86-351-14965

GEOCHEMICAL ASSESSMENT REPORT

ON THE

JAN-MAR MINERAL CLAIMS
Victoria ~~and Alberni~~ Mining Division's,
Vancouver Island, B.C.

FOR

Operator: **LODE RESOURCE CORPORATION**
#1020 - 475 Howe Street
Vancouver, B.C.

Owner: M. Elden Schorn

Location: NTS 92F/2W/E
49° 05' N/124° 36.8'W
20 km SE of Port Alberni, B.C.

Subject: Geochemical Soil Sampling Program
by Ashworth Explorations Limited, Vancouver, B.C.
during March - April, 1986

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Nanaimo, B.C. V9T 2S3

June 25, 1986

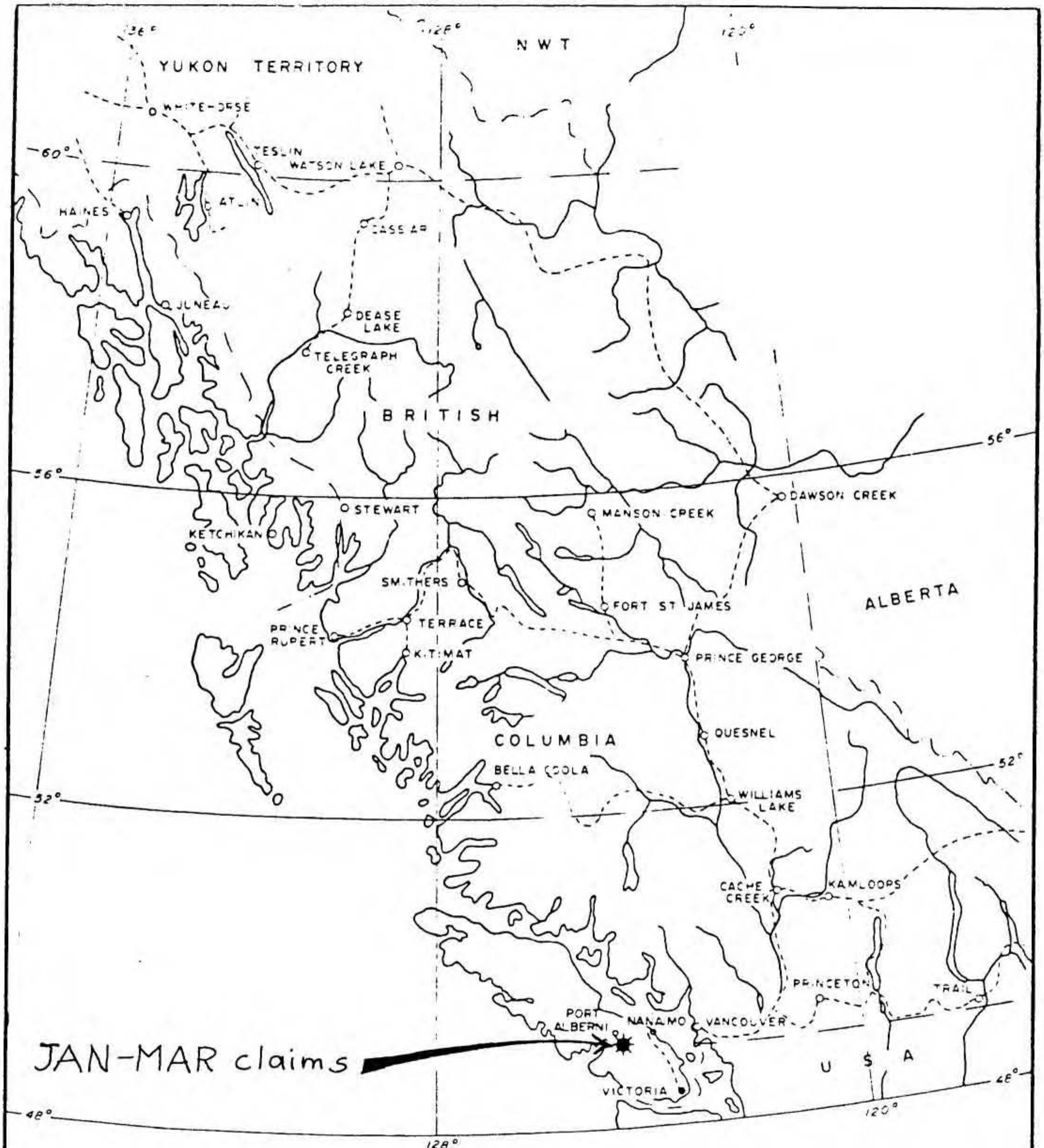
ABSTRACT

During March-April, 1986, Ashworth Explorations Limited, on behalf of Lode Resource Corporation, spent 24 man/days on Jan-Mar group of claims carrying out a geochemical soil sampling program. Total of 326 samples were collected and analysed for Gold and 25 other metals, including a number of trace elements and rare earths, by induced neutron activation method. The claims are located just south of Mount McQuillan, some 20 km SE of Port Alberni, Vancouver Island, B.C., mainly in Victoria M.D., with northern edge of property in Alberni M.D. Claims are owned by Mr. Elden Schorn, optioned to Lode Resource Corporation. Lode has also interest in a number of old crown grants, contained within the claims, including the Black Panther Crown Grants on which 3 old adits of the Black Panther Mine, a former gold producer, are located, as well as the old Black Lion and other gold prospects.

Geologically, the area is largely underlain by Paleozoic Sicker Group volcanics, and possibly by some Triassic Vancouver Group volcanics. These are intruded by Jurassic Island Intrusions, mainly dioritic, and some Tertiary dykes. Sicker Group, particularly the Myra Formation, contains several well known mining camps, eg. Buttle Lake, Mount Sicker, and China Creek - Mount McQuillan camps, all of which are now being actively explored for Au-Ag and massive volcanogenic base metal deposits. Lode has been active in Mount McQuillan area during the past decade, one of the interests being the exploration of the old Black Panther - Black Lion Au-bearing vein system and its projected southward extension. The purpose of this program was to locate the extensions of the Black Panther - Black Lion mineralized zones. The area has not been mapped in detail and some of the old surface trenches, being located in heavy timber on a steep slope, still remain to be found again.

The lab results indicate the presence of several low order geochemically anomalous areas which warrant more detailed follow-up work. Although no definite correlation or connection with the known Au-bearing veins of the old Black Panther - Black Lion prospects to the north, and the anomalies found so far has been established, several overlapping multi-element anomalies were found in the southern half of the sample grid, some 2,000 - 3,000 metres south of the Black Panther mine workings. The anomalous values include Au, As, Sb, Ni, Cr, several trace elements and rare earths. (Samples were not analysed for Cu and Pb, while the lab detection limits were too high for Ag and Zn with the lab method used to determine the presence of any lower order anomalies). Gold, the most important metal sought for here occurs in anomalous soils in NW corner of the grid, and on the south half of the grid where it is associated with other element anomalies which appear to indicate several N-S trending possibly mineralized zones.

It is recommended that more sampling be carried out, and that the previously taken samples be re-analysed for Ag, Zn, and also for Cu and Pb, using the Atomic Absorption Method. All data should then be re-evaluated.



LODE RESOURCE CORPORATION

JAN-MAR CLAIMS

VICTORIA & ALBERNI MINING DIVISIONS, B C

GENERAL LOCATION SKETCH

SCALE 1" = 125 MILES

FIGURE 1

CONTENTS

MAPS AND FIGURES

1. INTRODUCTION

This report was prepared at the request of Mr. T.F. Schorn, president of Lode Resource Corporation, to evaluate and summarize the results of a geochemical soil sampling program carried out during March 18 - 25 and March 29 - April 2, 1986, on the Jan-Mar group of claims near Port Alberni, B.C. The field work was carried out by the geotechnical personnel of Ashworth Explorations Limited on behalf of Lode Resource Corporation (optioner), under the supervision of Mr. Clive Ashworth, president of Ashworth Explorations Limited. Field work consisted of collecting 326 soil samples on a control grid. The samples were analyzed for gold and 25 other elements and the lab results were plotted on 4 maps included in this report.

The claim group area contains the old Black Panther and Black Lion gold prospects where Lode Resource Corporation (previously named Jan Resources Limited) carried out various exploration activities during the last decade. The purpose of the present geochemical survey was to explore to the possible southward extensions of the mineralized zones.

2. PROPERTY

The property, consisting of 2 contiguous claims, MAR and JAN, is almost entirely within Victoria Mining Division; only a small northern part of MAR claim is within Alberni Mining Division. The particulars of the claims are as follows:

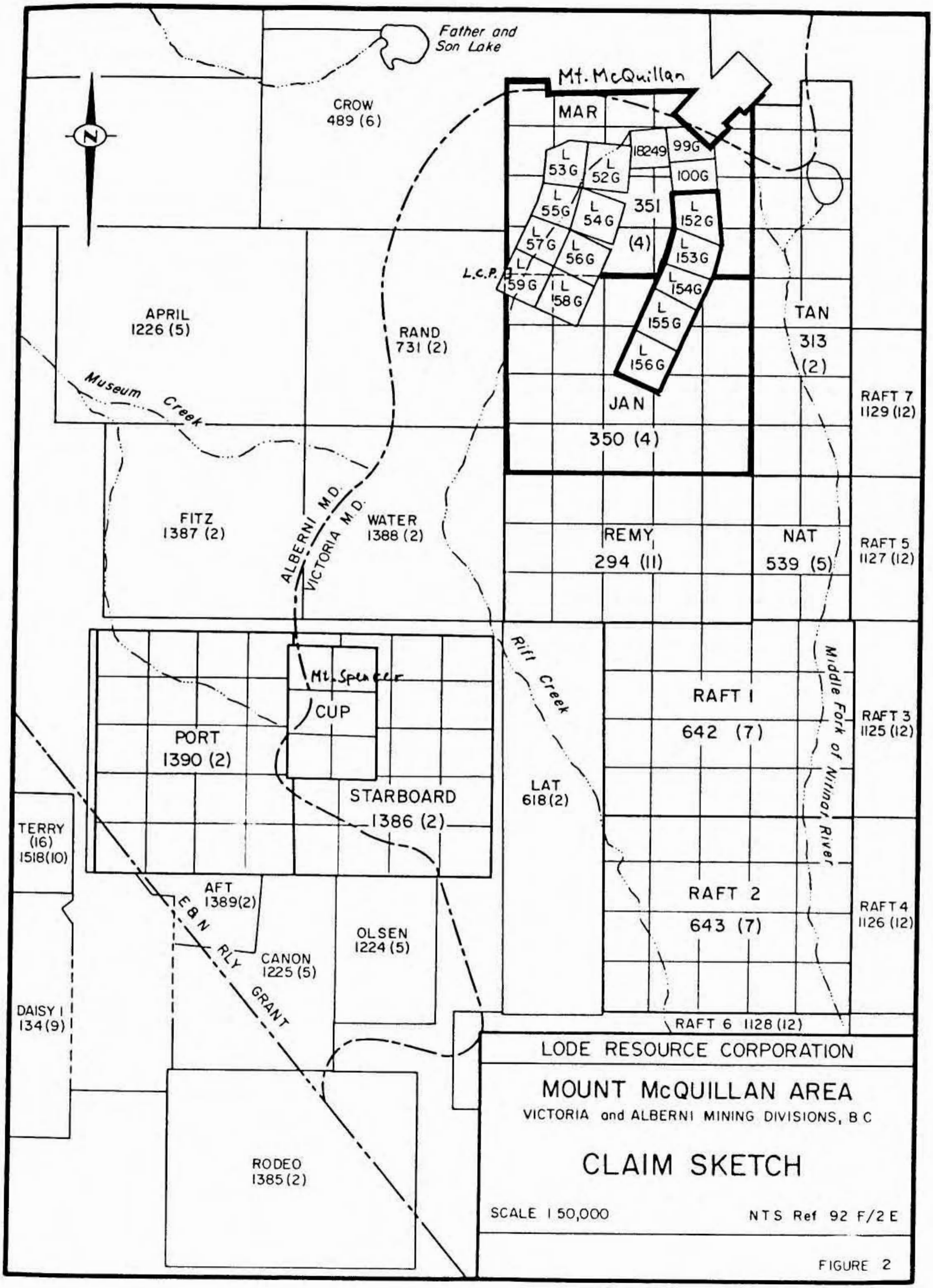
Claim	Units	Record #	Expiry Date	Ownership
JAN	20	350 (4)	April 12/86	M.E. Schorn; optioned by Lode Res. Corp
MAR	20	351 (4)	April 12/86	Same

The claim group also contains within its boundaries the following Crown Grants (See Figure 2):

8 "Black Panther" Crown Grants, owned by Black Panther Mining Co., in Joint Venture with Lode Resource Corp (Lots 52G to 59G, inclusive).

Ridge 1, Apex and Skyline Crown Grants, all owned by M.E. Schorn (1/5) and T.H. McEwan (4/5), optioned by Lode Resource Corp, (Lots 18249, 99G and 100G respectively).

Another 5 Crown Grants, Lots 152G to 156G, in which Lode has no interest, are also within the claims boundaries.


Father and Son Lake
Mt. McQuillan
CROW 489 (6)
MAR
L 53G
L 52G
18249
99G
100G
L 55G
L 54G
351 (4)
L 152G
L 57G
L 56G
L 153G
L.C.P.
L 59G
L 58G
L 154G
L 155G
L 156G
TAN 313 (2)
APRIL 1226 (5)
RAND 731 (2)
Museum Creek
JAN 350 (4)
RAFT 7 1129 (12)
FITZ 1387 (2)
ALBERNI M.D.
VICTORIA M.D.
WATER 1388 (2)
REMY 294 (11)
NAT 539 (5)
RAFT 5 1127 (12)
Rift Creek
Mt. Spencer
CUP
PORT 1390 (2)
RAFT 1 642 (7)
Middle Fork of Nitinat River
RAFT 3 1125 (12)
LAT 618 (2)
STARBOARD 1386 (2)
TERRY (16) 1518 (10)
AFT 1389 (2)
RAFT 2 643 (7)
RAFT 4 1126 (12)
E & N RLY GRANT
OLSEN 1224 (5)
CANON 1225 (5)
DAISY I 134 (9)
RAFT 6 1128 (12)
RODEO 1385 (2)
LODE RESOURCE CORPORATION
MOUNT McQUILLAN AREA
VICTORIA and ALBERNI MINING DIVISIONS, B C
CLAIM SKETCH
SCALE 1 50,000
N T S Ref 92 F/2 E
FIGURE 2

3. LOCATION, TERRAIN AND ACCESS

The property lies about 20 km southeast of Port Alberni, in the west central part of Vancouver Island, near the headwaters of Rift Creek.

The claims occupy the steep western slope of the main southerly trending ridge of Mount McQuillan. The topographical relief ranges from about 600 meters above mean sea level at Rift Creek to the 1575 meter high peak of Mount McQuillan, a total of nearly a kilometer over 5 km distance north to south. Most of the steep terrain is covered by heavy timber (fir, hemlock, cedar) except the logged-off area in SW corner of JAN Claim, near Rift Creek. To the north, approaching Mount McQuillan, and along the high ridge, the terrain becomes alpine.

Access is by the Franklin River - Museum Creek logging road from Port Alberni, then following either side of Rift Creek to north, to the west and south sides of the property. The old Black Panther mine and the main part of property can only be reached on foot.

4. HISTORY AND PREVIOUS WORK

Placer gold was mined in China Creek, several km NE of property, in 1860's. This was followed by discovery and development of lode gold prospects in the area, and by 1940 up to 8 properties, including the Black Panther mine, had gone into production. The low gold price and low tonnage potential, among other reasons, hindered further development since then. The properties lie within the E and N Railway Land Grant, the mineral rights of which have now been relinquished. However, a number of properties, including the Black Panther Mine, and others, are still held by Crown Grants in the area.

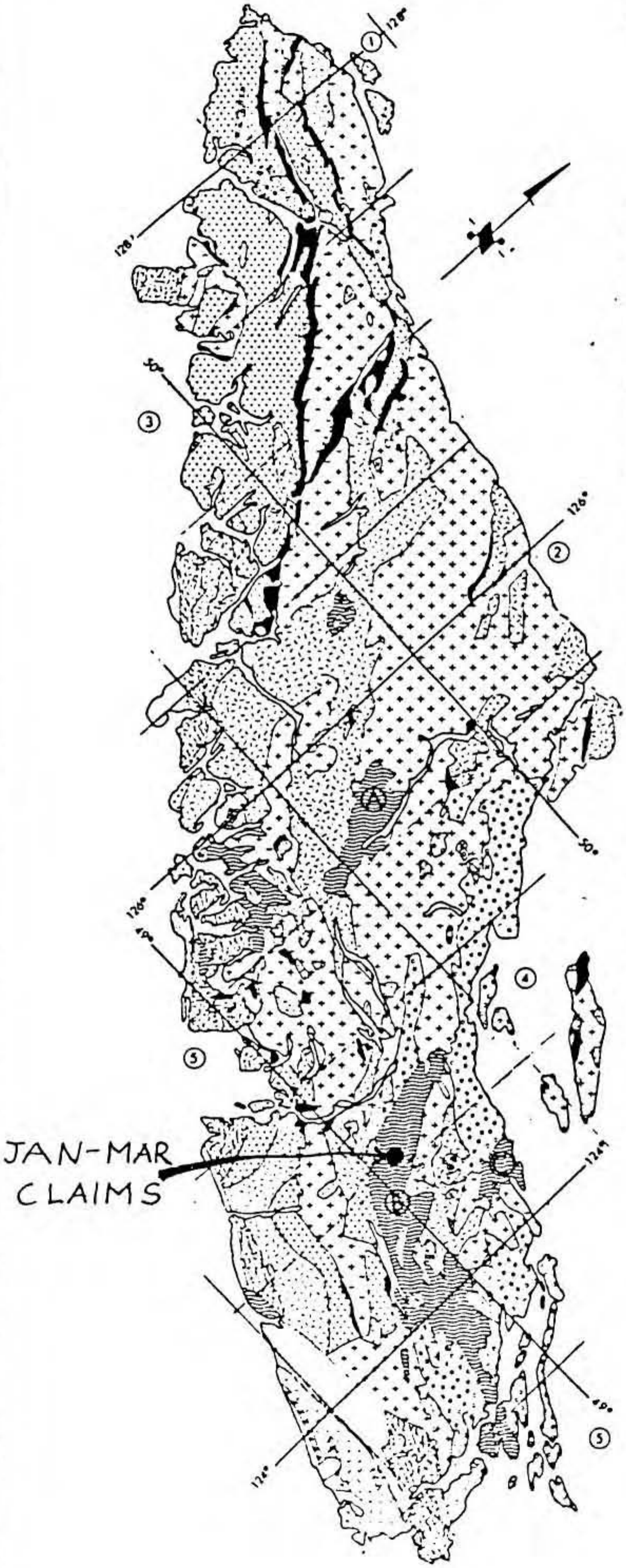
The previous history and the geology, prospects and mines of the China Creek area (including Black Panther and Black Lion) have been described by J.S. Stevenson in B.C. Minister of Mines Annual Report for 1945, in some detail, and further summarized in various reports listed in the "References" of this paper.

In 1960's Gunnex Limited, in a joint venture with CPOG (who held the mineral rights), carried out regional prospecting, geochemical surveys and geological mapping in the E & N Land Grant area, including the area of the present Jan - Mar claims. The author was closely involved in this work, and carried out the regional mapping program. The properties in the area, including Black Panther, were also sampled and examined, although the main interest then was geared toward the base metal exploration. Several Total Heavy Metal geochemical anomalies were also located in Rift Creek and other streams in the area. Gunnex Limited abandoned the project in late 1966.

