4.17	500		43	102					
3	6040	50.5	1.75	5.67	5.12	3.39	240		27	148					
4	6041	89.4	.267	.275	.133	.167	1130		5	38					
5	7001	56.7	3.62	3.37	4.30	1.87	710		82	61					
6	7002	47.3	4.48	4.92	4.96	2.89	510		22	146					
7	7003	42.4	4.21	4.26	3.90	3.10	1000		94	98					
8	7004	42.8	6.83	7.73	3.03	3.07	280		40	116					
9	7005	57.3	3.74	3.17	4.96	1.85	510		65	96					
30	7006	49.2	1.90	4.29	6.35	5.00	340		5	138					
1	7007	45.8	7.47	7.16	2.72	3.37	140		51	101					
2	7008	46.4	6.11	6.70	3.73	4.00	960		43	104					
3	7009	94.8	.431	.202	.042	.083	100		5	14					
4	7010	94.1	.029	.103	.042	.100	100		5	26					
5	7011	92.0	.001	.070	.039	.133	90		4	21					
6	7012	54.3	2.32	.375	6.63	1.70	240		6	99					
7	7013	41.1	6.18	10.1	1.71	4.17	70		57	116					
8	7014	86.2	.045	.625	.047	.234	100		6	35					
9	7015	37.9	8.07	12.5	.039	3.20	50		50	120					
40	7016	90.5	.085	.350	.098	.183	300		4	23					



TERRAMIN RESEARCH LABS LTD.

Corporation Falconbridge Copper

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I %		Cu ppm	Zn ppm
1	MB 84 001	58.		.318	6.90	3.53				.500	680			43	56
2	002	59.3		.764	7.66	3.13				.534	860			37	95
3	003	61.2		2.41	3.75	3.33				.651	730			81	75
4	004	65.7		1.82	3.08	5.39				.350	1320			3	44
5	005	81.5		.999	.302	4.02				.133	630			1	4
6	006	80.4		2.25	1.59	2.60				.117	1020			-1	8
7	PF 2706	74.7		.277	2.04	.202				.133	1600			19	28
8	2707	52.2		9.15	6.04	2.45				2.30	90			270	80
9	2708	52.0		11.4	6.67	2.25				1.92	210			55	46
10	2709	52.0		9.56	9.80	2.52				.751	650			290	53
1	2710	49.8		8.65	11.1	2.08				.651	630			98	35
2	2711	76.8		.062	.492	.125				.950	2420			152	9
3	2712	51.8		8.34	5.01	2.20				4.67	100			211	77
4	2713	48.6		8.97	3.56	2.06				4.84	250			134	84
5	2714	56.7		.311	3.48	2.66				.767	460			33	98
6	2715	61.8		.887	2.72	3.61				.651	290			40	100
7	2716	52.0		7.82	6.13	2.37				2.84	60			97	93
8	2717	55.8		.869	5.60	2.70				2.05	170			83	96
9	2718	52.2		9.60	4.96	2.32				2.24	110			125	65
20	2719	52.0		11.3	6.68	2.33				1.83	130			128	36



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %		Cu ppm	Zn ppm
21	2720	73.4		.334	3.60	.193				.167	1170			4	44
2	2721	75.9		.134	1.82	1.10				.150	1620			5	13
3	2722	51.8		10.1	5.32	2.09				2.75	200			81	67
4	2723	58.2		4.59	5.89	3.95				.600	120			131	104
5	2797	48.8		7.97	4.69	2.32				5.34	110			62	79
6	2798	51.6		10.3	5.82	2.31				2.54	180			194	56
7	2799	48.1		4.85	3.32	5.69				2.95	250			3	52
8	2800	52.4		10.6	6.57	2.63				2.40	50			61	48
9	2801	53.1		8.38	6.91	2.00				2.54	50			53	81
3 0	2802	50.5		8.42	7.76	3.17				.867	560			107	50
1	2803	56.9		8.81	5.65	4.76				.751	670			104	28
2	2804	52.6		11.2	7.03	3.01				.734	800			132	38
3	2805	52.8		9.67	5.59	1.82				2.75	50			76	82
4	2806	84.7		.245	1.10	.019				.067	10			990	28
5	2807	52.4		.294	6.96	.084				1.18	1390			48	69
6	2808	6.59		.013	2.21	.125				.400	2880			280	35
7	2809	61.8		6.16	2.57	3.36				.567	900			36	45
8	2810	75.3		.025	1.52	.127				.150	1260			51	22
9	2811	53.7		8.11	3.00	2.09				2.79	230			420	96
4 0	2812	51.6		12.9	9.55	2.37				.701	300			210	40



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %		Cu ppm	Zn ppm
41	PF 3086	51.8		11.9	7.31	2.91				.751	550			77	37
2	3087	51.3		3.27	3.45	5.00				3.27	210			9	78
3	3088	52.6		9.35	4.97	2.40				3.07	190			142	54
4	3089	61.2		7.83	2.95	3.91				.600	650			7	39
5	3090	49.0		11.6	7.94	2.53				.851	600			106	59
6	3091	53.7		8.44	6.25	1.51				2.30	160			122	74
7	3092	52.8		9.54	5.04	1.46				2.34	60			148	99
8	BCS 0708	51.8		10.9	3.28	3.44				1.02	330			11	31
9	0710	27.4		.453	20.2	.038				1.40	10			40	196
5 0	0711	55.0		.263	13.0	.011				1.03	200			25	152
1	0712	68.7		.768	2.24	3.50				.334	1220			16	40
2	0713	77.9		.094	.991	1.90				.150	1770			54	16
3	0714	34.0		.490	14.5	1.06				1.37	220			31	207
4	0715	53.5		.297	5.95	.599				1.10	1250			100	68
5	0716	68.9		.150	4.69	.062				.400	1360			16	83
6	0717	61.6		.102	9.27	.011				.884	250			30	89
7	0718	77.7		.473	1.00	3.02				.167	1430			93	22
8	0620	72.7	14.2	.067	3.71	.178	3.81	1.14	.046	.133	1850	2.95		2	23
9	0622	58.4	16.8	3.34	3.15	4.79	3.87	5.98	.093	.400	1690	2.10		3	28
6 0	0633	51.2	16.5	5.85	9.48	1.87	.037	9.57	.380	.769	70	4.80		150	650



TERRAMIN RESEARCH LABS LTD.

Corporation, Falconbridge Copper

JOB # 84-115

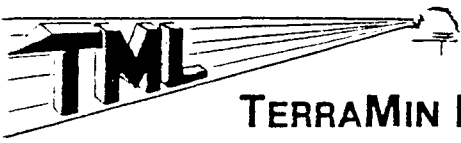
Proj. "BAR" P.O. 215

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	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I.	Cu ppm	Zn ppm	Pb ppm
1	5060	61.8		3.67	1.82	3.91				.400	1470		23	55	
2	5061	67.4		.122	2.80	.918				.500	610		17	71	
3	5062	42.6		8.44	10.6	.741				2.52	30		45	91	
4	5063	43.2		7.18	5.49	3.56				3.04	1170		38	83	
5	5064	54.8		4.03	5.17	3.49				.684	730		11	72	
6	5065	51.1		8.46	3.30	1.27				.667	450		35	44	
7	5066	58.0		1.96	4.87	7.32				.784	160		6	75	
8	5067	49.8		5.29	7.59	4.25				2.17	150		21	78	
9	6042	69.3		2.63	.355	2.49				.250	940		9	27	
10	6043	58.2		7.85	3.45	2.47				.267	1060		6	32	
1	6044	68.7		.418	.211	4.43				.367	1500		24	16	
2	6045	78.7		.053	-.017	7.72				.234	70		6	3	
3	6046	78.9		.014	.154	4.91				.284	750		4	2	
4	6047	68.2		.637	1.54	2.53				.284	2130		45	31	
5	7032	50.1		3.27	5.49	4.61				5.17	150		58	119	
6	7033	44.1		9.90	4.91	2.59				2.64	800		34	62	
7	7034	41.3		10.2	6.43	1.47				1.93	140		20	82	
8	7035	86.4		.022	.476	.435				.183	280		26	22	
9	7036	46.4		3.57	3.71	5.46				5.50	470		47	158	
20	7037	51.3		2.56	1.01	6.40				1.43	520		33	131	

TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %	Cu ppm	Zn ppm	Pb ppm
21	7038	45.4		6.86	6.02	3.77				3.29	80		37	113	
2	7039	43.9		5.81	9.53	1.95				3.42	60		54	110	
3	7040	35.3		8.95	7.56	2.95				3.45	60		54	125	
4	7041	41.5		5.81	10.7	.121				2.85	550		49	135	
5	7042	55.2		4.85	1.92	2.05				.901	1140		50	88	
6	7043	71.7		3.09	.734	3.87				.400	630		6	47	
7	7044	66.1		2.84	1.30	2.63				.500	620		6	85	
8	7045	57.9		1.54	3.63	4.19				.984	920		55	101	
9	7046	64.0		.253	2.80	6.56				.717	310		52	75	
30	7047	86.4		.091	.423	.392				.200	300		69	38	
1	7048	55.6		3.82	4.16	2.94				.851	580		68	82	
2	7049	58.2		3.72	.550	2.44				.600	1880		17	84	
3	7050	66.1		2.34	2.19	3.46				.317	1750		19	42	
4	7051	72.5		2.22	2.22	3.26				.167	1080		6	41	
5	BCS 2002	78.9	13.2	.045	.313	2.02	2.92	1.02	.004	.083	1380	1.90			
6	2003	70.8	15.7	.732	.313	4.19	3.22	2.85	.043	.350	2530	2.10			
7	2004	62.9	16.4	2.20	1.44	6.61	1.76	5.65	.079	.367	1990	3.05			
8	2076	72.7	12.7	1.54	1.02	.927	3.00	3.59	.097	.133	1620	3.35	18	43	
9	2077	34.2	10.8	5.43	9.67	.967	3.00	12.8	.120	3.30	990	20.3	59	116	
40	2078	47.9	17.8	8.48	2.02	3.56	2.04	8.84	.130	.767	1340	8.95			



TERRAMIN RESEARCH LABS LTD.

