NTS 920/3E
Lat 51°06'N
Long 123°12'W

GEOLOGICAL and GEOCHEMICAL REPORT
on the
SLUICE BOX PROPERTY
Clinton Mining Division, B.C.

for 22,312

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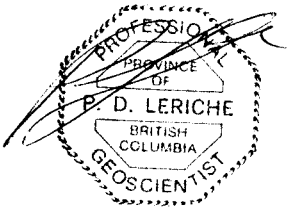
by



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15 October 1991

SUMMARY

The Sluice Box Property is situated approximately 40 km northwest of Goldbridge, British Columbia. Access is via helicopter or float plane from a base located in Goldbridge.

The property consists of eight contiguous claims comprising a total area of 3,550 hectares. It is located within the Clinton Mining Division near the Bralorne Mining Camp, a past producer of over 4 million ounces of gold. The Poison Mountain Cu-Mo-Au porphyry, situated 40 km east of the Sluice Box Property, contains reserves estimated at 1.5 million ounces Au and 58 million pounds of Cu. Other deposits in the area include the Taseko Property (Empress Zone) Cu-Au porphyry, the Blackdome Mountain epithermal Au-Ag deposit, and the Taylor-Windfall Au deposit.

Previous work on the Sluice Box Property in the early 1970's by Cominco focused on copper and molybdenum mineralization on the BJB prospect southwest of Lorna Lake (Minfile # 92 O 24). Work performed in the 1980's by Barrier Reef, the B.C. Government Geological Survey, and Bond Gold has been focused on the extensive alteration zone located in the north portion of the Sluice 1-4 Claims. A magnetic/VLF-EM survey (62.9 line km.) was conducted in July 1988 by Bond Gold. Nine moderate to strong VLF-EM conductors and a broad zone of high magnetic response were defined.

The Sluice Claims are underlain by Upper Cretaceous Battlement Ridge Group, Powell Creek Formation consisting of andesitic-dacitic volcanic breccia, lapilli tuff, crystal tuff, minor fine grained tuffs, flows, and sandstone. This sequence is cut by the Upper Cretaceous Dorrie Peak diorite (65 Ma), and the Eocene Lorna Lake quartz monzonite-quartz diorite (42 Ma). Fine grained felsite dykes and sills (1 to 60 feet wide) associated with the Lorna Lake stock cut the above sequence.

A 1 x 5 kilometer area forms a 060 degree trending ridge north of Sluice Box Creek that contains moderate to strong alteration, i.e. ubiquitous pyrite (1-10%), extensive hydrated iron oxides, widespread silicification and argillic alteration. The focus of the 1991 work program was to perform follow up geological mapping and sampling within this area, and to concentrate on the nine well defined geophysical anomalies. All high order geophysical anomalies ('A' through 'I') were investigated and no follow targets were identified.

Several weak geochemical responses which correspond to weak geophysical conductors were identified within the 1988 geophysical grid area (vuggy, drusy, brecciated, epithermal quartz and minor barite located 500 to 700 meters north-northwest of the 'C' anomaly, and the fault and alteration zone with anomalous Au-Mo geochemistry located 400 to 800 meters northwest of the 'A' anomaly).

Two follow up target areas outside of the geophysical grid area include the BJB Cu-Mo prospect located on Sluice 6 (1 kilometer southwest of Lorna Lake), and the steep northwest facing slope located 500 to 1,000 meters southeast of the 'A' anomaly.

An IP geophysical survey over the BJB prospect and detailed geological mapping and sampling of all follow up targets is recommended. A budget of approximately $37,000 is proposed to carry out the recommended work. Contingent on the results of this program, follow up diamond drilling would be recommended.

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Sluice Box Property

1. INTRODUCTION

This report was prepared at the request of Lac Minerals Ltd to describe and evaluate the results of a geological-geochemical program carried out by Reliance Geological Services Inc on the Sluice 1-8 claims in the Clinton Mining Division, Warner Pass area, British Columbia.

The field work was undertaken for the purpose of evaluating the mineral potential of the property and following up on previously defined geophysical targets. The target is an epithermal/ mesothermal gold vein deposit and/or porphyry copper/gold deposit.

Field work was carried out from September 14 to September 20, 1991, by Andris Kikauka, project geologist, and George King, Nigel Luckman and Andrew McIntosh, all geologists, under the supervision of Peter Leriche, B.Sc., P.Geo.

This report is based on published and unpublished information and the maps, reports and notes of the field crew.

2.0 LOCATION, ACCESS AND PHYSIOGRAPHY

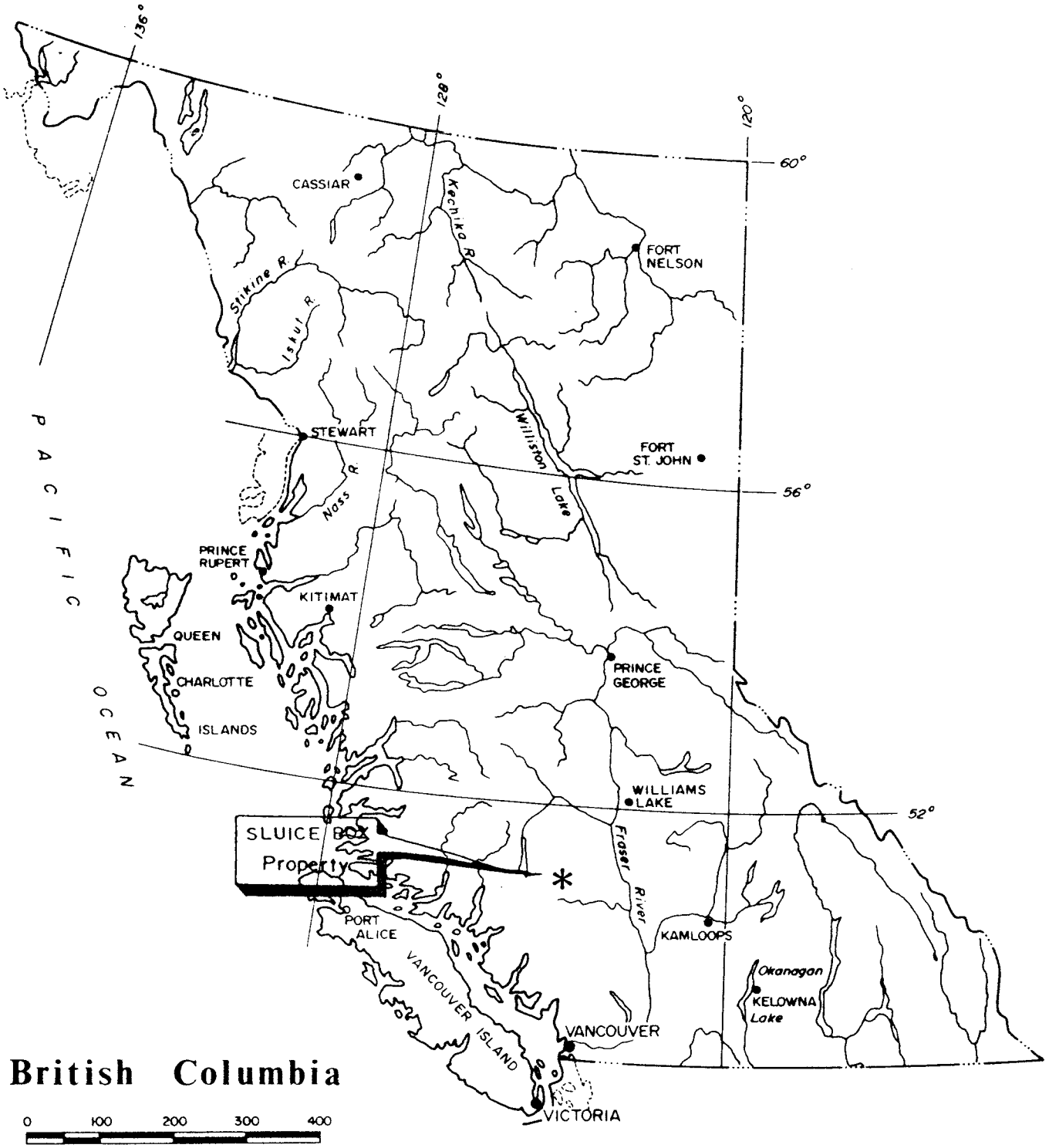
The Sluice Box Property is situated approximately 40 kilometers northwest of Goldbridge, British Columbia (Figure 1).

The claims are located on Map Sheet NTS 92 0/3E, at latitude 50° 06' North, longitude 123° 12' West, and between UTM 5659000m and 5664000m North and UTM 483000 and 489000m East.

Access is via helicopter from a base at Goldbridge, B.C. Float planes occasionally land at Lorna Lake, which gives direct access to the property. A well-used horse trail is located on the lower elevations of Sluice Box Creek and gives access to a road on Big Creek, approximately 10 km downstream from Lorna Lake.

The property is on moderate terrain with slopes rising from about 5922 ft (1800 m) to 9400 ft (2862 m) along Warner Ridge. The area is above tree line, except for the lower half of Sluice Box Creek. Widely spaced trees and grassy meadows cover the lower elevations of the valley.

Recommended work season is from early June to early October.



British Columbia

0 100 200 300 400

kilometres

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GEOSCIENTIST

LAC MINERALS LTD.		
SLUICE BOX PROPERTY		
General Location Map		
Scale noted above	N.T.S. 92O/3E	Drawn by
Date Oct 91	Geologist	Figure 1
RELIANCE GEOLOGICAL SERVICES INC.		

3.0 PROPERTY STATUS

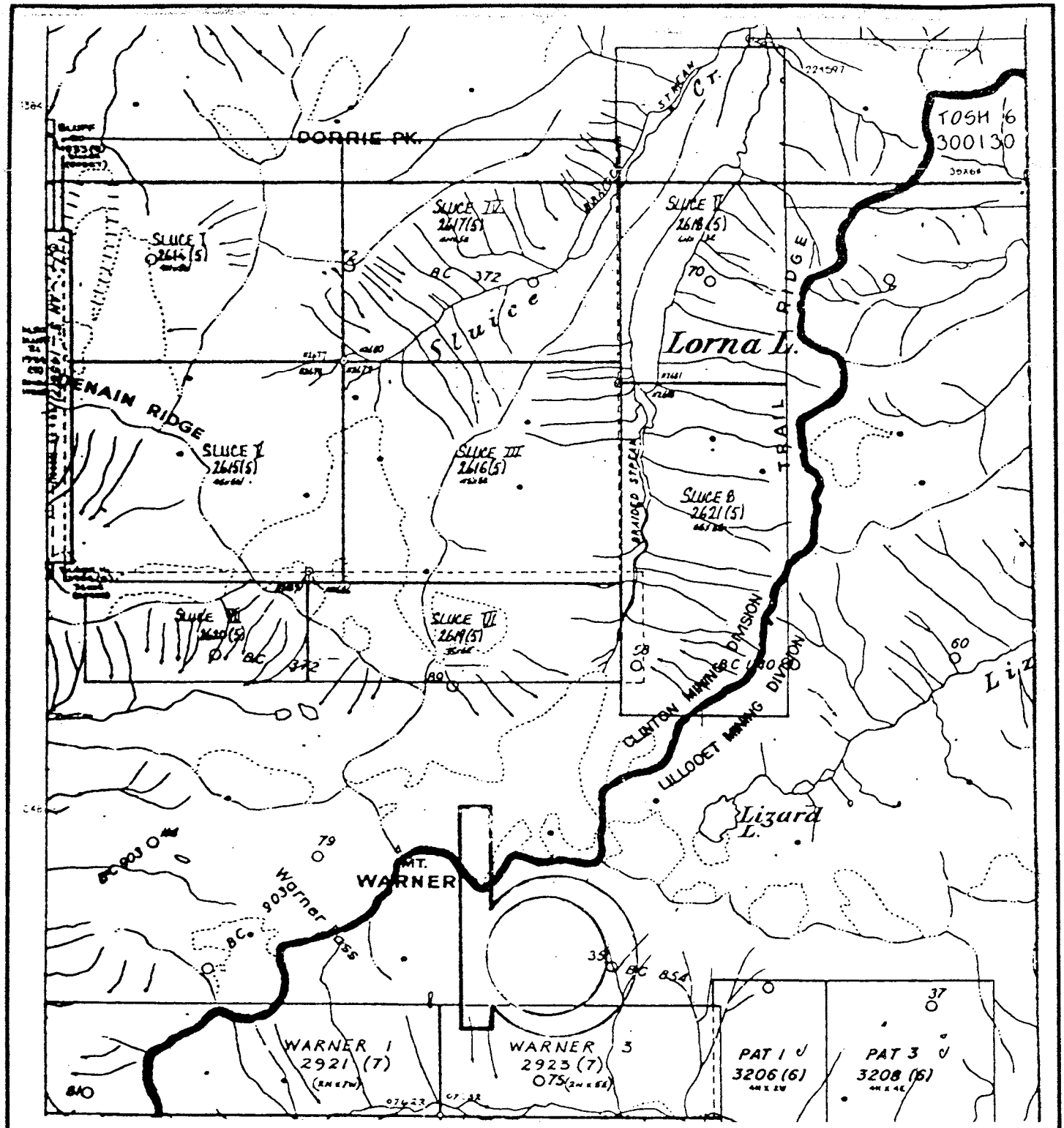
The property consists of eight contiguous mineral claims (Figure 2) in the Clinton Mining Division. The claims were staked in 1988 by St Joe Minerals Ltd. The claims are owned 100% by Bond Gold Canada Inc (now Lac Minerals Ltd).

Details of the claims are as follows:

Claim	Record	Units	Record Date	Expiry Date
SLUCE I	208454	20	12 May 1988	12 May 1992
SLUCE II	208455	20	12 May 1988	12 May 1992
SLUCE III	208456	20	12 May 1988	12 May 1992
SLUCE IV	208457	20	12 May 1988	12 May 1992
SLUCE V	208458	18	12 May 1988	12 May 1992
SLUCE VI	208459	18	12 May 1988	12 May 1992
SLUCE VII	208460	8	12 May 1988	12 May 1992
SLUCE VIII	208461	18	12 May 1988	12 May 1992
	Total	142		

The total area covered by the claims is 3550 hectares, or 8769 acres, after correcting for overlap.

The writer is not aware of any particular environmental, political or regulatory problems that would adversely affect mineral exploration and development on the Sluice Box Property.



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SLUICE BOX PROPERTY

CLAIM MAP

Scale 1:50000	N.T.S. 92O/3E	Drawn by
Date Oct 91	Geologist	Figure 2

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4.0 AREA MINERAL OCCURRENCES

Poison Mountain deposit (40 km to the east).

A porphyry copper-gold-molybdenum deposit currently estimated at 175 million tonnes averaging 0.33% Cu, 0.009 oz Au/ton, and 0.015% Mo.

Taylor-Windfall Property (10 km to the west)

Limited production (mid 1930's and 1952-53) from surface and underground workings on a narrow, northeast striking fracture zone containing pyrite, tennantite, chalcopyrite and minor sphalerite in a chlorite-sericite gangue. Mining in 1952-53 recovered 886.5 grams of gold from 63.5 tonnes (average grade 20.6 g/t Au). Reserves calculated as a result of Westmin's 1989-90 diamond drill program total approximately 1000 tonnes @ 0.4 oz/t Au.

Taseko Property (16 km to the west)

Asarco-Westpine has calculated a reserve of 11,078,000 tons grading 0.61% Cu and 0.023 oz Au/t using a cut-off grade of 40% Cu at the Empress zone. Drilling in 1991 is in progress.

Bralorne Deposit (40 km to the southeast)

A northwest trending, gold bearing mesothermal quartz-carbonate vein system has produced about 2.3 million oz Au from 5 million tons processed.

Pioneer Deposit (42 km to the southeast)

A northwest trending, gold bearing mesothermal quartz-carbonate vein system has produced about 1.1 million oz Au from 2.2 million tons processed.

Blackdome Mountain Deposit (50 km to the northeast)

An epithermal quartz vein system has produced 150,000 oz Au from approximately 300,000 tons of ore processed.

5.0 PREVIOUS WORK

1971-1974 Lorn and Jim claims:

Porphyry copper exploration by Cominco covered the eastern portion of the Sluice Box property. Exploration concentrated on Cu/Mo mineralization at the contact of the Lorna Lake Stock. Geological mapping and diamond drilling (1190 ft total in 5 holes). No assays reported.

1981/82 Sluice claims:

Geochemical survey (208 talus fines and contour traverses, analyzed for gold and silver) conducted by Barrier Reef.

A 1400 m x 400 m zone of anomalous gold (up to 140 ppb) and silver (up to 9.7 ppm) values and a second anomalous zone (1500 m x 500 m) with gold up to 80 ppb and silver up to 5.5 ppm were outlined along a northeasterly trend.

1988 Bond Gold Canada Inc:

Investigated the Tchaikazan fault in the Warner Pass area for possible epithermal gold and porphyry copper/gold potential. An extensive alteration zone from the Taylor Windfall Gold Mine (10 km east) to the Lorna Lake stock was identified and the Sluice Box property was staked in May 1988.

A magnetic/VLF-EM survey (62.9 line kilometers) was conducted in July 1988. Nine moderate to strong VLF-EM conductors and a broad zone of high magnetic response were defined. The magnetic/VLF-EM axes trend NE-SW, which reflected the general stratigraphy in the area.