REGIONAL GEOLOGY

(from Muller, GSC, 1980)

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 EARLY CRETACEOUS	
LEECH RIVER FORMATION, PACIFIC RIM COMPLEX		
ISLAND INTRUSIONS	EARLY AND (?) MIDDLE JURASSIC	
BONANZA GROUP	EARLY JURASSIC	
VANCOUVER GROUP: PARSON BAY FORMATION, QUATSINO FORMATION	LATE AND (?) MIDDLE TRIASSIC	
KARMUTSEN FORMATION		
SICKER GROUP	PALEOZOIC	
METAMORPHIC COMPLEXES	JURASSIC AND OLDER	

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 NOOTKA SOUND, 92 E (IN PREPARATION)

④ ALBERNI 92 F (G.S.C. PAPER 58-50)

⑤ VICTORIA, 92 B C (FIELD WORK IN PROGRESS. SEE GSC 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

MILES: 0 20 40

FIGURE 3

In 1979 and 1980 Jan Resources Limited (now Lode Resource Corporation) acquired by staking and option a number of claims and crown grants, including Jan and Mar claims, in Mount McQuillan area. Various exploration programs carried out by Jan/Lode since then include prospecting, silt and soil sampling, trenching, diamond-drilling, airborne geophysics, ground geophysics and limited mapping in the area, including the Jan-Mar claims (see "References" for list of reports covering these activities). The old underground workings on the Black Panther Crown Grants were also sampled and examined. The author spent several periods during 1983 - 1985 working on the claims and adjoining properties.

Although the 3 adits of the Black Panther mine (Mar Claim) are well known, the Black Lion prospect, some 2,000 feet further south (near or along the common boundary of Jan and Mar claims), is not so well known. The old surface workings, reported by Stevenson (1945) exposed several auriferous quartz veins assumed to be the southward extensions of the mineralized veins of Black Panther mine. A 1983 stream sediment survey of Upper Rift Creek and tributaries revealed that several gullies and small tributaries were anomalous in Au-Ag and base metals (Laanela, 1984), indicating a source of mineralization in that area.

The present soil sampling survey, based on the above information, was carried out to find the potential area where such mineralized veins or zones could be located by further exploration. A number of geochemical anomalies resulting from the present survey indicate that several such zones may exist which need further definition.

5. GEOLOGY

The Mount McQuillan area of Vancouver Island is underlain predominantly by volcanic rocks which have been mapped by J.E. Muller of G.S.C. (1980) as part of Paleozoic Sicker Group (Myra and Nitinat Formations). Myra Formation rocks particularly have lately been the locus of much exploration activity on Vancouver Island; they contain the Westmin's Buttle Lake ore bodies, as well as the old mines and new prospects in Mount Sicker area, near Duncan. In Mount McQuillan - China Creek area the old Thistle Mine and various precious metal mines (Black Panther, Golden Eagle, Havilah, Mineral Creek and others) are associated with Sicker Group rocks (See Figure 3 for regional geology).

Locally, the Mount McQuillan (and the claims area) has never been mapped in detail, including the formation boundaries. Regional mapping by Stevenson (1945), by the author (1964-66), Muller (1980), etc., indicate also the presence of Triassic Vancouver volcanics, Jurassic Island Intrusious and Tertiary dykes in the Mount McQuillan area. The heavy timber cover, locally deep overburden and the precipitous terrain here make the mapping and exploration of the area difficult.

In the Black Panther mine, as well as on the other prospects in the area, gold and silver values occur in quartz-carbonate veins intruding the mainly andesitic volcanics. Diorite intrusions, and particularly the later feldspar-porphyry dykes appear to be associated with the mineralization. The veins are relatively narrow, (1-4 feet) and strike northerly; dips range from 60 - 70 degrees to vertical. The precious metals and associated sulphides (galena, pyrite, sphalerite) are distributed erratically in the vein system, the veins often branch and widths vary considerably along the strike. The best grades and widths usually occur at the junctions of the intersecting veins and shears. This feature of the ore localization or control along such junctions seems to be important in any future exploration.

6. SPRING 1986 GEOCHEMICAL PROGRAM

The purpose of the 1986 soil sampling program was to delimit, by geochemical means, any anomalous zones that may indicate the presence of mineralized veins or structures extending southward from the old Black Panther and Black Lion prospects. Such anomalous zones could then be explored further by detail sampling, prospecting, geophysics, mapping, trenching and possibly drilling.

Two experienced geotechnicians spent 8 days on soil sampling the property. A flagged control grid, consisting of 21 east-west lines, at 100 meter intervals, totalling 13.5 line km and covering about 1.46 km2 area was laid out using compass and topofil-chain. A total of 326 B-Horizon soil samples were collected along lines at 50 meter spacings using a grub-hoe, and placed into Kraft - paper bags. The samples were then shipped to Bondar-Clegg and Company Ltd. geochemical lab in North Vancouver, B.C., for analysis.

In the lab the samples were dried and screened to "minus - 80 mesh" size prior to analysis. The lab method chosen was the so-called "Gold + 25" Multi-Element I.N.A.A. Package, rather than the more standard Hot Acid Digestion/Atomic Absorption Analysis method used for precious and base metals.

The method used is the Direct Irradiation/Instrumental Neutron Activation Analysis where a 10 gram prepared sample is encapsulated in a vial and then subjected to irradiation by a flux of neutrons emitted by a suitable source. This radiation causes the elements in the sample to become radioactive and emit characteristic gamma-rays (i.e. nuclear transmutation into radioactive isotopes) which can then be measured and analyzed by computerized detection instruments.

By this method, the sample is analyzed for gold, and 25 other elements, including the more common silver, zinc (but not lead and copper), iron, arsenic, antimony, cobalt, nickel, chromium, molybdenum, thorium, uranium, tungsten, barium, cadmium and a number of less common trace elements and rare-earth elements. These elements and their respective detection limits are listed fully in the Appendix, preceding the analytical lab results, and are described individually in the following chapter.

At this point a few comments could be made regarding the pros and cons of this method, as compared to more commonly used Atomic Absorption lab method.

Although some very low sensitivities for trace elements, etc., are obtainable, they may be affected by interferences as in any other methods. Missing in the "package" are analyses for lead and copper, and the detection limits for silver (5 ppm as compared to 0.2 ppm using A.A.)and zinc (200 ppm as compared to 1 ppm using A.A.) are obviously too high to be of any use in normal exploration programs for base and precious metal deposits.

The lab results were plotted on four 1:2500 scale grid base maps (in pocket following the report). The distribution frequencies of individual elements were plotted as histograms (on maps) from which anomalous parameters were estimated; the anomalous values were contoured. In the following discussion of results the elements are grouped accordingly to their geochemical affinities, i.e. as siderophile, lithophile (including rare earths) and chalcophile elements.

7. DISCUSSION OF RESULTS

7.1 Siderophile Elements: Gold, Iron, Cobalt, Nickel, Molybdenum and Iridium.

(See Map No. 1)

Siderophile elements are those having primarily an affinity for iron; they are concentrated in Earth's core. Affinity groupings are an approximate qualitative indication of natural geochemical associations. In general, some elements show affinity for more than one group. For example, gold is primarily siderophile but is often associated with sulphides (chalcophile), such as is the case here.

Gold:

In the area sampled, the background for Au is below the 5 ppb detection limit, with the lower anomalous limits in the 10 - 15 ppb range. These parameters agree with the results of similar sampling programs carried out elsewhere in the area. It is geochemically quite mobile element and is regarded as "its own best path-finder" for Au-deposits in the area. The values here range up to 120 ppb Au, hence there are a number of "significant" anomalies occurring as two larger groups.

One, the better defined group of Au anomalies, occupies the NW corner of grid, on Lines 0 to 7 South. The other group, consisting mainly of more scattered "spot" anomalies, occurs in the logged-off area on Lines 10 to 17 South. In both areas, there is some correlation with arsenic. The northern area is primarily indicative of gold mineralization, while the southern area contains, aside from gold, a profusion of other element anomalies, mostly in the "weak" or "low" range, indicative of possible polymetallic mineralization.

If all Au values above the 5ppb detection limit are contoured, the two larger anomalous areas can be joined and a tentative pattern of subtle, intersecting auriferous anomalous trends can be detected, with a predominantly N - S strike.

Iron:

Iron anomalies are low and insignificant, unrelated to other siderophiles analysed. It has low mobility.

Cobalt:

Cobalt anomalies are also low and insignificant, except for a 190 ppm "spot high" at L20S/1+00 E, coincident with a Cesium "high". Mobility is medium to high.

Nickel:

Nickel occurs in several "weak" but otherwise well defined anomalies, having an overall N - S trend on Lines 5 to 17 South. It appears to be largely unrelated to other siderophiles; it has high mobility. Nickel is generally associated with ultramafic plutonic rocks (along with Cr, Co and Cu), with Platinum Group elements, and with hydrothermal sulphide ores in general. Its presence here may warrant further study, particularly as possible indication for platinum and related metals (platinum and palladium occurrences have been reported about 6 - 7 km SSE of here, SE of the RAFT Claims).

Molybdenum:

All Mo values were below the 2 ppm detection limit, except one 7 ppm sample at L12S/4 + 50E. It has very high mobility.

Iridium:

Iridium was the only Platinum Group metal analysed for, all values being below the 100 ppb (0.1 ppm) Ir detection limit. The average abundance of Ir in crystal rocks is about 1 ppb. Platinum Group minerals have very low mobility.

7.2 **Chalcophile Elements:** Arsenic, Antimony, Silver, Zinc, Selenium and Cadmium.

(See Map No. 2)

Chalcophile elements have affinity for sulphur, hence they tend to be concentrated in sulphides. Other elements in this group (not analysed here) include copper, lead, bismuth and tellurium.

Of the 6 elements analysed for, only arsenic and antimony gave well defined anomalies, while all the lab results for Ag, Zn, Se and Cd were below the detection limits which obviously are too high for the 4 elements in question. (Hence it is strongly recommended that all samples should be re-run for Ag, Zn, and also for Cu, Pb, using the Hot Acid Extraction/Atomic Absorption Method.)

Arsenic:

Arsenic is represented by several "spot" or small low to medium range anomalies. A larger, well defined anomaly occurs across Lines 14 to 17 South (300 m long) with a range up to 1790 ppm As, and having very good correlation with antimony. Locally, some high arsenic values coincide with gold anomalies. The background for As is in the 3 - 10 ppm range, with a threshold of about 15 ppm.

Arsenic has a medium mobility and is considered to be a good "pathfinder" element for vein type Au - Ag deposits as well as complex (Au - Au - Cu - Pb - Zn - Co) sulphide ores.

The coincident As - Au anomalies here should be considered as starting points for locating "target" areas.

Antimony:

Antimony is represented by two subparallel north trending "weak" to "medium" range, but otherwise well defined anomalous zones on the south half of the grid (L10S to about L18S). The main As anomaly (see above) coincides exactly with the western zone. There is also some local correlation with Au, Rare Earths, Cr and, to lesser extent, with a few other elements. The total range here is up to 12 ppm Sb, with background in the 0.5 - 1.5 ppm range and the threshold taken as about 2.5 ppm. Sb has low mobility, and similar to arsenic, is indicative of low temperature and complex sulphide mineralization, and of hydrothermal sulphide ores in general.

7.3 **Lithophile Elements:** Chromium, Tungsten, Rubidium, Barium, Hafnium, Cesium, Thorium, Uranium and Tantalum.
(See Maps No.s 3 and 4)

Cr, W, Rb and Ba are shown on Map No. 3, while the remaining elements are shown on Map No. 4. (Rare Earth Elements (REE), although considered lithophile, are discussed separately in 7.4, and are shown on Map No. 2.)

Although all the above elements are distributed largely in the background range with only a few "spot" or "weak" anomalies present, contouring the threshold and low anomalous values of most of the elements surprisingly indicates a number of often overlapping low-intensity and narrow anomalous zones. These occur in the south part of the grid, from L8 South to the south edge of the grid.

Chromium:

Chromium background varies between 100 - 400 ppm Cr, with a threshold of about 500 ppm, and a total range of "less than 50" to 2900 ppm. A series of mostly low order "spot" anomalies occur on Lines 7S to 19S, forming a narrow N-S trend which appears to branch into two parallel zones toward north of Line 14S. There is some good correlation with Nickel; both have plutonic association with ultramafic rocks, and along with Co and Cu, could be indicative of platinum group mineralization. Cr has very low mobility, as compared to Ni (high mobility), hence it is a useful element in detailed follow-up sampling for Pt group elements.

Tungsten:

Tungsten values are low, with background below the 2 ppm W detection limit. The few low anomalous "spots", however, form a narrow, definable zone in the east part of the grid, particularly in the southern half. There is no significant correlation. Its plutonic association is with granitic rocks, along with Ba, Mo, Zn, Hf, U, Th, Sn, etc. It has very low mobility, as compared to, for example, the high mobility of Mo and U.

Rubidium:

Rubidium forms several low order "spot" or small anomalies within the south half of the grid, where it has some association with barium. Its mobility is low and distribution appears to be positively "skewed" (logarithmic). Background is in the "less than 10 ppm Rb" to 30 ppm range, with 45 - 50 ppm taken as the lower anomalous limit. It forms no minerals of its own, but is found in potassium minerals, replacing K, particularly in the pegmatitic rocks (along with cesium), and in granitic rocks in general.

Barium:

Barium also forms two or more narrow, low intensity anomalous zones in south part of the grid (Lines 11S to 19S), locally associated with rubidium, and to lesser extend, other lithophiles. It tends to be enriched in early-formed potassium minerals, hence having an association with granitic rocks. It is also found associated with base metal (Pb-Zn-Cd) deposits, as barite. Its mobility is low.

Hafnium:

Again, two very low to low intensity anomalous trends occur in the south half of grid. The best zone, near west edge of grid, occurs across 5 lines, from L11S to L16S, where it has very good correlation with U and Th. Background is mostly below the "less than 2ppm Hf" detection limit, with the highest value of 5 ppm. Hafnium is always found with zirconium (eg. in zircon) which it substitutes in granitic rocks and pegmatites.

Cesium:
Cesium occurs in a few low intensity "spot" anomalies, mostly in the south-central part of the grid. Its background varies from "less than 1 ppm Cs" to 3 ppm, with the highest value of 12 ppm. It tends to be concentrated in the pegmatite stage, in association with Pb, Ta, Rb, etc. It has low mobility.

Thorium:
Thorium forms a few very low order anomalies, which are closely associated with Hf in the south half of the grid. It is commonly associated with granitic and particularly pegmatitic rocks, and has very low mobility. In complex pegmatites it is often associated with Rare Earth elements, U, Sc, Mo, Sn, Cs, Nb, Ta, W, Rb, etc.

Uranium:
Uranium is represented by a few low order "spot" anomalies, which tend to be associated with Th and Hf anomalous zones. It also is usually associated with granitic rocks, particularly pegmatites, and has a rather high mobility.

Tantalum:
Tantalum values are all below the "less than 1 ppm Ta" detection limit, except 6 values of 1 ppm occurring on the southern part of the grid. These are associated with some elevated Hf, Cs and possibly U values, Tantalum has very low mobility and tends to be concentrated in the pegmatite phase.

7.4 **Rare Earth Elements:** Scandium, Lanthanum, Terbium, Europium and Ytterbium.

(See Map No. 2)

Although discussed separately here, they are considered to be also lithophile elements. "Rare Earths" refers to oxides of a series of 15 metals (REE) obtained from widely distributed but relatively scarce minerals. The rare earth metals proper are those with atomic numbers from 57 (lanthanum) to 71 (lutetium), also called "lanthanide elements". They are further divided into "light" and "heavy" rare earths. Here, the scandium is also included with rare earths. Sometimes Hafnium and Thorium are also included with rare earths (not here). The REE metals and their compounds are characterized by great chemical similarity, so that their separation is difficult; they often substitute for each other and other elements (eg. U, Th, Ca) in minerals which form several end-member series and may contain such elements as Nb(Cb), Ta, Ti, P, U, Th, Zr, Be and others. Lanthanium is one of the best known RE elements, usually found in monazite, a RE phosphate found in pegmatites and granitic rocks. It and other RE elements have low to very low mobility, i.e. they do not "travel" far from source (except scandium, which has high mobility).

Because of their great geochemical similarity and restricted mobility, the REE anomalies shown on Map No. 2 are combined of 5 RE elements. These low intensity anomalies occur as 3 subparallel and narrow trends in the south half of the grid, associated intermittently with a number of other elements, particularly As, Sb, Th, U, Hf, Cs, Ba, Rb and Au. As a group, all these elements tend to occur in complex pegmatics, carbonatite complexes, and more generally, are associated with granitic and alkaline rocks.

The anomalies here are largely caused by lanthanum, followed by europium. Most of the anomalous values are only slightly above the "threshold" value, which, if taken individually or by themselves, would appear to be rather insignificant.

8. CONCLUSIONS

1) Anomalous Au geochemical values occur mainly in two areas of the grid:

   The Au anomaly in NW corner of grid appears to indicate primarily gold mineralization. The group of several small scattered Au anomalies in the south half of the grid appears to be associated with other metals, indicative of possible polymetallic mineralization.

2) Lack of geochemical lab results regarding base metals (Cu, Pb, also Zn) prevents drawing any direct conclusions about their possible occurrences in the grid area.

3) The high lab detection limits used for Ag and Zn analysis, resulting in "non-detectable" values, indicates only that there are no highly significant Ag-Zn anomalies present. This does not preclude the possible occurrences of lower order anomalous trends which may also be significant.

4) The numerous,often overlapping small trace element, REE, and other more common element (eg. Ni, As, Sb, Cr, etc) anomalies, found largely in the southern half of the grid area, suggests a possible presence of diverse mineralization. A number of these elements are often found to be associated with granitic rocks in general, and with complex pegmatites in particular. Other suggested associations are with alkaline rocks, carbonatites, and ultra-mafic rocks.

   Correlation of these anomalies with geology is not possible at this stage due to lack of any detail geological information in the grid area.

5) There is not yet enough data to locate the projected southward extensions of the auriferous veins of the Black Panter Mine and the Black Lion prospect.

9. RECOMMENDATIONS

First of all, the 326 samples already taken should be analysed for Ag, Cu, Pb and Zn, using the Hot Acid Digestion/Atomic Absorption Method (which has much lower detection limits).

These samples containing elevated (anomalous) Ni-Cr values should be also analysed for Platinum and Palladium.

The above analytical results should be plotted on maps, similar to results already plotted here, and the total results should be re-evaluated .

Follow-up sampling, say on a minimum of 25 x 50 metre grid intervals, should then be carried out on selected areas containing Au-As-Sb and, if any, Ag and base metal anomalies. This sampling should provide targets for trenching, stripping and possibly ground geophysics, where warranted.

The grid should be extended both north and south of the present grid. This should be sampled initially at 50 x 100 metre interval, and samples analysed for Au, Ag, Cu, Pb & Zn.

Prospecting and mapping of all outcrops should be carried out, using grid control, with particular emphasis on the anomalous zones, structures and geological contacts. Also, a renewed attempt should be made to locate the old Black Lion trenches, and the veins prospected and sampled (refer to Stevenson, 1945).

All the above results should then be evaluated in order to locate drill targets. On the southern half of the grid, where several anomalous zones are already indicated, the area is already logged off, with several access roads, which should facilitate any drilling program on that part.

10 PERSONNEL

Field Personnel (geotechnicians, employed by Ashworth Explorations Ltd): Robert Paeseler, March 18 - 25, and March 29 - April 2, 1986. Paul Lepine, March 18, 1986. Greg Brown, March 19 - 25, and March 29 - April 2, 1986. (Total 24 man/days in field)

Supervision and Administration:
Clive Ashworth (1 day), President of Ashworth Explorations Ltd., Vancouver, B.C.