2

ANALYTICAL REPORT

Job # 84-116

Corp. Falconbridge Copper

Date

Client Project

Page 3b/3

Sample No.	Au ppb	Ag ppb
BCS 2080	14	70
2104	4	
2106	106	90



ANALYTICAL REPORT

Job # 84-127

Corporation Falconbridge Copper

Date July 31, 1984

Client Project "BAR"

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Sample No.	Au ppb	Ag ppb
BCS 2081	-2	30
2082	6	30
2083	12	30
2084	8	50
2085	-2	10
2087	-2	40
2088	4	30
2089	-2	550
2090	2	230
2091	4	630
2092	-2	
2093	-2	



TERRAMIN RESEARCH LABS LTD.

Corp. Falconbridge Copper

Project "BAR"

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %	Cu ppm	Zn ppm	Pb ppm
1	BR 84 5068	40.6		5.85	5.47	2.55				5.34	980		17	186	
2	5069	53.9		2.90	3.15	5.88				3.07	530		21	108	
3	5070	40.9		8.16	7.54	2.99				4.84	220		44	99	
4	5071	87.3		.109	.239	.132				.200	230		2	35	
5	5072	5.35		51.1	4.16	.009				.067	230		5	6	
6	5073	95.0		.050	.095	.020				.067	90		1	4	
7	5074	93.3		.097	.114	.317				.133	200		1	11	
8	5075	66.3		.196	2.93	.886				.667	500		20	95	
9	5076	45.8		6.30	7.28	2.86				3.17	80		58	109	
10	5077	71.2		.862	1.05	2.21				.150	1230		11	40	
1	5078	76.8		.222	.361	3.14				.117	780		22	21	
2	5079	62.7		2.52	.919	3.29				.400	1680		6	15	
3	5080	64.6		2.63	2.49	4.99				.300	830		9	54	
4	5081	59.5		3.82	3.13	2.28				.384	2400		10	57	
5	5082	65.2		3.92	.424	3.33				.300	1100		2	27	
6	6048	49.2		7.05	5.06	2.35				1.97	640		79	90	
7	6049	48.6		6.76	5.52	3.87				2.67	850		29	113	
8	6050	50.3		2.74	4.91	5.47				2.54	790		30	126	
9	6051	47.1		13.9	6.25	3.61				1.47	240		44	49	
0	6052	46.0		9.16	6.43	.824				2.95	1800		31	58	



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %	Cu ppm	Zn ppm	Pb ppm
21	BR 84 6053	50.7		3.92	2.77	1.28				.667	23000		10	60	
2	6054	91.8		.350	1.03	1.26				.183	2280		23	68	
3	6055	52.8		5.06	3.35	2.37				.584	1240		37	51	
4	6056	65.7		2.91	1.66	2.33				.217	1080		11	42	
5	6057	77.4		.161	.365	4.14				.133	2720		12	30	
6	6058	59.7		4.56	3.40	2.12				.550	1800		34	57	
7	7052	44.7		5.58	9.58	1.79				2.55	330		38	95	
8	7053	47.1		9.79	8.19	1.42				1.87	290		50	77	
9	7054	55.4		.828	2.70	1.62				1.18	5400		23	64	
3 0	7055	51.3		12.2	2.17	1.24				.317	980		11	27	
1	7056	60.3		4.80	3.05	3.44				.467	1140		19	60	
2	7057	65.2		1.87	3.12	1.18				.367	3460		12	58	
3	7058	59.5		3.19	3.08	2.35				.467	2410		5	81	
4	SC 5083	84.7		.192	.555	.702				.117	990		6	91	
5	5084	74.2		.358	.907	.727				.133	1780		1	58	
6	5085	78.3		.050	.978	.813				.117	940		1	29	
7	5086	79.6		.309	.948	1.82				.133	630		1	34	
8	6059	79.6		.043	.403	.174				.250	1580		60	146	
9	6060	88.6		.221	1.27	2.56				.167	930		5	15	
0	6061	50.9		7.05	7.13	3.59				1.43	5900		62	65	



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %	Cu ppm	Zn ppm	Pb ppm
6	BCS 2084												77	103	8
2	2085	40.0	8.69	19.9	4.08	2.09	.186	7.11	.167	1.45	160	16.9	23	49	1
3	2086	62.5	13.8	.371	1.66	2.75	4.55	4.42	.053	.317	1500	4.65			
4	2087												12	22	-1
5	2088	67.8	15.1	2.11	.610	2.98	3.88	2.49	.045	.300	1450	3.55	5	12	7
6	2089	89.8		.048	.381	.055				.117	800		15	12	11
7	2090												31	450	18
8	2091												22	61	17
9	2092	84.3	7.93	.246	.219	2.43	1.93	.758	.013	.067	900	1.00	2	7	
70	2093	89.0	3.97	.043	.930	.049	.983	2.27	.014	.067	3000	1.20	2	10	
1	2094	51.3	11.3	11.8	12.2	1.59	.217	9.28	.154	.684	170	2.80			
2	2111	50.1	16.3	4.27	4.66	5.51	1.60	11.6	.136	2.12	540	3.45			
3	2112	38.1	9.63	5.92	8.89	.836	1.95	12.2	.121	3.27	590	18.4	42	106	
4	2113	35.7	11.2	19.6	2.14	2.31	1.74	10.1	.147	3.17	390	14.8	21	107	
5	2114	54.1	14.7	4.50	4.28	3.18	1.76	10.0	.120	.934	1320	6.35	67	77	
6	2115	65.0	14.9	1.68	2.62	3.71	4.35	5.43	.066	.317	2460	2.70	14	52	
7	2116	64.6	13.8	2.78	1.97	3.67	3.70	4.66	.089	.284	1960	3.70	10	32	
8	2117	69.3	12.5	3.58	1.17	3.44	2.88	2.06	.054	.150	1360	4.00	7	17	
9	2118	83.0	7.18	.926	.952	1.18	1.41	3.40	.041	.167	340	2.35	16	49	
20	2119	77.2	7.56	3.53	1.39	1.34	.231	4.42	.097	.183	310	1.90	109	74	
	2120	76.4	12.1	.210	.652	.278	3.82	2.17	.026	.117	2600	2.70	7	39	



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-140

Corporation Falconbridge Copper

Date Aug.10, 1984

Client Project "BAR"

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Sample No.	Au ppb	Ag ppb
BCS 2015	2	110
2019	4	160



TERRAMIN RESEARCH LABS LTD.

Corporation Falconbridge Copper

Project "BAR"

JOB # 84-111

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	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm					
1	SC 5087	94.5	.101	.250	.235	.117	3900		12	8					
2	5088	93.7	.049	.522	.030	.133	2310		11	18					
3	5089	78.9	3.01	3.23	.100	.250	3620		10	72					
4	5090	48.1	16.4	9.95	2.13	.634	150		4	12					
5	5091	49.6	12.3	8.97	2.16	.784	80		76	34					
6	5092	51.6	13.8	6.58	3.34	1.58	250		11	30					
7	5093	50.3	13.0	7.21	3.67	1.62	170		27	36					
8	5094	81.1	.523	2.67	.345	.317	4500		280	103					
9	5095	77.4	.032	1.71	.375	.200	8200		4	68					
10	5096	79.4	.346	1.19	.442	.384	6300		20	55					
1	5097	78.5	.031	.290	2.63	.133	3510		4	28					
2	5098	74.2	.935	1.94	6.11	.250	540		12	23					
3	6066	50.3	10.6	5.97	3.60	1.47	60		45	73	/				
4	6067	49.4	9.77	6.50	4.02	1.45	60		41	62					
5	6068	53.1	9.71	4.89	3.61	1.42	90		52	70					
6	6069	93.9	.060	.181	.030	.117	2210		13	5					
7	6070	51.8	10.7	5.54	2.47	1.35	110		33	56					
8	6071	52.4	11.1	7.16	3.60	1.47	100		52	58					
9	6072	52.2	10.4	6.70	3.52	1.48	60		46	62					
0	6073	51.1	11.0	7.73	3.32	1.48	260		23	20					



TERRAMIN RESEARCH LABS LTD.