Results of the 1988 survey and previous work indicated a very good potential for the Sluice Box Property to host epithermal-type gold mineralization and/or porphyry copper/gold mineralization.

6.0 REGIONAL AND PROPERTY GEOLOGY (Figure 3)

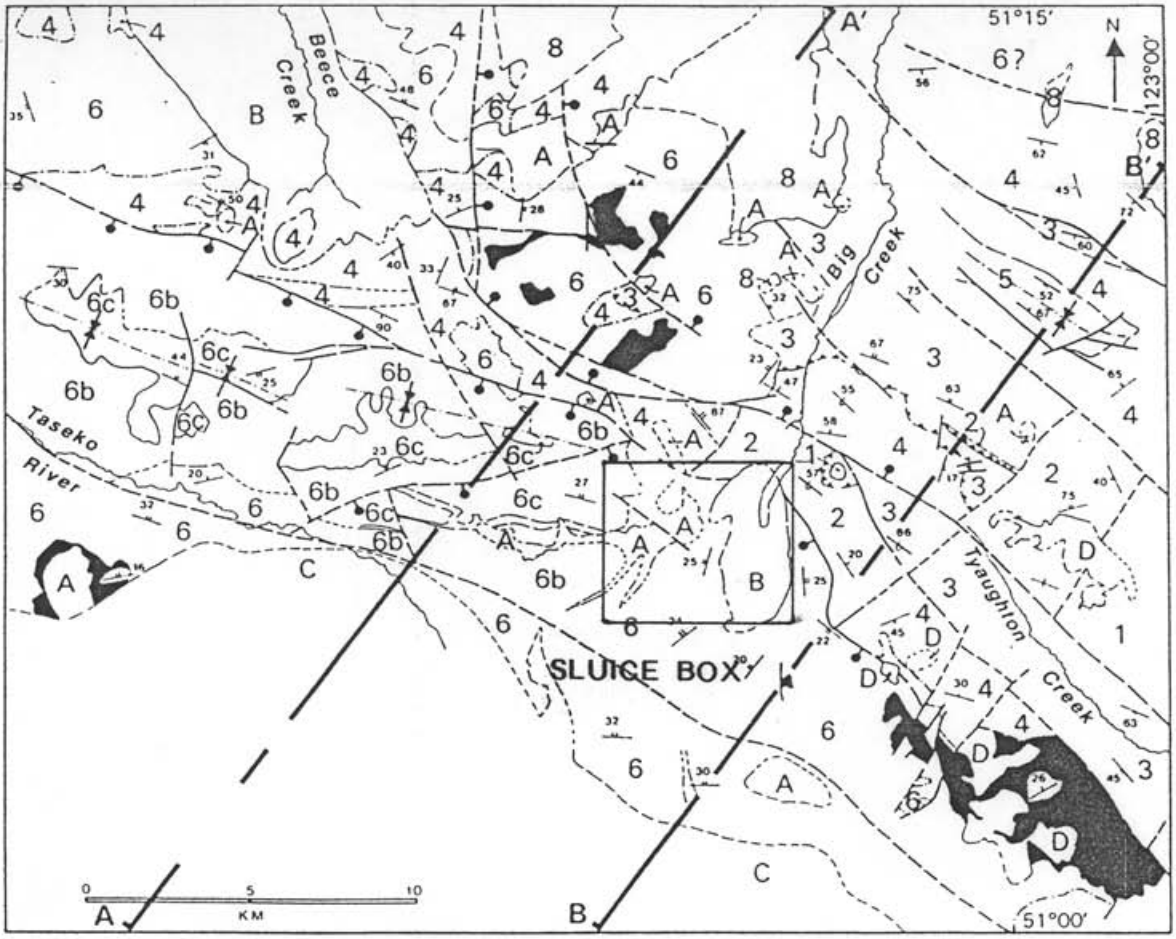
"The geology of the area is summarized from assessment reports and the recent regional mapping of the B.C. Ministry of Energy, Mines and Petroleum Resources Geological Survey Branch (Open Files 1988/9 and 1988/6; Glover et al 1988).

The property lies within the Tyaughton Trough, a continuous northwest trending belt of Triassic to Lower Jurassic sandstone, shale, conglomerate and limestone along the northeastern margin of the Coast Plutonic Complex. Upper Cretaceous terrestrial sediments and volcanic-arc related rocks (Battlement Ridge Group) unconformably overlie the sequences of the Tyaughton Trough. This unconformity appears to be related to the uplift of the Coast Plutonic Complex to the west. The Mesozoic volcano-sedimentary strata are intruded by several stages of Mid-Cretaceous to Early Tertiary stocks.

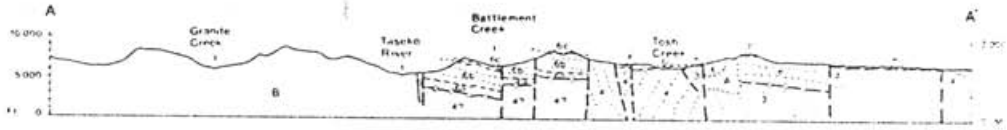
In the area of the Taylor-Windfall Mine the volcaniclastic sequences trend east-west and have gentle dips to the north. The dominant structural trend in the area is northwesterly, reflected by the Tchaikazan Fault and smaller subparallel faults, as well as by the margin of the Coast Plutonic Belt in general. On a smaller scale, northeast trending structures appear to be instrumental in the localization of gold mineralization.

Mid to Late Cretaceous volcanic breccia and/or tuffs, flows, volcaniclastics, and clastic sedimentary rocks of the Upper Cretaceous Battlement Ridge Group underlie the largest portion of the property. At its northeastern corner these rocks are in fault contact with sedimentary rocks equivalent to the Middle Jurassic rocks of the basal Relay Mountain Group.

Two main stocks have intruded the stratified sequences: the Dorrie Peak Stock (hornblende plagioclase porphyry to equigranular, medium-grained diorite) and the younger, Lorna Lake Stock of equigranular quartz monzonite to granodiorite). The Lorna Lake stock appears to be emplaced along a north-northeast trending normal fault which occupies the Big Creek valley. The composition of the Dorrie Peak Stock is similar to that of the spatially associated andesitic volcanic rocks of the Battlement Ridge Group.



SECTION A



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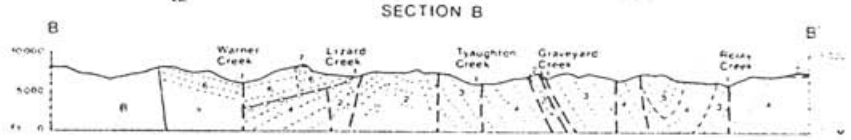

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GEOLOGY AND MINERAL POTENTIAL OF THE WARNER PASS MAP SHEET*
(92O/3)

By J. K. Glover and P. Schiarizza

LEGEND

MIOCENE
- 9 Plateau lava, basalt flows

EOCENE (?)
- Rhyolite, dacite and basalt flows, pyroclastic rocks and volcanic sediments

UPPER CRETACEOUS
- 6c Bedded lahars, andesitic breccia and epiclastic sediments
- 6b Andesitic breccia, lapilli tuff, crystal tuff and ash tuff, with minor andesite to basaltic flows
- 6a Volcanic sandstone and conglomerate; polymict conglomerate
- 6 Undivided, mostly Unit 6b with subordinate Unit 6a
- 5 Micaceous sandstone, shale and polymict conglomerate

LOWER CRETACEOUS
- 4 TAYLOR CREEK GROUP: Argillite, siltstone, sandstone, chert pebble conglomerate and volcanic conglomerate
- 4 Dacite to andesitic flows and volcaniclastic rocks; interbedded with shale and siltstone

MIDDLE JURASSIC TO LOWER CRETACEOUS
- 3 RELAY MOUNTAIN GROUP: UPPER JURASSIC TO LOWER CRETACEOUS: Dark grey shale, grey-brown siltstone, green-grey greywacke and lithic sandstone, grit and conglomerate
- 2 MIDDLE JURASSIC: Interbedded shale, siltstone and calcarenite, greywacke, grit and conglomerate

UPPER TRIASSIC TO LOWER JURASSIC
- 1 TYAUGHTON GROUP: Massive limestone; red conglomerate, grit and conglomerate interbedded with green sandstone and shale

INTRUSIVE ROCKS
- D Equigranular quartz monzonite to granodiorite
- C Hornblende plagioclase biotite porphyries with accessory quartz
- B Coast Plutonic Complex: quartz diorite to quartz monzonite
- A Hornblende plagioclase porphyries

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SLUICE BOX PROPERTY	
REGIONAL GEOLOGY	
Scale	N.T.S. 92O3E / Drawn by
Date Oct 91	Geologist / Figure 3
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Both intrusions have been age dated with the 40Ar/39Ar method by Archibald et al (1989). Hornblende from the Dorrie Peak Stock has yielded an age date of 64.7 ± 2.1 Ma; biotite from the Lorna Lake stock yielded an age of 42 Ma.

A discontinuous belt of siliceous and argillic alteration zones that appears to be stratabound and hosted by pyroclastic rocks of the Battlement Ridge Group extends from the Taylor Windfall Mine in the West to the northern margin of the Lorna Lake Stock in the east. The alteration is concentrated in a sequence of dacitic to andesitic tuffs, lithic tuffs and feldspar crystal tuffs that is surrounded by layers of weakly altered andesitic dust tuff.

The Taylor Windfall Mine is a unique mesothermal and retrograde epithermal gold deposit associated with low pH alteration zones. Eluvial gold was originally discovered in 1920 by E.J. Taylor. Limited bedrock production has been derived from two types of mineralization. Production came from a northeast-striking (N060E, with a dip of 75° to the southeast) fracture zone in the 1930's. This zone contained 5 - 60% tourmaline, pyrite, tennantite, chalcopyrite, and minor sphalerite in a chlorite-sericite gangue. Andalusite-corundum is present in the wallrock.

In 1952/53, 70 tons with a grade of 0.6 oz/t gold were mined from a mineralized and silicified pyroclastic layer within the Battlement Ridge Group. The extension of this siliceous zone with associated argillic and phyllic alteration was the focus of the exploration done by Westmin Resources Ltd at Taylor Windfall. Similar alteration zones occur further East at Battlement Creek and Palisade Bluff.

An alunite sample from the Taylor-Windfall property yielded a 40Ar/39 Ar age of 73.7 ± 0.5 Ma (Archibald et al 1989).

The eastern extension of the mineralized and altered horizon hosting the Taylor Windfall Mine and the Battlement Creek-Palisade Bluff showings contains the Warner Ridge Zone on the Sluice Box Property. Limited sampling (10 rock samples of this variably argillic altered and silicified zone has yielded anomalous gold (up to 306 ppb), mercury (up to 2120 ppb) and arsenic (up to 60 ppm) values (Open File 1987/3).

The LCP Zone, close to the common legal claim post for the Sluice #1 to 4 claims and spatially associated with the main alteration zone, is defined by Barrier Resources 1982 program. It is a northeast trending area, 1,400 meters by 400 meters in size, with anomalous silver and gold values in talus samples. A similar anomalous zone (T zone) of slightly larger extent, was defined by the same survey along strike further to the northeast. The talus fines were sampled as a substitute for soils which are not developed on these slopes.

Minor chalcopyrite and molybdenite mineralization has been reported by Cominco in the early 1970's from the contact area of the Lorna Lake Stock. No assays have been reported from this work.

The numerous rhyolite (felsite) dykes mentioned in Cominco's drill logs that are spatially associated with the Eocene Lorna Lake Stock and the emplacement of this stock along a north-northeast trending fault structure, indicate a mineralization environment similar to that of the epithermal Blackdome deposit. The north-northeast structural trend that controls mineralization at the Blackdome Mine can be related to extensional faulting associated with dextral displacement along the Fraser Fault.

(Vogt and Kennedy, 1988)

Late Cretaceous intrusive and associated extrusive geological events (66.4 - 97.5 Ma) are genetically related to most of the major mineral occurrences in the area. Eocene intrusive and associated extrusive geological events (36.6 - 57.8 Ma) are related to the epithermal Blackdome Au-Ag deposit.

Detailed petrological studies of the Taylor-Windfall (Price, 1986) revealed a mesothermal mineral assemblage (tourmaline, corundum, andalusite) is overprinted by retrograde epithermal (quartz-sericite-chlorite-hematite) mineralization and alteration events.

7.0 1991 EXPLORATION PROGRAM

7.1 METHODS AND PROCEDURES

Detailed 1:500 and reconnaissance 1:10,000 geological mapping, rock chip sampling of altered and/or mineralized bedrock, and detailed silt and soil sampling were carried out on the Sluice 1-8 Claims.

A 060 degree baseline was surveyed by hipchain and compass over a distance of 3 kilometers and flagged at 25 meter intervals. This survey located the 1988 grid which outlined the strong and well defined geophysical anomalies (A,B,C,D,E,F).

Geological mapping was performed over 70% of the property at a scale of 1:10,000 (Figure 6). Grid mapping was done at a scale of 1:500 (Figures 4 and 5). Figure 7 is the index map for Figures 4 and 5.

A total of 205 samples (109 rock chip, 65 silt, 23 soil, and 8 diamond drill core) were collected on the property and sent to International Plasma Laboratory of Vancouver, B.C. (IPL) for 30 element ICP and Au geochemical analysis. See Appendix A for rock, silt, and soil sample descriptions and Appendix B for analytical reports and techniques (Figure 7 shows locations and Cu-Au values).

Silt samples were taken from the active channels of small creeks (i.e. alluvium). Approximately 1/3 of the creek gullys were dry. Some of the dry gully sampling could be considered talus fine material, i.e. colluvium. Samples were from 5-20 cm depth and weighed about 1 kg each. Sample material was placed in tyvex bags and dried.

DDH core from the BJB prospect was re-logged and select mineralized sections 1 to 5 feet in width were sampled and assayed.

Soils were sampled in areas of mature pine forest in the lower elevation areas of Sluice Box Creek at 50 meter intervals to cover the "D,E,F" anomalies. Samples were taken with a grubhoe (average weight about 0.7 kg.), from the B horizon at an average depth of 25 cm, placed in tyvex bags and dried.

7.2 PROPERTY GEOLOGY AND MINERALIZATION

(Figures 4, 5, and 6)

The claim group is mainly underlain by Upper Cretaceous, Battlement Ridge Group, Powell Creek Formation consisting of andesitic-dacitic volcanic breccia, lapilli tuff, crystal tuff, minor fine grained tuffs, flows, and sandstone. This sequence comprises a synorogenic suite of submarine to subaerial volcanic debris and flows with subordinate fine grained tuff. The Powell Creek Formation is approximately 1,000 meters thick and is divided into two units, 7B and 7C (Figure 6). Unit 7B consists mainly of dark green fragmental dacite and andesite with minor fine grained tuff and sandstone, characterized by 1 - 3% disseminated pyrite content and rusty brown weathering. 7C is mainly green to grey coloured fragmental andesites, dacites, and intercalated epiclastics that give the unit a distinctive bedded appearance, contrasting with the underlying poorly sorted, pyritic andesitic to dacitic fragmentals of 7B.

The Dorrie Peak and Lorna Lake Stocks are two separate plutons that have intruded the Upper Cretaceous volcanics and sediments. The Dorrie Peak diorite (with minor porphyritic phases) occurs in the north portion of the Sluice 1 claim.

AKR17

7b

AKR10

AKR 11

AKR12

AKR13

AKR14

7b

74

AKR15

AKR16

78

7b

7b

SLUCE 3 CLAIM- 'B' ANOMALY GEOLOGY AND SAMPLE LOCATIONS

UPPER CRETACEOUS (VOLCANICS)

7b

Lapilli tuff, minor ash tuff, (Powell Ck. Formation), dacitic to andesitic composition, 1-8% disseminated and fracture filling pyrite, 5-10% secondary chlorite.