Data Compilation and Reporting:
Hugo Laanela, consulting geologist, Nanaimo, B.C.
June 16 - 20, 1986 (2 days)

11. EXPENDITURES

A) **Expenditures in Field** (Per Ashex Invoice to Lode Resource Corp., April 8, 1986)

Personnel:

2 Geotechnicians x 12 days @ $420.00/day =	$ 5,040.00	
Principal, Supervisor, 1 day	450.00	
		$ 5,490.00

Support and Miscellaneous Costs:

Room & Board (24 man/days @ $60)	$ 1,440.00	
4 x 4 Truck Rental (12 days @ $90)	1,080.00	
Transportation (B.C. Ferries)	80.00	
Supplies (flagging, sample bags, etc)	160.00	
Filing Fees	410.00	
Telephone	34.00	
		$ 3,204.00
Contingency, Administration @ 15% of above		480.60
TOTAL FOR FIELD WORK		$ 9,174.60

B) **Lab Analysis:** Bondar-Clegg & Company Ltd, North Vancouver, B.C., Lab Report #126-0727

326 Soil Samples for "Gold + 25" Multi Element I.N.N.A. Package @ $12.00/sample	$ 3,912.00	
Sample Preparation @ $0.90/sample	293.40	
TOTAL FOR LAB		$ 4,205.40

C) Data Compilation/Reporting (Office):

Geologist, 2 days @ $250.00	$ 500.00	
Typing: 9 hours @ $18.00	162.00	
Copying & Printing	40.06	
Mailing, Telephone, Misc.	20.00	
Drafting Supplies, Map Prints	101.16	
TOTAL FOR REPORTING		$ 823.22

TOTAL EXPENDITURES $ 14,203.22

GEOLOGICAL ASSOCIATION OF CANADA · FELLOW · H. LAANELA

Respectfully submitted by

Hugo Laanela, F.G.A.C.
Geologist

June 24, 1986
Nanaimo, B.C.

CERTIFICATE

I, HUGO LAANELA, of 3657 Ross Road, Nanaimo, British Columbia do hereby declare that:

1. I am a geologist, graduate of the University of British Columbia, Vancouver, B.C. in 1961 with a B.A. Degree in Geology.

2. I am a Fellow of The Geological Association of Canada, and a full member of The Association of Exploration Geochemists, The Canadian Institute of Mining and Metallurgy, and The Australasian Institute of Mining and Metallurgy.

3. I have practiced my profession as a mining exploration geologist from 1961 to 1966 and from 1973 to present across Canada and Western U.S.A. During 1966 to 1972 I was employed as a senior/regional geologist in Australia.

4. The information, opinions and recommendations presented in this report are based on my study of the data supplied to me by the personnel of the Ashworth Explorations Limited, as well as my own geological experience in the area and on the property.

5. I have worked previously with the personnel of Ashworth Explorations Limited who carried out the geochemical sampling program on the property, and I affirm their abilities and geotechnical experience.

6. I became a shareholder in Lode Resource Corporation in June, 1984.

Dated at NANAIMO, BRITISH COLUMBIA, this 25th day of June, 1986.

Hugo Laanela

REFERENCES

House, G.D.,1983: Geochemical Assessment Report on the Raft 1 and Raft 2 Claims, Nitinat River Area, Victoria M.D., B.C., for Jan Resources Ltd., August 18, 1983, by Sawyer Consultants Inc.

Laanela, H.,1964 - 1966: Mineral Occurrences on E & N Land Grant, Vancouver Island; internal company reports summarized for Gunnex Limited.

Laanela, H.,1964 -1966: Geological Maps of E & N Land Grant between 49 Degrees 00' and 49 Degrees 20' latitudes, 1": 1/2 mile, for Gunnex Limited.

Laanela, H.,May 1, 1984: Summary Report on 1983 Property Exploration Programs in the Mount McQuillan area, Victoria and Alberni Mining Divisions, Vancouver Island, B.C., for Lode Resource Corporation.

Laanela, H.,Oct. 24, 1985: Report on Reconnaissance Geochemical - Geological Survey of the TAN Claim, Victoria and Alberni Mining Divisions, Nitinat River Area, Vancouver Island, B.C., on behalf of Lode Resource Corp. by Ashworth Explorations Ltd., during October 3 - 4, 1985.

Dickson,M.P.,P.Eng., Nov. 8, 1985: Report on the Black Panther, Black Lion Prospects, Mount McQuillan Area, Vancouver Island, B.C., for Lode Resource Corp., by Adtec Mining Consultants Inc.

Muller, J.E.,1977: Geology of Vancouver Island, GSC Open File 463; 3 map sheets and marginal notes.

Muller, J.E.,1980: The Paleozoic Sicker Group of Vancouver Island, B.C.; GSC Paper 79 - 80.

Sawyer, J.P.B.,1979: Report on Jan and Mar Claims, Mt. McQuillan area, Victoria M.D., B.C., for Jan Resources Ltd., by Sawyer Consultants Inc.

Sawyer, J.P.B. & House, G.D., 1983: Report on Property Exploration Programs in the Mount McQuillan - Mount Spencer Area, Victoria and Alberni M.D.'s Vancouver Island, B.C., for Jan Resources Ltd./April 25, (1983), by Sawyer Consultants Inc.

Stevenson, J.S., 1945: Geology and Ore Deposits of the China Creek Area, Vancouver Island, B.C., in Annual Report of B.C.M.M., 1944, pp A143 - A161.

APPENDIX:

GEOCHEMICAL LAB REPORT NO. 126-0727

BY

BONDAR - CLEGG & COMPANY LTD.

North Vancouver, B.C.

April 25, 1986

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

LODE RESOURCE CORPORATION.
MR. CLYDE ASHWORTH
ASHWORTH EXPLORATIONS LTD
1590-609 GRANVILLE ST.
VANCOUVER, B.C. V7Y 1C6

Bondar-Clegg & Company Ltd.
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Geochemical Lab Report

REPORT: 126-0727 (COMPLETE)

REFERENCE INFO:
JAN-MAR Claims, Mt. McQuillan, Vanc. Isl.

CLIENT: LODE RESOURCE CORPORATION.
PROJECT: JAN-MAR

SUBMITTED BY: C. ASHWORTH
DATE PRINTED: 25-APR-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	326	5 PPB	NOT APPLICABLE	IND. NEUTRON ACTIV.
2	Sb Antimony	326	0.2 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
3	As Arsenic	326	1 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
4	Ba Barium	326	100 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
5	Cd Cadmium	326	5 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
6	Cs Cesium	326	1 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
7	Cr Chromium	326	50 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
8	Co Cobalt	326	10 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
9	Eu Europium	326	2 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
10	Hf Hafnium	326	2 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
11	Ir Iridium	326	100 PPB	NOT APPLICABLE	IND. NEUTRON ACTIV.
12	Fe Iron	326	0.5 PCT	NOT APPLICABLE	IND. NEUTRON ACTIV.
13	La Lanthanum	326	5 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
14	Mo Molybdenum	326	2 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
15	Ni Nickel	326	50 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
16	Rb Rubidium	326	10 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
17	Sc Scandium	326	0.5 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
18	Se Selenium	326	10 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
19	Ag Silver	326	5 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
20	Ta Tantalum	326	1 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
21	Tb Terbium	326	1 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
22	Th Thorium	326	0.5 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
23	W Tungsten	326	2 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
24	U Uranium	326	0.5 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
25	Yb Ytterbium	326	5 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.
26	Zn Zinc	326	200 PPM	NOT APPLICABLE	IND. NEUTRON ACTIV.

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Geochemical Lab Report

REPORT: 126-0727 (COMPLETE)

REFERENCE INFO:

CLIENT: LODE RESOURCE CORPORATION.
PROJECT: JAN-MAR

SUBMITTED BY: C. ASHWORTH
DATE PRINTED: 25-APR-86

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	326	1 -80	326	DISAGGREGATE,SIFT-80	326
				ENCAPSULATION	326

REPORT COPIES TO: LODE RESOURCE CORP.
MR. CLYDE ASHWORTH

INVOICE TO: LODE RESOURCE CORP.

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Geochemical Lab Report

REPORT: 126-0727 PROJECT: JAN-MAR PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L0S 0+00		17	1.4	26	190	<10	2	290	26	3	<2	<100
S1 JM86 L0S 0+50E		72	1.7	39	210	<10	2	340	34	<2	<2	<100
S1 JM86 L0S 1+00E		10	0.8	5	<100	<10	1	170	20	2	<2	<100
S1 JM86 L0S 1+50E		<5	1.3	6	<100	<10	<1	160	16	<2	<2	<100
S1 JM86 L0S 2+00E		<5	0.8	5	<100	<10	2	180	22	<2	<2	<100
S1 JM86 L0S 2+50E		8	0.7	7	<100	<10	3	270	32	<2	<2	<100
S1 JM86 L0S 3+00E		26	0.7	6	<100	<10	<1	190	19	2	<2	<100
S1 JM86 L0S 3+50E	.03	~~1150~~ 45	0.8	7	<100	<10	1	240	20	<2	<2	<100
S1 JM86 L0S 4+00E		6	0.8	7	<100	<10	1	200	22	<2	<2	<100
S1 JM86 L0S 4+50E		<5	1.2	6	<100	<10	<1	190	20	<2	<2	<100
S1 JM86 L0S 5+00E		8	1.1	6	160	<10	1	150	13	<2	<2	<100
S1 JM86 L0S 5+50E		5	0.6	9	240	<10	3	190	39	<2	<2	<100
S1 JM86 L0S 6+00E		<5	0.8	5	<100	<10	<1	140	16	<2	<2	<100
S1 JM86 L0S 6+50E		17	0.9	9	<100	<10	<1	140	37	<2	<2	<100
S1 JM86 L0S 7+00E		<5	0.8	7	<100	<10	<1	150	30	<2	<2	<100
S1 JM86 L0S 7+50E		5	1.0	7	<100	<10	1	130	20	<2	<2	<100
S1 JM86 L1S 0+00		120	1.4	36	220	<10	2	360	31	<2	<2	<100
S1 JM86 L1S 0+50E		50	0.8	7	<100	<10	<1	230	21	<2	<2	<100
S1 JM86 L1S 1+00E		7	1.0	8	<100	<10	<1	210	26	<2	<2	<100
S1 JM86 L1S 1+50E		7	1.3	10	160	<10	2	180	33	<2	<2	<100
S1 JM86 L1S 2+00E		7	1.0	11	120	<10	2	280	46	<2	<2	<100
S1 JM86 L1S 2+50E		12	0.8	6	110	<10	1	230	41	<2	<2	<100
S1 JM86 L1S 3+00E		<5	0.9	9	120	<10	<1	190	23	<2	<2	<100
S1 JM86 L1S 3+50E		6	1.0	7	<100	<10	1	200	19	<2	<2	<100
S1 JM86 L1S 4+00E		8	0.7	6	<100	<10	<1	260	22	<2	<2	<100
S1 JM86 L1S 4+50E		8	0.7	5	120	<10	1	220	30	<2	2	<100
S1 JM86 L1S 5+00E		<5	0.7	4	110	<10	2	160	21	<2	<2	<100
S1 JM86 L1S 5+50E		9	0.8	7	<100	<10	1	190	20	<2	<2	<100
S1 JM86 L1S 6+00E		<5	0.8	6	<100	<10	<1	270	26	<2	<2	<100
S1 JM86 L1S 6+50E		7	1.3	5	<100	<10	1	92	18	<2	<2	<100
S1 JM86 L2S 0+00		11	1.4	7	<100	<10	<1	220	13	<2	<2	<100
S1 JM86 L2S 0+50E		5	1.0	7	140	<10	1	250	30	<2	<2	<100
S1 JM86 L2S 1+00E		7	1.1	10	130	<10	1	380	25	<2	2	<100
S1 JM86 L2S 1+50E		23	1.1	6	<100	<10	<1	250	19	<2	<2	<100
S1 JM86 L2S 2+00E		25	0.9	9	190	<10	1	270	28	<2	<2	<100
S1 JM86 L2S 2+50E		9	0.8	11	<100	<10	1	310	29	<2	<2	<100
S1 JM86 L2S 3+00E		<5	1.1	10	120	<10	1	250	39	<2	2	<100
S1 JM86 L2S 3+50		<5	0.7	7	<100	<10	<1	170	18	<2	<2	<100
S1 JM86 L2S 4+00E		17	0.8	8	<100	<10	<1	290	22	<2	<2	<100
S1 JM86 L2S 4+50E		<5	0.7	7	120	<10	3	190	33	<2	<2	<100

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Geochemical Lab Report

REPORT: 126-0727 PROJECT: JAN-MAR PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L0S 0+00		6.5	19	<2	61	<10	31.0	<10	<5	<1	2	2.9
S1 JM86 L0S 0+50E		6.6	9	<2	73	13	35.0	<10	<5	<1	<1	1.3
S1 JM86 L0S 1+00E		8.7	<5	<2	<50	<10	28.0	<10	<5	<1	<1	0.9
S1 JM86 L0S 1+50E		10.0	5	<2	<50	<10	29.0	<10	<5	<1	<1	1.0
S1 JM86 L0S 2+00E		10.0	5	<2	<50	<10	31.0	<10	<5	<1	<1	1.1
S1 JM86 L0S 2+50E		8.9	<5	<2	54	<10	36.0	<10	<5	<1	<1	0.8
S1 JM86 L0S 3+00E		6.2	<5	<2	<50	<10	25.0	<10	<5	<1	<1	0.6
S1 JM86 L0S 3+50E		11.0	<5	<2	<50	14	26.0	<10	<5	<1	<1	0.7
S1 JM86 L0S 4+00E		8.9	<5	<2	<50	<10	28.0	<10	<5	<1	<1	0.9
S1 JM86 L0S 4+50E		9.1	5	<2	<50	10	27.0	<10	<5	<1	<1	0.9
S1 JM86 L0S 5+00E		5.6	9	<2	<50	13	23.0	<10	<5	<1	<1	1.2
S1 JM86 L0S 5+50E		7.0	7	<2	52	<10	23.0	<10	<5	<1	<1	1.0
S1 JM86 L0S 6+00E		6.4	<5	<2	<50	<10	21.0	<10	<5	<1	<1	0.6
S1 JM86 L0S 6+50E		7.1	<5	<2	50	<10	35.0	<10	<5	<1	<1	<0.5
S1 JM86 L0S 7+00E		8.8	<5	<2	<50	14	32.0	<10	<5	<1	<1	0.5
S1 JM86 L0S 7+50E		13.0	<5	<2	<50	<10	24.0	<10	<5	<1	<1	0.8
S1 JM86 L1S 0+00		6.5	10	<2	71	19	30.0	<10	<5	<1	<1	1.2
S1 JM86 L1S 0+50E		8.7	5	<2	65	<10	30.0	<10	<5	<1	<1	1.0
S1 JM86 L1S 1+00E		6.6	<5	<2	<50	<10	26.0	<10	<5	<1	<1	0.8
S1 JM06 L1S 1+50E		5.9	7	<2	79	12	27.0	<10	<5	<1	<1	0.8
S1 JM86 L1S 2+00E		8.3	6	<2	85	<10	35.0	<10	<5	<1	<1	1.0
S1 JM86 L1S 2+50E		8.0	6	<2	53	<10	39.0	<10	<5	<1	<1	0.6
S1 JM86 L1S 3+00E		8.5	6	<2	<50	<10	29.0	<10	<5	<1	<1	1.2
S1 JM86 L1S 3+50E		7.9	8	<2	50	<10	29.0	<10	<5	<1	<1	1.1
S1 JM86 L1S 4+00E		7.3	<5	<2	51	<10	29.0	<10	<5	<1	<1	0.5
S1 JM86 L1S 4+50E		8.2	6	<2	58	<10	33.0	<10	<5	<1	<1	1.0
S1 JM86 L1S 5+00E		6.3	9	<2	<50	19	23.0	<10	<5	<1	<1	1.3
S1 JM86 L1S 5+50E		9.0	6	<2	<50	<10	29.0	<10	<5	<1	<1	0.9
S1 JM86 L1S 6+00E		8.6	<5	<2	<50	<10	32.0	<10	<5	<1	<1	0.6
S1 JM86 L1S 6+50E		6.2	8	<2	<50	<10	27.0	<10	<5	<1	<1	1.1
S1 JM86 L2S 0+00		5.8	11	<2	<50	<10	21.0	<10	<5	<1	<1	2.2
S1 JM86 L2S 0+50E		7.7	6	<2	71	<10	33.0	<10	<5	<1	<1	0.8
S1 JM86 L2S 1+00E		5.9	7	<2	51	<10	33.0	<10	<5	<1	<1	1.0
S1 JM86 L2S 1+50E		5.5	7	<2	<50	<10	24.0	<10	<5	<1	<1	1.4
S1 JM86 L2S 2+00E		6.8	8	<2	<50	<10	29.0	<10	<5	<1	<1	1.3
S1 JM86 L2S 2+50E		7.5	7	<2	<50	<10	29.0	<10	<5	<1	<1	1.0
S1 JM86 L2S 3+00E		7.3	12	<2	58	14	34.0	<10	<5	<1	<1	1.7
S1 JM86 L2S 3+50		8.8	<5	<2	<50	<10	25.0	<10	<5	<1	<1	1.1
S1 JM86 L2S 4+00E		14.0	<5	<2	<50	15	29.0	<10	<5	<1	<1	1.0
S1 JM86 L2S 4+50E		6.4	10	<2	65	<10	25.0	<10	<5	<1	<1	1.1

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 126-0727 PROJECT: JAN-MAR PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L0S 0+00		<2	2.0	<5	<200
S1 JM86 L0S 0+50E		3	<0.5	<5	<200
S1 JM86 L0S 1+00E		<2	<0.5	<5	<200
S1 JM86 L0S 1+50E		6	<0.5	<5	<200
S1 JM86 L0S 2+00E		<2	<0.5	<5	<200
S1 JM86 L0S 2+50E		<2	<0.5	<5	<200
S1 JM86 L0S 3+00E		<2	<0.5	<5	<200
S1 JM86 L0S 3+50E		<2	<0.5	<5	<200
S1 JM86 L0S 4+00E		<2	<0.5	<5	<200
S1 JM86 L0S 4+50E		<2	<0.5	<5	<200
S1 JM86 L0S 5+00E		<2	<0.5	<5	<200
S1 JM86 L0S 5+50E		<2	<0.5	<5	<200
S1 JM86 L0S 6+00E		<2	<0.5	<5	<200
S1 JM86 L0S 6+50E		<2	<0.5	<5	<200
S1 JM86 L0S 7+00E		<2	<0.5	<5	<200
S1 JM86 L0S 7+50E		<2	<0.5	<5	<200
S1 JM86 L1S 0+00		<2	0.6	<5	<200
S1 JM86 L1S 0+50E		<2	<0.5	<5	<200
S1 JM86 L1S 1+00E		<2	0.5	<5	<200
S1 JM86 L1S 1+50E		3	0.6	<5	<200
S1 JM86 L1S 2+00E		2	<0.5	<5	<200
S1 JM86 L1S 2+50E		<2	<0.5	<5	<200
S1 JM86 L1S 3+00E		<2	<0.5	<5	<200
S1 JM86 L1S 3+50E		<2	<0.5	<5	<200
S1 JM86 L1S 4+00E		<2	<0.5	<5	<200
S1 JM86 L1S 4+50E		3	<0.5	<5	<200
S1 JM86 L1S 5+00E		<2	<0.5	<5	<200
S1 JM86 L1S 5+50E		<2	<0.5	<5	<200
S1 JM86 L1S 6+00E		<2	<0.5	<5	<200
S1 JM86 L1S 6+50E		<2	<0.5	<5	<200
S1 JM86 L2S 0+00		<2	0.9	<5	<200
S1 JM86 L2S 0+50E		<2	<0.5	<5	<200
S1 JM86 L2S 1+00E		<2	0.7	<5	<200
S1 JM86 L2S 1+50E		<2	0.5	<5	<200
S1 JM86 L2S 2+00E		<2	0.7	<5	<200
S1 JM86 L2S 2+50E		2	<0.5	<5	<200
S1 JM86 L2S 3+00E		<2	0.8	<5	<200
S1 JM86 L2S 3+50		<2	<0.5	<5	<200
S1 JM86 L2S 4+00E		<2	<0.5	<5	<200
S1 JM86 L2S 4+50E		<2	0.6	<5	<200