	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %	Cu ppm	Zn ppm	Pb ppm
41	BCS 2012	50.3	14.2	10.7	6.43	1.85	.122	10.5	.194	1.47	100	2.25			
2	2013	68.5	15.5	1.18	.287	3.32	3.90	2.60	.035	.267	1710	3.20	27	11	
3	2014	68.5	16.2	.125	.232	4.31	3.45	2.17	.003	.367	1580	3.10	6	3	
4	2015	65.0	14.5	1.30	.491	1.16	3.43	5.78	.075	.701	3710	5.90	66	74	8
5	2016	71.7	13.0	.846	.574	2.91	5.10	2.35	.030	.217	2320	2.05	3	8	
6	2017	64.8	13.6	3.55	1.05	1.25	5.04	4.20	.067	.284	1720	5.75	9	23	
7	2018	67.2	15.1	.470	.630	3.24	4.62	3.39	.010	.384	1740	3.90	16	19	
8	2019												34	122	10
9	2020	69.1	12.8	2.07	.574	1.81	5.25	2.69	.040	.250	1510	3.50	33	7	
50	2095	80.6	7.74	.579	1.38	3.52	.590	1.99	.012	.250	1110	1.60			
1	2096	77.2	11.3	.145	.239	1.05	.705	1.23	.010	.217	700	0.90			
2	2097	84.7	5.67	.617	1.76	3.38	.037	1.07	.022	.250	150	0.90			
3	2098	59.0	14.0	5.15	2.16	5.20	.570	11.2	.235	1.17	510	1.55			
4	2099	65.2	15.3	1.62	2.88	7.95	1.09	2.40	.044	.367	1640	1.85			
5	2121	49.0	8.88	14.7	12.9	1.87	.064	8.88	.186	1.05	320	1.65	12	27	
6	2122	78.5	8.12	.876	1.77	.170	3.07	3.07	.067	.400	8200	2.55	23	61	
7	2123	81.1	6.80	.621	1.74	2.56	.466	1.47	.027	.284	4000	1.10			
8	2124	50.3	15.3	10.3	5.31	3.72	.275	10.7	.173	1.48	170	2.05	54	60	
9	2125	48.6	14.4	9.65	6.81	4.10	.143	11.7	.187	1.58	120	2.00	49	55	
60	2126	50.7	15.5	8.76	5.41	4.72	.153	11.5	.181	1.62	80	2.25	41	69	



AUG 20 1984

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ANALYTICAL REPORT

Job # 84-153

Corp. Falconbridge Copper

Date Aug.16, 1984

Client Project "BAR"

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Sample No.	Au ppb	Ag ppb
BCS 2022	8	
2100	210	6700
2152	-2	
2179	12	580



TERRAMIN RESEARCH LABS LTD.

Corp. Falco. Ridge Copper

Project "BAR"

JOB # P 153

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	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %	Cu ppm	Zn ppm	Pb ppm
1	BCS 2021	65.0	15.7	1.86	.861	2.88	4.68	4.46	.046	.367	1580	2.45	43	16	
2	2022	42.1	12.9	9.32	9.09	3.45	2.52	11.7	.169	1.47	2700	7.05	390	.81	
3	2023	66.1	14.4	1.06	.998	2.70	2.30	6.44	.096	.300	1230	2.90	6	62	
4	2024	80.9	11.2	.095	.207	2.40	2.02	.815	.005	.183	3700	1.40	23	5	
5	2025	78.7	10.6	.034	.128	2.53	1.94	1.32	.004	.234	2000	1.90	5	6	
6	2100												7500	430	66
7	2133	47.9	20.7	12.4	4.31	3.25	.624	6.46	.107	.951	370	3.45	12	30	
8	2134	76.4	11.7	.617	.521	4.34	1.69	1.80	.009	.133	720	1.35	48	8	
9	2135	52.4	13.0	8.07	5.94	4.77	.058	10.5	.176	1.40	520	4.20	14	39	
10	2136	53.1	13.6	4.49	3.18	2.37	1.90	8.98	.177	1.08	2460	10.3	36	55	
1	2137	49.8	14.9	11.8	6.86	3.60	.084	11.1	.194	1.48	470	2.15	64	47	
2	2138	50.7	14.9	9.00	5.99	4.37	.105	10.1	.169	1.50	540	1.90	67	50	
3	2139	53.9	13.8	6.74	7.18	3.60	.111	9.84	.185	1.35	620	2.70	53	58	
4	2140	78.1	7.56	3.37	2.47	1.26	.048	5.83	.111	.317	120	1.70	120	61	
5	2141	49.8	14.4	8.73	6.73	4.08	.087	12.7	.196	1.98	520	2.35	29	58	
6	2142	77.9	7.93	1.72	1.53	.464	2.07	3.13	.036	.417	5800	3.35	22	50	
7	2151	48.3	14.2	8.44	7.97	3.03	.133	11.8	.221	1.67	500	4.70			
8	2152	87.5	4.91	.478	1.07	.131	1.70	2.40	.043	.217	7000	1.35	1	35	
9	2176	62.9	16.3	3.16	.338	2.28	3.46	4.55	.081	.467	4200	4.85	11	56	
20	2177	65.2	14.2	3.11	.746	3.14	4.01	3.52	.066	.200	1300	3.90	9	20	



TERRAMIN RESEARCH LABS LTD.

Corp. Alconbridge Copper

Project "BAR"

7035

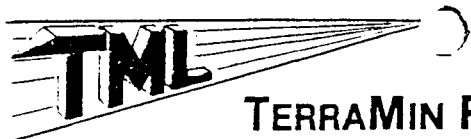
JOB # R 166-A

Page 1/3

	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm					
	Rock														
1	SC 84 5099	48.1	8.65	4.86	4.12	2.50	330		8	41					
2	5100	64.0	2.80	1.76	3.34	.367	1440		18	34					
3	5101	72.3	.890	2.09	3.72	.250	1750		3	5					
4	5102	49.6	9.68	4.99	4.33	2.22	200		3	44					
	5103	70.6	1.11	1.27	2.51	.250	80		2	13					
6	5105	44.3	6.81	8.22	2.32	1.33	730		26	62					
7	5106	68.9	2.94	.849	.355	.167	1970		3	23					
8	5108	74.0	1.20	2.09	.291	.517	4300		138	80					
9	6083	65.7	.087	.924	1.93	.567	1770		2	3					
10	6084	66.5	.235	2.01	2.57	.350	1550		22	92					
1	6085	68.2	.578	.711	2.22	.217	1030		18	27					
2	6086	71.0	.297	.821	3.55	.334	1220		15	12					
3	6087	71.7	1.82	.643	.871	.167	1390		3	6					
4	6088	56.3	4.03	2.45	3.19	.617	850		20	46					
5	6089	61.6	2.24	.731	4.84	.384	1520		45	6					
6	6090	61.4	2.73	.627	3.13	.350	1060		14	28					
7	6091	74.7	1.62	2.06	1.33	.234	680		87	78					
8	6092	47.5	4.49	5.02	6.24	3.84	690		46	119					
9	6093	39.6	10.3	6.00	5.08	3.87	180		42	135					
20	6094	45.6	4.48	8.61	4.07	3.40	670		43	126					



	Client No.	SiO ₂ %	Al ₂ O ₃ %	CaO %	MgO %	Na ₂ O %	K ₂ O %	Fe ₂ O ₃ %	MnO %	TiO ₂ %	Ba ppm	L.O.I. %	Cu ppm	Zn ppm	Pb ppm
	Rock														
2 1	SC 84 6095	45.1		7.85	4.91	5.01				5.17	730		64	106	
2	6096	83.0		.232	2.11	.650				.267	6100		40	83	
3	6097	77.0		1.73	2.50	.412				.367	9100		21	60	
4	6098	70.8		1.40	.842	2.45				.350	930		3	34	
5	6099	77.9		1.09	.574	.825				.100	1890		1	19	
6	6100	62.9		3.55	1.74	3.53				.334	1390		19	36	
7	6101	80.2		.754	.408	2.14				.067	1510		1	188	
8	6102	70.4		2.49	.884	2.72				.183	950		5	40	
9	6103	75.3		.255	.071	3.19				.100	730		4	22	
3 0	7074	75.9		.305	.865	3.61				.150	1750		3	50	
1	7076	58.2		.113	.662	1.93				.200	1370		3	72	
2	7077	80.2		.028	.022	7.63				.133	90		1	3	
3	7078	81.3		.011	.003	6.74				.100	70		2	5	
4	7079	82.6		.492	1.12	1.25				.250	8700		3	14	
5	7080	89.4		.001	.187	.051				.167	2150		7	43	
6	BCS 2143	35.9	10.4	13.9	5.14	2.63	1.70	9.42	.188	2.62	460	18.1	18	81	
7	2144	43.6	14.6	10.4	3.17	4.70	2.01	8.74	.205	3.40	1650	8.55	34	139	
8	2145	41.5	14.4	4.91	5.80	2.57	1.90	13.0	.130	4.84	490	10.1	57	126	
9	2146	46.8	16.3	2.70	5.26	5.78	.060	13.4	.194	3.67	130	4.65	31	138	
4 0	2147	48.8	15.3	2.73	4.46	5.28	.962	15.7	.124	2.72	520	3.20	27	151	



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 84-166-A

Corp. Falconbridge Copper

Date Aug.26, 1984

Client Project "BAR"

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Sample No.	Au ppb	Ag ppb
BCS 2155	54	
2157	-2	30



TERRAMIN RESEARCH LABS LTD.