SYMBOLS

------ VLF-EM conductor axis

outcrop

fracture

rock chip sample

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Clinton Mining Division

Scale 1:500	NTS 92 O/3	Drawn by
Date 25/09/91	Geologist A.K.	Figure 4

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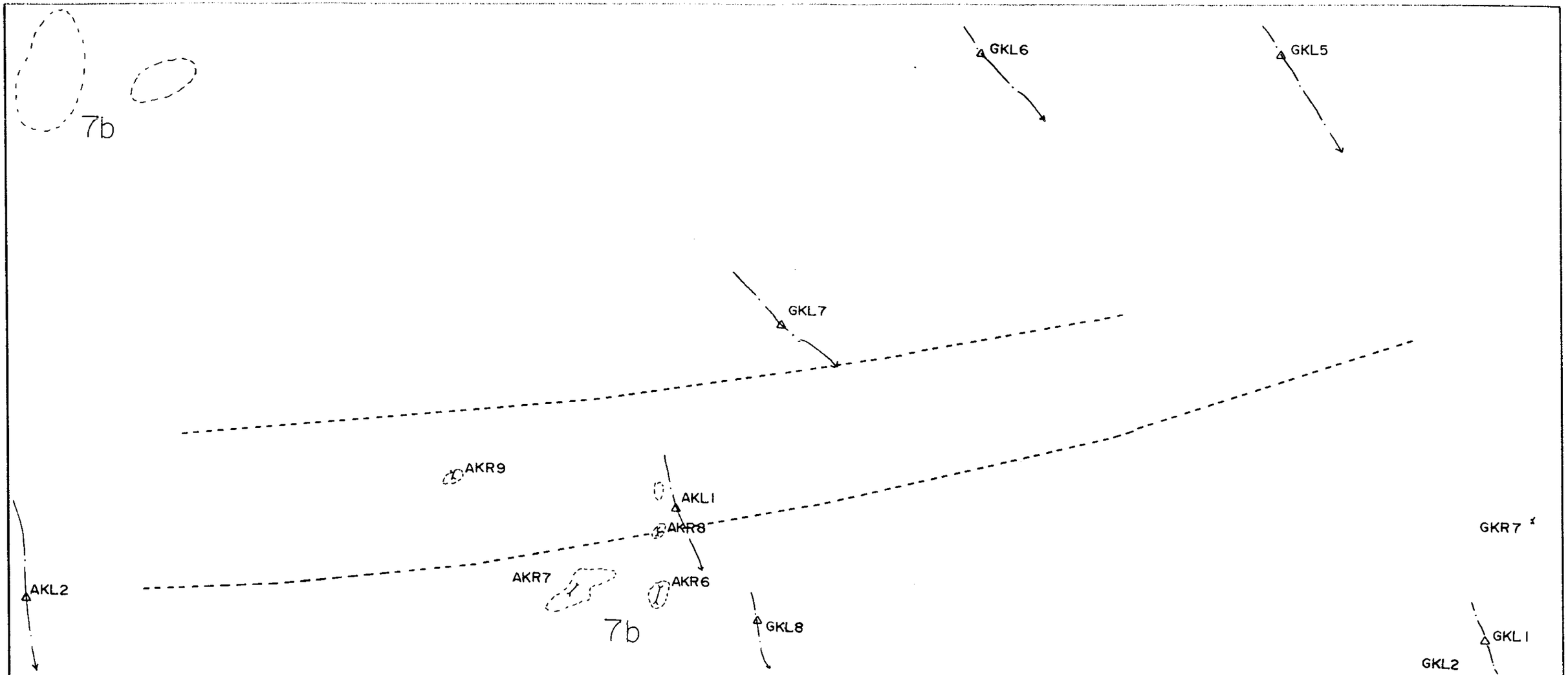
10a



SLUCE 4 CLAIM- 'C' ANOMALY GEOLOGY AND SAMPLE LOCATIONS

UPPER CRETACEOUS (VOLCANICS)

7b — Lapilli tuff, minor ash tuff and crystal tuff, (Powell Ck. Formation), dacitic to andesitic composition, dark green colour, 1-10% disseminated and fracture filling pyrite.

SYMBOLS

------- VLF-EM conductor axis

outcrop

rock chip sample

△ silt sample

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Scale 1:500	NTS 92 O/3	Drawn by
Date 25/09/91	Geologist A.K.	Figure 5

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This stock gives an absolute age date of approximately 65 Ma and is genetically related to the Upper Cretaceous synorogenic suite of the Powell Creek Formation volcanics. The Lorna Lake stock consists of grey to white coloured equigranular quartz monzonite to quartz diorite (with minor plagioclase porphyry). It is dated at 42 Ma and occurs in the east portion of the claim block near Lorna Lake.

Fine grained felsite dykes and sills 1-60 feet wide associated with the Lorna Lake stock cut the entire sequence. The dykes and sills are composed of 40-60% sericite with 40-60% fine grained quartz (referred to as unit F).

Unit 7B (Upper Cretaceous volcanics and sediments) forms a 5 x 1 km 060 degree trending ridge north of Sluice Box Creek that contains moderate to strong alteration, i.e. ubiquitous pyrite, extensive hydrated iron oxides, and widespread silicification and argillic alteration. The intensity of alteration increases near north-northwest trending faults which are located 300-600 meters north and northwest of the 'A' anomaly (LCP Zone). Rock chip and silt samples from these zones show generally low base and precious metals. A zone of vuggy, drusy, brecciated (epithermal) quartz with minor barite occurs on this ridge about 500-700 meters north-northwest of the 'C' anomaly. Above mean geochemical values were recorded in this area which corresponds to a zone of north trending felsite dykes cutting the volcanics.

The BJB Cu-Mo prospect, located on the Sluice 6 claim, (Minfile # 92 O-24) occurs at the west contact of Lorna Lake stock where it intrudes older volcanics and sediments. Cominco performed diamond drilling on this prospect in 1974.

Cu-Mo mineralization is related to a swarm of felsite (also referred to as rhyolite) dykes and sills, 1-60 feet in width, that cut hornfelsed volcanics and sediments near the contact of a porphyritic phase of the Lorna Lake quartz monzonite stock. Chalcopyrite and molybdenite occur as disseminations and fracture fillings primarily in dyke and sill contact zones and in hornfels. To a lesser extent, mineralization occurs in the porphyritic quartz monzonite. Trace to 1% chalcopyrite with traces of molybdenite were observed in fractures oriented parallel and perpendicular to the foliation in the hornfels. Traces of fracture filling chalcopyrite in the porphyritic quartz monzonite corresponded to increased clay alteration in the plagioclase phenocrysts. Weak silicification occurs in the hornfels as 1 - 10 mm quartz veins (density of 1 - 3/meter). Green, hexagonal tourmaline crystals to 5 mm were noted in some of the quartz veins.

7.3 ROCK, SILT, AND SOIL GEOCHEMISTRY

The mean value of 205 rock, silt, and soil samples is less than 12 ppb Au. Ten out of 205 samples were above 40 ppb with one spot high of 215 ppb Au. The high value came from Sluice Box Creek below the 'C' anomaly and is not associated with elevated base metal or silver values. Other above mean Au values do not correlate with base metal or silver values. The only trends or patterns of distribution in the gold geochemistry are a grouping of 8 silt (talus fines) samples that averaged 35 ppb Au (samples GKL29-36 located near the 'G' anomaly ranged from 25-65 ppb Au) and a grouping of 5 silts (AKL12-16) that average 28 ppb Au.

Mean silver values from rock, silt, and soil are less than 1 ppm. There are three significant groupings of samples that have mean values of 1.8 to 4.1 ppm Ag.

These groupings occur in:

a) DDH samples from the BJB prospect (Sluice 6) where relatively high Ag values (up to 8.6 ppm) correspond to elevated Cu-Zn-Mo-W values.

b) Silts AKL16-20 contain Ag values to 6.9 ppm. These samples are talus fines along dry gullies for a distance of 1 km, on a steep slope 0.5-1.0 km southeast of the 'A' anomaly - LCP Zone. Elevated Cu-Pb-Zn-As-Cd values accompany this grouping.

c) Silt (talus fines) samples GKL36-41 occur near the slope north and northeast of the 'C' anomaly. Significant elevated values of Cu-Pb-As are associated with this zone.

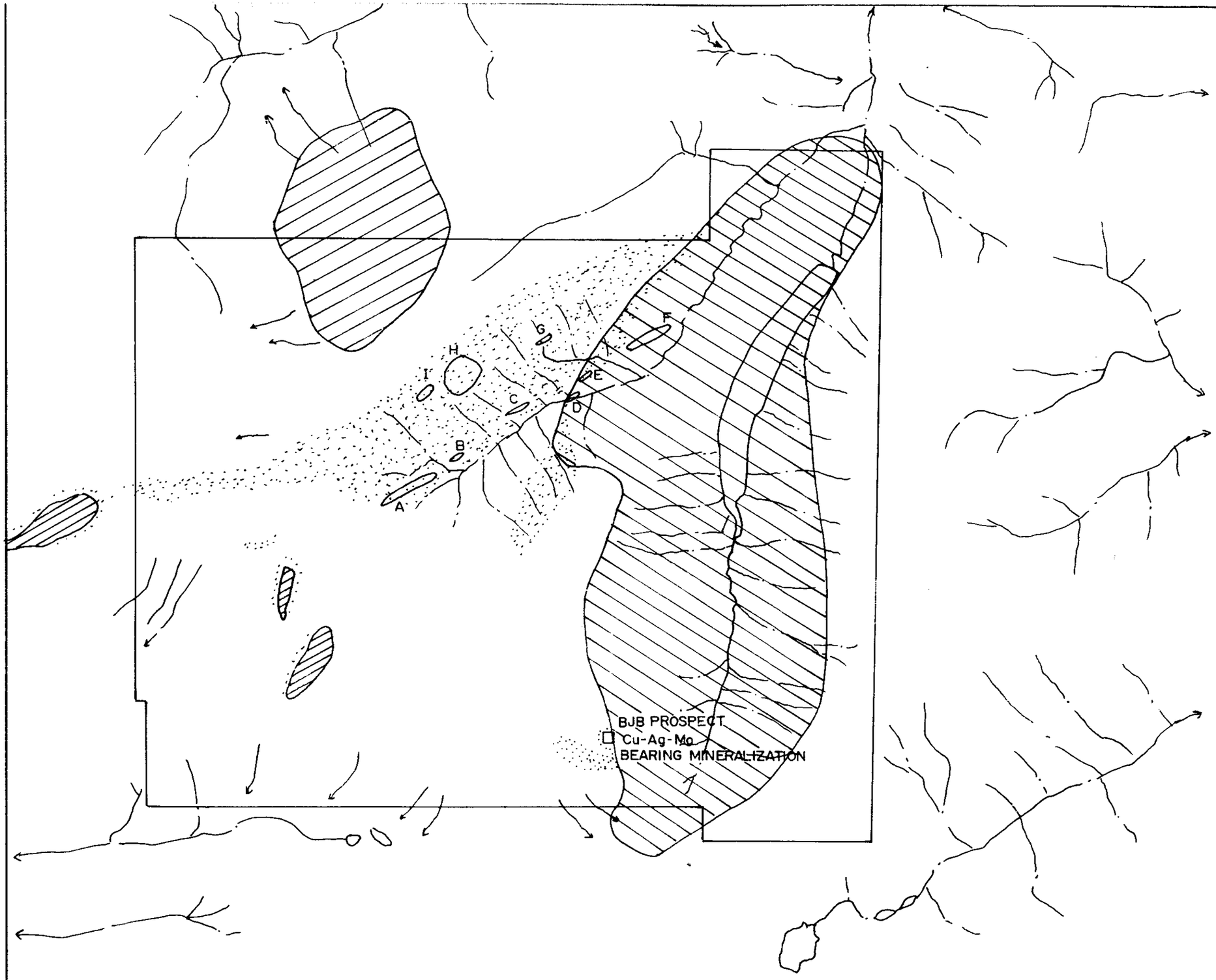
Seventy-five percent of the copper values are below 100 ppm. The highs range up to 6,509 ppm Cu for rock chips, 566 ppm Cu for silts, and 433 ppm Cu for soils. A significant grouping of 8 DDH samples, averaging 2,902 ppm Cu, occurs on the BJB prospect (Sluice 6). Another grouping of samples AKL16-20 (silt-talus fines) averaged 395 ppm Cu. A 20 cm width of a felsite sill with visible chalcopyrite and malachite yielded 6,509 ppm Cu (Sample # AKR-24). Silicified, pyritic, dacitic tuff gave Cu values up to 959 ppm. All relatively high Cu values corresponded to elevated Ag values suggesting that silver bearing sulphides are related to chalcopyrite mineralization.

Ninety percent of the lead values are below 90 ppm. Erratic values up to 843 ppm Pb occur in altered tuffs. Pb geochemistry does not correlate well with other elements.

Ninety percent of the Zn values are below 140 ppm. A few erratic high values to 1,104 ppm Zn, occur in silts. High Zn values correlate directly to high Cd values.

Arsenic values were mostly below 100 ppm with the exception of 10 silt, 3 rock, and 2 soil samples. The highest value came from a stream sediment sample AKL5 (395 ppm As) located from the east flowing drainage at the north end of Sluice 5.

Molybdenum values are mostly below 10 ppm. Rock samples show some erratic highs up to 152 ppm. Zones of relatively high molybdenum content include the DDH's on the Sluice 6 and the vuggy, drusy, brecciated quartz (epithermal) on Sluice 4. A zone of relatively high Mo values occurs 400-800 meters northwest of the LCP Zone. Four silt samples (dry gullies) taken below a fault zone within altered tuffs averaged 56 ppm Mo.



LEGEND

A — GEOPHYSICAL ANOMALY

EOCENE FELSIC PLUTONIC ROCKS

UPPER CRETACEOUS INTERMEDIATE PLUTONIC ROCKS

MINERALIZATION AND / OR ALTERATION

0 1 Km.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
A. A. KIKAUKA
GEOSCIENTIST

N

COMPILATION MAP OF SLUICE BOX PROPERTY

SLUCE 1-8 CLAIMS
CLINTON M.D.

FOR LAC MINERALS LTD.

Scale 1:33,333	N.T.S 92 O/3	Drawn by
Date 15/10/91	Geologist A.K.	Figure 8

RELIANCE GEOLOGICAL SERVICES INC.

8.0 DISCUSSION OF RESULTS (Figure 8)

The objective of the 1991 geochemical survey and geological mapping was to assess and correlate the geophysical anomalies from the 1988 survey with respect to economic mineralization. There were no observed indications of Cu-Pb-Zn-As bearing sulphide mineralization in the areas of the 'A'-'I' geophysical anomalies. Results from geochemical sampling of these high order geophysical anomalies show some significant base and precious metal values, i.e. several orders above mean. However, there are no patterns of distribution to suggest follow up trenching and/or drilling should be undertaken. There was abundant ferricrete in the vicinity of the 'A' anomaly which may represent weathered massive pyrite. Extensive rock, silt, and soil sampling in this area did not reveal any conclusive targets for follow up drilling and/or trenching. The 'H' anomaly corresponds to a magnetite bearing andesitic flow that is well exposed. Sampling this flow and surrounding altered tuffs gave no follow up targets. All 9 high order geophysical anomalies ('A' through 'I' conductors) were investigated and no follow up targets were identified.

Several weak geochemical and corresponding weak geophysical responses require detailed investigation. An alteration zone worthy of follow up interest within the geophysical grid area corresponds to weak conductors that trace through multiple faults located 300-600 meters northwest of the 'A' anomaly. A grouping of silt samples (AKL12-15) gave above mean Mo and Au values.

A second follow up target area within the geophysical grid also corresponds to weak conductive zones located 500-700 meters north-northwest of the 'C' conductor. This area contains vuggy, drusy, brecciated quartz (epithermal) with minor barite, in an area of cross-cutting felsite dykes. The slope below this area gave above mean Au-Ag values in silt samples GKL29-41.

Numerous weak geophysical conductors are worthy of follow up detailed mapping and sampling for an epithermal, Bonanza-type target.

Two follow up target areas outside of the geophysical grid area include the BJB Cu-Mo prospect and the steep northwest facing slope 500-1,000 meters southeast of the 'A' anomaly. The BJB prospect requires IP geophysics to test for buried mineral zones. The northwest facing slope of this ridge contains above mean Cu-Ag-Pb-Zn-As geochemical values that warrant detailed mapping and prospecting.

The Taylor-Windfall gold deposit contains a high temperature assemblage of corundum-andalusite. A combination of high temperature and retrograde thermal events is responsible for a mineral assemblage of quartz-tourmaline-pyrite-tetradymite-enargite-galena-tennantite-sphalerite-chalcopyrite. Gold is related to this mineral assemblage. Similar polymetallic mineral assemblages were not observed on the Sluice Claims, however the geological setting on the Sluice closely resembles the Taylor-Windfall.

The Sluice Claims has many geological signatures related to epithermal and porphyry type ore bodies including a large surface area (>2 km^2) of siliceous and argillic altered, pyritic volcanic rock, proximal plutonic rocks, large scale high-angle faults, and several showings and anomalous geochemical values. It is possible that the epithermal system present in the north part of the claim block is the upper level of a larger buried porphyry system connected by a deep seated fault. Preliminary investigation indicates that mineralization contains low concentrations of base and precious metals. It is possible that the BJB prospect in the southeast part of the claim block may contain a larger porphyry type ore zone of 1-3% chalcopyrite and associated precious metals and molybdenite. A compilation of the target areas is shown in Figure 8.

9.0 CONCLUSIONS

The property has potential to host a base and/or precious metal deposit for the following reasons;

1) Extensive sulphide mineralization covering more than 2 square kilometers is present on the Sluice Claims. This mineralization was formed at the same time, and in the same tectonic setting, as some major copper and gold deposits located within 50 km of the claims.

2) Extensive silicification and argillic alteration with significant Au-Ag-Cu-Pb-Zn-As-Mo geochemical values and geophysical responses accompany these mineralized zones.

3) The BJB Cu-Mo prospect has potential to contain a mineralized zone of considerable size.

10.0 RECOMMENDATIONS

1) An IP survey of approximately 11 line kilometers covering one square km of the BJB prospect.

2) Detailed geological mapping and sampling of:
   a) the BJB prospect,
   b) the area of vuggy, drusy, brecciated epithermal quartz (500-700 meters north-northwest of 'C' anomaly),
   c) the fault and alteration zone with anomalous Au-Mo located 400-800 meters northwest of 'A' anomaly, and
   d) the steep northwest facing slope located 500-1,000 meters southeast of the 'A' anomaly.

Contingent on the results of this recommended phase of exploration, a follow up phase of exploration involving diamond drilling would be recommended.