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L2S 5+00E		<5	1.1	4	130	<10	3	210	26	<2	<2	<100
S1 JM86 L2S 5+50E		<5	1.3	10	<100	<10	2	190	28	<2	<2	<100
S1 JM86 L2S 6+00E		6	0.7	7	120	<10	<1	160	25	<2	<2	<100
S1 JM86 L2S 6+50E		5	0.9	7	<100	<10	<1	140	14	<2	2	<100
S1 JM86 L3S 0+00		<5	1.6	7	<100	<10	<1	300	18	<2	<2	<100
S1 JM86 L3S 0+50E		<5	1.2	7	<100	<10	1	290	16	<2	<2	<100
S1 JM86 L3S 1+00E		<5	1.3	9	<100	<10	2	290	27	<2	<2	<100
S1 JM86 L3S 1+50E		13	1.2	9	100	<10	<1	330	15	<2	<2	<100
S1 JM86 L3S 2+00E		<5	0.8	5	120	<10	<1	150	21	<2	<2	<100
S1 JM86 L3S 2+50E		26	0.9	11	120	<10	2	320	19	<2	3	<100
S1 JM86 L3S 3+00E		35	1.0	22	100	<10	2	260	20	<2	<2	<100
S1 JM86 L3S 3+50E		18	1.3	26	<100	<10	3	270	20	<2	<2	<100
S1 JM86 L3S 4+00E		8	1.0	21	<100	<10	3	370	25	3	<2	<100
S1 JM86 L3S 4+50E		<5	1.0	16	130	<10	4	370	29	<2	2	<100
S1 JM86 L3S 5+00E		5	0.9	17	<100	<10	1	290	32	<2	<2	<100
S1 JM86 L3S 5+50E		<5	1.0	14	120	<10	3	180	23	<2	2	<100
S1 JM86 L3S 6+00E		<5	0.9	6	<100	<10	<1	160	14	<2	3	<100
S1 JM86 L3S 6+50E		<5	1.0	17	<100	<10	<1	160	16	<2	3	<100
S1 JM86 L3S 7+00E		17	1.8	48	140	<10	5	330	23	<2	2	<100
S1 JM86 L3S 7+50E		<5	0.8	5	<100	<10	2	170	28	<2	<2	<100
S1 JM86 L4S 0+00		6	1.2	9	140	<10	2	290	26	<2	<2	<100
S1 JM86 L4S 0+50E		25	1.3	11	<100	<10	<1	290	28	2	<2	<100
S1 JM86 L4S 1+00E		60	1.2	9	110	<10	<1	300	21	<2	<2	<100
S1 JM86 L4S 1+50E		10	1.0	6	100	<10	<1	260	24	<2	<2	<100
S1 JM86 L4S 2+00E		<5	1.1	6	<100	<10	1	250	30	<2	2	<100
S1 JM86 L4S 2+50E		5	1.5	5	<100	<10	<1	250	24	<2	<2	<100
S1 JM86 L4S 3+00E		<5	0.8	6	<100	<10	<1	250	45	<2	<2	<100
S1 JM86 L4S 4+00E		7	1.3	8	110	<10	<1	230	18	2	2	<100
S1 JM86 L4S 4+50E		6	0.7	6	<100	<10	<1	190	21	<2	<2	<100
S1 JM86 L4S 5+00E		35	2.8	22	110	<10	2	240	21	<2	<2	<100
S1 JM86 L4S 5+50E		<5	1.0	5	<100	<10	<1	200	27	<2	<2	<100
S1 JM86 L4S 6+00E		<5	2.2	14	<100	<10	1	110	18	<2	3	<100
S1 JM86 L4S 6+50E		<5	0.7	3	110	<10	1	140	24	<2	<2	<100
S1 JM86 L4S 7+00E		<5	0.6	6	170	<10	2	180	26	<2	<2	<100
S1 JM86 L5S 0+00		<5	0.6	7	<100	<10	<1	280	17	<2	<2	<100
S1 JM86 L5S 0+50E		15	1.1	6	<100	<10	<1	260	22	<2	2	<100
S1 JM86 L5S 1+00E		<5	1.1	9	140	<10	<1	250	13	<2	<2	<100
S1 JM86 L5S 1+50E		<5	1.2	6	130	<10	2	300	29	<2	<2	<100
S1 JM86 L5S 2+00E		<5	1.4	5	250	<10	2	390	22	<2	2	<100
S1 JM86 L5S 2+50E		<5	0.8	7	<100	<10	2	310	31	<2	2	<100

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L2S 5+00E		5.9	12	<2	<50	<10	26.0	<10	<5	<1	<1	1.4
S1 JM86 L2S 5+50E		8.3	10	<2	<50	<10	29.0	<10	<5	<1	<1	1.8
S1 JM86 L2S 6+00E		8.8	6	<2	<50	<10	29.0	<10	<5	<1	<1	1.1
S1 JM86 L2S 6+50E		8.8	8	<2	<50	<10	27.0	<10	<5	<1	<1	1.1
S1 JM86 L3S 0+00		10.0	7	<2	<50	<10	31.0	<10	<5	<1	<1	1.7
S1 JM86 L3S 0+50E		10.0	6	<2	<50	<10	29.0	<10	<5	<1	<1	1.7
S1 JM86 L3S 1+00E		11.0	6	<2	61	<10	31.0	<10	<5	<1	<1	1.4
S1 JM86 L3S 1+50E		8.0	7	<2	<50	10	26.0	<10	<5	<1	<1	1.4
S1 JM86 L3S 2+00E		5.6	6	<2	<50	<10	25.0	<10	<5	<1	<1	1.0
S1 JM86 L3S 2+50E		7.4	11	<2	61	25	28.0	<10	<5	<1	<1	2.1
S1 JM86 L3S 3+00E		7.2	6	<2	<50	<10	28.0	<10	<5	<1	<1	1.2
S1 JM86 L3S 3+50E		10.0	7	<2	<50	<10	31.0	<10	<5	<1	<1	1.3
S1 JM86 L3S 4+00E		7.9	8	<2	<50	<10	35.0	<10	<5	<1	<1	1.4
S1 JM86 L3S 4+50E		8.1	8	<2	75	21	30.0	<10	<5	<1	<1	1.6
S1 JM86 L3S 5+00E		6.3	6	<2	<50	<10	29.0	<10	<5	<1	<1	0.6
S1 JM86 L3S 5+50E		6.9	7	<2	<50	<10	26.0	<10	<5	<1	<1	1.9
S1 JM86 L3S 6+00E		6.2	7	<2	<50	<10	25.0	<10	<5	<1	<1	1.2
S1 JM86 L3S 6+50E		7.8	7	<2	<50	<10	25.0	<10	<5	<1	<1	1.3
S1 JM86 L3S 7+00E		8.5	10	<2	<50	<10	40.0	<10	<5	<1	<1	1.8
S1 JM86 L3S 7+50E		7.8	7	<2	<50	16	27.0	<10	<5	<1	<1	1.3
S1 JM86 L4S 0+00		12.0	7	<2	<50	<10	30.0	<10	<5	<1	<1	1.0
S1 JM86 L4S 0+50E		9.1	9	<2	59	16	32.0	<10	<5	<1	<1	1.8
S1 JM86 L4S 1+00E		8.2	7	<2	52	<10	32.0	<10	<5	<1	<1	1.3
S1 JM86 L4S 1+50E		8.9	6	<2	64	<10	30.0	<10	<5	<1	<1	1.2
S1 JM86 L4S 2+00E		8.3	8	<2	61	11	34.0	<10	<5	<1	<1	1.5
S1 JM86 L4S 2+50E		8.4	8	<2	<50	<10	32.0	<10	<5	<1	<1	1.1
S1 JM86 L4S 3+00E		8.0	<5	<2	59	<10	34.0	<10	<5	<1	<1	0.6
S1 JM86 L4S 4+00E		12.0	6	<2	<50	<10	32.0	<10	<5	<1	<1	0.9
S1 JM86 L4S 4+50E		7.7	5	<2	<50	<10	31.0	<10	<5	<1	<1	1.1
S1 JM86 L4S 5+00E		10.0	8	<2	<50	27	30.0	<10	<5	<1	<1	1.6
S1 JM86 L4S 5+50E		12.0	<5	<2	53	17	34.0	<10	<5	<1	<1	0.9
S1 JM86 L4S 6+00E		14.0	7	<2	<50	<10	32.0	<10	<5	<1	<1	1.4
S1 JM86 L4S 6+50E		6.1	6	<2	<50	<10	27.0	<10	<5	<1	<1	0.9
S1 JM86 L4S 7+00E		6.9	5	<2	<50	<10	24.0	<10	<5	<1	<1	0.8
S1 JM86 L5S 0+00		8.0	5	<2	<50	<10	27.0	<10	<5	<1	<1	1.2
S1 JM86 L5S 0+50E		6.6	12	<2	60	<10	29.0	<10	<5	<1	<1	1.6
S1 JM86 L5S 1+00E		8.1	8	<2	51	<10	24.0	<10	<5	<1	<1	1.3
S1 JM86 L5S 1+50E		8.4	11	<2	<50	<10	29.0	<10	<5	<1	<1	2.2
S1 JM86 L5S 2+00E		9.2	17	<2	57	23	36.0	<10	<5	<1	<1	2.2
S1 JM86 L5S 2+50E		7.7	8	<2	63	<10	30.0	<10	<5	<1	<1	1.4

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L2S 5+00E		<2	0.6	<5	<200
S1 JM86 L2S 5+50E		<2	0.7	<5	<200
S1 JM86 L2S 6+00E		3	<0.5	<5	<200
S1 JM86 L2S 6+50E		<2	0.6	<5	<200
S1 JM86 L3S 0+00		<2	<0.5	<5	<200
S1 JM86 L3S 0+50E		2	0.6	<5	<200
S1 JM86 L3S 1+00E		<2	0.5	<5	<200
S1 JM86 L3S 1+50E		3	<0.5	<5	<200
S1 JM86 L3S 2+00E		<2	0.7	<5	<200
S1 JM86 L3S 2+50E		<2	2.7	<5	<200
S1 JM86 L3S 3+00E		3	0.5	<5	<200
S1 JM86 L3S 3+50E		2	0.6	<5	<200
S1 JM86 L3S 4+00E		<2	0.6	<5	<200
S1 JM86 L3S 4+50E		<2	0.6	<5	<200
S1 JM86 L3S 5+00E		<2	<0.5	<5	<200
S1 JM86 L3S 5+50E		2	0.5	<5	<200
S1 JM86 L3S 6+00E		<2	<0.5	<5	<200
S1 JM86 L3S 6+50E		<2	<0.5	<5	<200
S1 JM86 L3S 7+00E		<2	0.8	<5	<200
S1 JM86 L3S 7+50E		<2	<0.5	<5	<200
S1 JM86 L4S 0+00		<2	0.5	<5	<200
S1 JM86 L4S 0+50E		<2	0.6	<5	<200
S1 JM86 L4S 1+00E		2	0.6	<5	<200
S1 JM86 L4S 1+50E		<2	<0.5	<5	<200
S1 JM86 L4S 2+00E		<2	0.6	<5	<200
S1 JM86 L4S 2+50E		<2	0.6	<5	<200
S1 JM86 L4S 3+00E		<2	<0.5	<5	<200
S1 JM86 L4S 4+00E		<2	<0.5	<5	<200
S1 JM86 L4S 4+50E		<2	<0.5	<5	<200
S1 JM86 L4S 5+00E		2	<0.5	<5	<200
S1 JM86 L4S 5+50E		<2	<0.5	<5	<200
S1 JM86 L4S 6+00E		<2	0.6	<5	<200
S1 JM86 L4S 6+50E		<2	<0.5	<5	<200
S1 JM86 L4S 7+00E		<2	<0.5	<5	<200
S1 JM86 L5S 0+00		<2	<0.5	<5	<200
S1 JM86 L5S 0+50E		<2	1.2	<5	<200
S1 JM86 L5S 1+00E		<2	0.7	<5	<200
S1 JM86 L5S 1+50E		<2	1.0	<5	<200
S1 JM86 L5S 2+00E		<2	1.2	<5	<200
S1 JM86 L5S 2+50E		<2	0.9	<5	<200

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L5S 3+00E		7	1.0	5	<100	<10	2	300	26	<2	<2	<100
S1 JM86 L5S 3+50E		<5	1.1	3	230	<10	2	420	19	<2	<2	<100
S1 JM86 L5S 4+00E		<5	1.7	9	<100	<10	1	250	20	<2	<2	<100
S1 JM86 L5S 4+50E		<5	0.8	7	150	<10	3	280	44	<2	<2	<100
S1 JM86 L5S 5+00E		<5	0.9	7	100	<10	<1	190	33	<2	<2	<100
S1 JM86 L5S 5+50E		6	0.8	5	<100	<10	2	160	51	<2	<2	<100
S1 JM86 L5S 6+00E		<5	0.7	5	<100	<10	5	430	49	<2	<2	<100
S1 JM86 L5S 6+50E		7	1.0	5	<100	<10	<1	280	26	<2	<2	<100
S1 JM86 L6S 0+00		8	0.9	10	<100	<10	<1	310	22	<2	<2	<100
S1 JM86 L6S 0+50E		19	1.1	7	150	<10	<1	310	31	<2	<2	<100
S1 JM86 L6S 1+00E		<5	1.2	7	120	<10	<1	310	24	<2	<2	<100
S1 JM86 L6S 1+50E		6	1.2	9	120	<10	2	340	33	<2	<2	<100
S1 JM86 L6S 2+00E		8	1.3	11	100	<10	2	380	28	<2	<2	<100
S1 JM86 L6S 2+50E		7	1.3	5	400	<10	2	350	35	<2	<2	<100
S1 JM86 L6S 3+00E		<5	0.7	5	120	<10	<1	210	22	<2	<2	<100
S1 JM86 L6S 3+50E		7	1.3	7	130	<10	3	330	37	<2	<2	<100
S1 JM86 L6S 4+00E		<5	1.0	8	170	<10	5	370	43	2	<2	<100
S1 JM86 L6S 4+50E		<5	1.0	4	<100	<10	2	360	30	<2	<2	<100
S1 JM86 L6S 5+00E		<5	0.8	4	100	<10	2	230	65	<2	<2	<100
S1 JM86 L6S 5+50E		<5	0.5	4	<100	<10	<1	230	26	<2	<2	<100
S1 JM86 L6S 6+00E		<5	1.0	5	<100	<10	<1	180	19	<2	3	<100
S1 JM86 L6S 6+50E		8	0.7	7	<100	<10	3	150	36	<2	<2	<100
S1 JM86 L6S 7+00E		6	0.6	2	<100	<10	2	240	32	<2	<2	<100
S1 JM86 L7S 0+00		12	1.2	8	<100	<10	<1	310	17	<2	<2	<100
S1 JM86 L7S 0+50E		16	1.2	14	120	<10	<1	310	27	<2	<2	<100
S1 JM86 L7S 1+00E		6	1.1	7	<100	<10	<1	270	21	<2	<2	<100
S1 JM86 L7S 1+50E		<5	1.0	5	140	<10	2	390	45	<2	2	<100
S1 JM86 L7S 2+00E		<5	1.1	8	170	<10	1	340	35	<2	<2	<100
S1 JM86 L7S 2+50E		<5	1.0	6	180	<10	2	350	30	<2	<2	<100
S1 JM86 L7S 3+00E		<5	1.6	11	220	<10	3	290	61	<2	<2	<100
S1 JM86 L7S 3+50E		<5	1.0	7	210	<10	4	620	46	3	<2	<100
S1 JM86 L7S 4+00E		<5	1.0	5	150	<10	2	470	46	<2	<2	<100
S1 JM86 L7S 4+50E		7	1.5	8	130	<10	3	210	35	<2	3	<100
S1 JM86 L7S 5+00E		<5	0.9	6	<100	<10	1	350	19	<2	<2	<100
S1 JM86 L7S 5+50E		<5	2.0	5	110	<10	6	290	42	<2	<2	<100
S1 JM86 L7S 6+00E		<5	1.5	6	<100	<10	3	78	34	<2	2	<100
S1 JM86 L8S 0+00		6	1.1	6	160	<10	<1	350	40	<2	<2	<100
S1 JM86 L8S 0+50E		6	0.8	6	<100	<10	1	350	34	<2	2	<100
S1 JM86 L8S 1+00E		<5	1.5	7	320	<10	2	480	36	<2	<2	<100
S1 JM86 L8S 1+50E		<5	1.3	8	320	<10	2	550	37	3	2	<100

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L5S 3+00E		8.8	8	<2	68	13	33.0	<10	<5	<1	<1	1.5
S1 JM86 L5S 3+50E		7.7	13	<2	<50	16	35.0	<10	<5	<1	<1	1.9
S1 JM86 L5S 4+00E		10.0	6	<2	58	16	27.0	<10	<5	<1	<1	1.2
S1 JM86 L5S 4+50E		7.8	6	<2	71	<10	34.0	<10	<5	<1	<1	1.0
S1 JM86 L5S 5+00E		8.7	5	<2	<50	<10	33.0	<10	<5	<1	<1	1.0
S1 JM86 L5S 5+50E		8.1	<5	<2	51	<10	33.0	<10	<5	<1	<1	<0.5
S1 JM86 L5S 6+00E		6.9	<5	<2	140	19	39.0	<10	<5	<1	<1	<0.5
S1 JM86 L5S 6+50E		5.8	6	<2	53	<10	30.0	<10	<5	<1	<1	0.8
S1 JM86 L6S 0+00		7.7	7	<2	50	<10	28.0	<10	<5	<1	<1	1.3
S1 JM86 L6S 0+50E		7.6	7	<2	88	15	32.0	<10	<5	<1	<1	1.0
S1 JM86 L6S 1+00E		7.4	8	<2	54	<10	30.0	<10	<5	<1	<1	0.9
S1 JM86 L6S 1+50E		7.4	10	<2	71	20	32.0	<10	<5	<1	<1	1.4
S1 JM86 L6S 2+00E		7.2	8	<2	58	14	29.0	<10	<5	<1	<1	1.4
S1 JM86 L6S 2+50E		5.9	13	<2	<50	<10	33.0	<10	<5	<1	<1	1.1
S1 JM86 L6S 3+00E		7.8	<5	<2	<50	<10	24.0	<10	<5	<1	<1	1.3
S1 JM86 L6S 3+50E		7.2	12	<2	78	16	36.0	<10	<5	<1	<1	1.2
S1 JM86 L6S 4+00E		8.9	9	<2	110	18	27.0	<10	<5	<1	<1	1.5
S1 JM86 L6S 4+50E		9.4	10	<2	71	17	34.0	<10	<5	<1	<1	1.6
S1 JM86 L6S 5+00E		6.4	<5	<2	72	<10	31.0	<10	<5	<1	<1	0.6
S1 JM86 L6S 5+50E		13.0	<5	<2	52	<10	30.0	<10	<5	<1	<1	<0.5
S1 JM86 L6S 6+00E		8.1	8	<2	<50	<10	30.0	<10	<5	<1	<1	1.2
S1 JM86 L6S 6+50E		10.0	5	<2	<50	<10	27.0	<10	<5	<1	<1	0.9
S1 JM86 L6S 7+00E		6.9	5	<2	54	<10	33.0	<10	<5	<1	<1	1.1
S1 JM86 L7S 0+00		9.0	7	<2	<50	<10	28.0	<10	<5	<1	<1	1.3
S1 JM86 L7S 0+50E		6.7	8	<2	59	<10	36.0	<10	<5	<1	<1	1.0
S1 JM86 L7S 1+00E		7.7	6	<2	<50	13	30.0	<10	<5	<1	<1	1.1
S1 JM86 L7S 1+50E		6.8	15	<2	78	11	31.0	<10	<5	<1	<1	1.4
S1 JM86 L7S 2+00E		7.3	12	<2	82	11	31.0	<10	<5	<1	<1	1.5
S1 JM86 L7S 2+50E		7.6	11	<2	53	19	31.0	<10	<5	<1	<1	1.6
S1 JM86 L7S 3+00E		6.0	11	<2	80	<10	27.0	<10	<5	<1	<1	1.4
S1 JM86 L7S 3+50E		7.6	13	<2	150	23	46.0	<10	<5	<1	<1	1.6
S1 JM86 L7S 4+00E		8.3	9	<2	70	16	31.0	<10	<5	<1	<1	1.1
S1 JM86 L7S 4+50E		7.2	14	<2	53	23	27.0	<10	<5	<1	<1	1.6
S1 JM86 L7S 5+00E		8.2	10	<2	<50	<10	24.0	<10	<5	<1	<1	1.6
S1 JM86 L7S 5+50E		7.1	<5	<2	59	22	35.0	<10	<5	<1	<1	0.6
S1 JM86 L7S 6+00E		12.0	7	<2	<50	<10	34.0	<10	<5	<1	<1	1.0
S1 JM86 L8S 0+00		8.2	7	<2	97	12	42.0	<10	<5	<1	<1	1.0
S1 JM86 L8S 0+50E		7.4	7	<2	61	<10	31.0	<10	<5	<1	<1	1.5
S1 JM86 L8S 1+00E		7.1	18	<2	100	25	38.0	<10	<5	<1	<1	1.7
S1 JM86 L8S 1+50E		7.6	15	<2	96	35	35.0	<10	<5	<1	<1	2.2