Corp. Valconbridge Copper
Project "BAR"

SEP 11 1984

JOB # 84-182

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	Client No.	SiO ₂ %	CaO %	MgO %	Na ₂ O %	TiO ₂ %	Ba ppm		Cu ppm	Zn ppm				
1	SC 84 5100	60.8	3.34	1.81	3.41	.417	1740		18	39				
2	5113	45.5	9.78	6.90	1.17	1.32	2760		45	62				
3	5114	50.9	7.08	4.82	3.26	1.45	180		66	56				
4	5115	53.3	6.60	6.00	3.71	1.37	450		44	370				
5	5116	64.6	.239	.625	.572	.167	1400		3	16				
6	5117	71.2	.112	.279	3.18	.117	1540		4	7				
7	5118	75.3	1.76	.759	1.90	.150	1630		2	10				
8	5119	81.5	.236	.214	4.60	.167	1380		5	8				
9	5120	76.2	.196	.197	2.45	.150	840		2	39				
10	5121	74.0	.048	.010	7.37	.133	120		1	9				
11	5122	80.2	.031	.007	7.28	.133	50		1	1				
12	5123	81.5	.064	.095	2.51	.133	820		1	16				
13	5124	48.1	11.8	14.7	1.42	1.03	60		3	37	/			
14	5125	63.3	2.98	1.79	3.42	.317	1260		21	38				
15	5126	62.0	2.78	1.42	1.69	.334	710		25	83				
16	5127	70.2	.316	.559	3.36	.300	980		17	5				
17	5128	62.0	2.36	.589	2.67	.317	1190		9	50				
18	5129	61.6	3.36	.885	2.06	.350	970		15	52				
19	5130	66.7	.837	.807	3.33	.317	1230		25	20				
20	6104	52.2	7.33	6.85	4.03	1.60	140		61	65				



ANALYTICAL REPORT

Job # 84-188

Corp. Falconbridge Copper

Date Sept. 11/84

Client Project "BAR"

Page 1/2

Sample No.	Au ppb	Ag ppb
BCS 2535	4	10
2536	-2	10
2538	40	240
2540	8	270
2910	2	
2912	46	1720
2916	2	
2917	2	
2918	16	
2919	2	

SEP 28 1984



TML

TERRAMIN RESEARCH LABS LTD.

14-2235 - 30th Avenue N.E. Calgary, Alberta T2E 7C7
(403) 276-8668

Dear Ian -

Sample BCS 2540 contains something non-volatile other than the elements we have analysed. We have run this one 3 times, always with the same results, but total oxides plus L.O.I. only add up to about 94%.

P_2O_5 maybe plus some other minor elements: Sr, Cr??

Yvonne

Appendix 3

Soil analyses

Dixon Lake Grid

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project 215 Date of report Sept.24/84.
File No. 4-966 Date samples received Sept.4/84.
Samples submitted by: I.Pirie
Company: Falconbridge Copper
Report on: 873 soils Geochem samples
.....
..... Assay samples
.....

Copies sent to:

1. Falconbridge Copper, Delta, B.C.
2.
3.

Samples: Sieved to mesh -80 Ground to mesh

Prepared samples stored discarded
rejects stored discarded

Methods of analysis: 5 ICP Analysis. Au-aqua regia.A.A.

Remarks:
.....
.....

SPECIALISTS IN MINERAL ENVIRONMENTS

NO	DEPTH	VALUE	IN	FORM	NO	DEPTH	VALUE	IN	FORM
1841185	1.5	2	7	17	84	5			
1841186	1.8	0	13	26	89	5			
1841187	1.8	5	15	22	99	10			
1841188	1.0	0	11	26	129	5			
1841189	1.0	11	19	28	96	5			
1841190	1.0	0	10	23	57	5			
1841191	1.7	10	21	25	48	5			
1841192	1.7	0	6	19	79	45			
1841193	1.0	10	11	21	83	5			
1841194	1.5	10	7	16	50	5			
1841195	1.8	0	11	27	101	5			
1841196	1.7	9	13	21	82	45			
1841197	1.9	0	17	31	99	5			
1841198	1.6	3	4	15	22	5			
1841199	1.7	1	11	25	82	5			
1841200	1.5	9	12	25	100	5			
1841201	1.9	0	8	12	89	5			
1841202	1.3	0	27	26	74	10			
1841203	1.1	11	11	19	57	5			
1841204	1.2	7	2	20	83	5			
1841205	1.7	21	3	22	73	5			
1841206	2.2	20	7	21	75	5			
1841207	2.0	40	6	26	179	5			
1841208	1.7	5	10	20	89	50			
1841209	1.4	0	13	22	148	25			
1841210	1.8	0	23	3	73	15			
1841211	2.9	0	19	9	102	10			
1841212	1.5	10	11	15	91	5			
1841213	1.3	27	60	21	96	10			
1841214	1.8	23	12	39	134	5			
1841215	1.7	15	9	19	48	25			
1841216	1.5	3	9	22	42	5			
1841217	1.5	14	11	18	58	5			
1841218	1.8	0	13	22	111	45			
1841219	1.7	0	7	17	96	5			
1841220	1.5	12	5	20	89	10			
1841221	1.9	0	9	24	112	5			
1841222	1.0	0	21	29	136	5			
1841223	1.7	5	5	20	40	10			
1841224	1.1	14	24	34	82	5			
1841225	1.2	0	12	27	57	5			
1841226	1.0	8	15	32	102	45			
1841227	1.8	3	17	22	53	5			
1841228	1.2	0	10	23	171	5			
1841229	1.0	1	89	33	91	10			
1841230	1.9	0	14	20	128	5			
1841231	1.2	5	13	22	58	5			
1841232	1.5	0	13	26	182	45			
1841233	2.1	0	25	23	146	5			
1841234	1.9	2	15	34	150	5			
1841235	1.0	14	5	19	91	10			
1841236	1.9	15	10	26	168	5			
1841237	1.9	0	13	25	88	5			
1841238	1.9	13	5	17	78	5			
1841239	1.8	12	7	22	88	10			
1841240	1.2	0	2	13	35	5			
1841241	1.9	16	5	20	104	15			
1841242	1.0	18	11	31	83	5			
1841243	1.5	17	16	38	70	5			
1841244	1.5	0	8	23	83	5			

STATION	IN	FBM	AS	CU	FR	TA	AU-PPB
DL841243	.3		2	13	22	95	5
DL841244	.6		0	8	15	63	10
DL841247	1.0		0	10	25	70	5
DL841248	.8		1	7	20	63	15
DL841249	.9		0	10	37	148	5
DL841250	.3		0	9	17	154	5
DL841251	2.7		0	24	22	137	5
DL841252	2.0		0	7	8	64	5
DL841253	1.5		0	12	22	143	5
DL841254	1.5		0	13	28	98	5
DL841255	1.9		0	13	15	53	5
DL841256	1.0		5	6	19	124	5
DL841257	2.1		0	8	18	92	15
DL841258	1.2		0	8	18	59	5
DL841259	2.0		0	10	20	71	5
DL841260	2.3		0	14	14	62	10
DL841261	.9		0	13	22	119	5
DL841262	.6		4	6	20	70	5
DL841263	.6		10	8	24	87	5
DL841264	.9		0	16	23	107	5
DL841265	1.1		0	16	26	94	5
DL841266	.7		10	6	18	110	15
DL841267	.5		5	6	20	122	5
DL841268	.9		0	12	25	66	5
DL841269	1.0		0	6	20	80	5
DL841270	.3		4	9	21	78	5
DL841271	.6		11	16	25	111	5
DL841272	.6		0	10	20	111	15
DL841273	.4		7	6	22	103	5
DL841274	.7		0	15	29	88	5
DL841275	.7		0	8	20	85	10
DL841276	.6		0	11	22	169	10
DL841277	.9		0	41	38	62	5
DL841278	.9		0	49	31	67	5
DL841279	.8		6	16	28	128	15
DL841280	.6		7	6	17	117	10
DL841281	.6		0	32	34	118	5
DL841282	.9		0	16	27	107	5
DL841283	.7		0	17	26	109	5
DL841284	.8		0	27	31	88	15
DL841285	.6		2	9	24	72	5
DL841286	.8		1	24	22	61	10
DL841287	.9		1	13	22	58	5
DL841288	.9		4	8	22	65	5
DL841289	1.0		0	24	24	75	10
DL841290	1.2		0	23	45	147	10
DL841291	1.1		5	9	21	77	5
DL841292	1.9		0	22	19	78	10
DL841294	.8		11	16	42	206	5
DL841295	2.6		0	22	15	99	15
DL841296	.6		2	15	26	71	10
DL841297	1.2		0	15	26	85	20
DL841298	1.0		1	12	24	109	5
DL841299	1.0		9	8	20	60	15
DL841300	.3		0	7	22	72	5
DL841301	.8		5	10	20	129	10
DL841302	.9		1	9	20	87	5
DL841303	.8		5	14	17	93	5
DL841304	1.0		1	54	39	64	10
DL841305	.3		0	13	23	134	5