11.0 COST STATEMENT OF ACTUAL EXPENDITURES

EXPENDITURE TYPE	$ TOTAL
Salaries - Permanent	
- Contract	6870.00
Computer Rental & Lease	
Computer Supplies	
Equipment Repair and Maintenance	
Postage/Courier	
Supplies and Stationary	
Consulting Fees	2750.00
Copies/Maps	250.00
Travel and Accomodation	3130.00
Camp Costs	1866.00
Assays and Analysis	3309.00
Camp Equipment/Supplies	
Aircraft - Fixed Wing	
- Rotary Wing	
Total	$ 18175.00

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CERTIFICATE

I, **PETER D. LERICHE**, of 3125 West 12th Avenue, Vancouver, B.C., V6K 2R6, do hereby state that:

1. I am a graduate of McMaster University, Hamilton, Ontario, with a Bachelor of Science Degree in Geology, 1980.

2. I am registered as a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia.

3. I am a Fellow in good standing with the Geological Association of Canada.

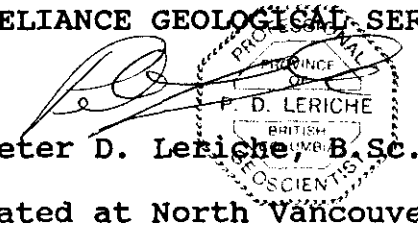
4. I have actively pursued my career as a geologist for twelve years in British Columbia, Ontario, the Yukon and Northwest Territories, Montana, Oregon, Alaska, Arizona, Nevada and California.

5. The information, opinions, and recommendations in this report are based on fieldwork carried out under my direction, and on published and unpublished literature. I have not visited the subject property.

6. I have no interest, direct or indirect, in the subject claims or the securities of Lac Minerals Ltd or Bond Gold Canada Inc.

7. I consent to the use of this report in a Prospectus or Statement of Material Facts for the purpose of private or public financing.

RELIANCE GEOLOGICAL SERVICES INC.



Peter D. Leriche, B.Sc., P.Geo.

Dated at North Vancouver, B.C., this 15th day of October 1991.

CERTIFICATE

I, **ANDRIS KIKAUKA**, of Squamish, B.C. do hereby certify that:

1. I am a graduate of Brock University, St. Catharines, Ontario, with an Honours Bachelor of Science Degree in Geological Sciences, 1980.

2. I am a Fellow in good standing with the Geological Association of Canada.

3. I am registered in the Province of British Columbia as a Professional Geoscientist.

4. I have practised my profession for twelve years in precious and base metal exploration in the Cordillera of Western Canada, and for three years in uranium exploration in the Canadian Shield.

5. The information, opinions, and recommendations in this report are based on fieldwork carried out in my presence or under my direction, and information derived from published and unpublished literature. I was present on the Relay Creek property during September 1991.

6. I am presently employed by Reliance Geological Services Inc. and have no interest, direct or indirect, in the subject claims or the securities of Lac Minerals Ltd or Bond Gold Canada Inc.

7. I consent to the use of this report in a Prospectus or Statement of Material Facts for the purpose of private or public financing.

RELIANCE GEOLOGICAL SERVICES INC.

Andris Kikauka, P. Geo.

Dated the 15th day of October, 1991, at North Vancouver, B.C.

APPENDIX A

SAMPLE DESCRIPTIONS

APPENDIX A

ROCK SAMPLE DESCRIPTIONS

SLUICE BOX PROPERTY

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 AKR1	Dacitic crystal tuff, 1-3 mm plagioclase phenocrysts, 5-8% disseminated pyrrhotite, 20% epidote in 1-3 mm clots.	500
SL 91 AKR2	Dacitic ash tuff, green-grey colour, 5-8% disseminated pyrite, limonite stain, 5% chlorite.	400
SL 91 AKR3	Sericite-quartz-pyrite, probably altered dacitic tuff, 0.1-1.0 mm finely disseminated blebs of pyrite to 8%, extensive zone of alteration (approx. 200 m wide).	500
SL 91 AKR4	Same as above.	500
SL 91 AKR5	Same as above.	500
SL 91 AKR6	Dacitic lapilli tuff, grey, indurated 5-8% disseminated and fracture filling pyrite, 1-10 mm pyrite veins 2-5/m.	400
SL 91 AKR7	Same as above	400
SL 91 AKR8	Dacitic lapilli tuff, grey-green, 5-10% disseminated and fracture filling pyrite, minor chlorite and biotite.	100
SL 91 AKR9	Dacitic lapilli tuff, 3% disseminated pyrite.	30
SL 91 AKR10	Dacitic lapilli tuff, indurated, 3-8% disseminated and fracture filling pyrite, dark green, minor chlorite.	500
SL 91 AKR11	Same as above	500
SL 91 AKR12	Same as above	500
SL 91 AKR13	Same as above	500

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 AKR14	Same as AKR10	500
SL 91 AKR15	Same as above	500
SL 91 AKR16	Same as above	500
SL 91 AKR17	Dacitic lapilli tuff, indurated, 3-5% pyrite, minor chlorite.	200
SL 91 AKR18	Dacitic ash tuff, 3% disseminated pyrite, chlorite developed, weak clay alteration along 170° trending fault gully.	25
SL 91 AKR19	Quartz diorite (Lorna Lake stock 44 m.a.) 3% disseminated pyrite, 0.5-1.5 mm blebs, 5% epidote.	500
SL 91 AKR20	Andesitic lithic tuff, 4% disseminated pyrite, minor chlorite and epidote, at contact with Lorna Lake stock.	500
SL 91 AKR21	Andesitic crystal tuff, 1-3 mm plagioclase phenocrysts. 5% disseminated and fracture filling pyrite, 0.2-2 cm wide pyrite veins. Sample consists of 70% pyrite from 2 cm wide vein from angular talus boulder.	2
SL 91 AKR22	Andesitic crystal tuff, 1-4 cm plagioclase and hornblende phenocrysts, 6% disseminated pyrite along 2.5 meter wide shear zone trending 150°. Limonite staining.	250
SL 91 AKR23	Andesitic crystal tuff, yellow-green colour alteration zone 8 m wide. 3% finely disseminated pyrite.	300
SL 91 AKR24	Felsite sill, 60% quartz, 30% sericite. 0.1-1.0 mm blebs chalcopyrite to 1%, at contact with green andesitic tuff. 2 m wide sill.	20
SL 91 AKR25	Dacitic tuff, indurated, silicified, 0.1-1.0 cm wide pyrite-magnetite veins along fractures 5-10/m. Angular float in talus.	15

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 GKR001	Silicified, pyritic dacitic tuff (Powell Creek Formation). 1.2 meter chip sample; orientation: 160°. Dark grey to black in colour. Intensely oxidized, rusty brown weathered surface. Moderate to intense pervasive silicification. Contains 2-6% disseminated and fracture controlled pyrite.	120
SL 91 GKR002	Hornfelsed, silicified, pyritic dacite tuff (Powell Creek Formation). 2 m chip sample. Orientation: 103°. Intensely oxidized, orange brown weathered surface. Dark grey to purplish grey fresh surface. Intense pervasive silicification. Contains 5-10% fracture controlled and disseminated pyrite. Moderate to high fracture density.	200
SL 91 GKR003	Biotite Quartz Diorite (dyke). Greyish white, fine to medium grained. Contains ~20% quartz. 10% ≤1 mm biotite grains. Weathered surface intensely oxidized. Moderate to high fracture density. Contains trace to 1% disseminated pyrite.	
SL 91 GKR004	Hornfelsed, siliceous pyritic dacitic tuff (Powell Creek Formation). 1.5 m chip sample; orientation 065°. Brown, intensely oxidized weathered surface. Dark grey to purplish-grey fresh surface. Intense, pervasive silicification. Moderate to high fracture density. Contains ~10% disseminated and fracture filling pyrite. Chip interval begins at contact with biotite quartz diorite dyke.	150
SL 91 GKR005	Silicified dacitic tuff (Powell Grey weathered surface; very little oxidation. Dark grey fresh surface. Moderate pervasive silicification. Contains 5% 1-2 mm wide quartz stringers; 2-3% disseminated pyrite.	

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 GKR006	Hornfelsed, silicified, pyritic tuff (Powell Creek Formation. Dark grey fresh surface. Minor actinolite occurs along fracture surfaces. Moderate, pervasive silicification. Contains roughly 5% disseminated pyrite.	
SL 91 GKR007	Quartz diorite (Lorna Lake stock?) This sample may have been taken from a subcrop, but is more probably from float. Greyish-white in colour. Contains 20% quartz; 60% plagioclase, and 15-20% hornblende. Medium grained. Contains no sulphides.	
SL 91 GKR008	Silicified, pyritic, dacitic to andesitic ash tuff (Powell Creek Formation). 1.5 m chip sample. Bluish-grey fresh surface. Intense pervasive silicification. Contains 5-8% disseminated pyrite.	150
SL 91 GKR009	Quartz monzonite to granodiorite (Lorna Lake stock). Contains 20-30% quartz, variable proportions of K-spar and plagioclase. Contains up to 10% fine grained biotite and 10% chloritized hornblende. Texture is medium grained.	
SL 91 GKR010	Silicified, hornfelsed, pyritic dacitic lapilli ash tuff (Powell Creek Formation). 1.5 m chip sample; orientation 072°. Rusty brown, oxidized weathered surface; grey to purplish grey fresh surface. Moderate pervasive silicification. Contains 3-8% disseminated pyrite.	150
SL 91 GKR011	Silicified, pyritic, dacitic to andesitic tuff. (Powell Creek Formation). Rusty brown, oxidized weathered surface. Blue grey fresh surface. Moderate pervasive silicification. Contains 3-8% disseminated and fracture filling pyrite.	

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 GKR012	Silicified, pyritic dacite tuff (Powell Creek Formation). 1.5 m chip sample; orientation 041°. Intensely oxidized, yellowish brown to rusty brown weathered surface. Grey to purplish grey fresh surface. Moderate to intense pervasive silicification. Contains 4-10% disseminated and fracture filling pyrite.	150
SL 91 GKR013	Pyritic silicified dacitic tuff (Powell Creek Formation). 1.5 m chip sample. Orientation 066°. Taken roughly in continuum with SL 91 GKR013. Yellowish to rusty brown and occasionally pinkish weathered surface. Grey to purplish grey fresh surface. Heavily fractured. Moderate to intense pervasive silicification. Contains 5-10% disseminated and fracture filling pyrite.	150
SL 91 GKR014	Rhyolite dyke. Whitish grey, very fine grained groundmass. Contains 5-10%, 1-2 mm quartz eyes. Contains 3% disseminated and fracture filling pyrite.	
SL 91 GKR015	Silicified, pyritic dacite (Powell Creek Formation). Yellow-brown to rusty brown, intensely oxidized weathered surface. Whitish grey to grey fresh surface. Intense pervasive silicification. Contains 5-7% disseminated pyrite.	
SL 91 GKR016	Silicified, pyritic, dacitic tuff. Oxidized, brownish to yellow brown weathered surface. Grey to purplish grey fresh surface. Moderate to intense pervasive silicification. Heavily fractured. Contains 5-8% disseminated and fracture filling pyrite.	

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 GKR017	Silicified, pyritic, dacitic tuff. Oxidized, rusty brown to yellowish weathered surface. Whitish grey to grey fresh surface. Intensely fractured. Moderate to intense pervasive silicification. Contains 5-8% disseminated and fracture filling pyrite.	
SL 91 GKR018	Hornfelsed, silicified, pyritic dacite. Yellowish to rusty brown weathered surface. Purplish grey fresh surface. Intense, pervasive silicification. Contains 3-7% disseminated and fracture filling pyrite.	
SL 91 GKR019	Hornfelsed, silicified, pyritic dacitic tuff. Rusty brown, oxidized weathered surface. Whitish grey fresh surface. Moderate pervasive silicification. Contains 3-7% disseminated and fracture filling pyrite.	
SL 91 NLR01	A select sample of rusty weathering dacitic ash tuff containing 5% medium grained disseminated pyrite.	10
SL 91 NLR02	A select sample of rusty weathering andesitic crystal tuff containing 5% medium-grained disseminated pyrite.	10
SL 91 NLR03	As NLR01.	10
SL 91 NLR04	A chip sample across 80 cm of a felsite dyke. Highly siliceous, there is no crystal development. Contains disseminated pyrite (3%) and stringers of pyrite <1 mm wide.	80
SL 91 NLR05	A select sample from a white felsite dyke composed primarily of sericite (54%) and quartz (40%). Small (1 mm) feldspar crystals (2%) are visible in the matrix along with black mafic mineral grains (3%). Contains disseminated fine grained pyrite (1%).	15

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 NLR06	A select sample from a fine grained equigranular biotite hornblende diorite containing disseminated fine to medium grained pyrite (2%).	15
SL 91 NLR07	A select sample of a rusty weathering dacitic ash tuff containing felsite dykes 2-3 cm wide. Pyrite (3%) is found on fractures and as very fine disseminated grains. Fractures are spaced 2-4 cm apart in random orientations.	12
SL 91 NLR08	A select sample of BQ drill core. A white felsite dyke containing malachite and azurite staining. The dyke is composed primarily of sericite and quartz; small (1 mm) feldspar crystals (2%) are present in the matrix along with black mafic mineral grains (<1%). Fine grained pyrite (1%) is disseminated throughout the sample.	8
SL 91 NLR09	A select sample of a rusty weathering plagioclase porphyry equigranular medium grained diorite containing 3% disseminated medium-grained pyrite.	15
SL 91 NLR10	A chip sample across 50 cm of a rusty weathering andesitic crystal tuff containing very fine grained disseminated pyrite (3%).	50
SL 91 NLR11	As NLR10	50
SL 91 NLR12	As NLR10	50
SL 91 NLR13	A select sample of rusty weathering dacitic ash tuff containing 1% disseminated fine grained pyrite and 1 mm wide vuggy quartz stringers containing disseminated fine grained pyrite.	10

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 NLR14	A select sample of rusty weathering dacitic ash tuff containing 1% fine grained disseminated pyrite. Hematitic staining on fractures and weathered surfaces. Thin (1 mm wide) quartz veins with disseminated fine grained pyrite are present.	10
SL 91 NLR15	A select float sample of rusty weathering dacitic ash tuff containing very fine grained disseminated pyrite (5%).	15
SL 91 NLR16	A chip sample across 30 cm of a rusty weathering dacitic crystal tuff containing 5% fine to medium grained pyrite as discontinuous stringers and as disseminated blebs and cubes.	30
SL 91 NLR17	As NLR16	30
SL 91 NLR18	A chip sample across 1 m of a rusty weathering dacitic crystal tuff containing 5% fine to medium grained pyrite as discontinuous stringers and as disseminated blebs and cubes.	100
SL 91 NLR19	A chip sample across 80 cm of a hematitic (2%) dacitic ash tuff. Pyrite (1%) occurs as disseminated fine grained blebs, as does hematite. Hematite also surrounds some pyrite blebs.	80
SL 91 NLR20	A select sample of rusty weathering dacitic ash tuff containing 5% medium-grained disseminated pyrite.	15
SL 91 NLR21	A select sample of white dacitic ash tuff containing bands 4 mm wide of disseminated magnetite (5%) and magnetite blebs in fracture surfaces.	15
SL 91 NLR22	A chip sample across 60 cm of a rusty weathering andesitic crystal tuff containing 4% disseminated medium-grained pyrite.	60

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 NLR23	A chip sample across 50 cm of a rusty weathering dacitic ash tuff containing 3% pyrite as disseminated fine-grained blebs and <1 mm wide stringers with quartz.	50
SL 91 NLR24	A select sample of rusty weathering andesitic crystal tuff containing 2% medium-grained disseminated pyrite.	15
SL 91 NLR25	A select sample of a dark grey andesitic flow unit containing 3% disseminated magnetite.	10
SL 91 NLR26	A chip sample across 50 cm of rusty weathering dacitic ash tuff containing 5% fine-grained disseminated pyrite.	50
SL 91 NLR27	A chip sample across 50 cm of a slightly rusty weathering dacitic ash tuff containing disseminated blebs of fine-grained pyrite (2%) and magnetite (2%).	50
SL 91 NLR28	A chip sample across 80 cm of a faintly rusty weathering dacitic ash tuff containing blebs of fine-grained magnetite (4%) and pyrite (<1%).	80
SL 91 NLR29	A select sample of a white aphyritic felsite dyke (50% sericite, 40% quartz) containing medium-grained disseminated pyrite (1%) and magnetite (1%). Remainder of rock composed of fine-grained disseminated mafic minerals, medium-grained quartz eyes and feldspar phenocrysts.	15
SL 91 NLR30	A select sample of faintly rusty weathering dacitic ash tuff containing 5% medium grained pyrite blebs.	15

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 NLR31A	A select sample of a vuggy, drusy, brecciated epithermal vein. Quartz crystals up to 1 cm in length coat vugs. Vein is limonite stained and occurs in a grey cherty siliceous rock.	15
SL 91 NLR31B	A select sample of a vuggy, drusy, brecciated epithermal vein. Quartz crystals (up to 1 cm in length) and barite crystals up to 2 cm in length coat vugs. Vein is limonite stained and is hosted by a grey cherty siliceous rock.	15
SL 91 NLR32	A select sample of a rusty weathering dacitic ash tuff containing 5% pyrite as fine grained disseminated blebs and stringers (<1 mm wide) and 1% disseminated fine-grained magnetite.	10
SL 91 NLR33	A select sample of a rusty weathering dacitic ash tuff containing 3% fine grained disseminated pyrite.	10
SL 91 NLR34	A select sample of a rusty weathering dacitic ash tuff containing 3% fine grained disseminated pyrite.	10
SL 91 NLR35	A select sample of rusty weathering dacitic ash tuff containing 4% disseminated medium-grained pyrite.	10
SL 91 NLR36	A select sample of rusty weathering dacitic ash tuff containing 5% pyrite as disseminated medium-grained blebs.	10
SL 91 NLR37	A select sample of rusty weathering dacitic ash tuff containing 8% pyrite as disseminated medium-grained blebs and discontinuous contorted stringers.	15
SL 91 AMR01	Select sample of rusty pyritic andesitic crystal tuff at contact with felsite dyke. 10% pyrite.	