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L5S 3+00E		<2	0.6	<5	<200
S1 JM86 L5S 3+50E		<2	1.1	<5	<200
S1 JM86 L5S 4+00E		4	<0.5	<5	<200
S1 JM86 L5S 4+50E		<2	<0.5	<5	<200
S1 JM86 L5S 5+00E		<2	<0.5	<5	<200
S1 JM86 L5S 5+50E		<2	<0.5	<5	<200
S1 JM86 L5S 6+00E		<2	<0.5	<5	<200
S1 JM86 L5S 6+50E		<2	<0.5	<5	<200
S1 JM86 L6S 0+00		<2	0.6	<5	<200
S1 JM86 L6S 0+50E		<2	0.6	<5	<200
S1 JM86 L6S 1+00E		<2	<0.5	<5	<200
S1 JM86 L6S 1+50E		<2	1.0	<5	<200
S1 JM86 L6S 2+00E		2	0.6	<5	<200
S1 JM86 L6S 2+50E		<2	1.3	<5	<200
S1 JM86 L6S 3+00E		<2	<0.5	<5	<200
S1 JM86 L6S 3+50E		<2	0.6	<5	<200
S1 JM86 L6S 4+00E		2	0.8	<5	<200
S1 JM86 L6S 4+50E		<2	0.6	<5	<200
S1 JM86 L6S 5+00E		<2	<0.5	<5	<200
S1 JM86 L6S 5+50E		<2	<0.5	<5	<200
S1 JM86 L6S 6+00E		<2	<0.5	<5	<200
S1 JM86 L6S 6+50E		<2	<0.5	<5	<200
S1 JM86 L6S 7+00E		<2	<0.5	<5	<200
S1 JM86 L7S 0+00		<2	0.6	<5	<200
S1 JM86 L7S 0+50E		<2	<0.5	<5	<200
S1 JM86 L7S 1+00E		<2	0.7	<5	<200
S1 JM86 L7S 1+50E		<2	0.8	<5	<200
S1 JM86 L7S 2+00E		<2	0.7	<5	<200
S1 JM86 L7S 2+50E		<2	0.6	<5	<200
S1 JM86 L7S 3+00E		<2	0.8	<5	<200
S1 JM86 L7S 3+50E		<2	1.0	<5	<200
S1 JM86 L7S 4+00E		<2	0.9	<5	<200
S1 JM86 L7S 4+50E		<2	1.0	<5	<200
S1 JM86 L7S 5+00E		<2	0.7	<5	<200
S1 JM86 L7S 5+50E		5	<0.5	<5	<200
S1 JM86 L7S 6+00E		<2	<0.5	<5	<200
S1 JM86 L8S 0+00		<2	<0.5	<5	<200
S1 JM86 L8S 0+50E		<2	0.5	<5	<200
S1 JM86 L8S 1+00E		<2	0.8	<5	<200
S1 JM86 L8S 1+50E		<2	1.0	<5	<200

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L8S 2+00E		<5	1.3	6	120	<10	2	560	28	<2	<2	<100
S1 JM86 L8S 2+50E		<5	1.2	6	110	<10	2	380	22	<2	<2	<100
S1 JM86 L8S 3+00E		<5	1.3	7	150	<10	2	360	35	<2	<2	<100
S1 JM86 L8S 3+50E		<5	1.5	9	240	<10	2	690	35	<2	<2	<100
S1 JM86 L8S 4+00E		<5	1.4	9	220	<10	4	640	46	3	2	<100
S1 JM86 L8S 4+50E		<5	1.5	7	280	<10	4	430	31	<2	<2	<100
S1 JM86 L8S 5+00E		<5	0.8	6	210	<10	5	500	38	<2	<2	<100
S1 JM86 L8S 5+50E		<5	1.2	2	<100	<10	<1	110	14	<2	2	<100
S1 JM86 L8S 6+00E		<5	1.4	3	<100	<10	3	160	24	<2	<2	<100
S1 JM86 L9S 0+00		<5	1.2	7	120	<10	1	270	19	<2	<2	<100
S1 JM86 L9S 0+50E		<5	1.6	7	<100	<10	<1	320	17	<2	2	<100
S1 JM86 L9S 1+00E		5	1.0	5	160	<10	<1	310	30	<2	<2	<100
S1 JM86 L9S 1+50E		<5	1.2	6	<100	<10	<1	350	11	<2	<2	<100
S1 JM86 L9S 2+00E		<5	1.5	5	<100	<10	2	370	36	<2	<2	<100
S1 JM86 L9S 2+50E		<5	1.5	5	140	<10	1	430	22	<2	<2	<100
S1 JM86 L9S 3+00E		<5	1.3	6	200	<10	<1	450	20	<2	2	<100
S1 JM86 L9S 3+50E		<5	1.6	6	230	<10	2	560	32	<2	<2	<100
S1 JM86 L9S 4+00E		11	1.8	7	350	<10	2	480	26	<2	<2	<100
S1 JM86 L9S 4+50E		<5	2.4	8	320	<10	2	370	15	2	3	<100
S1 JM86 L9S 5+00E		<5	1.0	10	230	<10	3	440	45	3	<2	<100
S1 JM86 L9S 5+50E		<5	1.6	7	330	<10	4	530	22	<2	<2	<100
S1 JM86 L9S 6+00E		6	1.4	6	<100	<10	3	250	40	<2	2	<100
S1 JM86 L10S 0+00		9	1.2	7	130	<10	<1	360	30	<2	<2	<100
S1 JM86 L10S 0+50E		5	2.2	14	320	<10	2	530	37	<2	2	<100
S1 JM86 L10S 1+00E		<5	2.0	12	310	<10	3	470	35	<2	<2	<100
S1 JM86 L10S 1+50E		7	2.2	10	340	<10	2	490	35	<2	<2	<100
S1 JM86 L10S 2+00E		<5	1.3	7	170	<10	<1	430	19	<2	<2	<100
S1 JM86 L10S 2+50E		9	1.6	10	210	<10	<1	300	11	<2	<2	<100
S1 JM86 L10S 3+00E		6	2.7	8	260	<10	2	520	34	<2	<2	<100
S1 JM86 L10S 3+50E		<5	2.4	7	240	<10	2	590	32	<2	<2	<100
S1 JM86 L10S 4+00E		<5	2.1	4	200	<10	2	390	11	<2	<2	<100
S1 JM86 L10S 4+50E		5	2.5	8	370	<10	3	450	28	<2	<2	<100
S1 JM86 L10S 5+00E		69	3.2	28	340	<10	4	130	11	5	3	<100
S1 JM86 L10S 5+50E		<5	1.2	23	180	<10	4	390	31	<2	<2	<100
S1 JM86 L10S 6+00E		39	1.1	5	<100	<10	2	130	31	4	2	<100
S1 JM86 L10S 6+50E		<5	1.0	4	160	<10	3	100	53	<2	3	<100
S1 JM86 L11S 0+00		<5	1.0	7	170	<10	<1	410	30	<2	<2	<100
S1 JM86 L11S 0+50E		<5	2.4	19	330	<10	3	240	16	<2	3	<100
S1 JM86 L11S 1+00E		<5	1.5	10	160	<10	2	210	19	<2	3	<100
S1 JM86 L11S 1+50E		9	2.3	10	340	<10	4	110	11	2	4	<100

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L8S 2+00E		7.6	12	<2	71	32	29.0	<10	<5	<1	<1	1.9
S1 JM86 L8S 2+50E		8.5	10	<2	62	25	34.0	<10	<5	<1	<1	1.5
S1 JM86 L8S 3+00E		7.6	9	<2	54	30	30.0	<10	<5	<1	<1	1.4
S1 JM86 L8S 3+50E		7.1	13	<2	97	17	31.0	<10	<5	<1	<1	1.5
S1 JM86 L8S 4+00E		8.5	19	<2	180	18	36.0	<10	<5	<1	1	1.5
S1 JM86 L8S 4+50E		8.0	17	<2	65	24	38.0	<10	<5	<1	<1	2.8
S1 JM86 L8S 5+00E		7.4	14	<2	89	20	41.0	<10	<5	<1	<1	1.5
S1 JM86 L8S 5+50E		7.4	7	<2	<50	<10	30.0	<10	<5	<1	<1	1.2
S1 JM86 L8S 6+00E		10.0	5	<2	<50	12	29.0	<10	<5	<1	<1	0.9
S1 JM86 L9S 0+00		7.2	7	<2	<50	<10	27.0	<10	<5	<1	<1	1.1
S1 JM86 L9S 0+50E		9.3	10	<2	<50	15	29.0	<10	<5	<1	<1	1.8
S1 JM86 L9S 1+00E		7.9	7	<2	68	<10	33.0	<10	<5	<1	<1	1.1
S1 JM86 L9S 1+50E		9.0	9	<2	<50	14	20.0	<10	<5	<1	<1	2.0
S1 JM86 L9S 2+00E		6.2	12	<2	69	24	26.0	<10	<5	<1	<1	2.3
S1 JM86 L9S 2+50E		7.8	11	<2	63	15	31.0	<10	<5	<1	<1	1.4
S1 JM86 L9S 3+00E		6.9	11	<2	<50	11	31.0	<10	<5	<1	<1	1.7
S1 JM86 L9S 3+50E		7.1	16	<2	76	29	28.0	<10	<5	<1	<1	2.1
S1 JM86 L9S 4+00E		6.6	25	<2	58	27	28.0	<10	<5	<1	<1	3.4
S1 JM86 L9S 4+50E		6.6	26	<2	52	40	24.0	<10	<5	<1	<1	5.2
S1 JM86 L9S 5+00E		7.9	23	<2	100	17	50.3	<10	<5	<1	1	1.9
S1 JM86 L9S 5+50E		12.0	12	<2	63	47	37.0	<10	<5	<1	<1	1.8
S1 JM86 L9S 6+00E		7.9	12	<2	61	16	31.0	<10	<5	<1	<1	1.4
S1 JM86 L10S 0+00		8.4	10	<2	79	10	35.0	<10	<5	<1	<1	1.5
S1 JM86 L10S 0+50E		8.2	20	<2	140	29	38.0	<10	<5	<1	<1	2.1
S1 JM86 L10S 1+00E		8.1	16	<2	110	29	33.0	<10	<5	<1	<1	2.1
S1 JM86 L10S 1+50E		8.5	14	<2	95	32	32.0	<10	<5	<1	<1	2.1
S1 JM86 L10S 2+00E		7.1	10	<2	64	13	25.0	<10	<5	<1	<1	1.5
S1 JM86 L10S 2+50E		5.2	13	<2	<50	<10	21.0	<10	<5	<1	<1	1.7
S1 JM86 L10S 3+00E		8.9	14	<2	97	25	37.0	<10	<5	<1	<1	1.8
S1 JM86 L10S 3+50E		7.7	16	<2	59	39	33.0	<10	<5	<1	<1	2.5
S1 JM86 L10S 4+00E		5.0	22	<2	<50	35	23.0	<10	<5	<1	<1	3.9
S1 JM86 L10S 4+50E		8.9	21	<2	91	72	27.0	<10	<5	<1	<1	4.2
S1 JM86 L10S 5+00E		8.0	58	<2	<50	54	22.0	<10	<5	<1	1	6.1
S1 JM86 L10S 5+50E		8.2	13	<2	57	<12	28.0	<10	<5	<1	1	2.3
S1 JM86 L10S 6+00E		10.0	8	<2	<50	<11	23.0	<10	<5	<1	<1	1.4
S1 JM86 L10S 6+50E		6.7	11	<2	<50	<10	20.0	<10	<5	<1	<1	1.7
S1 JM86 L11S 0+00		8.4	12	<2	93	10	32.0	<10	<5	<1	<1	1.5
S1 JM86 L11S 0+50E		6.9	26	<2	53	28	24.0	<10	<5	<1	<1	4.4
S1 JM86 L11S 1+00E		8.5	14	<2	<50	15	22.0	<10	<5	<1	<1	3.0
S1 JM86 L11S 1+50E		5.4	35	<2	<50	29	22.0	<10	<5	<1	<1	6.0

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L8S 2+00E		<2	0.8	<5	<200
S1 JM86 L8S 2+50E		<2	0.7	<5	<200
S1 JM86 L8S 3+00E		<2	0.9	<5	<200
S1 JM86 L8S 3+50E		<2	1.2	<5	<200
S1 JM86 L8S 4+00E		<2	1.0	<5	<200
S1 JM86 L8S 4+50E		<2	0.8	<5	<200
S1 JM86 L8S 5+00E		<2	0.8	<5	<200
S1 JM86 L8S 5+50E		<2	<0.5	<5	<200
S1 JM86 L8S 6+00E		<2	<0.5	<5	<200
S1 JM86 L9S 0+00		<2	<0.5	<5	<200
S1 JM86 L9S 0+50E		3	0.8	<5	<200
S1 JM86 L9S 1+00E		<2	0.8	<5	<200
S1 JM86 L9S 1+50E		<2	0.8	<5	<200
S1 JM86 L9S 2+00E		<2	0.6	<5	<200
S1 JM86 L9S 2+50E		<2	0.6	<5	<200
S1 JM86 L9S 3+00E		<2	1.0	<5	<200
S1 JM86 L9S 3+50E		<2	0.7	<5	<200
S1 JM86 L9S 4+00E		<2	1.0	<5	<200
S1 JM86 L9S 4+50E		<2	1.8	<5	<200
S1 JM86 L9S 5+00E		<2	0.8	<5	<200
S1 JM86 L9S 5+50E		3	0.7	<5	<200
S1 JM86 L9S 6+00E		3	0.6	<5	<200
S1 JM86 L10S 0+00		<2	0.7	<5	<200
S1 JM86 L10S 0+50E		<2	0.9	<5	<200
S1 JM86 L10S 1+00E		<2	0.9	<5	<200
S1 JM86 L10S 1+50E		<2	0.8	<5	<200
S1 JM86 L10S 2+00E		<2	<0.5	<5	<200
S1 JM86 L10S 2+50E		<2	0.8	<5	<200
S1 JM86 L10S 3+00E		<2	0.7	<5	<200
S1 JM86 L10S 3+50E		<2	0.8	<5	<200
S1 JM86 L10S 4+00E		<2	1.1	<5	<200
S1 JM86 L10S 4+50E		<2	1.4	<5	<200
S1 JM86 L10S 5+00E		2	1.7	<5	<200
S1 JM86 L10S 5+50E		2	0.7	<5	<200
S1 JM86 L10S 6+00E		<2	<0.5	<5	<200
S1 JM86 L10S 6+50E		<2	0.6	5	<200
S1 JM86 L11S 0+00		<2	0.7	<5	<200
S1 JM86 L11S 0+50E		<2	1.4	<5	<200
S1 JM86 L11S 1+00E		<2	1.0	<5	<200
S1 JM86 L11S 1+50E		2	2.2	<5	<200

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Geochemical Lab Report

REPORT: 126-0727

PROJECT: JAN-MAR

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
SI JM86 L11S 2+00E		8	2.7	12	420	<10	3	500	23	<2	3	<100
SI JM86 L11S 2+50E		<5	2.2	24	340	<10	2	310	40	<2	<2	<100
SI JM86 L11S 3+00E		<5	1.6	12	180	<10	2	1000	61	<2	<2	<100
SI JM86 L11S 3+50E		6	2.3	6	310	<10	3	370	27	<2	<2	<100
SI JM86 L11S 4+00E		<5	3.8	10	390	<10	3	550	25	2	2	<100
SI JM86 L11S 4+50E		<5	3.3	9	320	<10	4	560	17	3	3	<100
SI JM86 L11S 5+00E		<5	3.5	8	340	<10	6	620	18	<2	2	<100
SI JM86 L11S 5+50E		<5	1.0	6	300	<10	3	84	21	2	3	<100
SI JM86 L11S 6+00E		<5	1.1	4	330	<10	3	75	11	<2	<2	<100
SI JM86 L12S 0+00		8	1.3	12	190	<10	3	250	27	<2	3	<100
SI JM86 L12S 0+50E		18	2.1	62	250	<10	2	98	<10	<2	3	<100
SI JM86 L12S 1+00E		<5	2.8	7	250	<10	4	98	<10	<2	4	<100
SI JM86 L12S 1+50E		11	2.4	11	320	<10	2	170	18	<2	3	<100
SI JM86 L12S 2+00E		7	1.8	11	170	<10	3	190	23	<2	<2	<100
SI JM86 L12S 2+50E		23	3.4	19	430	<10	2	230	32	5	2	<100
SI JM86 L12S 3+00E		<5	1.7	10	250	<10	<1	300	14	<2	3	<100
SI JM86 L12S 3+50E		<5	2.4	5	210	<10	<1	470	29	<2	<2	<100
SI JM86 L12S 4+00E		17	2.7	9	400	<10	2	490	40	2	<2	<100
SI JM86 L12S 4+50E		<5	2.9	22	300	<10	2	180	13	<2	2	<100
SI JM86 L12S 5+00E		<5	2.5	7	180	<10	3	2900	61	<2	<2	<100
SI JM86 L12S 5+50E		<5	1.0	20	220	<10	3	260	29	<2	3	<100
SI JM86 L12S 6+00E		<5	0.7	4	420	<10	5	65	25	<2	2	<100
SI JM86 L13S 0+00		<5	1.5	8	180	<10	<1	140	12	<2	4	<100
SI JM86 L13S 0+50E		<5	2.3	8	230	<10	2	99	15	<2	4	<100
SI JM86 L13S 1+00E		<5	1.8	5	170	<10	1	68	<10	<2	4	<100
SI JM86 L13S 1+50E		<5	1.9	15	220	<10	3	170	19	<2	<2	<100
SI JM86 L13S 2+00E		<5	2.5	10	540	<10	2	130	16	2	3	<100
SI JM86 L13S 2+50E		8	1.5	8	120	<10	<1	170	14	<2	2	<100
SI JM86 L13S 3+00E		10	1.1	7	190	<10	2	960	42	<2	<2	<100
SI JM86 L13S 3+50E		<5	1.8	6	200	<10	2	1000	27	2	<2	<100
SI JM86 L13S 4+00E		15	3.4	11	600	<10	4	420	42	3	<2	<100
SI JM86 L13S 4+50E		<5	2.7	14	280	<10	2	540	32	<2	3	<100
SI JM86 L13S 5+00E		62	5.5	13	220	<10	3	320	19	<2	5	<100
SI JM86 L13S 5+50E		<5	0.8	6	<100	<10	2	300	16	3	<2	<100
SI JM86 L13S 6+00E		<5	0.7	4	220	<10	2	230	21	<2	<2	<100
SI JM86 L14S 0+00E		<5	1.1	8	280	<10	3	390	28	3	<2	<100
SI JM86 L14S 0+50E		<5	1.9	5	130	<10	<1	280	<10	<2	3	<100
SI JM86 L14S 1+00E		<5	1.6	11	120	<10	2	140	13	<2	2	<100
SI JM86 L14S 1+50E		<5	2.5	25	150	<10	2	110	<10	<2	5	<100
SI JM86 L14S 2+00E		15	4.0	75	490	<10	2	130	17	<2	2	<100