VALUES IN PPM	26	28	30	32	34	40-PPM
DLB41306	1.4	1	6	17	103	5
DLB41307	1.6	3	6	15	72	5
DLB41308	1.7	2	22	23	69	5
DLB41309	1.9	0	16	23	69	5
DLB41310	1.8	0	12	16	71	<5
DLB41311	1.4	0	7	12	133	5
DLB41312	1.1	0	7	16	100	5
DLB41313	1.4	1	14	28	110	5
DLB41314	1.1	0	13	29	106	5
DLB41315	1.3	8	22	24	94	10
DLB41316	1.3	15	14	14	119	5
DLB41317	1.3	0	9	18	102	5
DLB41318	1.5	7	7	18	63	10
DLB41319	1.9	0	8	15	70	5
DLB41320	1.3	4	8	20	123	10
DLB41321	1.5	5	6	13	87	<5
DLB41322	1.7	0	10	19	76	5
DLB41323	1.7	12	14	21	69	5
DLB41324	1.1	3	10	24	45	5
DLB41325	1.3	1	7	16	130	5
DLB41326	1.0	5	19	33	140	5
DLB41327	1.7	8	9	23	93	<5
DLB41328	1.6	6	7	22	142	5
DLB41329	1.8	1	39	37	111	<5
DLB41330	1.3	4	19	24	74	5
DLB41331	1.7	0	2	19	79	5
DLB41332	1.1	0	9	19	104	5
DLB41333	1.4	11	3	14	117	5
DLB41334	1.2	0	9	51	284	5
DLB41335	1.2	0	22	31	144	5
DLB41336	1.1	0	24	16	68	5
DLB41337	1.5	3	18	14	102	5
DLB41338	1.5	0	27	21	86	10
DLB41339	1.2	0	7	14	103	5
DLB41340	1.7	6	5	9	87	5
DLB41341	1.8	3	9	12	78	5
DLB41342	1.4	3	1	11	62	10
DLB41343	1.6	3	5	12	129	5
DLB41344	1.6	0	5	15	68	5
DLB41345	1.2	0	7	19	75	5
DLB41346	1.7	9	3	13	85	5
DLB41347	1.9	0	7	12	106	5
DLB41348	1.7	2	14	20	89	5
DLB41349	1.7	0	12	18	88	10
DLB41350	1.7	7	17	17	84	<5
DLB41351	1.5	11	17	19	57	<5
DLB41352	1.5	6	9	16	22	5
DLB41353	1.8	11	11	15	73	5
DLB41354	1.8	16	4	13	106	5
DLB41355	1.2	0	5	13	109	5
DLB41356	1.5	10	9	10	75	10
DLB41357	1.5	10	2	11	67	5
DLB41358	1.8	3	5	12	91	5
DLB41359	1.7	2	7	17	95	5
DLB41360	1.7	8	4	11	73	5
DLB41361	1.2	7	7	16	78	5
DLB41362	1.2	0	2	9	75	10
DLB41363	1.7	0	5	15	93	5
DLB41364	1.9	2	7	23	92	5
DLB41365	1.2	10	9	15	87	5

VALUE (IN PPM)	AS	AG	CU	PB	ZN	SO-PBB
DL941372	.4	0	1	5	46	5
DL941373	.4	0	5	11	70	10
DL941374	.4	3	5	14	54	5
DL941375	.4	6	3	13	74	5
DL941376	.7	0	4	10	62	10
DL941377	.7	0	6	15	48	5
DL941378	.7	0	6	13	56	5
DL941379	.7	6	11	12	48	10
DL941384	.7	0	1	10	63	5
DL941385	.7	0	2	14	76	5
DL941386	.6	0	6	16	54	5
DL941387	.7	0	3	14	64	5
DL941388	.7	7	1	9	49	10
DL941389	1.1	0	15	13	131	5
DL941391	.5	14	0	3	54	5
DL941392	.7	7	13	18	52	10
DL941393	.7	3	3	15	51	5
DL941394	.7	4	12	17	59	5
DL941395	.5	19	21	14	73	5
DL941396	.8	0	9	15	101	10
DL941397	.4	0	1	10	91	5
DL941398	.6	1	7	16	73	5
DL941400	.9	3	6	15	66	5
DL941401	.7	4	1	9	75	5
DL941402	.8	5	5	14	75	5
DL941403	.4	9	10	29	97	10
DL941404	.7	0	5	23	40	5
DL941411	.9	0	2	17	73	5
DL941412	.5	11	7	17	46	5
DL941413	1.0	4	3	14	65	5
DL941416	.8	2	20	15	50	10
DL941417	.7	0	41	22	45	5
DL941418	1.0	0	12	16	37	5
DL941419	.8	0	9	12	52	10
DL941420	.6	0	2	11	62	5
DL941421	.8	7	3	13	56	5
DL941422	.8	4	6	17	92	10
DL941423	.6	5	4	15	67	5
DL941424	.6	0	6	9	95	5
DL941425	.7	13	20	18	50	10
DL941427	.9	0	20	21	64	10
DL941433	.6	2	3	12	79	5
DL941434	.9	0	2	17	97	5
DL941435	.8	19	20	19	55	10
DL941436	.7	0	10	17	62	5
DL941437	.8	7	3	16	102	5
DL941440	.6	41	8	239	16	15
DL941441	.6	16	3	24	69	5
DL941442	.8	21	19	44	54	10
DL941443	1.0	0	5	21	52	5
DL941444	.8	19	9	24	61	5
DL941446	.7	7	14	52	62	5
DL941447	.9	0	9	24	43	5
DL941448	1.1	16	12	27	55	5
DL941449	.9	0	4	15	94	5
DL941450	1.1	0	16	16	81	10
DL941451	.8	0	3	15	78	5
DL941452	1.6	0	31	37	106	5
DL941453	1.1	0	10	18	153	10
DL941454	1.1	0	10	15	156	5

I. PIRIE

(604)980-5814 OR (604)988-4324 *TYPE SOIL GEOCHEM*

DATE: SEPTEMBER 24, 1984

VALUES (IN PPM)	AS	BS	CU	PB	MN	AU-PPB
DL941455	.3	3	14	18	97	3
DL941456	1.0	0	25	17	109	3
DL941457	1.1	0	21	25	107	3
DL941458	.5	0	2	19	134	3
DL941459	1.1	0	14	20	98	3
DL941460	1.1	0	11	20	90	3
DL941461	1.0	0	13	18	87	3
DL941462	.5	0	5	16	97	3
DL941463	.7	0	4	20	92	3
DL941464	.7	0	16	28	124	3
DL941467	.5	17	3	13	82	3
DL941468	.8	0	11	20	70	3
DL941469	.7	16	10	24	70	3
DL941470	.9	3	9	18	65	3
DL941471	.7	1	17	17	93	3
DL941472	1.0	0	28	30	66	3
DL941473	.9	0	5	18	41	3
DL941474	.8	3	9	19	65	3
DL941475	.9	18	14	22	82	3
DL941476	1.3	0	9	23	91	3
DL941477	.9	0	4	13	31	10
DL941478	.8	0	3	21	23	3
DL941479	.7	18	3	17	112	3
DL941480	1.2	0	10	20	73	3
DL941481	1.1	0	12	20	42	3
DL941482	1.0	0	15	24	61	3
DL941483	1.1	0	7	21	119	3
DL941484	1.0	0	5	16	67	3
DL941485	.7	1	10	18	100	3
DL941486	.6	10	5	13	93	3
DL941487	.7	10	4	21	87	10
DL941488	.9	0	2	16	18	3
DL941489	.9	0	3	5	34	3
DL941500	.9	0	7	11	72	3
DL941501	.8	0	7	16	53	10
DL941502	.8	0	5	5	84	3
DL941503	1.1	0	10	14	79	3
DL941504	.7	2	11	14	91	10
DL941505	.7	10	7	11	78	3
DL941506	1.0	0	13	22	120	3
DL941507	.7	0	5	13	86	3
DL941508	.6	12	4	6	77	3
DL941509	.7	4	4	11	63	10
DL941510	1.2	0	27	12	64	3
DL941511	.9	3	4	14	51	15
DL941512	1.1	0	14	16	86	3
DL941513	1.2	0	6	14	88	3
DL941514	.9	11	4	10	50	3
DL941515	.9	0	5	14	67	3
DL941516	.9	4	4	11	121	3
DL941517	1.2	0	21	23	38	3
DL941518	.9	5	3	12	59	10
DL941519	.8	0	3	13	46	13
DL941520	1.3	0	9	17	120	3
DL941521	1.3	0	12	19	93	10
DL941522	1.0	0	2	10	45	3
DL941523	1.0	0	4	12	64	3
DL941524	1.2	0	2	15	34	15
DL941525	1.0	0	4	12	87	3
DL941526	.7	10	7	14	143	3