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 AMR02	1 m chip sample of light grey pyritic ash tuff 3 m N. of AMR01. 10 -15% pyrite.	100
SL 91 AMR03	Select sample of propylitically altered andesitic lapilli tuff. 5% pyrite, 5% epidote. Trace chalcopyrite.	
SL 91 AMR04	Rusty pyritic hornfelsed lapilli tuff at upper contact with granite sill. 5% pyrite.	
SL 91 AMR05	Rusty pyritic ash tuff. Medium grey fresh surface. 15-20% disseminated pyrite.	
SL 91 AMR06	Pyritic plagioclase porphyry diorite. 25 -30% euhedral plagioclase. 10 - 15% hornblende. 5-10% epidote. 40-55% fine grained grey groundmass. 1% disseminated pyrite.	
SL 91 AMR07	Ferrocrete at groundwater spring below pyritic crystal ash tuff. 70% tuff fragments in limonite matrix.	
SL 91 AMR08	Pyritic ash tuff, moderately silicified.	
SL 91 AMR09	Clay altered fault gouge in pyritic ash tuff. Light grey mush of 10% quartz, sericite and clay (75%) and pyrite (15%).	
SL 91 AMR10	Bleached pyritic crystal ash tuff. 30% ghost plagioclase in a light grey pyritic matrix. Approx. 20-25% pyrite. Chip sample over 1 m.	
SL 91 AMR11	Light grey silicified crystal tuff. Trace pyrite. 10% stringers of fine-grained black mineral. Select sample.	
SL 91 AMR12	Highly silicified ash tuff(?) 95% silica. 5% light blueish green mineral with hardness =1. Dark red hematite stain in fractures and on weathered surface. Abundant jarosite. No visible sulphides.	

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 AMR13	Rusty pyritic crystal ash tuff similar to AMR10.	
SL 91 AMR14	Rusty silicified ash tuff. white and brown on weathered surface. Pale grey on fresh surface. 1% pyrite, 10% quartz crystal fragments. Strong limonite staining along fractures.	
SL 91 AMR15	Magnetite breccia float. Hydrothermal(?) magnetite with 75% silicified angular crystal tuff clasts. No visible sulphides.	
SL 91 AMR16	Rusty silicified ash tuff. Grey brown on weathered surface. Pale grey on fresh surface. 5% disseminated pyrite. 5% medium grained epidote replacing plagioclase.	
SL 91 AMR17	Highly porous silica float. Weak to moderate limonite stain. No visible sulphides. With pyritic crystal ash tuff in talus.	
SL 91 AMR18	Rusty silicified ash tuff. Very reddish on weathered surface. Light grey fresh surface. 15% disseminated pyrite.	
SL 91 AMR19	Very similar to AMR18.	
SL 91 AMR20	1 m chip sample of rusty pyritic ash tuff. Pale grey fresh surface. 15-20% disseminated pyrite.	100
SL 91 AMR21	Identical to AMR20	100
SL 91 AMR22	Highly altered pyritic tuff. Strong yellow-brown limonite stain. Pale grey fresh surface. 10-15% disseminated pyrite. 1 m chip sample.	100
SL 91 AMR23	Pyritic crystal ash tuff. Bleached. 10% 1-2 mm broken plagioclase crystals. 10% disseminated pyrite.	

SAMPLE NO.	DESCRIPTION	WIDTH (cm)
SL 91 AMR24	Rusty, highly silicified crystal ash tuff. 1-5% disseminated pyrite.	
SL 91 AMR25	Rusty, highly silicified ash tuff. 5-10% pyrite.	
SL 91 AMR26	Bleached silicified rusty pyritic tuff. Pale grey fresh surface. 10-15% pyrite.	
SL 91 AMR27	Very similar to AMR26 but with hematite stain on weathered surface.	

SILT SAMPLE DESCRIPTIONS

SLUICE BOX PROPERTY

SAMPLE NO.	DESCRIPTION
SL 91 AKL1	Dry gully, light brown colour, sandy and silty texture, 10 cm depth.
SL 91 AKL2	Same as above.
SL 91 AKL3	2 litres/sec. flow rate, reddish-brown colour, 5 cm depth.
SL 91 AKL4	0.3 litres/sec. flow rate in spring, light grey colour silt, abundant organics. 10 cm depth.
SL 91 AKL5	6 litres/sec. flow rate. Black-grey colour silt, 5 cm depth.
SL 91 AKL6	Seep from talus slope, 0.5 litres/sec. flow rate, light brown colour, 10 cm depth.
SL 91 AKL7	Seep from talus slope, 2 litres/sec flow rate, light grey colour silt. 10 cm depth.
SL 91 AKL8	Main creek, 15 litres/sec. flow rate, reddish brown colour, 10 cm depth, abundant ferricrete on banks.
SL 91 AKL9	Gully in bedrock, 0.1 litres/sec. flow rate. Reddish brown colour, 10 cm depth.
SL 91 AKL10	Dry gully, reddish brown colour, 10 cm depth.
SL 91 AKL11	" " " " " " "
SL 91 AKL12	" " " " " " "
SL 91 AKL13	" " " " " " " gully forms 140° trending faults, in sericite-quartz-pyrite altered dacitic tuffs (forming hoodoo).
SL 91 AKL14	Dry gully, reddish brown colour, 10 cm depth, fault gully trending 140°.
SL 91 AKL 15	Dry gully, reddish brown colour, 10 cm depth.

SAMPLE NO.	DESCRIPTION
SL 91 AKL16	0.2 litres/sec. flow rate. Dark brown colour silt. Malachite and chalcopyrite mineralization in float boulders, 10 cm depth.
SL 91 AKL17	Dry gully with abundant rust staining, light brown colour sand and silt, 15 cm depth.
SL 91 AKL18	Dry gully, abundant rust staining in pyritic andesite tuffs/flows, dark brown colour sand and silt, 15 cm depth.
SL 91 AKL19	Same as above.
SL 91 AKL20	Same as above.
SL 91 GKL001	Taken from stream 30-40 cm wide, 3-4 cm deep, in vicinity of VLF anomaly "C". Rusty brown in colour, medium to coarse in texture. Associated rock: variably silicified and pyritic dacitic to andesitic tuffs. Direction of flow: 150°.
SL 91 GKL002	Taken from north channel of Sluice Creek, near "C" anomaly. Channel here is 1.5 m wide, 3-5 cm deep, and flows at 064°.
SL 91 GKL003	Taken near "C" anomaly from middle channel of Sluice Creek which is 3 m wide, 5-10 cm deep, and flows at 064°. Brown in colour, medium in texture. Associated rock: variably silicified and pyritic tuffaceous volcanics.
SL 91 GKL004	Taken from South (main) channel of Sluice Creek near "C" anomaly. This is a swift flowing creek, 3 m wide, 20-35 cm deep, flowing at 053°. Sample is brown in colour, medium texture. Associated rock: andesitic tuffs and epiclastics, some of which are intensely hematized.
SL 91 GKL005	Taken from small (15-20 cm wide, 3 cm deep) stream which flows at 141° towards the east end of VLF anomaly "C". Rusty brown in colour, fine to medium in texture. Associated rock: silicified dacitic to andesitic ash and crystal tuff (Powell Creek Formation).
SL 91 GKL006	Taken from dry gully which trends 131° within VLF anomaly "C". Fine in texture, brownish to reddish brown in colour. Depth: 6 cm.

SAMPLE NO.	DESCRIPTION
SL 91 GKL007	Taken from dry drainage running 113° in anomaly "C". Red brown, fine in texture. Depth: 6 cm Associated rock: andesitic crystal tuffs and dacitic lapilli tuffs.
SL 91 GKL008	Taken from dry drainage which runs 158° within "C" anomaly. Depth: 8 cm. Colour: red brown. Texture: fine to medium. Associated flow: Andesitic crystal tuffs and dacitic lapilli tuffs (Powell Creek Formation).
SL 91 GKL009	Taken from dry drainage, trending 318°, at base of snowfield. Depth: 6 cm. Colour: brown. Texture: fine to sandy. Adjacent float: locally derived andesitic ash tuffs, some of which are pyritic.
SL 91 GKL010	Talus fines. Depth: 10 cm. Colour: brown. Texture: Medium to coarse. Adjacent Talus: greyish, occasionally pyritic, andesitic ash tuff.
SL 91 GKL011	Talus fines collected from edge of snowfield. Colour: brown. Texture: medium. Depth: 4 cm.
SL 91 GKL012	Taken from Sluice Creek at eastern end of VLF anomaly "D". Creek here is swift flowing, 2.5 m wide, 40 cm deep. Texture: fine to medium. Colour: light brown.
SL 91 GKL013	Taken from a tiny stream (10 cm wide, 5 cm deep) which flows at 357°. Sample comprises yellowish brown clayey material. Associated talus: biotite quartz monzonite of the Lorna Lake stock. Situated in "D" anomaly.
SL 91 GKL014	Taken from tiny (25 cm wide, 4 cm deep) stream which flows at 348° within VLF anomaly "D". Colour: brown. Texture: fine. Adjacent float: Lorna Lake stock material.
SL 91 GKL015	Taken from dry gully flowing at 359° at southwest edge of VLF anomaly "D". Depth: 12 cm. Colour: brown. Texture: medium. Adjacent rock: Lorna Lake stock intrusive, Powell Creek volcanics (possibly glacially transported).
SL 91 GKL016	Taken from stream 75 cm wide, 7 cm deep, moderately flowing at 070°. Colour: brown. Texture: medium to coarse.

SAMPLE NO.	DESCRIPTION
SL 91 GKL017	Taken from stream 50 cm wide, 4 cm deep, with moderate rate of flow trending 210°. Colour: light grey-brown. Texture: fine to medium. Associated float: Ash and lapilli tuffs (Powell Creek Formation) some of which are highly silicified and pyritized.
SL 91 GKL018	Taken from seep at headwaters of Sluice Creek. Width of seep: 89 cm, depth: 1 cm. Direction of flow: 028°. Colour: rusty brown. Texture: fine silt embedded within ferricrete crust. Adjacent flow: Powell Creek volcanic material within glacial moraine.
SL 91 GKL019	Taken from main channel of headwaters of Sluice Creek. Moderate to swift flowing, 2.2 m wide, 22 cm deep. Direction of flow: 084°. Colour: rusty brown. Texture: fine silt embedded within ferricrete crust.
SL 91 GKL020	Taken from small stream near headwaters of Sluice Creek (width 1.4 m, depth: 5 cm) flowing at a moderate rate at 140°. Rusty brown in colour, fine in texture. Adjacent float (glacial debris) Powell Creek volcanic material.
SL 91 GKL021	Taken near headwaters of Sluice Creek (Anomaly "A"). Width of stream: 2 m; depth: 3 cm. Moderate rate of flow at 117°. Colour: light brown, texture: moderate to coarse.
SL 91 GKL022	Taken from stream at headwaters of Sluice Creek. Width: 3.5 m, depth: 2 cm. Moderate rate of flow at 101°. Colour: rusty brown, texture: fine.
SL 91 GKL023	Taken from stream near headwaters of Sluice Creek, flowing moderately at 062°, 1.2 m wide and 1.5 cm deep. Colour: rusty brown. Texture: fine silt embedded in ferricrete crust.
SL 91 GKL024	Taken from north channel of headwaters of Sluice Creek, which flows swiftly at 055°. Width: 95 cm; Depth: 5 cm; Colour: light brown; Texture: medium to coarse.

SAMPLE NO.	DESCRIPTION
SL 91 GKL025	Taken at source of seep near headwaters of Sluice Creek. This seep is 30 cm wide and 2 cm deep, and flows slowly at 060°. Colour: light brown, Texture: medium to coarse.
SL 91 GKL026	Taken from tributary of Sluice Creek near headwaters. Width of stream: 2 m; depth: 6 cm. Flows swiftly at 103°. Colour light brown. Texture: fine to medium.
SL 91 GKL027	Taken from swift flowing tributary of headwaters of Sluice Creek. 1.1 m wide, 5 cm deep. Direction of flow, 118°. Colour: light brown. Texture: medium to coarse.
SL 91 GKL028	Taken from dry gully. Colour: brown. Texture: medium. Slope 18° at 108°.
SL 91 GKL029	Talus fines. Colour: brown. Texture: medium to coarse. Slope 22° at 172°. Adjacent talus: Powell Creek Formation lapilli tuffs and tuff breccia.
SL 91 GKL030	Talus fines. Colour: brown. Texture: fine. Depth: 7 cm. Slope: 24° at 157°. Associated rock: dacitic lapilli tuffs of the Powell Creek Formation.
SL 91 GKL031	Talus fines. Colour: brown. Texture: fine to medium. Depth: 14 cm. Slope: 20° at 112°. Associated talus: pyritic, dacitic lapilli tuffs.
SL 91 GKL032	Talus fines, collected from edge of dry gully. Depth: 17 cm. Colour: brown. Texture: fine to medium. Slope: 23° at 131°.
SL 91 GKL033	Talus fines. Colour: red brown. Texture: medium. Depth: 4 cm. Slope: 34° at 087°.
SL 91 GKL034	Talus fines collected from edge of dry gully. Colour: red brown. Texture: medium. Depth: 8 cm. Slope: 24° at 127°. Adjacent talus: layered ash tuffs, lapilli tuff, most of which is pyritic.
SL 91 GKL035	Talus fines. Colour: light brown. Texture: fine to medium. Depth: 15 cm. Slope 25° at 147°. Collected from edge of dry gully. Adjacent talus: Powell Creek Formation ash and crystal tuffs.

SAMPLE NO.	DESCRIPTION
SL 91 GKL036	Talus fines. Colour: light brown. Texture: medium. Depth: 9 cm. Slope: 30° at 141°. Collected from centre of talus fan. Adjacent talus composed of at least 50% felsic sill material.
SL 91 GKL037	Talus fines. Colour: brown. Texture: fine. Depth: 6 cm. Slope: 16° at 141°. Adjacent rock: andesitic ash and crystal tuff.
SL 91 GKL038	Talus fines. Colour: brown. Texture: fine. Depth: 5 cm. Slope: 24° at 152°. Adjacent talus: siliceous, pyritic Powell Creek volcanics.
SL 91 GKL039	Taken from small seep to the east of VLF anomaly "G" (15 cm wide, 1 cm deep, flowing at 163°). Colour: rusty brown. Texture: fine to medium. Associated rock: dacitic to andesitic ash and crystal tuffs. Commonly pyritic.
SL 91 GKL040	Talus fines. Colour: light brown. Texture: fine to medium. Depth: 6 cm. Slope: 30° at 157°. Associated talus: Pyritic andesitic tuffs, and andesitic to basaltic porphyritic flow material.
SL 91 GKL041	Taken from headwaters of first major tributary of Sluice Creek (60 cm wide, 3 cm deep) flowing 067°. Rusty brown in colour, medium in texture.
SL 91 NLL01	A silt sample from a glacial runoff stream at the foot of the glacier. On north side of the head of Sluice valley.
SL 91 NLL02	225 meters down stream from NLL01. Running water.
SL 91 AML01	Taken approximately 100 m from base of glacier, from glacially fed stream. Reddish brown silt. Rocks in stream are pyritic ash tuffs. No tributaries.
SL 91 AML02	Taken from south running melt-water stream approximately 250 m. west of camp. Stream runs over pyritic tuffs and ferrocrete. No tributaries.