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L11S 2+00E		8.2	34	<2	72	56	31.0	<10	<5	<1	<1	4.3
S1 JM86 L11S 2+50E		12.0	13	<2	120	33	30.0	<10	<5	<1	<1	1.6
S1 JM86 L11S 3+00E		8.7	21	<2	330	21	41.0	<10	<5	<1	<1	1.9
S1 JM86 L11S 3+50E		8.5	11	<2	55	25	29.0	<10	<5	<1	<1	1.5
S1 JM86 L11S 4+00E		11.0	24	<2	73	61	37.0	<10	<5	<1	<1	3.2
S1 JM86 L11S 4+50E		8.2	27	<2	72	57	31.0	<10	<5	<1	<1	3.8
S1 JM86 L11S 5+00E		12.0	23	<2	86	52	29.0	<10	<5	<1	<1	3.7
S1 JM86 L11S 5+50E		6.1	13	<2	<50	37	19.0	<10	<5	<1	<1	2.3
S1 JM86 L11S 6+00E		4.4	11	<2	<50	35	22.0	<10	<5	<1	<1	2.6
S1 JM86 L12S 0+00		7.0	16	<2	<50	26	23.0	<10	<5	<1	<1	2.9
S1 JM86 L12S 0+50E		4.0	24	<2	<50	22	18.0	<10	<5	<1	<1	4.6
S1 JM86 L12S 1+00E		4.5	31	<2	<50	51	19.0	<10	<5	<1	<1	4.5
S1 JM86 L12S 1+50E		6.4	24	<2	<50	27	26.0	<10	<5	<1	<1	3.2
S1 JM86 L12S 2+00E		8.1	15	<2	<50	29	28.0	<10	<5	<1	<1	2.4
S1 JM86 L12S 2+50E		10.0	33	<2	<50	32	35.0	<10	<5	<1	1	3.1
S1 JM86 L12S 3+00E		8.3	12	<2	<50	15	26.0	<10	<5	<1	<1	2.0
S1 JM86 L12S 3+50E		6.6	15	<2	<50	12	33.0	<10	<5	<1	<1	2.4
S1 JM86 L12S 4+00E		10.0	22	<2	87	34	54.2	<10	<5	<1	1	1.9
S1 JM86 L12S 4+50E		7.3	14	7	<50	16	25.0	<10	<5	<1	<1	1.7
S1 JM86 L12S 5+00E		12.0	5	<2	380	30	46.0	<10	<5	<1	<1	1.5
S1 JM86 L12S 5+50E		6.1	16	<2	<50	36	25.0	<10	<5	<1	<1	2.3
S1 JM86 L12S 6+00E		7.0	16	<2	<50	61	23.0	<10	<5	<1	<1	2.3
S1 JM86 L13S 0+00		5.0	18	<2	<50	19	21.0	<10	<5	<1	<1	3.2
S1 JM86 L13S 0+50E		5.5	32	<2	<50	38	22.0	<10	<5	<1	<1	5.4
S1 JM86 L13S 1+00E		2.8	20	<2	<50	13	17.0	<10	<5	1	<1	4.8
S1 JM86 L13S 1+50E		7.3	17	<2	<50	36	29.0	<10	<5	<1	<1	3.4
S1 JM86 L13S 2+00E		6.2	32	<2	<50	31	27.0	<10	<5	<1	1	3.5
S1 JM86 L13S 2+50E		8.0	13	<2	<50	12	23.0	<10	<5	<1	<1	2.4
S1 JM86 L13S 3+00E		7.1	18	<2	160	14	31.0	<10	<5	<1	<1	2.2
S1 JM86 L13S 3+50E		7.3	18	<2	120	17	32.0	<10	<5	1	<1	2.9
S1 JM86 L13S 4+00E		9.3	22	<2	83	53	42.0	<10	<5	<1	<1	2.3
S1 JM86 L13S 4+50E		8.6	19	<2	77	28	35.0	<10	<5	<1	<1	3.0
S1 JM86 L13S 5+00E		8.4	15	<2	<50	45	26.0	<10	<5	1	<1	2.2
S1 JM86 L13S 5+50E		7.7	19	<2	<50	<12	36.0	<10	<5	<1	<1	2.4
S1 JM86 L13S 6+00E		7.4	15	<2	55	<10	22.0	<10	<5	<1	<1	2.1
S1 JM86 L14S 0+00E		6.7	13	<2	62	42	27.0	<10	<5	<1	<1	2.3
S1 JM86 L14S 0+50E		5.2	19	<2	<50	10	27.0	<10	<5	<1	<1	3.5
S1 JM86 L14S 1+00E		5.8	15	<2	<50	25	23.0	<10	<5	<1	<1	3.6
S1 JM86 L14S 1+50E		6.0	22	<2	<50	27	24.0	<10	<5	<1	<1	4.3
S1 JM86 L14S 2+00E		6.0	30	<2	<50	45	25.0	<10	<5	<1	1	3.6

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L11S 2+00E		3	1.5	<5	<200
S1 JM86 L11S 2+50E		<2	1.1	<5	<200
S1 JM86 L11S 3+00E		<2	0.6	<5	<200
S1 JM86 L11S 3+50E		<2	0.6	<5	<200
S1 JM86 L11S 4+00E		<2	1.0	<5	<200
S1 JM86 L11S 4+50E		<2	1.3	<5	<200
S1 JM86 L11S 5+00E		<2	1.0	<5	<200
S1 JM86 L11S 5+50E		3	1.2	<5	<200
S1 JM86 L11S 6+00E		<2	0.8	<5	<200
S1 JM86 L12S 0+00		<2	1.2	<5	<200
S1 JM86 L12S 0+50E		<2	1.2	<5	<200
S1 JM86 L12S 1+00E		<2	1.5	<5	<200
S1 JM86 L12S 1+50E		<2	1.0	<5	<200
S1 JM86 L12S 2+00E		<2	0.8	<5	<200
S1 JM86 L12S 2+50E		<2	1.0	<5	<200
S1 JM86 L12S 3+00E		<2	1.0	<5	<200
S1 JM86 L12S 3+50E		<2	0.9	<5	<200
S1 JM86 L12S 4+00E		<2	<0.5	<5	<200
S1 JM86 L12S 4+50E		<2	1.1	<5	<200
S1 JM86 L12S 5+00E		2	0.9	<5	<200
S1 JM86 L12S 5+50E		<2	1.7	<5	<200
S1 JM86 L12S 6+00E		<2	1.1	<5	<200
S1 JM86 L13S 0+00		<2	1.1	<5	<200
S1 JM86 L13S 0+50E		<2	1.5	<5	<200
S1 JM86 L13S 1+00E		<2	1.4	<5	<200
S1 JM86 L13S 1+50E		<2	1.0	<5	<200
S1 JM86 L13S 2+00E		<2	1.2	<5	<200
S1 JM86 L13S 2+50E		<2	0.8	<5	<200
S1 JM86 L13S 3+00E		<2	1.2	<5	<200
S1 JM86 L13S 3+50E		<2	1.4	<5	<200
S1 JM86 L13S 4+00E		<2	0.7	<5	<200
S1 JM86 L13S 4+50E		<2	1.3	<5	<200
S1 JM86 L13S 5+00E		7	1.8	<5	<200
S1 JM86 L13S 5+50E		<2	1.7	<5	<200
S1 JM86 L13S 6+00E		<2	0.8	<5	<200
S1 JM86 L14S 0+00E		<2	0.8	<5	<200
S1 JM86 L14S 0+50E		2	1.1	<5	<200
S1 JM86 L14S 1+00E		<2	1.1	<5	<200
S1 JM86 L14S 1+50E		<2	1.4	<5	<200
S1 JM86 L14S 2+00E		<2	1.2	<5	<200

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L14S 2+50E		<5	3.1	9	470	<10	2	110	12	<2	3	<100
S1 JM86 L14S 3+00E		<5	1.4	3	300	<10	3	100	10	<2	4	<100
S1 JM86 L14S 3+50E		<5	2.0	5	230	<10	1	410	21	<2	<2	<100
S1 JM86 L14S 4+00E		<5	3.5	9	280	<10	3	730	27	<2	<2	<100
S1 JM86 L14S 4+50E		<5	3.7	[illegible]	300	<10	3	1200	18	<2	<2	<100
S1 JM86 L14S 5+00E		<5	2.8	7	230	<10	2	520	18	<2	3	<100
S1 JM86 L14S 5+50E		<5	3.1	7	260	<10	5	360	31	<2	<2	<100
S1 JM86 L14S 6+00E		<5	1.9	6	230	<10	3	360	28	<2	<2	<100
S1 JM86 L14S 6+50E		<5	0.8	4	240	<10	2	96	15	<2	3	<100
S1 JM86 L15S 0+00		<5	1.7	9	150	<10	2	320	14	<2	2	<100
S1 JM86 L15S 0+50E		<5	1.7	7	150	<10	<1	190	10	<2	<2	<100
S1 JM86 L15S 1+00E		9	2.4	25	210	<10	2	320	26	2	<2	<100
S1 JM86 L15S 1+50E		<5	2.3	108	310	<10	4	250	29	<2	<2	<100
S1 JM86 L15S 2+00E		<5	2.0	7	250	<10	2	65	<10	<2	3	<100
S1 JM86 L15S 2+50E		36	2.4	10	300	<10	1	<50	<10	2	4	<100
S1 JM86 L15S 3+00E		<5	1.2	5	160	<10	2	200	19	<2	3	<100
S1 JM86 L15S 3+50E		<5	2.6	5	550	<10	2	130	<10	<2	4	<100
S1 JM86 L15S 4+00E		5	1.7	3	220	<10	2	220	12	<2	4	<100
S1 JM86 L15S 4+50E		<5	1.2	4	240	<10	2	870	28	<2	2	<100
S1 JM86 L15S 5+00E		12	4.0	[illegible]	370	<10	2	280	29	<2	2	<100
S1 JM86 L15S 5+50E		10	0.6	2	320	<10	2	660	30	<2	<2	<100
S1 JM86 L15S 6+00E		<5	0.5	2	<100	<10	2	410	36	<2	<2	<100
S1 JM86 L15S 6+50E		15	1.0	4	<100	<10	3	370	21	<2	<2	<100
S1 JM86 L15S 7+00E		<5	0.8	4	170	<10	2	240	34	<2	2	<100
S1 JM86 L16S 0+00		8	2.0	4	210	<10	<1	270	<10	<2	<2	<100
S1 JM86 L16S 0+50E		<5	1.1	9	170	<10	2	290	21	<2	2	<100
S1 JM86 L16S 1+00E		<5	2.2	7	120	<10	<1	330	16	<2	2	<100
S1 JM86 L16S 1+50E		<5	5.6	27	340	<10	4	310	34	<2	<2	<100
S1 JM86 L16S 2+00E		<5	2.2	10	170	<10	1	240	13	<2	<2	<100
S1 JM86 L16S 2+50E		<5	1.9	5	240	<10	2	160	20	<2	3	<100
S1 JM86 L16S 3+00E		6	1.2	5	290	<10	2	390	12	2	2	<100
S1 JM86 L16S 3+50E		<5	2.2	3	340	<10	1	250	11	<2	3	<100
S1 JM86 L16S 4+00E		<5	1.2	[illegible]	100	<10	<1	220	16	<2	3	<100
S1 JM86 L16S 4+50E		<5	1.9	5	150	<10	3	690	15	<2	2	<100
S1 JM86 L16S 5+00E		<5	2.5	[illegible]	320	<10	12	480	38	2	3	<100
S1 JM86 L16S 5+50E		17	1.4	4	150	<10	2	490	26	<2	<2	<100
S1 JM86 L16S 6+00E		<5	1.5	[illegible]	140	<10	<1	380	15	<2	<2	<100
S1 JM86 L16S 6+50E		<5	0.7	[illegible]	190	<10	2	330	23	<2	2	<100
S1 JM86 L16S 7+00E		<5	1.0	2	<100	<10	2	290	22	<2	<2	<100
S1 JM86 L16S 7+50E		6	0.7	4	<100	<10	2	260	22	<2	<2	<100

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L14S 2+50E		6.2	17	<2	<50	47	23.0	<10	<5	<1	<1	3.0
S1 JM86 L14S 3+00E		3.7	27	<2	<50	24	18.0	<10	<5	<1	<1	4.4
S1 JM86 L14S 3+50E		6.8	9	<2	56	40	30.0	<10	<5	<1	<1	1.7
S1 JM86 L14S 4+00E		11.0	14	<2	120	39	42.0	<10	<5	<1	<1	2.4
S1 JM86 L14S 4+50E		6.7	19	<2	110	42	31.0	<10	<5	<1	<1	2.5
S1 JM86 L14S 5+00E		6.9	14	<2	63	19	30.0	<10	<5	<1	<1	2.2
S1 JM86 L14S 5+50E		7.1	16	<2	79	15	35.0	<10	<5	<1	<1	2.1
S1 JM86 L14S 6+00E		6.5	15	<2	61	14	32.0	<10	<5	<1	<1	2.3
S1 JM86 L14S 6+50E		5.6	15	<2	<50	42	20.0	<10	<5	<1	<1	3.0
S1 JM86 L15S 0+00		8.8	11	<2	50	22	24.0	<10	<5	<1	<1	2.5
S1 JM86 L15S 0+50E		6.4	16	<2	<50	<10	26.0	<10	<5	<1	<1	2.6
S1 JM86 L15S 1+00E		8.1	13	<2	55	15	29.0	<10	<5	<1	<1	2.4
S1 JM86 L15S 1+50E		9.0	15	<2	65	35	26.0	<10	<5	<1	<1	2.6
S1 JM86 L15S 2+00E		4.0	26	<2	<50	18	20.0	<10	<5	<1	<1	4.9
S1 JM86 L15S 2+50E		4.7	26	<2	<50	32	20.0	<10	<5	<1	<1	4.3
S1 JM86 L15S 3+00E		7.4	14	<2	<50	29	28.0	<10	<5	<1	<1	2.5
S1 JM86 L15S 3+50E		4.4	42	<2	<50	91	20.0	<10	<5	<1	<1	6.6
S1 JM86 L15S 4+00E		5.6	22	<2	<50	36	27.0	<10	<5	<1	<1	3.9
S1 JM86 L15S 4+50E		6.9	17	<2	130	29	34.0	<10	<5	<1	<1	2.8
S1 JM86 L15S 5+00E		5.8	16	<2	68	38	25.0	<10	<5	<1	<1	2.5
S1 JM86 L15S 5+50E		7.7	14	<2	90	51	41.0	<10	<5	<1	<1	1.4
S1 JM86 L15S 6+00E		8.5	13	<2	60	12	33.0	<10	<5	<1	<1	2.1
S1 JM86 L15S 6+50E		5.9	16	<2	<50	26	27.0	<10	<5	<1	<1	2.2
S1 JM86 L15S 7+00E		8.0	12	<2	66	13	34.0	<10	<5	<1	<1	1.4
S1 JM86 L16S 0+00		3.3	13	<2	<50	15	23.0	<10	<5	<1	<1	2.3
S1 JM86 L16S 0+50E		7.4	11	<2	55	27	29.0	<10	<5	<1	<1	2.3
S1 JM86 L16S 1+00E		4.0	16	<2	<50	<10	26.0	<10	<5	<1	<1	2.6
S1 JM86 L16S 1+50E		15.0	17	<2	84	50	35.0	<10	<5	<1	<1	1.9
S1 JM86 L16S 2+00E		5.1	14	<2	<50	26	26.0	<10	<5	<1	<1	3.3
S1 JM86 L16S 2+50E		5.4	20	<2	<50	30	24.0	<10	<5	<1	<1	3.2
S1 JM86 L16S 3+00E		5.6	20	<2	56	32	24.0	<10	<5	<1	<1	3.4
S1 JM86 L16S 3+50E		5.3	22	<2	<50	32	31.0	<10	<5	<1	<1	2.7
S1 JM86 L16S 4+00E		5.5	10	<2	<50	11	30.0	<10	<5	<1	<1	1.6
S1 JM86 L16S 4+50E		6.6	13	<2	80	16	27.0	<10	<5	<1	<1	2.1
S1 JM86 L16S 5+00E		7.4	37	<2	110	57	44.0	<10	<5	1	2	1.4
S1 JM86 L16S 5+50E		8.1	10	<2	76	18	30.0	<10	<5	<1	<1	1.4
S1 JM86 L16S 6+00E		6.4	13	<2	<50	17	31.0	<10	<5	<1	<1	1.7
S1 JM86 L16S 6+50E		8.0	17	<2	63	16	33.0	<10	<5	<1	<1	2.5
S1 JM86 L16S 7+00E		10.0	11	<2	<50	25	32.0	<10	<5	<1	<1	1.9
S1 JM86 L16S 7+50E		9.5	8	<2	67	16	22.0	<10	<5	<1	<1	1.3

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L14S 2+50E		<2	1.0	<5	<200
S1 JM86 L14S 3+00E		<2	1.3	<5	<200
S1 JM86 L14S 3+50E		<2	0.7	<5	<200
S1 JM86 L14S 4+00E		<2	0.7	<5	<200
S1 JM86 L14S 4+50E		<2	0.8	<5	<200
S1 JM86 L14S 5+00E		2	0.8	<5	<200
S1 JM86 L14S 5+50E		<2	0.8	<5	<200
S1 JM86 L14S 6+00E		<2	0.7	<5	<200
S1 JM86 L14S 6+50E		<2	0.9	<5	<200
S1 JM86 L15S 0+00		<2	1.1	<5	<200
S1 JM86 L15S 0+50E		<2	0.8	<5	<200
S1 JM86 L15S 1+00E		<2	0.9	<5	<200
S1 JM86 L15S 1+50E		<2	0.8	<5	<200
S1 JM86 L15S 2+00E		<2	1.5	<5	<200
S1 JM86 L15S 2+50E		<2	1.6	<5	<200
S1 JM86 L15S 3+00E		<2	0.8	<5	<200
S1 JM86 L15S 3+50E		<2	1.7	<5	<200
S1 JM86 L15S 4+00E		<2	1.4	<5	<200
S1 JM86 L15S 4+50E		<2	1.1	<5	<200
S1 JM86 L15S 5+00E		<2	0.9	<5	<200
S1 JM86 L15S 5+50E		<2	1.0	<5	<200
S1 JM86 L15S 6+00E		<2	0.8	<5	<200
S1 JM86 L15S 6+50E		<2	1.0	<5	<200
S1 JM86 L15S 7+00E		<2	0.7	<5	<200
S1 JM86 L16S 0+00		<2	0.8	<5	<200
S1 JM86 L16S 0+50E		<2	0.9	<5	<200
S1 JM86 L16S 1+00E		<2	1.0	<5	<200
S1 JM86 L16S 1+50E		<2	0.6	<5	<200
S1 JM86 L16S 2+00E		<2	1.0	<5	<200
S1 JM86 L16S 2+50E		<2	1.1	<5	<200
S1 JM86 L16S 3+00E		<2	1.1	<5	<200
S1 JM86 L16S 3+50E		<2	0.9	<5	<200
S1 JM86 L16S 4+00E		<2	0.6	<5	<200
S1 JM86 L16S 4+50E		<2	0.9	<5	<200
S1 JM86 L16S 5+00E		15	2.2	5	<200
S1 JM86 L16S 5+50E		<2	0.8	<5	<200
S1 JM86 L16S 6+00E		<2	1.2	<5	<200
S1 JM86 L16S 6+50E		<2	1.0	<5	<200
S1 JM86 L16S 7+00E		<2	0.8	<5	<200
S1 JM86 L16S 7+50E		<2	<0.5	<5	<200