VOLUME (IN PPM)	AS	AS	CU	PN	ZN	AU-PPB
DL841527	.6	0	5	11	57	5
DL841528	.9	3	11	14	62	5
DL841529	.8	11	5	10	89	5
DL841530	.6	11	5	6	115	<5
DL841531	.5	7	10	25	214	5
DL841532	1.2	0	11	14	104	10
DL841533	1.0	0	7	15	83	<5
DL841534	1.3	0	17	16	132	5
DL841535	1.1	0	6	11	60	5
DL841536	.9	14	2	11	54	15
DL841537	1.0	0	11	22	85	5
DL841538	1.5	0	17	13	127	10
DL841539	.6	22	2	9	50	5
DL841540	1.2	0	9	14	75	5
DL841541	.8	10	5	14	51	10
DL841542	1.5	5	4	12	52	5
DL841543	.8	11	4	7	124	5
DL841544	.9	10	9	14	94	5
DL841545	.8	5	9	22	94	10
DL841546	.9	13	8	15	57	5
DL841547	.8	16	15	21	39	10
DL841548	.7	1	2	13	92	10
DL841549	1.0	2	5	15	74	5
DL841550	1.1	0	14	17	91	5
DL841551	1.2	1	11	21	62	<5
DL841552	.9	8	6	15	107	5
DL841553	1.2	0	5	17	77	5
DL841554	1.4	0	23	13	67	10
DL841555	1.3	2	22	16	48	5
DL841556	.9	21	8	13	80	5
DL841557	.7	2	9	12	85	5
DL841558	.9	1	23	16	44	5
DL841559	.9	0	2	11	12	5
DL841560	1.2	0	11	4	53	10
DL841561	1.1	1	2	6	55	5
DL841562	1.2	0	17	9	50	5
DL841563	1.1	0	15	15	71	5
DL841564	.6	11	1	9	40	5
DL841565	.7	12	13	19	81	5
DL841566	1.1	0	11	14	72	5
DL841567	.7	12	16	25	144	10
DL841568	.9	0	9	26	69	5
DL841569	1.0	2	12	29	102	5
DL841570	1.2	0	16	19	73	10
DL841571	1.4	0	27	16	81	5
DL841572	.8	0	8	19	41	5
DL841573	1.1	0	7	25	133	5
DL841574	.9	2	6	14	55	20
DL841575	.8	22	21	15	38	5
DL841576	.9	0	3	12	122	10
DL841577	.8	7	12	14	57	5
DL841578	1.1	0	3	15	59	5
DL841579	.6	11	11	19	109	5
DL841580	.8	14	13	24	120	5
DL841581	.7	12	3	13	75	5
DL841582	1.1	14	11	12	41	10
DL841583	1.4	0	21	18	42	5
DL841584	1.0	0	13	15	55	5
DL841585	.9	6	16	17	62	5
DL841586	1.2	5	19	22	55	5

DRY: I. PIRIE

(604)980-5914 OR (604)989-4524

TYPE SOIL SPECTROM

DATE: SEPTEMBER 24, 1964

PORT VALUE (IN PPM)	AS	AS	CU	FE	MN	NI-PBB
DL941590	.8	7	24	16	50	5
DL941591	.6	2	7	19	58	10
DL941592	.9	0	11	12	69	5
DL941593	.9	1	5	11	66	5
DL941594	.6	4	5	14	77	5
DL941595	.8	0	10	14	113	5
DL941596	1.3	0	12	17	111	5
DL941597	1.1	0	13	22	81	10
DL941598	.8	0	15	22	78	5
DL941599	.8	2	13	24	101	5
DL941600	.6	14	5	15	73	5
DL941601	.6	11	4	11	61	15
DL941602	1.4	0	21	21	90	10
DL941603	1.1	0	4	17	55	5
DL941604	.7	16	6	13	91	5
DL941605	1.0	0	9	15	79	5
DL941606	1.1	0	24	25	78	5
DL941607	.8	0	4	12	83	5
DL941608	.9	7	23	27	76	10
DL941609	.3	11	10	16	60	5
DL941610	.6	10	3	13	75	5
DL941611	.9	0	9	15	49	5
DL941612	.9	6	39	33	49	15
DL941613	1.2	0	38	36	79	5
DL941614	.8	4	2	12	41	10
DL941615	1.1	0	9	19	89	5
DL941616	1.1	0	9	20	75	5
DL941617	1.0	13	18	24	63	5
DL941618	.9	12	14	20	93	5
DL941619	1.0	3	13	20	79	5
DL941620	.4	12	33	25	60	10
DL941621	.6	0	9	14	105	5
DL941622	.8	0	13	15	44	5
DL941623	.7	33	37	25	111	5
DL941624	.8	0	14	29	99	5
DL941625	.7	0	8	19	128	5
DL941626	.7	0	53	23	43	5
DL941627	.9	0	53	22	86	5
DL941628	1.0	0	9	13	72	5
DL941629	.7	11	3	14	71	10
DL941630	.7	4	9	22	111	5
DL941631	.6	10	6	15	79	5
DL941632	.8	5	6	14	71	5
DL941633	.8	1	11	29	78	5
DL941634	1.0	0	10	23	69	5
DL941635	.4	7	19	31	72	10
DL941636	1.3	0	23	23	9	5
DL941637	.8	4	3	13	64	5
DL941638	1.2	12	34	24	72	5
DL941639	1.1	4	3	24	51	5
DL941640	.0	44	22	12	64	5
DL941641	.9	11	23	30	85	5
DL941642	.9	4	3	19	51	5
DL941643	1.0	0	14	29	109	5
DL941644	.9	3	36	31	77	10
DL941645	.8	11	13	30	77	5
DL941646	1.0	14	19	23	75	5
DL941647	1.3	0	30	29	59	5
DL941648	.9	2	9	24	76	5
DL941649	.6	15	19	24	60	5

I. PIRIE

(604)980-5814 OR (604)982-4524

TYPE SOIL BEDDING

DATE: SEPTEMBER 24, 1984

PORT VALUES IN PPM)	AS	AS	CU	PB	MN	AU-PPB
DL94 1650	.6	0	22	20	72	5
DL94 1651	.5	0	13	13	67	5
DL94 1652	.3	0	20	19	155	10
DL94 1653	1.2	0	28	21	20	5
DL94 1654	1.3	0	31	27	53	5
DL94 1655	1.0	0	24	21	91	5
DL94 1656	.5	5	6	7	111	10
DL94 1657	.2	18	5	15	74	5
DL94 1658	.3	29	25	22	163	5
DL94 1659	.5	13	3	6	53	10
DL94 1660	1.0	0	25	9	22	5
DL94 1661	1.1	0	38	16	19	5
DL94 1662	1.4	0	44	22	54	15
DL94 1663	.6	6	1	5	46	5
DL94 1664	.6	7	9	14	77	5
DL94 1665	.3	10	30	17	41	15
DL94 1666	1.3	0	38	17	55	10
DL94 1667	1.0	26	38	26	79	5
DL94 1668	.6	0	6	15	55	5
DL94 1669	.9	0	25	10	64	15
DL94 1670	.3	5	21	17	114	5
DL94 1671	1.0	0	29	17	60	5
DL94 1672	1.0	0	18	24	190	10
DL94 1673	1.2	0	19	21	208	5
DL94 1674	1.2	0	23	19	107	15
DL94 1675	1.1	0	19	13	52	5
DL94 1676	.9	0	11	15	100	10
DL94 1677	.3	18	12	14	53	5
DL94 1678	.7	11	10	25	107	5
DL94 1679	.7	18	17	22	61	10
DL94 1680	.4	25	4	10	52	5
DL94 1681	.7	3	14	12	71	10
DL94 1682	.7	0	6	11	80	5
DL94 1683	.7	0	9	12	85	5
DL94 1684	.6	0	7	10	50	15
DL94 1685	.3	0	14	17	57	5
DL94 1686	.6	0	3	12	106	15
DL94 1687	.5	0	4	6	33	10
DL94 1688	.5	0	7	7	49	10
DL94 1689	.5	13	3	8	50	5
DL94 1690	.3	2	6	7	79	5
DL94 1691	.3	0	8	14	82	5
DL94 1692	.9	1	12	14	95	10
DL94 1693	.3	0	16	20	97	5
DL94 1695	.7	4	14	17	53	25
DL94 1696	.7	3	13	13	156	10
DL94 1697	1.2	0	27	27	53	5
DL94 1698	.9	0	27	14	33	5
DL94 1699	1.1	0	43	12	71	15
DL94 1700	2.0	0	76	27	94	5
DL94 1701	1.0	0	23	9	152	20
DL94 1702	1.1	0	22	19	76	15
DL94 1703	1.0	0	50	10	14	5
DL94 1704	1.5	0	18	5	72	5
DL94 1705	.3	0	6	10	111	10
DL94 1706	.7	3	8	10	91	15
DL94 1707	1.0	0	6	25	90	5
DL94 1708	.9	0	5	16	71	5
DL94 1709	1.2	0	17	13	46	10
DL94 1710	.9	0	4	10	76	5