APPENDIX B

ANALYTICAL REPORTS AND TECHNIQUES

INTERNATIONAL PLASMA LABORATORY LTD

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Fax (604) 879-7898

R E P O R T S U M M A R Y Report:[9100408 R]

A N A L Y T I C A L R E P O R T

Origin Inception Date:[Sep 23, 1991]

Client:[	200	Reliance Geological Services Ltd.]
Contact:[		George King]
Project:[	0	741 Sluice Claim]
Amount/Type:[	205	Rock -Rock Reject Stored 3 Mon]
[		-Soil Reject Discarded]

Analytical Requisition

Geochemical:[	Au(DiBK/AAS 10g)/ICP(AqR)30]		
Assay:[	Au(FA/AAS 20g)]	ICP:[	30]
Comments:[	None		]

Delivery Information Reporting Date:[Sep 28, 1991]

Principal Destination (Hardcopy,Fascimile,Invoice)

Company:[	Reliance Geological Services Ltd.]
Address:[	241 East 1st Street]
City/Province:[	North Vancouver, BC]
Country/Postal:[	V7L 1B4]
Attention:[	Peter Leriche/Andris Kikalka]
Fascimile:[	(604)988-4653]

Secondary Destination (Hardcopy)

Company:[	]
Address:[	]
City/Province:[	]
Country/Postal:[	]
Attention:[	]
Fascimile:[	]

6 data pages in this report. Approved by: _____

B.C. Certified Assayers

iPL CODE: 910928-16:47:24

Report: 9100408 R Reliance Geological Services Ltd. Project: 741 Sluice Claim Page 1 of 6 Section 1 of 2

Sample Name	Type	Au ppb	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm
SL 91 AKR 001	Rock	<5	--	<0.1	25	<2	133	15	8	<3	3	<10	<2	<0.1	23	20	<5
SL 91 AKR 002	Rock	5	--	<0.1	68	<2	53	24	7	<3	4	<10	<2	0.1	17	16	<5
SL 91 AKR 003	Rock	10	--	<0.1	62	6	4	16	8	<3	4	<10	<2	0.3	16	16	<5
SL 91 AKR 004	Rock	<5	--	<0.1	44	<2	45	10	<5	<3	2	<10	<2	0.1	15	26	<5
SL 91 AKR 005	Rock	<5	--	0.1	29	<2	<1	20	<5	<3	4	<10	<2	0.3	10	17	<5
SL 91 AKR 006	Rock	10	--	0.2	71	2	35	26	5	<3	2	<10	<2	0.2	24	29	<5
SL 91 AKR 007	Rock	5	--	0.5	126	<2	38	46	7	<3	6	<10	<2	0.3	39	53	<5
SL 91 AKR 008	Rock	10	--	0.4	80	<2	23	95	<5	<3	77	<10	<2	0.2	55	80	<5
SL 91 AKR 009	Rock	5	--	0.3	62	<2	42	26	10	<3	15	<10	<2	0.6	47	187	<5
SL 91 AKR 010	Rock	10	--	0.1	50	<2	61	17	7	<3	2	<10	<2	<0.1	26	43	<5
SL 91 AKR 011	Rock	<5	--	0.1	32	<2	58	17	5	<3	3	10	<2	<0.1	25	40	<5
SL 91 AKR 012	Rock	10	--	0.1	41	<2	76	21	7	4	2	<10	<2	<0.1	26	41	<5
SL 91 AKR 013	Rock	5	--	0.3	18	<2	59	19	5	<3	3	<10	<2	0.4	21	34	<5
SL 91 AKR 014	Rock	5	--	0.2	21	<2	60	17	<5	<3	1	<10	<2	0.1	22	35	<5
SL 91 AKR 015	Rock	20	--	0.1	42	<2	54	32	8	<3	2	<10	<2	0.1	21	31	<5
SL 91 AKR 016	Rock	10	--	0.2	11	5	58	21	<5	<3	2	<10	<2	0.3	27	27	<5
SL 91 AKR 017	Rock	15	--	0.2	26	5	46	29	6	<3	2	<10	<2	0.3	24	32	<5
SL 91 AKR 018	Rock	10	--	0.6	23	24	117	9	7	<3	2	<10	<2	0.6	13	17	<5
SL 91 AKR 019	Rock	5	--	0.1	21	10	109	13	<5	<3	4	<10	<2	<0.1	9	16	<5
SL 91 AKR 020	Rock	15	--	0.5	85	<2	55	35	7	<3	2	<10	<2	<0.1	25	18	<5
SL 91 AKR 021	Rock	5	--	0.5	215	2	21	34	6	<3	6	<10	<2	0.2	55	30	22
SL 91 AKR 022	Rock	<5	--	0.1	41	5	92	13	7	<3	2	<10	<2	<0.1	10	12	<5
SL 91 AKR 023	Rock	5	--	<0.1	18	<2	56	54	<5	<3	3	<10	<2	0.1	7	12	<5
SL 91 AKR 024	Rock	20	--	4.9	6509	17	37	16	12	<3	3	<10	<2	0.2	4	5	<5
SL 91 AKR 025	Rock	30	--	<0.1	15	<2	9	22	7	<3	3	<10	5	0.1	112	138	<5
SL 91 AMR 001	Rock	5	--	0.3	61	7	95	22	9	<3	3	<10	<2	0.3	20	13	<5
SL 91 AMR 002	Rock	<5	--	0.2	46	4	70	13	8	<3	3	<10	<2	0.3	16	25	<5
SL 91 AMR 003	Rock	5	--	1.0	113	54	380	11	15	<3	2	<10	<2	2.3	45	43	<5
SL 91 AMR 004	Rock	5	--	0.2	47	3	149	12	6	<3	1	<10	<2	0.2	32	39	<5
SL 91 AMR 005	Rock	5	--	0.2	30	<2	36	12	5	<3	2	<10	<2	<0.1	14	26	<5
SL 91 AMR 006	Rock	10	--	0.5	42	26	107	13	6	<3	3	<10	<2	0.2	15	14	<5
SL 91 AMR 007	Rock	10	--	0.1	9	<2	15	24	<5	<3	4	<10	<2	<0.1	4	15	<5
SL 91 AMR 008	Rock	15	--	<0.1	8	2	<1	8	<5	<3	4	<10	<2	0.2	6	19	<5
SL 91 AMR 009	Rock	30	--	<0.1	12	8	94	7	<5	<3	18	<10	<2	0.2	2	7	<5
SL 91 AMR 010	Rock	10	--	0.4	39	2	25	19	5	<3	2	<10	<2	0.2	7	16	<5
SL 91 AMR 011	Rock	5	--	0.1	11	10	87	12	<5	<3	2	<10	<2	<0.1	8	19	<5
SL 91 AMR 012	Rock	5	--	0.3	14	26	3	<5	5	<3	7	<10	<2	0.1	1	5	<5
SL 91 AMR 013	Rock	10	--	0.5	52	10	45	10	<5	<3	3	<10	<2	0.3	7	13	<5
SL 91 AMR 014	Rock	20	--	0.4	6	114	67	22	<5	<3	6	<10	2	<0.1	2	4	<5
Minimum Detection		5	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5
Maximum Detection		10000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	1000
Method		FA/AAS	GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample

ipl
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Report: 9100408 R Reliance Geological Services Ltd. Project: 741 Sluice Claim Page 1 of 6 Section 2 of 2