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L16S 8+00E		<5	1.3	3	<100	<10	<1	190	20	<2	<2	<100
S1 JM86 L16S 8+50E		<5	1.0	3	<100	<10	1	220	30	<2	<2	<100
S1 JM86 L17S 0+00		<5	1.7	7	160	<10	2	240	23	<2	<2	<100
S1 JM86 L17S 0+50E		6	1.8	4	110	<10	<1	200	<10	<2	2	<100
S1 JM86 L17S 1+00E		5	1.3	10	240	<10	1	260	29	<2	<2	<100
S1 JM86 L17S 1+50E		<5	1.7	10	140	<10	2	210	17	<2	<2	<100
S1 JM86 L17S 2+00E		5	1.4	13	150	<10	1	130	14	<2	<2	<100
S1 JM86 L17S 2+50E		53	12.0	1790	420	<10	2	200	15	2	<2	<100
S1 JM86 L17S 3+00E		6	1.3	7	240	<10	2	210	27	<2	3	<100
S1 JM86 L17S 3+50E		<5	3.4	7	350	<10	3	440	25	<2	2	<100
S1 JM86 L17S 4+00E		<5	1.6	3	130	<10	<1	200	<10	<2	4	<100
S1 JM86 L17S 4+50E		12	1.9	8	350	<10	2	440	30	<2	<2	<100
S1 JM86 L17S 5+00E		14	2.2	7	290	<10	3	510	38	<2	2	<100
S1 JM86 L17S 5+50E		<5	2.9	5	280	<10	2	340	<10	<2	4	<100
S1 JM86 L17S 6+00E		<5	0.6	4	150	<10	2	490	23	<2	<2	<100
S1 JM86 L17S 6+50E		<5	1.0	4	190	<10	2	320	27	<2	2	<100
S1 JM86 L17S 7+00E		<5	0.8	2	<100	<10	1	310	14	<2	<2	<100
S1 JM86 L17S 7+50E		<5	0.8	3	<100	<10	3	260	30	<2	<2	<100
S1 JM86 L17S 8+00E		<5	0.9	5	200	<10	2	210	27	<2	2	<100
S1 JM86 L17S 8+50E		<5	0.8	4	170	<10	2	200	26	<2	<2	<100
S1 JM86 L17S 9+00E		<5	1.4	4	<100	<10	<1	230	21	<2	2	<100
S1 JM86 L17S 9+50E		9	1.4	4	140	<10	2	300	39	<2	<2	<100
S1 JM86 L17S 10+00E		<5	0.6	2	<100	<10	2	240	57	<2	<2	<100
S1 JM86 L18S 0+00		<5	2.2	9	150	<10	2	340	22	<2	2	<100
S1 JM86 L18S 0+50E		<5	2.9	8	180	<10	1	250	17	<2	2	<100
S1 JM86 L18S 1+00E		5	1.7	8	140	<10	<1	190	12	<2	3	<100
S1 JM86 L18S 1+50E		7	1.7	8	250	<10	3	180	18	<2	<2	<100
S1 JM86 L18S 2+00E		<5	2.9	10	220	<10	2	340	15	<2	<2	<100
S1 JM86 L18S 2+50E		<5	1.3	9	130	<10	2	260	30	<2	<2	<100
S1 JM86 L18S 3+00E		<5	1.9	7	280	<10	3	230	21	<2	3	<100
S1 JM86 L18S 3+50E		<5	2.6	3	210	<10	1	200	<10	<2	2	<100
S1 JM86 L18S 4+00E		<5	2.2	5	330	<10	3	660	24	<2	2	<100
S1 JM86 L18S 4+50E		<5	0.9	4	120	<10	1	410	29	<2	<2	<100
S1 JM86 L18S 5+00E		<5	1.2	3	310	<10	3	270	38	2	3	<100
S1 JM86 L18S 5+50E		<5	1.6	3	450	<10	3	330	13	2	4	<100
S1 JM86 L18S 6+00E		<5	1.5	5	150	<10	2	390	19	<2	3	<100
S1 JM86 L18S 6+50E		<5	1.2	3	210	<10	1	270	19	<2	<2	<100
S1 JM86 L18S 7+00E		<5	0.9	5	<100	<10	<1	290	22	<2	<2	<100
S1 JM86 L18S 7+50E		<5	0.9	3	<100	<10	1	220	32	<2	<2	<100
S1 JM86 L18S 8+00E		<5	0.9	3	<100	<10	<1	190	24	<2	2	<100

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
SI JM86 L16S 8+00E		9.4	6	<2	<50	<10	31.0	<10	<5	<1	<1	1.1
SI JM86 L16S 8+50E		8.5	5	<2	77	<10	33.0	<10	<5	<1	<1	0.9
SI JM86 L17S 0+00		7.0	10	<2	56	29	28.0	<10	<5	<1	<1	1.7
SI JM86 L17S 0+50E		3.4	15	<2	<50	<10	24.0	<10	<5	<1	<1	2.5
SI JM86 L17S 1+00E		6.1	12	<2	60	20	30.0	<10	<5	<1	<1	1.8
SI JM86 L17S 1+50E		5.8	14	<2	<50	25	27.0	<10	<5	<1	<1	2.0
SI JM86 L17S 2+00E		3.9	14	<2	<50	18	18.0	<10	<5	<1	<1	2.3
SI JM86 L17S 2+50E		7.1	12	<2	<50	46	25.0	<10	<5	<1	<1	2.3
SI JM86 L17S 3+00E		7.4	15	<2	<50	46	29.0	<10	<5	<1	<1	2.4
SI JM86 L17S 3+50E		8.8	21	<2	<50	33	39.0	<10	<5	<1	<1	2.4
SI JM86 L17S 4+00E		3.1	29	<2	<50	12	23.0	<10	<5	<1	<1	4.0
SI JM86 L17S 4+50E		7.8	20	<2	130	38	38.0	<10	<5	<1	<1	3.4
SI JM86 L17S 5+00E		7.5	18	<2	110	35	33.0	<10	<5	<1	<1	2.4
SI JM86 L17S 5+50E		4.5	15	<2	<50	40	33.0	<10	<5	1	<1	2.2
SI JM86 L17S 6+00E		7.5	18	<2	70	<10	31.0	<10	<5	<1	<1	3.5
SI JM86 L17S 6+50E		6.2	13	<2	71	<10	30.0	<10	<5	<1	<1	1.9
SI JM86 L17S 7+00E		6.8	14	<2	<50	<10	26.0	<10	<5	<1	<1	2.2
SI JM86 L17S 7+50E		8.4	8	<2	52	16	34.0	<10	<5	<1	<1	1.2
SI JM86 L17S 8+00E		8.0	10	<2	61	16	31.0	<10	<5	<1	<1	1.7
SI JM86 L17S 8+50E		8.0	9	<2	<50	21	28.0	<10	<5	<1	<1	1.5
SI JM86 L17S 9+00E		11.0	7	<2	<50	11	29.0	<10	<5	<1	<1	1.3
SI JM86 L17S 9+50E		7.3	10	<2	77	<10	38.0	<10	<5	<1	<1	0.8
SI JM86 L17S 10+00E		9.3	<5	<2	79	<10	34.0	<10	<5	<1	<1	1.0
SI JM86 L18S 0+00		6.6	15	<2	<50	10	26.0	<10	<5	<1	<1	2.2
SI JM86 L18S 0+50E		6.3	15	<2	<50	16	25.0	<10	<5	<1	<1	2.1
SI JM86 L18S 1+00E		5.1	14	<2	<50	<10	25.0	<10	<5	<1	<1	2.6
SI JM86 L18S 1+50E		5.2	15	<2	<50	38	25.0	<10	<5	<1	<1	2.3
SI JM86 L18S 2+00E		6.7	17	<2	<50	23	32.0	<10	<5	<1	<1	2.4
SI JM86 L18S 2+50E		3.0	10	<2	70	18	22.0	<10	<5	<1	<1	1.9
SI JM86 L18S 3+00E		11.0	16	<2	<50	61	27.0	<10	<5	<1	<1	2.8
SI JM86 L18S 3+50E		3.3	20	<2	<50	22	25.0	<10	<5	<1	<1	3.1
SI JM86 L18S 4+00E		7.3	22	<2	90	41	37.0	<10	<5	<1	<1	3.6
SI JM86 L18S 4+50E		8.7	9	<2	76	<10	34.0	<10	<5	<1	<1	1.9
SI JM86 L18S 5+00E		6.3	23	<2	<50	34	24.0	<10	<5	<1	<1	2.5
SI JM86 L18S 5+50E		4.7	17	<2	50	47	28.0	<10	<5	<1	<1	2.1
SI JM86 L18S 6+00E		8.5	12	<2	57	22	29.0	<10	<5	<1	<1	2.5
SI JM86 L18S 6+50E		5.9	12	<2	<50	14	29.0	<10	<5	<1	<1	1.3
SI JM86 L18S 7+00E		9.4	12	<2	<50	11	32.0	<10	<5	<1	<1	1.9
SI JM86 L18S 7+50E		8.5	7	<2	[illegible]	12	39.0	<10	<5	<1	<1	1.0
SI JM86 L18S 8+00E		7.1	7	[illegible]	<50	<10	31.0	<10	<5	<1	<1	1.0

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L16S 8+00E		3	<0.5	<5	<200
S1 JM86 L16S 8+50E		<2	<0.5	<5	<200
S1 JM86 L17S 0+00		<2	0.6	<5	<200
S1 JM86 L17S 0+50E		<2	0.6	<5	<200
S1 JM86 L17S 1+00E		<2	0.6	<5	<200
S1 JM86 L17S 1+50E		<2	0.9	<5	<200
S1 JM86 L17S 2+00E		<2	0.9	<5	<200
S1 JM86 L17S 2+50E		5	0.9	<5	<200
S1 JM86 L17S 3+00E		<2	1.0	<5	<200
S1 JM86 L17S 3+50E		<2	0.8	<5	<200
S1 JM86 L17S 4+00E		<2	1.3	<5	<200
S1 JM86 L17S 4+50E		<2	1.1	<5	<200
S1 JM86 L17S 5+00E		<2	1.4	<5	<200
S1 JM86 L17S 5+50E		<2	2.2	<5	<200
S1 JM86 L17S 6+00E		<2	1.7	<5	<200
S1 JM86 L17S 6+50E		<2	0.8	<5	<200
S1 JM86 L17S 7+00E		<2	0.9	<5	<200
S1 JM86 L17S 7+50E		3	<0.5	<5	<200
S1 JM86 L17S 8+00E		<2	0.6	<5	<200
S1 JM86 L17S 8+50E		<2	<0.5	<5	<200
S1 JM86 L17S 9+00E		<2	<0.5	<5	<200
S1 JM86 L17S 9+50E		2	<0.5	<5	<200
S1 JM86 L17S 10+00E		2	<0.5	<5	<200
S1 JM86 L18S 0+00		<2	0.9	<5	<200
S1 JM86 L18S 0+50E		<2	0.7	<5	<200
S1 JM86 L18S 1+00E		<2	0.9	<5	<200
S1 JM86 L18S 1+50E		<2	0.9	<5	<200
S1 JM86 L18S 2+00E		<2	[illegible]	<5	<200
S1 JM86 L18S 2+50E		<2	0.4	<5	<200
S1 JM86 L18S 3+00E		<2	[illegible]	<5	<200
S1 JM86 L18S 3+50E		<2	1.0	<5	<200
S1 JM86 L18S 4+00E		<2	[illegible]	5	<200
S1 JM86 L18S 4+50E		<2	[illegible]	<5	<200
S1 JM86 L18S 5+00E		<2	[illegible]	<5	<200
S1 JM86 L18S 5+50E		<2	[illegible]	<5	<200
S1 JM86 L18S 6+00E		<2	[illegible]	<5	<200
S1 JM86 L18S 6+50E		<2	0.7	<5	<200
S1 JM86 L18S 7+00E		<2	0.9	<5	<200
S1 JM86 L18S 7+50E		<2	<0.5	<5	<200
S1 JM86 L18S 8+00E		2	[illegible]	<5	<200

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L18S 8+50E		<5	1.1	3	140	<10	<1	150	18	<2	<2	<100
S1 JM86 L18S 9+00E		<5	0.9	3	<100	<10	<1	160	19	<2	<2	<100
S1 JM86 L18S 9+50E		<5	0.4	2	<100	<10	<1	220	38	<2	2	<100
S1 JM86 L18S 10+00E		15	1.0	2	<100	<10	<1	140	15	<2	2	<100
S1 JM86 L19S 0+00		9	1.1	6	260	<10	2	270	49	<2	<2	<100
S1 JM86 L19S 0+50E		<5	3.8	10	260	<10	2	510	23	<2	<2	<100
S1 JM86 L19S 1+00E		15	1.7	6	260	<10	1	180	14	<2	3	<100
S1 JM86 L19S 1+50E		<5	1.4	9	230	<10	<1	280	22	<2	<2	<100
S1 JM86 L19S 2+00E		<5	2.1	9	210	<10	1	290	19	<2	3	<100
S1 JM86 L19S 2+50E		<5	1.9	12	110	<10	<1	180	11	<2	2	<100
S1 JM86 L19S 3+00E		<5	2.0	5	190	<10	2	220	13	3	3	<100
S1 JM86 L19S 3+50E		15	2.5	5	130	<10	<1	280	11	<2	<2	<100
S1 JM86 L19S 4+00E		<5	2.2	4	460	<10	3	150	<10	<2	4	<100
S1 JM86 L19S 4+50E		<5	1.4	3	110	<10	2	580	14	<2	3	<100
S1 JM86 L19S 5+00E		<5	2.2	6	150	<10	1	290	10	2	3	<100
S1 JM86 L19S 5+50E		7	1.2	8	250	<10	1	330	40	<2	<2	<100
S1 JM86 L19S 6+00E		<5	1.5	4	<100	<10	1	290	15	<2	2	<100
S1 JM86 L19S 6+50E		<5	1.7	4	230	<10	2	380	22	<2	2	<100
S1 JM86 L19S 7+00E		<5	0.9	4	170	<10	2	290	24	<2	2	<100
S1 JM86 L19S 7+50E		5	0.9	3	130	<10	2	270	35	<2	<2	<100
S1 JM86 L19S 8+00E		6	1.0	5	120	<10	1	270	29	<2	3	<100
S1 JM86 L19S 8+50E		<5	0.9	3	100	<10	1	210	30	<2	<2	<100
S1 JM86 L19S 9+00E		<5	1.6	2	<100	<10	1	160	14	<2	3	<100
S1 JM86 L19S 9+50E		<5	0.3	3	160	<10	2	230	31	<2	<2	<100
S1 JM86 L19S 10+00E		<5	1.0	3	<100	<10	1	210	26	<2	<2	<100
S1 JM86 L20S 0+00		6	1.2	13	200	<10	4	430	37	<2	<2	<100
S1 JM86 L20S 0+50E		<5	1.5	8	170	<10	1	420	19	<2	2	<100
S1 JM86 L20S 1+00E		<5	1.2	7	210	<10	6	330	190	<2	<2	<100
S1 JM86 L20S 1+50E		<5	2.0	9	240	<10	1	380	34	2	<2	<100
S1 JM86 L20S 2+00E		<5	1.9	10	130	<10	1	270	19	<2	4	<100
S1 JM86 L20S 2+50E		<5	2.9	9	240	<10	2	330	21	<2	<2	<100
S1 JM86 L20S 3+00E		<5	2.7	6	260	<10	1	350	<10	2	3	<100
S1 JM86 L20S 3+50E		<5	1.5	2	190	<10	1	110	<10	<2	4	<100
S1 JM86 L20S 4+00E		<5	1.1	4	<100	<10	2	290	23	<2	2	<100
S1 JM86 L20S 4+50E		<5	1.1	5	210	<10	3	300	27	<2	2	<100
S1 JM86 L20S 5+00E		<5	1.0	6	170	<10	2	400	22	2	2	<100
S1 JM86 L20S 5+50E		<5	1.6	[illegible]	140	<10	2	370	19	<2	<2	<100
S1 JM86 L20S 6+00E		[illegible]	1.1	2	100	<10	1	280	27	<2	<2	<100
S1 JM86 L20S 6+50E		[illegible]	1.1	2	190	<10	2	250	22	<2	<2	<100
S1 JM86 L20S 7+00E		<5	2.2	3	<100	<10	1	240	29	<2	<2	<100

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L18S 8+50E		5.6	10	<2	<50	16	25.0	<10	<5	<1	<1	1.5
S1 JM86 L18S 9+00E		10.0	7	<2	<50	<10	28.0	<10	<5	<1	<1	1.4
S1 JM86 L18S 9+50E		8.4	5	<2	68	<10	41.0	<10	<5	<1	<1	1.0
S1 JM86 L18S 10+00E		7.9	6	<2	<50	10	30.0	<10	<5	<1	<1	1.1
S1 JM86 L19S 0+00		5.3	12	<2	67	15	22.0	<10	<5	<1	<1	2.0
S1 JM86 L19S 0+50E		3.8	20	<2	59	26	22.0	<10	<5	<1	<1	2.8
S1 JM86 L19S 1+00E		5.2	17	<2	<50	<10	28.0	<10	<5	<1	<1	2.6
S1 JM86 L19S 1+50E		8.0	12	<2	<50	15	32.0	<10	<5	<1	<1	2.1
S1 JM86 L19S 2+00E		6.3	11	<2	<50	27	29.0	<10	<5	<1	<1	2.0
S1 JM86 L19S 2+50E		5.1	18	<2	<50	10	24.0	<10	<5	<1	<1	2.5
S1 JM86 L19S 3+00E		5.0	25	<2	<50	26	23.0	<10	<5	<1	<1	3.9
S1 JM86 L19S 3+50E		7.3	17	<2	<50	21	26.0	<10	<5	<1	<1	2.6
S1 JM86 L19S 4+00E		5.6	35	<2	<50	69	23.0	<10	<5	<1	<1	6.0
S1 JM86 L19S 4+50E		5.1	18	<2	<50	22	29.0	<10	<5	<1	<1	2.3
S1 JM86 L19S 5+00E		6.6	18	<2	<50	14	27.0	<10	<5	1	<1	3.1
S1 JM86 L19S 5+50E		7.6	14	<2	92	16	39.0	<10	<5	<1	<1	1.8
S1 JM86 L19S 6+00E		7.8	12	<2	<50	<10	29.0	<10	<5	<1	<1	2.1
S1 JM86 L19S 6+50E		8.6	15	<2	62	24	28.0	<10	<5	<1	<1	2.2
S1 JM86 L19S 7+00E		8.1	12	<2	60	13	36.0	<10	<5	<1	<1	3.0
S1 JM86 L19S 7+50E		7.2	9	<2	59	15	29.0	<10	<5	<1	<1	1.4
S1 JM86 L19S 8+00E		8.7	9	<2	63	<10	35.0	<10	<5	<1	<1	1.4
S1 JM86 L19S 8+50E		7.4	8	<2	64	13	30.0	<10	<5	<1	<1	1.1
S1 JM86 L19S 9+00E		8.6	8	<2	<50	<10	27.0	<10	<5	<1	<1	1.3
S1 JM86 L19S 9+50E		8.0	9	<2	74	22	26.0	<10	<5	<1	<1	1.8
S1 JM86 L19S 10+00E		9.3	6	<2	66	<10	30.0	<10	<5	<1	<1	1.2
S1 JM86 L20S 0+00		7.0	14	<2	92	20	31.0	<10	<5	<1	<1	2.3
S1 JM86 L20S 0+50E		9.3	11	<2	64	18	29.0	<10	<5	<1	<1	2.4
S1 JM86 L20S 1+00E		8.6	12	<2	74	29	27.0	<10	<5	<1	<1	2.3
S1 JM86 L20S 1+50E		6.9	15	<2	77	24	34.0	<10	<5	<1	<1	2.1
S1 JM86 L20S 2+00E		6.9	12	<2	<50	27	27.0	<10	<5	<1	<1	2.2
S1 JM86 L20S 2+50E		9.3	12	<2	<50	30	33.0	<10	<5	<1	<1	2.2
S1 JM86 L20S 3+00E		6.3	23	<2	<50	40	22.0	<10	<5	<1	<1	3.3
S1 JM86 L20S 3+50E		3.3	33	<2	<50	13	20.0	<10	<5	<1	<1	4.8
S1 JM86 L20S 4+00E		8.1	9	<2	<50	14	31.0	<10	<5	<1	<1	1.4
S1 JM86 L20S 4+50E		7.5	11	<2	80	22	33.0	<10	<5	<1	<1	1.6
S1 JM86 L20S 5+00E		10.0	11	<2	57	12	24.0	<10	<5	<1	<1	2.6
S1 JM86 L20S 5+50E		3.6	12	<2	<50	16	29.0	<10	<5	<1	<1	2.0
S1 JM86 L20S 6+00E		6.9	10	<2	62	12	38.0	<10	<5	<1	<1	1.2
S1 JM86 L20S 6+50E		7.2	11	<2	<50	<10	30.0	<10	<5	<1	<1	1.8
S1 JM86 L20S 7+00E		7.5	5	<2	100	<10	29.0	<10	<5	<1	<1	0.6