PIRIE

(604)980-5814 OR (604)989-4524

ATYPE SOIL BEDDING*

DATE: SEPTEMBER 24, 1984

DEPTH (IN FEET)	CB	AB	CU	FB	7N	AU-FRB
DL94 1711	12	15	8	15	53	10
DL94 1712	15	17	21	19	54	5
DL94 1713	17	0	9	15	77	15
DL94 1714	17	4	14	22	176	5
DL94 1715	16	1	4	14	127	10
DL94 1716	14	9	3	11	77	5
DL94 1717	18	5	17	15	64	15
DL94 1718	15	9	6	11	93	5
DL94 1719	18	5	7	11	75	5
DL94 1721	19	0	15	18	74	10
DL94 1722	18	0	6	14	72	15
DL94 1724	110	3	12	16	55	10
DL94 1725	110	0	27	22	89	25
DL94 1726	14	16	10	14	92	5
DL94 1727	17	12	42	39	85	10
DL94 1728	19	12	31	30	88	10
DL94 1729	19	0	7	18	102	5
DL94 1730	116	0	36	19	88	15
DL94 1731	116	0	45	14	67	10
DL94 1732	111	0	22	11	44	10
DL94 1733	111	0	24	13	55	10
DL94 1734	17	7	4	11	50	5
DL94 1735	12	7	6	15	219	15
DL94 1736	16	14	20	19	94	5
DL94 1737	17	0	7	15	102	5
DL94 1738	17	0	14	23	42	10
DL94 1739	19	0	8	15	79	15
DL94 1741	17	12	3	12	92	5
DL94 1742	18	16	7	14	111	5
DL94 1743	16	12	6	13	73	15
DL94 1744	16	9	3	1	55	10
DL94 1745	19	0	8	9	118	5
DL94 1746	110	0	5	11	91	10
DL94 1747	17	6	0	9	48	10
DL94 1748	16	41	23	35	64	15
DL94 1749	110	0	7	15	89	10
DL94 1750	19	0	8	15	123	5
DL94 1751	17	2	2	8	106	5
DL94 1752	18	20	17	23	90	5
DL94 1753	110	0	10	15	112	10
DL94 1754	110	2	18	19	119	10
DL94 1755	19	0	2	3	114	5
DL94 1756	17	4	4	11	102	15
DL94 1757	18	0	8	13	77	5
DL94 1758	110	0	9	13	67	15
DL94 1759	111	0	13	20	55	10
DL94 1760	115	0	21	17	79	10
DL94 1761	113	0	18	3	73	5
DL94 1762	111	0	14	8	79	5
DL94 1763	12	13	21	27	133	15
DL94 1764	19	0	12	16	108	10
DL94 1765	18	14	6	10	91	5
DL94 1766	110	3	9	20	86	5
DL94 1767	19	2	3	10	55	15
DL94 1768	110	19	7	8	97	15
DL94 1769	110	0	6	14	38	10
DL94 1770	113	0	5	11	58	5
DL94 1771	110	0	11	19	166	5
DL94 1772	112	3	7	16	105	5
DL94 1773	12	7	6	12	84	5

VALUES IN PPM	PH	AS	CU	PB	ZN	MO-P2O5
DL84 1774	.8	0	6	10	53	10
DL84 1775	.9	0	5	9	85	5
DL84 1776	.9	0	6	11	82	5
DL84 1777	1.1	0	10	17	77	5
DL84 1778	.8	0	19	13	48	10
DL84 1779	.7	10	10	14	122	5
DL84 1780	.9	3	14	18	85	10
DL84 1781	2.1	0	64	33	95	5
DL84 1782	.9	13	9	22	90	10
DL84 1783	.9	0	17	19	78	10
DL84 1784	.8	10	6	11	101	5
DL84 1785	.8	0	7	14	124	10
DL84 1786	1.0	1	10	24	91	5
DL84 1787	.8	5	5	16	82	5
DL84 1788	.8	5	6	18	63	10
DL84 1789	.8	4	10	22	113	5
DL84 1790	.9	0	3	11	53	10
DL84 1791	.9	0	12	19	101	5
DL84 1792	.8	8	5	13	61	10
DL84 1793	.7	16	15	25	107	5
DL84 1794	.7	16	18	21	111	5
DL84 1795	.9	9	13	22	170	5
DL84 1796	.8	1	8	15	118	10
DL84 1797	.6	29	26	49	102	5
DL84 1798	1.2	0	10	16	121	5
DL84 1799	1.1	2	13	17	147	5
DL84 1800	.9	2	10	22	112	5
DL84 1801	1.3	0	16	17	94	5
DL84 1802	1.1	0	5	14	115	10
DL84 1803	1.0	1	7	14	89	5
DL84 1804	.9	0	9	11	131	5
DL84 1805	.7	0	7	12	99	5
DL84 1806	1.0	0	12	15	71	5
DL84 1807	.9	0	9	9	72	5
DL84 1808	1.0	0	54	29	106	5
DL84 1809	.8	0	6	15	74	5
DL84 1810	.8	14	4	6	95	5
DL84 1811	.9	4	20	25	67	5
DL84 1812	.8	5	3	13	61	10
DL84 1813	.8	5	7	18	73	5
DL84 1814	.8	0	6	16	65	5
DL84 1815	.9	0	10	16	55	15
DL84 1816	1.0	0	9	19	97	5
DL84 1817	.7	0	4	8	81	5
DL84 1818	.8	13	3	11	51	10
DL84 1819	.7	20	15	19	72	5
DL84 1820	.9	0	7	16	109	5
DL84 1821	.9	0	7	13	99	5
DL84 1822	.9	15	43	46	121	10
DL84 1823	.8	5	6	15	97	5
DL84 1824	.9	15	12	21	58	5
DL84 1825	.8	7	7	18	111	5
DL84 1826	.8	4	18	19	73	10
DL84 1827	.7	24	13	25	78	10
DL84 1828	.8	6	5	18	150	5
DL84 1829	1.0	0	3	9	53	5
DL84 1830	1.0	17	32	27	85	5
DL84 1831	.9	0	26	27	117	5
DL84 1832	.8	2	11	21	177	5
DL84 1833	.9	10	4	15	97	5

I. PIRIE

(604)980-5814 OR (604)988-4524

TYPE SOIL GEOCHEM

DATE: SEPTEMBER 24, 1984

VALUES IN PPM)	AG	AS	CU	PB	ZN	AU-PPB
DL84 1834	.4	0	7	22	115	5
DL84 1835	.3	0	7	21	115	5
DL84 1836	.6	16	15	21	53	5
DL84 1837	.5	1	10	24	115	<5
DL84 1838	.8	4	21	36	114	10
DL84 1839	.5	19	13	34	120	5
DL94 1840	.6	10	10	20	108	5
DL84 1841	.5	21	32	33	77	5
DL84 1842	.7	3	8	17	53	5
DL84 1843	1.0	26	33	54	89	5
DL84 1844	.8	0	17	21	97	5
DL84 1845	.9	0	7	15	125	5
DL84 1846	.9	2	6	24	87	<5
DL84 1847	.7	18	11	22	81	<5
DL84 1848	.6	24	13	31	89	5
DL84 1849	.6	1	8	27	111	5
DL84 1850	.9	13	6	20	59	5
DL84 1851	.6	49	139	47	116	5
DL84 1854	.8	0	10	23	77	10
DL84 1855	1.0	2	16	29	70	5
DL84 1856	.6	3	10	25	59	5
DL84 1857	.9	9	7	21	56	10
DL84 1858	.8	4	7	22	49	5
DL84 859	.8	0	7	17	86	5
DL84 1860	1.0	5	5	21	76	5
DL84 1861	.4	16	2	16	50	10
DL84 1863	.9	0	2	22	78	5
DL84 1864	.8	0	7	23	87	5
DL84 1865	1.0	9	8	30	105	<5
DL84 1866	.5	30	17	30	133	5
DL84 1867	.7	0	8	15	104	5
DL84 1868	.6	14	9	11	79	10
DL84 1869	.8	2	13	20	91	5
DL84 1871	1.2	0	11	15	93	5
DL84 1872	1.0	0	14	17	109	<5
DL84 1873	.8	0	9	14	71	5
DL84 1874	.4	25	17	28	117	5
DL84 1875	.6	10	6	19	106	5
DL84 1876	.5	22	7	22	73	10
DL84 1877	.5	9	7	9	123	5
DL84 1882	1.0	0	8	12	81	5
DL84 1883	.9	10	10	17	71	<5
DL84 1884	1.0	0	6	16	61	<5
DL84 1885	1.0	14	35	31	69	5
DL84 1886	.7	0	7	20	76	25
DL84 1887	.9	0	5	8	146	<5
DL84 1888	.8	16	1	4	31	10
DL84 1889	1.2	0	4	14	50	5
DL84 1890	.8	7	20	24	247	5
DL84 1891	.8	0	5	15	106	<5
DL84 1892	.6	9	18	27	89	5
DL84 1893	.6	21	6	19	44	5
DL84 1894	.9	0	11	31	94	10
DL84 1895	.9	5	10	15	66	5
DL84 1896	1.1	0	9	23	68	5
DL84 1898	.8	1	3	19	77	<5
DL84 1899	1.0	0	7	16	79	10
DL84 1900	.9	6	5	9	78	5
DL84 1901	1.0	1	7	13	102	5
DL84 1902	1.1	0	20	22	76	5