Sample Name	Ba ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
SL 91 AKR 001	22	23	82	785	<2	193	2	4	0.07	>5.00	2.16	>5.00	2.01	0.03	0.56	0.08
SL 91 AKR 002	<2	54	72	1023	2	8	1	5	0.02	2.45	0.05	>5.00	1.80	0.02	0.02	0.02
SL 91 AKR 003	12	24	11	30	<2	7	3	1	<0.01	0.27	0.04	3.63	0.03	0.15	0.02	<0.01
SL 91 AKR 004	47	72	82	500	4	38	7	5	0.18	2.03	1.13	3.15	1.18	0.10	0.08	0.06
SL 91 AKR 005	12	24	4	14	<2	6	5	1	<0.01	0.13	0.02	3.61	0.01	0.03	0.01	<0.01
SL 91 AKR 006	20	118	107	330	3	56	2	8	0.08	2.35	0.86	>5.00	0.80	0.28	0.25	0.08
SL 91 AKR 007	10	117	137	531	<2	26	2	10	0.10	1.77	0.42	>5.00	1.09	0.15	0.10	0.07
SL 91 AKR 008	7	104	94	225	<2	46	2	4	0.08	1.33	0.19	>5.00	0.67	0.12	0.06	0.03
SL 91 AKR 009	4	267	92	338	2	32	2	3	0.17	1.20	0.71	>5.00	0.86	0.07	0.09	0.15
SL 91 AKR 010	11	102	134	536	2	259	1	12	0.12	4.31	1.47	>5.00	2.08	0.78	0.42	0.08
SL 91 AKR 011	23	103	118	397	2	273	1	9	0.13	3.96	1.44	>5.00	1.82	0.56	0.43	0.08
SL 91 AKR 012	18	105	125	454	<2	335	1	11	0.10	>5.00	2.11	>5.00	1.85	0.76	0.69	0.08
SL 91 AKR 013	35	86	114	321	2	383	1	8	0.10	4.74	1.91	4.91	1.45	0.58	0.54	0.07
SL 91 AKR 014	31	93	109	326	2	369	1	8	0.09	>5.00	2.51	4.56	1.16	0.39	0.67	0.08
SL 91 AKR 015	42	87	120	542	2	222	1	9	0.13	>5.00	2.62	4.67	1.50	0.80	0.56	0.08
SL 91 AKR 016	34	68	96	435	<2	208	2	6	0.14	4.28	1.80	4.61	1.48	0.56	0.53	0.06
SL 91 AKR 017	33	82	99	384	2	158	2	6	0.13	3.92	1.88	4.71	1.13	0.38	0.44	0.08
SL 91 AKR 018	50	45	52	1704	3	9	1	4	0.10	1.88	0.26	4.74	1.57	0.34	0.01	0.11
SL 91 AKR 019	32	59	65	1001	<2	53	3	3	0.10	2.19	0.49	3.03	2.29	0.11	0.07	0.06
SL 91 AKR 020	24	92	154	492	2	230	1	12	0.07	4.40	2.00	>5.00	1.04	0.25	0.59	0.11
SL 91 AKR 021	20	107	85	211	2	40	1	7	0.13	1.61	0.52	>5.00	1.16	0.34	0.12	0.07
SL 91 AKR 022	86	57	96	634	4	75	3	7	0.22	2.27	0.07	3.44	2.04	0.12	0.08	0.05
SL 91 AKR 023	44	28	49	281	4	145	1	2	0.01	2.80	0.04	3.54	1.86	0.23	0.12	0.06
SL 91 AKR 024	28	99	9	182	3	25	2	1	0.01	0.79	0.25	1.36	0.26	0.10	0.07	0.03
SL 91 AKR 025	9	102	25	84	<2	233	3	1	0.04	4.20	1.98	>5.00	0.34	0.08	0.53	0.04
SL 91 AMR 001	24	32	89	959	2	57	4	5	0.19	2.76	0.62	4.33	2.58	0.06	0.11	0.08
SL 91 AMR 002	23	66	87	922	2	39	5	4	0.14	2.68	0.45	4.53	2.70	0.09	0.14	0.06
SL 91 AMR 003	9	48	107	1802	7	69	30	8	0.44	3.69	2.41	4.82	3.66	0.14	0.03	0.11
SL 91 AMR 004	91	68	101	884	2	130	3	6	0.07	2.90	0.38	4.69	2.09	0.13	0.07	0.06
SL 91 AMR 005	18	94	47	433	2	105	2	3	<0.01	2.06	0.13	>5.00	2.26	0.11	0.07	0.06
SL 91 AMR 006	37	73	64	670	4	46	3	3	0.04	1.80	0.24	3.95	1.74	0.13	0.08	0.05
SL 91 AMR 007	45	73	139	228	2	55	3	2	0.01	1.34	0.05	>5.00	0.72	0.13	0.06	0.22
SL 91 AMR 008	33	71	11	16	3	32	<1	1	<0.01	0.48	0.01	3.07	0.02	0.10	0.04	<0.01
SL 91 AMR 009	89	63	18	14	10	36	1	1	<0.01	0.54	0.02	2.91	0.03	0.08	0.06	0.01
SL 91 AMR 010	34	48	43	157	2	7	3	2	0.02	1.17	0.01	>5.00	1.10	0.16	0.03	0.02
SL 91 AMR 011	21	65	100	454	<2	77	1	6	0.13	2.55	0.63	2.18	2.20	0.07	0.14	0.06
SL 91 AMR 012	27	200	4	37	<2	7	1	<1	<0.01	0.13	0.01	0.45	0.02	0.08	0.02	<0.01
SL 91 AMR 013	37	81	49	282	2	39	2	3	0.08	1.30	0.26	2.88	0.66	0.22	0.13	0.04
SL 91 AMR 014	22	129	3	232	3	166	2	1	<0.01	2.66	1.20	0.85	0.09	0.05	0.48	<0.01
Minimum Detection	2	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm
SL 91 AMR 015	Rock	5	--	<0.1	10	<2	96	11	<5	<3	2	<10	<2	0.5	11	40	<5
SL 91 AMR 016	Rock	10	--	<0.1	44	<2	84	12	5	<3	2	<10	<2	0.2	15	13	<5
SL 91 AMR 017	Rock	10	--	<0.1	31	14	4	7	<5	<3	1	<10	<2	0.1	1	3	<5
SL 91 AMR 018	Rock	55	--	<0.1	75	12	3	14	5	<3	20	<10	<2	0.3	4	6	<5
SL 91 AMR 019	Rock	10	--	<0.1	15	5	2	9	<5	<3	3	<10	<2	0.2	3	6	<5
SL 91 AMR 020	Rock	20	--	<0.1	13	8	2	8	<5	<3	3	<10	<2	0.1	4	5	<5
SL 91 AMR 021	Rock	30	--	<0.1	12	6	<1	10	5	<3	4	<10	<2	0.1	1	3	<5
SL 91 AMR 022	Rock	5	--	<0.1	30	14	81	15	6	<3	4	<10	<2	0.2	9	12	<5
SL 91 AMR 023	Rock	45	--	<0.1	25	7	5	<5	6	<3	6	<10	<2	0.2	4	7	<5
SL 91 AMR 024	Rock	10	--	<0.1	5	13	1	5	5	<3	8	<10	<2	0.1	1	4	<5
SL 91 AMR 025	Rock	30	--	<0.1	73	3	86	14	5	<3	3	<10	<2	0.2	15	19	<5
SL 91 AMR 026	Rock	5	--	<0.1	48	<2	15	17	<5	<3	5	<10	<2	<0.1	4	7	<5
SL 91 AMR 027	Rock	10	--	<0.1	34	7	1	23	<5	<3	3	<10	<2	0.3	10	13	<5
SL 91 GKR 001	Rock	5	--	<0.1	48	<2	7	12	<5	<3	3	<10	<2	0.7	38	34	<5
SL 91 GKR 002	Rock	5	--	0.4	586	<2	91	12	<5	<3	15	<10	<2	0.3	28	25	<5
SL 91 GKR 003	Rock	5	--	0.1	77	14	61	34	5	<3	11	<10	<2	0.2	4	4	<5
SL 91 GKR 004	Rock	5	--	0.4	549	<2	67	25	6	<3	10	<10	<2	<0.1	37	32	<5
SL 91 GKR 005	Rock	5	--	<0.1	46	<2	102	20	5	<3	3	<10	<2	<0.1	30	24	<5
SL 91 GKR 006	Rock	30	--	0.3	405	<2	24	11	<5	<3	7	<10	5	<0.1	13	34	<5
SL 91 GKR 007	Rock	10	--	<0.1	9	9	37	15	5	<3	4	<10	<2	0.4	7	15	<5
SL 91 GKR 008	Rock	70	--	0.9	279	11	28	19	6	<3	5	<10	<2	0.2	18	13	<5
SL 91 GKR 009	Rock	<5	--	<0.1	7	8	15	<5	<5	<3	4	<10	<2	<0.1	2	4	<5
SL 91 GKR 010	Rock	5	--	0.9	65	5	42	36	<5	<3	5	<10	<2	<0.1	14	15	<5
SL 91 GKR 011	Rock	15	--	1.6	83	63	118	27	9	<3	4	<10	<2	0.4	19	23	<5
SL 91 GKR 012	Rock	10	--	0.4	9	11	67	33	7	<3	1	<10	<2	<0.1	17	19	<5
SL 91 GKR 013	Rock	20	--	0.3	31	16	56	51	7	<3	2	<10	<2	<0.1	20	20	<5
SL 91 GKR 014	Rock	5	--	0.2	22	11	15	6	<5	<3	11	<10	<2	<0.1	2	4	<5
SL 91 GKR 015	Rock	<5	--	0.1	23	7	14	10	<5	<3	2	<10	2	0.1	6	10	<5
SL 91 GKR 016	Rock	<5	--	0.2	20	13	28	18	<5	<3	2	<10	4	<0.1	9	20	<5
SL 91 GKR 017	Rock	10	--	2.3	959	<2	50	101	<5	<3	5	<10	<2	0.4	65	63	<5
SL 91 GKR 018	Rock	25	--	0.9	105	<2	81	40	6	<3	3	<10	<2	<0.1	28	32	<5
SL 91 GKR 019	Rock	10	--	1.8	406	<2	85	32	6	<3	5	<10	<2	0.2	23	43	<5
SL 91 NLR 001	Rock	<5	--	0.1	97	<2	71	20	<5	<3	4	14	<2	0.2	72	154	<5
SL 91 NLR 002	Rock	<5	--	0.7	83	13	108	11	10	<3	3	<10	<2	0.4	52	89	<5
SL 91 NLR 003	Rock	<5	--	<0.1	44	<2	47	9	<5	<3	2	<10	<2	<0.1	15	27	<5
SL 91 NLR 004	Rock	<5	--	0.3	28	22	57	7	<5	<3	3	<10	<2	0.6	12	8	<5
SL 91 NLR 005	Rock	10	--	0.1	259	6	9	18	<5	<3	98	<10	<2	0.1	4	3	<5
SL 91 NLR 006	Rock	25	--	<0.1	85	5	38	22	<5	<3	6	<10	<2	0.2	11	13	<5
SL 91 NLR 007	Rock	<5	--	0.1	146	<2	39	11	<5	<3	20	<10	<2	<0.1	19	16	<5
Minimum Detection		5	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5
Maximum Detection		10000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	1000
Method		FA/AAS	GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Ba ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
SL 91 AMR 015	52	93	137	649	3	35	3	8	0.19	2.03	0.31	>5.00	1.86	1.01	0.05	0.04
SL 91 AMR 016	26	55	119	1003	2	27	1	7	0.12	3.14	0.38	4.37	2.70	0.07	0.10	0.07
SL 91 AMR 017	109	109	13	29	6	35	<1	1	<0.01	0.49	0.04	1.74	0.02	0.14	0.06	0.01
SL 91 AMR 018	16	93	6	16	<2	13	1	<1	<0.01	0.32	0.01	2.63	0.01	0.22	0.02	<0.01
SL 91 AMR 019	77	65	21	20	<2	10	7	2	0.01	0.46	0.01	2.46	0.07	0.02	0.01	<0.01
SL 91 AMR 020	41	79	10	17	4	24	<1	1	<0.01	0.38	0.02	1.72	0.02	0.13	0.08	0.01
SL 91 AMR 021	56	46	27	13	4	58	1	<1	<0.01	0.43	0.02	>5.00	0.02	0.17	0.08	0.04
SL 91 AMR 022	24	74	27	550	2	62	6	1	<0.01	1.91	0.19	3.03	2.04	0.14	0.09	0.04
SL 91 AMR 023	59	100	16	19	<2	17	1	1	<0.01	0.34	0.02	3.06	0.04	0.09	0.02	<0.01
SL 91 AMR 024	122	151	4	24	<2	28	2	<1	<0.01	0.19	0.01	0.44	0.01	0.05	0.02	<0.01
SL 91 AMR 025	86	67	67	619	6	33	6	6	0.10	3.30	0.46	3.19	2.30	0.45	0.12	0.06
SL 91 AMR 026	479	44	50	55	4	124	1	2	<0.01	1.13	0.14	>5.00	0.40	0.16	0.03	0.04
SL 91 AMR 027	18	50	6	18	<2	6	4	1	<0.01	0.15	0.02	3.25	0.01	0.04	0.01	<0.01
SL 91 GKR 001	31	67	265	116	3	28	2	4	0.14	1.08	0.12	>5.00	0.28	0.25	0.06	0.02
SL 91 GKR 002	93	80	228	330	3	230	1	15	0.28	>5.00	2.09	>5.00	1.76	1.33	0.56	0.07
SL 91 GKR 003	61	101	9	160	7	58	3	3	0.05	0.60	0.11	1.15	0.18	0.21	0.06	0.01
SL 91 GKR 004	28	55	253	481	2	189	1	21	0.35	>5.00	2.15	>5.00	1.68	1.68	0.43	0.09
SL 91 GKR 005	491	66	256	529	3	205	1	22	0.30	>5.00	2.15	4.94	1.88	1.78	0.49	0.08
SL 91 GKR 006	11	131	51	188	3	159	2	6	0.10	4.20	2.58	2.11	0.44	0.10	0.52	0.07
SL 91 GKR 007	52	94	94	281	5	57	1	3	0.17	1.62	0.75	3.05	0.74	0.59	0.21	0.06
SL 91 GKR 008	20	89	77	190	7	24	2	5	0.14	1.12	0.42	2.82	0.65	0.14	0.09	0.08
SL 91 GKR 009	65	148	7	162	3	6	1	1	0.02	0.38	0.04	0.98	0.16	0.18	0.06	0.01
SL 91 GKR 010	19	71	93	451	2	112	1	6	0.08	3.36	1.47	3.88	1.04	0.14	0.34	0.10
SL 91 GKR 011	14	77	82	840	2	98	2	4	0.17	3.00	1.35	4.30	1.58	0.09	0.25	0.08
SL 91 GKR 012	37	82	68	511	3	305	1	3	0.12	>5.00	3.30	3.95	0.88	0.30	0.62	0.08
SL 91 GKR 013	27	67	97	552	2	252	1	6	0.14	>5.00	3.05	4.20	1.14	0.57	0.59	0.08
SL 91 GKR 014	27	80	9	126	4	10	6	2	0.03	0.46	0.11	0.91	0.16	0.10	0.09	0.01
SL 91 GKR 015	39	74	8	81	3	38	1	<1	0.01	1.82	0.77	2.61	0.22	0.26	0.16	0.09
SL 91 GKR 016	43	54	6	427	2	78	1	1	<0.01	2.65	0.97	2.17	0.61	0.28	0.18	0.03
SL 91 GKR 017	4	89	45	473	<2	14	2	2	0.03	1.70	0.25	>5.00	0.79	0.20	0.06	0.08
SL 91 GKR 018	26	67	176	666	<2	73	1	11	0.08	3.32	1.02	>5.00	1.56	0.21	0.29	0.14
SL 91 GKR 019	6	75	117	824	4	41	2	5	0.19	2.72	0.65	>5.00	1.65	0.10	0.12	0.08
SL 91 NLR 001	<2	322	199	693	<2	187	2	13	0.18	>5.00	2.55	>5.00	2.09	0.63	0.47	0.14
SL 91 NLR 002	2	345	129	735	<2	30	3	8	0.26	1.59	0.64	>5.00	1.44	0.05	0.07	0.15
SL 91 NLR 003	51	87	82	510	4	39	7	5	0.18	2.02	1.11	3.16	1.15	0.10	0.09	0.06
SL 91 NLR 004	42	90	14	210	5	16	4	1	0.07	0.49	0.19	2.19	0.11	0.23	0.07	0.03
SL 91 NLR 005	35	110	<2	60	10	11	1	3	0.02	0.38	0.09	1.11	0.06	0.07	0.07	0.01
SL 91 NLR 006	130	83	54	302	7	20	2	5	0.21	1.48	0.33	2.86	0.93	0.79	0.12	0.06
SL 91 NLR 007	115	61	136	306	3	131	1	7	0.21	2.62	1.27	3.20	0.80	0.78	0.32	0.08
Minimum Detection	2	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm
SL 91 NLR 008	Rock	10	--	0.9	1158	33	184	5	<5	<3	2	<10	7	1.7	8	9	<5
SL 91 NLR 009	Rock	10	--	0.3	70	15	84	18	9	<3	5	<10	<2	0.5	10	10	<5
SL 91 NLR 010	Rock	5	--	0.2	7	<2	38	49	6	<3	3	<10	<2	<0.1	7	10	<5
SL 91 NLR 011	Rock	5	--	<0.1	18	4	1	6	<5	<3	2	<10	<2	0.3	7	17	<5
SL 91 NLR 012	Rock	10	--	<0.1	10	9	1	5	<5	<3	4	<10	<2	<0.1	1	2	<5
SL 91 NLR 013	Rock	10	--	4.0	71	830	149	18	6	<3	3	<10	<2	0.1	6	13	<5
SL 91 NLR 014	Rock	20	--	1.1	64	100	16	16	6	<3	5	<10	<2	0.1	5	4	<5
SL 91 NLR 015	Rock	20	--	<0.1	17	7	<1	8	<5	<3	10	<10	<2	0.3	8	12	<5
SL 91 NLR 016	Rock	20	--	2.5	49	154	161	20	13	<3	3	11	<2	0.7	28	35	<5
SL 91 NLR 017	Rock	25	--	0.2	11	5	54	15	5	<3	6	<10	<2	0.1	13	20	<5
SL 91 NLR 018	Rock	15	--	1.0	9	47	88	19	6	<3	3	<10	<2	0.3	7	9	<5
SL 91 NLR 019	Rock	5	--	0.6	31	24	39	19	7	<3	4	<10	<2	0.3	4	10	<5
SL 91 NLR 020	Rock	10	--	0.3	32	<2	36	12	8	<3	2	<10	<2	0.1	11	11	<5
SL 91 NLR 021	Rock	45	--	<0.1	10	16	7	<5	<5	<3	2	<10	<2	0.1	1	3	<5
SL 91 NLR 022	Rock	20	--	0.3	43	5	90	20	6	<3	6	<10	<2	0.5	20	19	<5
SL 91 NLR 023	Rock	15	--	0.1	77	<2	86	16	6	<3	6	<10	<2	0.4	25	46	<5
SL 91 NLR 024	Rock	5	--	0.1	31	6	60	17	<5	<3	3	<10	<2	0.1	10	13	<5
SL 91 NLR 025	Rock	5	--	<0.1	32	<2	92	9	7	<3	2	<10	<2	0.2	27	16	<5
SL 91 NLR 026	Rock	40	--	2.4	35	42	73	15	6	<3	4	<10	<2	0.4	14	15	<5
SL 91 NLR 027	Rock	10	--	0.8	57	465	195	16	7	<3	3	<10	<2	0.6	12	15	<5
SL 91 NLR 028	Rock	15	--	0.2	37	22	78	13	<5	<3	3	<10	<2	0.3	11	18	<5
SL 91 NLR 029	Rock	5	--	0.3	8	11	8	6	<5	<3	4	<10	<2	0.1	1	3	<5
SL 91 NLR 030	Rock	10	--	0.2	58	12	47	25	6	<3	2	<10	<2	0.4	13	9	<5
SL 91 NLR 031A	Rock	15	--	0.3	3	109	2	48	17	<3	21	<10	<2	0.1	1	5	<5
SL 91 NLR 031B	Rock	45	--	1.5	5	276	5	114	17	<3	52	<10	<2	0.4	2	8	<5
SL 91 NLR 032	Rock	5	--	<0.1	71	<2	82	16	<5	<3	5	<10	<2	0.1	13	44	<5
SL 91 NLR 033	Rock	5	--	0.3	592	<2	66	26	5	<3	20	<10	<2	0.1	64	45	<5
SL 91 NLR 034	Rock	<5	--	<0.1	37	<2	48	10	<5	<3	1	<10	<2	0.4	15	17	<5
SL 91 NLR 035	Rock	10	--	0.3	31	<2	74	18	5	<3	2	<10	<2	<0.1	23	32	<5
SL 91 NLR 036	Rock	10	--	1.2	278	<2	41	19	11	<3	12	<10	2	0.9	20	11	<5
SL 91 NLR 037	Rock	10	--	0.1	49	<2	55	21	10	<3	4	<10	<2	<0.1	51	39	<5
SL 91 DDH 1 89ft- 92ft	DDH	10	--	4.0	2031	101	309	38	5	<3	6	<10	52	1.8	70	43	<5
SL 91 DDH 2 3ft- 8ft	DDH	40	--	4.0	4864	18	132	20	<5	<3	10	<10	7	1.2	35	17	<5
SL 91 DDH 2 8ft- 14ft	DDH	60	--	6.5	6068	34	181	46	<5	<3	4	<10	<2	1.8	37	8	<5
SL 91 DDH 3 36ft- 38ft	DDH	10	--	0.9	484	10	152	22	6	<3	152	<10	<2	0.4	19	32	106
SL 91 DDH 3 109ft-110ft	DDH	5	--	3.4	2983	9	243	32	<5	<3	6	<10	<2	1.5	67	41	29
SL 91 DDH 3 179ft-182ft	DDH	15	--	8.6	2569	68	491	37	5	<3	73	<10	<2	2.2	45	53	<5
SL 91 DDH 3 353ft-356ft	DDH	5	--	4.5	3103	112	714	27	<5	<3	4	<10	10	1.7	53	38	<5
SL 91 DDH 5 168ft-169ft	DDH	5	--	0.8	1112	<2	51	10	<5	<3	71	<10	<2	0.2	44	49	<5
Minimum Detection		5	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5
Maximum Detection		10000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	1000
Method		FA/AAS	GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Ba ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
SL 91 NLR 008	20	176	4	136	<2	12	1	1	0.01	0.40	0.19	0.56	0.06	0.13	0.13	0.01
SL 91 NLR 009	28	75	39	455	4	94	3	3	0.11	1.76	0.56	4.38	1.22	0.22	0.06	0.05
SL 91 NLR 010	67	49	99	558	2	45	1	3	<0.01	3.34	0.08	>5.00	2.24	0.10	0.04	0.22
SL 91 NLR 011	19	70	9	12	4	52	1	1	<0.01	0.48	0.01	3.79	0.01	0.11	0.05	<0.01