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L18S 8+50E		<2	0.6	<5	<200
S1 JM86 L18S 9+00E		<2	<0.5	<5	<200
S1 JM86 L18S 9+50E		<2	<0.5	<5	<200
S1 JM86 L18S 10+00E		<2	<0.5	<5	<200
S1 JM86 L19S 0+00		<2	0.6	<5	<200
S1 JM86 L19S 0+50E		<2	1.3	<5	<200
S1 JM86 L19S 1+00E		<2	0.9	<5	<200
S1 JM86 L19S 1+50E		<2	0.7	<5	<200
S1 JM86 L19S 2+00E		<2	0.8	<5	<200
S1 JM86 L19S 2+50E		4	1.1	<5	<200
S1 JM86 L19S 3+00E		3	1.1	<5	<200
S1 JM86 L19S 3+50E		<2	0.8	<5	<200
S1 JM86 L19S 4+00E		<2	1.8	<5	<200
S1 JM86 L19S 4+50E		2	0.8	<5	<200
S1 JM86 L19S 5+00E		3	1.1	<5	<200
S1 JM86 L19S 5+50E		<2	0.7	<5	<200
S1 JM86 L19S 6+00E		<2	0.8	<5	<200
S1 JM86 L19S 6+50E		<2	1.0	<5	<200
S1 JM86 L19S 7+00E		<2	1.0	<5	<200
S1 JM86 L19S 7+50E		<2	0.7	<5	<200
S1 JM86 L19S 8+00E		<2	0.7	<5	<200
S1 JM86 L19S 8+50E		<2	<0.5	<5	<200
S1 JM86 L19S 9+00E		<2	0.5	<5	<200
S1 JM86 L19S 9+50E		<2	0.7	<5	<200
S1 JM86 L19S 10+00E		<2	<0.5	<5	<200
S1 JM86 L20S 0+00		<2	1.0	<5	<200
S1 JM86 L20S 0+50E		<2	<0.5	<5	<200
S1 JM86 L20S 1+00E		<2	1.3	<5	<200
S1 JM86 L20S 1+50E		<2	0.7	<5	<200
S1 JM86 L20S 2+00E		<2	0.7	<5	<200
S1 JM86 L20S 2+50E		<2	0.6	<5	<200
S1 JM86 L20S 3+00E		<2	1.1	<5	<200
S1 JM86 L20S 3+50E		<2	1.5	<5	<200
S1 JM86 L20S 4+00E		<2	<0.5	<5	<200
S1 JM86 L20S 4+50E		<2	0.9	<5	<200
S1 JM86 L20S 5+00E		<2	0.8	<5	<200
S1 JM86 L20S 5+50E		<2	0.6	<5	<200
S1 JM86 L20S 6+00E		<2	0.6	<5	<200
S1 JM86 L20S 6+50E		<2	0.7	<5	<200
S1 JM86 L20S 7+00E		<2	0.5	<5	<200

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REPORT: 126-0727 PROJECT: JAN-MAR PAGE 9A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Sb PPM	As PPM	Ba PPM	Cd PPM	Cs PPM	Cr PPM	Co PPM	Eu PPM	Hf PPM	Ir PPB
S1 JM86 L20S 7+50E		<5	1.3	4	<100	<10	<1	200	12	<2	3	<100
S1 JM86 L20S 8+00E		<5	0.8	3	220	<10	2	260	28	<2	<2	<100
S1 JM86 L20S 8+50E		8	1.1	6	190	<10	<1	340	39	<2	<2	<100
S1 JM86 L20S 9+00E		<5	1.1	5	190	<10	2	310	20	<2	<2	<100
S1 JM86 L20S 9+50E		<5	1.2	4	<100	<10	<1	170	16	<2	2	<100
S1 JM86 L20S 10+00E		<5	0.8	2	<100	<10	<1	180	21	<2	<2	<100

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Geochemical Lab Report

REPORT: 126-0727 PROJECT: JAN-MAR PAGE 9B

SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	La PPM	Mo PPM	Ni PPM	Rb PPM	Sc PPM	Se PPM	Ag PPM	Ta PPM	Tb PPM	Th PPM
S1 JM86 L20S 7+50E		7.3	11	<2	<50	<10	27.0	<10	<5	<1	<1	2.5
S1 JM86 L20S 8+00E		4.6	13	<2	65	<10	29.0	<10	<5	<1	<1	1.9
S1 JM86 L20S 8+50E		6.5	13	<2	120	17	34.0	<10	<5	<1	<1	1.7
S1 JM86 L20S 9+00E		8.3	9	<2	<50	<10	29.0	<10	<5	<1	<1	1.9
S1 JM86 L20S 9+50E		7.1	8	<2	<50	14	24.0	<10	<5	<1	<1	1.7
S1 JM86 L20S 10+00E		6.4	7	<2	<50	<10	25.0	<10	<5	<1	<1	1.4

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SAMPLE NUMBER	ELEMENT UNITS	W PPM	U PPM	Yb PPM	Zn PPM
S1 JM86 L20S 7+50E		<2	0.9	<5	<200
S1 JM86 L20S 8+00E		<2	1.3	<5	<200
S1 JM86 L20S 8+50E		<2	0.7	<5	<200
S1 JM86 L20S 9+00E		<2	0.9	<5	<200
S1 JM86 L20S 9+50E		<2	<0.5	<5	<200
S1 JM86 L20S 10+00E		<2	<0.5	<5	<200


Distribution of Gold, Iron, Cobalt, Nickel and Molybdenum in Soilsamples:
(326 samples)
ppb Au | F | Histogram: 2.5% 5.0% 7.5% 10.0%
<5 207
5 - 9 71
10 - 14 13
15 - 19 17
20 - 24 2
25 - 29 4
30+ 12
Detection limit 5 ppb Au
Background < 5-5 ppb
Threshold 10(±) ppb
Anomalous >15 ppb
weak 15 - 29 ppb
medium 30 - 44 ppb
strong 45+ ppb
Mobility: medium to high in oxidizing /acid environment.
Range: <2 - 120 ppb Au; significant anomalies.
% Fe | F
1 - 2.9 2
3 - 4.9 19
5 - 6.9 99
7 - 8.9 133
9 - 10.9 32
11 - 12.9 14
13 - 14.9 4
15+ 3
Detection limit 0.5% Fe
Background 5 - 8 %
Threshold 10(±) %
Anomalous >12 %
(no significant anomalies)
Mobility: very low to low.
ppm Co | F
<10 16
10 - 19 95
20 - 29 115
30 - 39 72
40 - 49 20
50 - 59 3
60 - 69 4
70 - 79 -
80+ 1
Detection limit 10 ppm Co
Background 10 - 40 ppm
Threshold 50(±) ppm
Anomalous > 60 ppm
(no significant anomalies, except one "spot" anomaly of 190 ppm)
Mobility: medium to high.
ppm Ni | F
<50 164
50 - 59 48
60 - 69 40
70 - 79 30
80 - 89 13
90 - 99 10
100 - 109 3
110 - 119 6
120 - 129 4
130 - 139 2
140 - 149 2
150+ 4
Detection limit 50 ppm Ni
Background <50 - 80 ppm
Threshold 90(±) ppm
Anomalous >100 ppm
weak 100 - 200 ppm
medium 200 - 300 ppm
strong 300+ ppm
(several weak to medium-strong anomalies. Probably logarithmic distribution)
Mobility: high.
ppm Mo | F | 2.5% 5.0% 7.5% 10.0%
<2 325
2 -
2+ 1
Detection limit 2 ppm Mo
Background <2 ppm
Threshold <2 ppm
Anomalous ? (2±)
(no anomalies, except one "spot high" of 7 ppm)
Mobility: high to very high.
23½° declination
REFERENCE:
Traverse line with soil sample site
Rocky cliffs
Stream / gully
Logging road
Lab. analytical values in soil samples: Siderophile Elements (Co, Ni and Mo in ppm)
Soil Sample Locn
Cobalt → Co Au(ppb) ← Gold
Nickel → Ni Fe(%) ← Iron
(Mo) ← Molybdenum (only "spot high" shown)
(Not shown: Iridium (Ir), as all values are below 100 ppb (= 0.1 ppm) detection limit.)
N.B.: Values below "Detection Limit" ("less than ...") shown by dot (•) only.
Anomalous values are underlined.
Au, Ni, Co } Anomalies
CLIFFS (OUTCROP)
RIFT CREEK
TREE LINE (logged off 1985)
LCP
MAR 351
JAN 350
L0+00
L1+00S
L2+00S
L3+00S
L4+00S
L5+00S
L6+00S
L7+00S
L8+00S
L9+00S
L10+00S
L11+00S
L12+00S
L13+00S
L14+00S
L15+00S
L16+00S
L17+00S
L18+00S
L19+00S
L20+00S
Mo: 7 ppm
GEOLOGICAL BRANCH ASSESSMENT REPORT
14,965
LODE RESOURCE CORPORATION
JAN/MAR CLAIM GROUP
VICTORIA MINING DIVISION, B.C.
GEOCHEMICAL SURVEY:
Au, Fe, Ni, Co and Mo in Soil.
50 0 50 100 150m
Scale: 1:2500
Drawn by: H. Laanela
Date: May, 1986
Figure # 1
Ashworth Explorations Limited
Base map based on field sketch by R. Paessler, April 2, 1986.

Distribution of Arsenic, Antimony, Scandium, Lanthanum, Terbium, Europium and Ytterbium in Soilsamples: (326 samples)

ppm As	F	Histogram: 2.5% 5.0% 7.5% 100%
1 - 5	116	
6 - 10	156	Detection limit 1 ppm As
11 - 15	25	Background 3-10 ppm
16 - 20	6	Threshold 15(±) ppm
21 - 25	8	Anomalous >20 ppm
26 - 30	4	Mobility: medium
31+	6	weak 20-39 ppm; medium 40-59 ppm; strong 60+ ppm

ppm Sb	F	
0 - 0.5	2	
0.6 - 1.0	113	Detection limit 0.2 ppm Sb
1.1 - 1.5	100	Background 1-2 ppm
1.6 - 2.0	48	Threshold 2.5(±) ppm
2.1 - 2.5	31	Anomalous >3 ppm
2.6 - 3.0	14	weak 3.0-5.9 ppm
3.1 - 3.5	9	Mobility: low; medium 6.0-8.9 ppm
3.6 - 4.0	6	strong 9.0+ ppm
4.1+	3	(logarithmic)

ppm Sc	F	
<10	–	
10 - 19	6	Detection limit 10 ppm Sc
20 - 29	161	Background 20-40 ppm
30 - 39	146	Threshold 45(±) ppm
40 - 49	11	Anomalous >50 ppm
50 - 59	2	Mobility: high; (no significant anomalies)
60+	–	

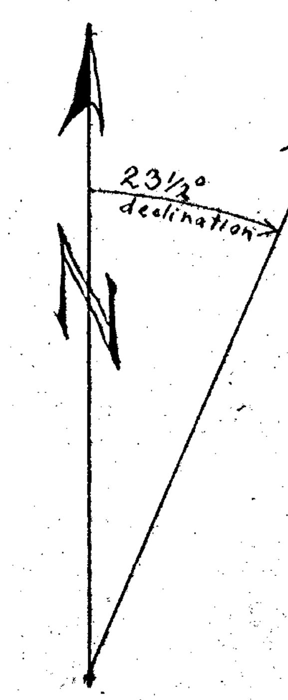
ppm La	F	
<5 - 9	127	
10 - 19	154	Detection limit 5 ppm La
20 - 29	33	Background 5-20 ppm
30 - 39	10	Threshold 25(±) ppm
40 - 49	1	Anomalous >30 ppm
50 - 59	1	Mobility: very low to low; (a few weak anomalies only)
60+	–	

ppm Tb	F	
<1	315	
1	9	Detection limit 1 ppm Tb
2	2	Mobility: very low (no significant anomalies); Background <1 ppm
3+	–	Threshold <1 ppm; Anomalous 1+ ppm

ppm Eu	F	
<2	290	
2	23	Detection limit 2 ppm Eu
3	10	Background <2 ppm
4	1	Mobility: very low; Threshold 2± ppm
5+	2	(a few weak anomalies only); Anomalous >3 ppm

ppm Yb	F	2.5%
<5	325	(not plotted)
5	1	Detection limit 5 ppm Yb
5+	–	Background <5 ppm

Threshold <5 ppm
Anomalous ? (±5)
Mobility: very low; possibly one "spot" anomaly.



REFERENCE:

- Traverse line with soil sample site
- Rocky cliffs
- Stream/gully
- Logging road

Lab. analytical values in soil samples: (all in ppm's)

Rare Earth Elements (REE): Terbium → Tb; Scandium → Sc; Lanthanum → La; Europium → Eu; Ytterbium → (Yb)

Chalcophile Elements: Arsenic → As; Antimony → Sb; Soil Sample Location

N.B.: Values below "Detection Limit" ("less than...") shown by dot (•) only.

Anomalous values are underlined.

All samples were also analysed for following chalcophile elements; the lab. results are not plotted, all being below lab. "detection limit" ("less than ... ppm ..."), i.e.

Silver (Ag) : <5 ppm (assumed background for area* is about <0.2-0.2 ppm Ag).
Zinc (Zn) : <200 ppm (-"- -"- -"- -"- -"-* -"- -"- 60-100 ppm Zn).
Selenium (Se) : <10 ppm
Cadmium (Cd) : <10 ppm

(* based on several other geochemical surveys in the general area, using lower detection limits)

As, Sb, REE } Anomalies

GEOLOGICAL BRANCH ASSESSMENT REPORT

14,965

LODE RESOURCE CORPORATION

JAN/MAR CLAIM GROUP

VICTORIA MINING DIVISION, B.C.

GEOCHEMICAL SURVEY:

As, Sb and REE's in Soil.

50 0 50 100 150m

Scale: 1:2500	Drawn by: H.Laanela
Date: May, 1986	Figure #2.

Ashworth Explorations Limited

Base map based on field sketch by R. Paessler, April 2, 1986.

Distribution of Chromium, Tungsten, Rubidium and Barium in Soilsamples: (326 samples)

ppm Cr	F
<50 - 99	12
100 - 199	66
200 - 299	107
300 - 399	80
400 - 499	29
500 - 599	16
600 - 699	7
700 - 799	1
800 - 899	1
900+	5

Histogram: 2.5% 5.0% 7.5% 10%

Detection Limit 50 ppm Cr
Background 100 - 400 ppm
Threshold 500(±) ppm
Anomalous >600 ppm
weak 600 - 1200 ppm
median 1200 - 1800 ppm
strong 1800 + ppm
(only a few "spot" anomalies)

Mobility: very low.
Range: <50 - 2900 ppm Cr.

ppm W	F
<2	285
2	19
3	15
4	2
5	2
6	1
7+	2

Detection limit 2 ppm W
Background <2 ppm
Threshold 2 ppm
Anomalous >3
(minor "spot" anomalies)

Mobility: very low.
Range: <2 - 15 ppm W.

ppm Rb	F
<10	115
10 - 19	95
20 - 29	55
30 - 39	31
40 - 49	15
50 - 59	9
60 - 69	4
70 - 79	1
80 - 89	-
90+	1

Detection limit 10 ppm Rb
Background <10 - 30
Threshold 45(±)
Anomalous >50
(no significant anomalies)

Mobility: low.
Range: <10 - 91 ppm Rb.

ppm Ba	F
<100 - 190	110
200 - 290	65
300 - 390	45
400 - 490	10
500 - 590	2
600+	1

Histogram: 2.5% 5.0% 7.5% 10%

Detection limit 100 ppm Ba
Background 50 - 300 ppm
Threshold 350(±) ppm
Anomalous >400 ppm
(no significant anomalies)

Mobility: low.

REFERENCE:

Traverse line with soil sample site
Rocky cliffs
Stream / gully
Logging road

Lab. analytical values in soil samples: Lithophile elements (all in ppm)

Soil sample loc.
Rubidium — Rb | Cr — Chromium
Barium — Ba | W — Tungsten

N.B.: Values below "Detection Limit" ("less than...") shown by dot (•) only.
Anomalous values are underlined.

—Cr— / ---Rb--- / ....Ba.... / -.-W-.- } Anomalies

LODE RESOURCE CORPORATION

JAN/MAR CLAIM GROUP
VICTORIA MINING DIVISION, B.C.

GEOCHEMICAL SURVEY:
Cr, W, Rb and Ba in Soil.

50 0 50 100 150m

Scale: 1:2500 | Drawn by: H. Laanela
Date: May, 1986 | Figure #3.

Ashworth Explorations Limited
Base map based on field sketch by R. Paessler, April 2, 1986.

Distribution of Thorium, Uranium, Hafnium, Cesium and Tantalum in Soil samples: (326 samples)
ppm Th | F | Histogram: 2.5% 5.0% 7.5% 10.0%
<0.5-0.9 35
1 - 1.9 156
2 - 2.9 88
3 - 3.9 29
4 - 4.9 12
5 - 5.9 2
6 - 6.9 4
7+ —
Mobility: very low.
Detection limit 0.5 ppm Th
Background 1-3 ppm
Threshold 4(±) ppm
Anomalous >5 ppm
(no significant anomalies)
ppm U | F
<0.5 89
0.5 - 0.9 145
1 - 1.4 71
1.5 - 1.9 16
2+ 5
Mobility: high.
Detection limit 0.5 ppm U
Background <0.5 - 1.5 ppm
Threshold 1.5 ppm
Anomalous >2 ppm
(no significant anomalies)
ppm Hf | F
<2 206
2 60
3 43
4 15
5 2
6+ —
Substitutes for Zr in zircon.
Detection limit 2 ppm Hf
Background <2-2 ppm
Threshold 3(±) ppm
Anomalous >4 ppm
(no significant anomalies)
ppm Cs | F
<1 83
1 55
2 115
3 49
4 14
5 6
6+ 4
Mobility: low.
Detection limit 1 ppm Cs
Background <1 - 3 ppm
Threshold 4(±) ppm
Anomalous >5 ppm
(no significant anomalies)
ppm Ta | F | 2.5% 5.0% 7.5% 10.0%
<1 320
1 6
1+ —
Mobility: very low.
Detection limit 1 ppm Ta
Background < 1 ppm
Threshold < 1 ppm
Anomalous ? (1±) ppm
(no significant anomalies)
MAR 331
LCP
JAN 350
RIFF CREEK
CLIFFS (OUTCROP)
TREE LINE
23½° declination
REFERENCE:
Traverse line with soil sample site
Rocky cliffs
Stream/gully
Logging road
Lab. analytical values in soil samples: Lithophile elements (all in ppm)
(Actinides) Thorium → Th Hf ← Hafnium
Uranium → U Cs ← Cesium
(Ta) ← Tantalum (only 6 detectable values shown)
N.B.: Values below "Detection Limit" ("less than ... ppm ...") shown by dot (•) only, except for Ta.
Anomalous values are underlined.
Hf, Th, Cs, U — Anomalies
L0+00
L1+00S
L2+00S
L3+00S
L4+00S
L5+00S
L6+00S
L7+00S
L8+00S
L9+00S
L10+00S
L11+00S
L12+00S
L13+00S
L14+00S
L15+00S
L16+00S
L17+00S
L18+00S
L19+00S
L20+00S
BL 0
GEOLOGICAL BRANCH ASSESSMENT REPORT
14,965
LODE RESOURCE CORPORATION
JAN/MAR CLAIM GROUP
VICTORIA MINING DIVISION, B.C.
GEOCHEMICAL SURVEY:
Hf, Cs, Th, U and Ta in Soil.
Scale: 1:2500
Drawn by: H. Laanela
Date: May, 1986
Figure # 4
Ashworth Explorations Limited
Base map based on field sketch by R. Peessler, April 2, 1986.