17	17	12	17	11	5
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L. PIRIE

(604)980-5814 OR (604)988-4524 *TYPE SOIL GEOCHEM* DATE: SEPTEMBER 24, 1984

PORT VALUES IN PPM)	AG	AS	CU	PB	ZN	AU-PPB
DLB41903	.5	0	7	18	63	10
DLB41904	.6	0	8	20	63	5
DLB41905	.9	0	21	29	72	5
DLB41906	.5	0	12	22	96	5
DLB41907	.9	0	36	30	43	<5
DLB41908	.7	0	6	15	60	5
DLB41909	.4	0	8	17	48	5
DLB41910	.4	3	6	22	59	5
DLB41911	.5	15	14	24	111	5
DLB41912	.7	0	7	19	104	10
DLB41913	.6	2	8	18	74	5
DLB41914	.6	10	21	23	86	5
DLB41915	.8	0	18	21	144	5
DLB41916	.7	0	14	22	92	5
DLB41917	.3	0	7	19	53	<5
DLB41918	.7	0	12	26	87	5
DLB41919	.7	13	8	23	103	10
DLB41920	.5	21	34	42	141	5
DLB41921	.8	0	8	19	95	5
DLB41922	.7	11	15	25	82	5
DLB41923	.5	13	6	15	88	5
DLB41924	.5	6	8	15	105	5
DLB41925	.6	18	9	21	61	5
DLB41926	.5	19	6	20	94	5
DLB41927	1.0	0	30	26	97	5
DLB41928	.7	2	6	21	74	5
DLB41929	.9	0	11	26	94	10
DLB41930	1.0	0	10	31	112	<5
DLB41931	.9	2	11	22	64	5
DLB41932	.9	16	12	30	92	5
DLB41933	.5	1	8	22	71	10
DLB41934	.6	0	11	16	123	5
DLB41935	.6	0	23	27	77	5
DLB41936	.7	0	46	40	55	5
DLB41937	.5	4	9	23	64	5
DLB41938	.8	0	6	21	73	<5
DLB41939	1.0	1	12	26	111	5
DLB41940	N/S					
DLB41942	.7	0	6	15	110	10
DLB41000	.8	4	12	26	94	5
DLB41001	1.0	4	63	25	50	10
DLB41002	.5	6	8	13	54	5
DLB41003	.7	14	20	20	69	10
DLB41004	.7	4	7	16	55	10
DLB41005	.8	12	62	22	51	5
DLB41006	1.0	0	7	16	132	5
DLB41007	.5	12	7	18	95	5
DLB41008	.9	0	15	23	163	5
DLB41009	2.0	0	23	16	57	5
DLB41010	.9	13	9	24	71	10
DLB41011	.2	32	11	28	126	15
DLB41012	.7	6	8	19	56	5
DLB41013	.5	23	4	17	41	5
DLB41014	.7	19	10	22	48	5
DLB41015	1.0	12	11	27	103	5
DLB41016	1.0	0	11	21	49	10
DLB41017	1.1	0	9	19	43	5
DLB41018	.7	27	25	45	104	10
DLB41019	1.7	0	10	17	57	5
DLB41020	1.0	13	5	20	96	5

NO: 215

700 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE No: 4-9665/P27+28

TION: I. PIRIE

(604)980-5814 OR (604)988-4524 *TYPE SOIL GEOCHEM*

DATE: SEPTEMBER 24, 1984

REPORT VALUES IN PPM)	AG	AS	CU	PB	ZN	AU-PPB
DLB41021	.6	3	6	17	24	10
DLB41022	.8	0	15	30	98	5
DLB41023	2.0	0	20	19	93	5
DLB41024	.4	10	17	33	102	10
DLB41025	.6	12	7	14	47	5
DLB41026	.6	10	11	18	83	15
DLB41027	.6	0	5	22	59	5
DLB41028	.8	0	23	27	90	5
DLB41029	.7	0	5	19	50	5
DLB41030	1.0	0	16	25	63	10
DLB41031	.8	0	24	25	83	10
DLB41032	.6	6	36	18	25	5
DLB41033	.9	0	5	24	80	5
DLB41034	.6	16	9	22	72	5
DLB41035	.8	0	6	25	53	10
DLB41036	.7	11	5	22	69	5
DLB41037	1.0	0	16	24	119	<5
DLB41038	1.5	0	9	18	89	5
DLB41039	2.0	0	14	21	73	15
DLB41040	1.3	1	13	23	94	5
DLB41041	.4	14	4	23	129	10
DLB41042	.9	0	13	25	114	5
DLB41043	.9	0	9	29	68	5
DLB41044	.6	11	8	23	86	10
DLB41045	.7	0	17	27	66	5
DLB41046	.4	17	7	24	43	5
DLB41047	.9	0	9	30	90	5
DLB41048	.8	0	9	21	120	5
DLB41049	1.3	0	9	20	75	<5
DLB41050	.7	14	7	16	91	5
DLB41051	.5	0	15	16	72	5
DLB41052	.4	0	4	13	71	10
DLB41053	1.8	0	22	8	91	5
DLB41054	2.1	0	9	5	57	<5
DLB41055	.8	0	36	33	255	15
DLB41056	1.4	0	46	17	100	<5
DLB41057	1.0	0	5	8	88	10
DLB41058	1.8	0	10	8	81	25
DLB41059	.3	5	22	29	87	5
DLB41060	.5	5	7	13	56	5
DLB41061	.4	9	7	15	59	15
DLB41062	.6	14	7	14	47	5
DLB41063	.6	8	5	14	89	5
DLB41064	1.0	0	28	23	47	10
DLB41065	.5	15	6	15	56	5
DLB41066	.8	1	9	15	49	15
DLB41067	1.0	10	6	17	47	10
DLB41068	.6	8	23	16	83	10
DLB41069	.7	0	10	21	143	5
DLB41070	.8	4	18	21	99	5
DLB41071	1.0	0	23	21	102	10
DLB41072	.6	3	5	12	117	5
DLB41073	1.0	0	13	26	119	<5
DLB41075	1.2	0	19	15	83	20
DLB41076	.8	6	10	14	105	15
DLB41077	.7	14	8	13	62	5
DLB41078	.9	4	7	13	80	5
DLB41079	.7	5	17	16	63	10
DLB41080	1.0	0	17	17	88	5
DLB41081	.9	14	12	19	77	5

NO: 215

703 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE No: 4-966S/P29+30

LOCATION: I. PIRIE

(604)980-5814 OR (604)988-4524

TYPE SOIL GEOCHEM

DATE: SEPTEMBER 24, 1984

REPORT VALUES IN PPM)	AG	AS	CU	PB	ZN	AU-PPB
DLB41082	.3	0	13	16	88	10
DLB41083	1.5	0	9	5	100	5
DLB41084	1.7	0	19	6	66	5
DLB41085	1.0	0	55	25	70	5
DLB41086	.8	0	12	20	78	5
DLB41087	1.0	0	15	14	84	5
DLB41088	.8	0	22	19	70	5
DLB41089	.7	10	12	18	77	25
DLB41090	.8	0	9	16	83	10
DLB41091	1.0	4	15	20	62	5
DLB41092	1.5	0	11	15	92	5
DLB41093	1.6	0	13	19	110	5
DLB41094	1.7	0	16	19	88	<5
DLB41095	2.7	0	44	14	86	5
DLB41096	.6	7	12	20	58	10
DLB41097	.7	3	15	19	78	10
DLB41098	.7	11	15	23	63	5
DLB41100	.8	5	16	21	48	10
DLB41101	.8	12	13	20	67	20
DLB41103	.4	0	10	17	143	5
DLB41104	1.3	0	18	24	86	5
DLB41105	.6	0	11	22	83	5
DLB41106	.6	2	36	19	64	10
DLB41107	1.0	0	30	25	94	<5
DLB41108 20M	.0	37	8	9	30	5
DLB41113	.6	17	2	9	54	5
DLB41114	3.9	0	20	0	67	<5
DLB41115	.6	0	9	15	79	5
DLB41116	.9	14	14	19	65	5
DLB41117	1.0	2	9	19	73	5
DLB41118	.7	8	23	57	232	5
DLB41119	.8	0	13	24	82	10
DLB41594 DUPLICA	.8	1	15	27	93	5
DLB48540	.6	0	13	42	62	15