SL 91 NLR 012	70	75	8	10	4	68	1	<1	<0.01	0.45	0.02	1.37	0.01	0.12	0.08	<0.01
SL 91 NLR 013	27	77	67	970	5	83	4	4	0.16	2.15	0.22	2.92	1.85	0.09	0.06	0.07
SL 91 NLR 014	24	178	11	142	<2	9	2	1	0.19	0.13	0.06	1.65	0.05	0.02	0.01	<0.01
SL 91 NLR 015	10	100	11	12	<2	65	2	1	<0.01	0.44	0.01	3.06	0.01	0.05	0.06	0.01
SL 91 NLR 016	10	90	118	775	<2	37	2	8	0.11	2.72	0.54	>5.00	2.70	0.11	0.14	0.07
SL 91 NLR 017	26	110	130	315	<2	82	1	8	0.10	1.96	0.61	>5.00	1.34	0.08	0.18	0.10
SL 91 NLR 018	27	70	107	442	2	26	2	7	0.07	1.71	0.06	3.82	2.03	0.17	0.05	0.03
SL 91 NLR 019	49	87	8	194	4	57	1	<1	<0.01	0.98	0.02	3.93	0.82	0.18	0.08	0.03
SL 91 NLR 020	14	81	25	137	<2	36	1	2	<0.01	1.91	0.16	>5.00	1.71	0.11	0.10	0.06
SL 91 NLR 021	28	89	<2	68	11	10	2	2	0.02	0.36	0.03	1.12	0.03	0.14	0.09	<0.01
SL 91 NLR 022	30	114	81	410	2	80	4	5	0.14	2.49	0.71	3.96	1.72	0.19	0.21	0.06
SL 91 NLR 023	43	91	78	879	3	22	2	4	0.16	2.26	0.53	4.62	1.53	0.28	0.09	0.10
SL 91 NLR 024	37	97	91	365	3	45	6	6	0.13	2.02	0.26	3.22	2.09	0.09	0.12	0.04
SL 91 NLR 025	148	41	177	446	9	81	4	4	0.30	2.04	1.14	>5.00	1.45	0.78	0.23	0.13
SL 91 NLR 026	31	74	106	543	3	30	2	7	0.18	1.74	0.11	4.45	1.71	0.22	0.10	0.04
SL 91 NLR 027	12	59	105	1023	2	56	2	6	0.17	2.62	0.41	3.90	2.62	0.08	0.09	0.06
SL 91 NLR 028	179	70	125	608	3	60	3	10	0.18	2.87	0.47	3.61	2.44	0.87	0.16	0.06
SL 91 NLR 029	26	108	2	28	10	4	3	1	0.01	0.34	0.01	0.85	0.03	0.16	0.08	0.01
SL 91 NLR 030	29	75	73	447	2	102	1	5	0.10	2.61	0.63	3.69	1.55	0.08	0.24	0.09
SL 91 NLR 031A	195	168	3	16	<2	228	1	1	0.01	0.03	0.01	1.15	0.01	0.10	0.01	0.03
SL 91 NLR 031B	172	250	9	33	2	45	7	1	0.06	0.08	0.04	2.60	0.01	0.22	0.01	0.06
SL 91 NLR 032	26	118	55	312	3	33	1	2	0.08	2.99	0.15	4.33	1.19	0.20	0.08	0.05
SL 91 NLR 033	6	59	47	701	<2	21	1	4	0.02	3.28	0.18	>5.00	2.12	0.28	0.07	0.07
SL 91 NLR 034	21	41	12	235	<2	29	1	1	<0.01	1.38	0.03	4.57	0.67	0.24	0.04	0.03
SL 91 NLR 035	24	71	92	535	<2	196	1	9	0.12	4.81	1.77	3.82	1.94	0.38	0.50	0.04
SL 91 NLR 036	10	91	40	195	<2	111	3	3	0.19	1.95	1.01	>5.00	0.29	0.05	0.07	0.03
SL 91 NLR 037	2	82	137	442	<2	146	1	12	0.10	4.32	1.24	>5.00	2.51	0.67	0.39	0.07
SL 91 DDH 1 89ft- 92ft	25	79	239	1259	6	248	2	9	0.27	4.22	1.59	>5.00	2.15	0.64	0.34	0.17
SL 91 DDH 2 3ft- 8ft	19	75	79	328	4	39	3	4	0.16	1.41	0.56	3.32	0.80	0.12	0.11	0.08
SL 91 DDH 2 8ft- 14ft	8	79	24	319	3	26	3	3	0.10	0.76	0.36	2.40	0.33	0.04	0.09	0.07
SL 91 DDH 3 36ft- 38ft	7	188	96	934	2	70	2	6	0.18	2.27	1.06	3.52	1.33	0.05	0.10	0.09
SL 91 DDH 3 109ft-110ft	30	50	193	1324	3	126	3	8	0.24	4.54	1.96	>5.00	1.95	0.37	0.35	0.12
SL 91 DDH 3 179ft-182ft	2	63	122	1411	3	145	3	7	0.14	4.63	2.12	>5.00	1.22	0.07	0.43	0.11
SL 91 DDH 3 353ft-356ft	8	78	156	4601	3	83	3	8	0.19	4.81	1.16	>5.00	2.83	0.13	0.17	0.13
SL 91 DDH 5 168ft-169ft	34	44	51	156	5	203	3	2	0.18	3.22	2.20	4.07	0.36	0.12	0.52	0.14
Minimum Detection	2	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm
SL 91 AKL 001	Silt	--	20	1.1	117	28	76	39	7	<3	4	<10	<2	0.2	11	19	<5
SL 91 AKL 002	Silt	--	5	0.6	105	20	88	37	7	<3	5	<10	<2	0.1	12	22	<5
SL 91 AKL 003	Silt	--	<5	0.6	81	3	58	34	<5	<3	5	<10	<2	0.1	9	21	<5
SL 91 AKL 004	Silt	--	<5	2.1	170	25	65	58	7	<3	6	<10	<2	<0.1	11	17	<5
SL 91 AKL 005	Silt	--	<5	0.7	139	51	219	395	<5	<3	8	<10	<2	0.8	25	48	<5
SL 91 AKL 006	Silt	--	15	1.5	190	81	132	274	21	<3	10	<10	<2	0.1	13	23	<5
SL 91 AKL 007	Silt	--	<5	0.6	126	8	115	18	<5	<3	7	<10	<2	0.1	24	38	<5
SL 91 AKL 008	Silt	--	<5	0.1	39	7	32	24	8	<3	8	<10	<2	<0.1	6	11	<5
SL 91 AKL 009	Silt	--	25	0.2	38	12	23	25	<5	<3	57	<10	<2	0.4	3	7	<5
SL 91 AKL 010	Silt	--	5	0.2	45	18	33	24	5	<3	16	<10	<2	0.1	2	6	<5
SL 91 AKL 011	Silt	--	5	0.1	39	27	41	19	6	<3	18	<10	<2	0.1	3	7	<5
SL 91 AKL 012	Silt	--	45	0.2	21	13	14	22	9	<3	94	<10	<2	0.1	2	6	<5
SL 91 AKL 013	Silt	--	30	0.2	20	33	5	52	16	<3	56	<10	<2	0.3	2	5	<5
SL 91 AKL 014	Silt	--	5	0.1	25	33	15	36	<5	<3	32	<10	<2	<0.1	2	6	<5
SL 91 AKL 015	Silt	--	20	0.2	26	68	10	41	31	<3	42	<10	<2	<0.1	2	5	<5
SL 91 AKL 016	Silt	--	40	3.0	605	118	170	71	17	<3	4	<10	<2	1.4	33	32	<5
SL 91 AKL 017	Silt	--	10	1.5	181	26	142	68	5	<3	7	<10	<2	0.7	25	43	<5
SL 91 AKL 018	Silt	--	15	6.9	566	770	1104	191	5	<3	12	<10	14	4.2	58	38	<5
SL 91 AKL 019	Silt	--	15	4.1	385	173	208	174	<5	<3	8	<10	<2	<0.1	19	26	<5
SL 91 AKL 020	Silt	--	5	1.8	239	99	110	120	<5	<3	6	<10	<2	<0.1	12	22	<5
SL 91 AML 001	Silt	--	<5	0.1	19	19	15	19	6	<3	8	<10	<2	0.2	3	11	<5
SL 91 AML 002	Silt	--	15	0.2	63	4	35	30	<5	<3	7	<10	<2	<0.1	7	14	<5
SL 91 GKL 001	Silt	--	<5	0.5	42	3	45	30	<5	<3	6	<10	<2	0.1	8	20	<5
SL 91 GKL 002	Silt	--	<5	0.7	53	<2	52	31	<5	<3	6	<10	<2	<0.1	11	20	<5
SL 91 GKL 003	Silt	--	<5	0.2	64	7	61	19	<5	<3	5	<10	<2	0.2	14	22	<5
SL 91 GKL 004	Silt	--	20	0.2	77	5	69	21	5	<3	5	12	<2	0.3	11	21	<5
SL 91 GKL 005	Silt	--	5	0.6	35	9	44	28	<5	<3	5	<10	<2	<0.1	8	17	<5
SL 91 GKL 006	Silt	--	<5	0.3	68	10	72	30	<5	<3	5	<10	<2	<0.1	11	22	<5
SL 91 GKL 007	Silt	--	10	0.5	79	16	97	30	<5	<3	4	<10	<2	<0.1	13	21	<5
SL 91 GKL 008	Silt	--	15	1.0	121	36	76	39	8	<3	4	<10	<2	<0.1	11	20	<5
SL 91 GKL 009	Silt	--	30	1.4	177	69	119	24	9	<3	5	<10	<2	0.7	60	36	<5
SL 91 GKL 010	Silt	--	10	1.1	186	18	93	24	5	<3	11	<10	<2	0.1	33	29	<5
SL 91 GKL 011	Silt	--	30	0.9	108	60	109	96	9	<3	3	<10	<2	0.8	25	30	<5
SL 91 GKL 012	Silt	--	215	0.2	60	9	60	26	7	<3	5	<10	<2	0.3	13	22	<5
SL 91 GKL 013	Silt	--	10	1.7	423	90	380	219	17	<3	47	<10	<2	2.1	15	21	<5
SL 91 GKL 014	Silt	--	15	1.1	123	58	187	139	10	<3	24	<10	<2	0.5	12	32	<5
SL 91 GKL 015	Silt	--	15	1.2	162	60	125	212	14	<3	15	<10	<2	0.4	11	20	<5
SL 91 GKL 016	Silt	--	<5	0.2	67	<2	47	28	<5	<3	5	<10	<2	<0.1	7	17	<5
SL 91 GKL 017	Silt	--	<5	1.4	143	8	35	48	<5	<3	4	<10	<2	<0.1	4	13	<5
Minimum Detection		5	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5
Maximum Detection		10000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	1000
Method		FA/AAS	GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Ba ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
SL 91 AKL 001	102	31	97	424	4	110	1	4	0.08	3.88	0.08	>5.00	1.25	0.16	0.04	0.12
SL 91 AKL 002	118	35	102	456	5	123	1	6	0.10	3.97	0.09	>5.00	1.35	0.20	0.04	0.13
SL 91 AKL 003	58	25	92	285	3	62	3	4	0.08	2.50	0.10	>5.00	0.97	0.14	0.03	0.09
SL 91 AKL 004	111	29	87	458	8	130	1	6	0.07	3.64	0.10	>5.00	1.11	0.15	0.05	0.10
SL 91 AKL 005	62	48	93	1007	6	56	3	6	0.09	3.38	0.33	>5.00	1.49	0.16	0.06	0.10
SL 91 AKL 006	111	30	119	536	9	132	2	9	0.15	3.64	0.09	>5.00	1.43	0.49	0.09	0.15
SL 91 AKL 007	66	30	70	749	5	127	4	5	0.13	3.59	0.83	4.26	1.63	0.14	0.09	0.10
SL 91 AKL 008	46	6	43	239	2	56	2	2	0.02	1.16	0.05	>5.00	0.64	0.06	0.03	0.06
SL 91 AKL 009	58	7	52	117	5	37	4	3	0.01	1.03	0.01	>5.00	0.67	0.08	0.03	0.12
SL 91 AKL 010	62	10	49	197	6	58	3	4	0.01	1.35	0.01	>5.00	0.72	0.08	0.03	0.10
SL 91 AKL 011	70	8	47	191	6	53	3	3	0.01	1.45	0.02	>5.00	0.77	0.13	0.03	0.11
SL 91 AKL 012	65	5	43	59	2	42	2	1	0.01	0.65	0.01	>5.00	0.29	0.10	0.02	0.07
SL 91 AKL 013	73	3	33	28	2	18	4	1	0.01	0.41	0.01	>5.00	0.08	0.05	0.02	0.06
SL 91 AKL 014	39	3	59	33	3	48	3	1	<0.01	0.65	0.01	>5.00	0.38	0.11	0.06	0.11
SL 91 AKL 015	98	4	47	35	2	66	2	2	0.01	0.48	0.02	>5.00	0.15	0.27	0.04	0.11
SL 91 AKL 016	76	23	64	1720	9	123	6	4	0.11	2.44	0.78	4.87	1.18	0.10	0.05	0.09
SL 91 AKL 017	104	21	97	714	13	167	4	6	0.12	3.81	0.08	>5.00	1.50	0.29	0.10	0.15
SL 91 AKL 018	122	58	152	1814	7	164	3	10	0.10	4.04	0.77	>5.00	1.87	0.44	0.08	0.12
SL 91 AKL 019	73	44	166	533	<2	150	4	7	0.09	3.54	0.39	>5.00	1.08	0.29	0.09	0.13
SL 91 AKL 020	72	32	160	302	2	129	3	9	0.15	2.37	0.24	>5.00	0.94	0.42	0.10	0.17
SL 91 AML 001	88	3	26	102	2	36	1	2	0.01	0.67	0.02	3.24	0.31	0.06	0.02	0.04
SL 91 AML 002	81	16	82	365	5	114	3	4	0.04	2.23	0.05	>5.00	1.07	0.08	0.04	0.17
SL 91 GKL 001	42	22	89	226	<2	47	3	3	0.08	1.54	0.06	>5.00	0.71	0.09	0.02	0.07
SL 91 GKL 002	20	24	98	165	<2	18	6	3	0.10	1.29	0.03	>5.00	0.49	0.06	0.01	0.10
SL 91 GKL 003	51	21	63	418	2	75	2	3	0.07	1.83	0.38	>5.00	1.03	0.08	0.06	0.08
SL 91 GKL 004	56	24	65	441	2	74	3	3	0.05	2.07	0.22	>5.00	1.19	0.11	0.06	0.08
SL 91 GKL 005	61	26	102	214	<2	67	3	3	0.10	1.37	0.04	>5.00	0.75	0.11	0.03	0.08
SL 91 GKL 006	67	37	106	405	3	59	1	4	0.10	3.16	0.05	>5.00	1.24	0.11	0.03	0.11
SL 91 GKL 007	109	29	83	664	5	93	1	4	0.07	4.52	0.07	>5.00	1.09	0.13	0.03	0.13
SL 91 GKL 008	102	34	105	389	5	117	1	5	0.09	3.85	0.07	>5.00	1.28	0.19	0.04	0.11
SL 91 GKL 009	58	27	68	2147	5	182	2	6	0.10	3.52	0.70	>5.00	1.40	0.13	0.06	0.17
SL 91 GKL 010	96	23	74	940	4	230	2	4	0.07	4.30	0.63	>5.00	1.47	0.12	0.04	0.16
SL 91 GKL 011	75	31	85	605	4	157	3	5	0.12	2.77	0.67	4.73	1.42	0.19	0.08	0.10
SL 91 GKL 012	48	23	68	409	3	71	2	3	0.07	1.86	0.34	>5.00	1.04	0.09	0.06	0.08
SL 91 GKL 013	198	26	75	678	23	73	1	5	0.07	3.29	0.32	>5.00	0.90	0.17	0.03	0.10
SL 91 GKL 014	117	29	86	427	10	98	1	4	0.07	2.71	0.45	>5.00	1.01	0.11	0.04	0.09
SL 91 GKL 015	123	31	110	449	11	113	1	8	0.14	2.91	0.10	>5.00	1.29	0.46	0.09	0.12
SL 91 GKL 016	30	12	61	146	<2	36	4	1	0.05	1.64	0.06	>5.00	0.47	0.06	0.02	0.06
SL 91 GKL 017	20	14	45	132	3	32	1	2	0.03	>5.00	0.13	3.04	0.47	0.06	0.04	0.08
Minimum Detection	2	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm
SL 91 GKL 018	Silt	--	<5	1.0	20	<2	25	22	<5	<3	4	<10	<2	<0.1	9	21	<5
SL 91 GKL 019	Silt	--	<5	1.1	7	<2	13	29	<5	<3	4	<10	<2	<0.1	8	19	<5
SL 91 GKL 020	Silt	--	<5	1.4	336	<2	29	32	<5	<3	5	<10	<2	<0.1	8	19	<5
SL 91 GKL 021	Silt	--	<5	3.9	66	7	63	28	5	<3	5	<10	<2	0.2	7	16	<5
SL 91 GKL 022	Silt	--	<5	0.7	152	<2	15	31	<5	<3	5	<10	<2	<0.1	8	17	<5
SL 91 GKL 023	Silt	--	<5	0.4	150	<2	19	33	7	<3	5	10	5	<0.1	8	18	<5
SL 91 GKL 024	Silt	--	<5	0.5	54	<2	38	25	<5	<3	7	<10	<2	<0.1	5	11	<5
SL 91 GKL 025	Silt	--	<5	0.2	38	9	38	22	6	<3	7	<10	<2	0.1	5	9	<5
SL 91 GKL 026	Silt	--	<5	0.1	34	13	28	23	7	<3	8	<10	<2	0.4	6	9	<5
SL 91 GKL 027	Silt	--	10	0.2	56	7	31	30	<5	<3	6	<10	<2	<0.1	6	13	<5
SL 91 GKL 028	Silt	--	5	0.2	62	14	48	30	8	<3	9	<10	<2	0.2	7	16	<5
SL 91 GKL 029	Silt	--	25	0.3	59	13	49	26	7	<3	11	<10	<2	0.1	7	15	<5
SL 91 GKL 030	Silt	--	40	0.6	64	23	37	60	6	<3	18	<10	<2	<0.1	5	14	<5
SL 91 GKL 031	Silt	--	20	0.9	65	30	59	31	<5	<3	6	<10	<2	0.2	7	14	<5
SL 91 GKL 032	Silt	--	50	1.6	90	176	94	30	<5	<3	8	<10	<2	<0.1	8	24	<5
SL 91 GKL 033	Silt	--	35	1.9	65	119	73	52	<5	<3	10	<10	<2	<0.1	6	20	<5
SL 91 GKL 034	Silt	--	25	0.5	50	51	43	28	<5	<3	13	<10	<2	0.3	5	12	<5
SL 91 GKL 035	Silt	--	65	1.3	77	151	66	120	14	<3	8	<10	<2	0.2	7	14	<5
SL 91 GKL 036	Silt	--	20	1.2	75	60	30	240	13	<3	12	<10	<2	0.3	3	11	<5
SL 91 GKL 037	Silt	--	15	1.0	150	34	66	47	5	<3	9	<10	<2	<0.1	10	18	<5
SL 91 GKL 038	Silt	--	5	0.5	59	17	36	45	<5	<3	13	<10	<2	0.2	4	11	<5
SL 91 GKL 039	Silt	--	<5	3.0	125	20	69	54	<5	<3	11	<10	<2	0.1	7	18	<5
SL 91 GKL 040	Silt	--	<5	2.3	190	114	59	47	<5	<3	18	<10	<2	<0.1	8	18	<5
SL 91 GKL 041	Silt	--	<5	3.0	75	15	43	40	<5	<3	7	<10	<2	<0.1	5	12	<5
SL 91 NLL 001	Silt	--	<5	0.2	72	4	59	32	6	<3	5	<10	<2	0.2	13	21	<5
SL 91 NLL 002	Silt	--	<5	0.1	43	12	31	25	6	<3	8	<10	<2	0.3	7	11	<5
SL 91 AKS 001	Soil	--	<5	0.8	200	23	57	40	<5	<3	6	<10	<2	0.1	8	15	<5
SL 91 AKS 002	Soil	--	<5	0.7	228	20	54	59	6	<3	7	<10	<2	<0.1	7	13	<5
SL 91 AKS 003	Soil	--	5	0.5	238	16	55	44	<5	<3	6	<10	<2	<0.1	8	15	<5
SL 91 AKS 004	Soil	--	<5	1.2	433	19	72	37	5	<3	6	<10	<2	0.9	8	18	<5
SL 91 AKS 005	Soil	--	<5	1.0	296	20	76	44	7	<3	7	<10	<2	0.4	10	22	<5
SL 91 AKS 006	Soil	--	<5	0.6	76	37	96	165	8	<3	9	<10	7	0.1	6	17	<5
SL 91 AKS 007	Soil	--	<5	0.9	47	33	102	58	5	<3	7	<10	<2	0.2	8	15	<5
SL 91 AKS 008	Soil	--	<5	0.9	118	57	119	91	6	<3	14	<10	<2	<0.1	9	19	<5
SL 91 GKS 001	Soil	--	<5	0.5	64	21	75	49	5	<3	6	<10	<2	<0.1	10	19	<5
SL 91 GKS 002	Soil	--	<5	0.4	47	47	92	61	<5	<3	6	<10	<2	0.1	8	16	<5
SL 91 GKS 003	Soil	--	<5	0.7	54	26	70	47	<5	<3	6	<10	<2	0.4	9	16	<5
SL 91 GKS 004	Soil	--	<5	0.5	45	28	76	48	6	<3	7	<10	<2	<0.1	8	15	<5
SL 91 GKS 005	Soil	--	<5	0.4	64	13	57	43	<5	<3	7	<10	<2	0.4	12	23	<5
Minimum Detection		5	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5
Maximum Detection		10000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	1000
Method		FA/AAS	GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Report: 9100408 R Reliance Geological Services Ltd. Project: 741 Sluice Claim Page 5 of 6 Section 2 of 2

Sample Name	Ba ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
SL 91 GKL 018	17	10	39	209	<2	35	6	1	0.03	1.10	0.09	>5.00	0.52	0.05	0.02	0.05
SL 91 GKL 019	13	3	33	100	<2	39	8	<1	0.01	0.79	0.04	>5.00	0.23	0.03	0.02	0.04
SL 91 GKL 020	23	9	38	238	<2	36	7	6	0.02	0.93	0.03	>5.00	0.29	0.04	0.02	0.06
SL 91 GKL 021	108	14	57	500	5	143	1	20	0.01	2.42	0.06	>5.00	1.13	0.10	0.06	0.13
SL 91 GKL 022	5	1	33	46	<2	15	10	2	0.01	0.55	0.01	>5.00	0.09	0.03	0.01	0.02
SL 91 GKL 023	17	2	36	80	<2	29	9	1	0.01	0.69	0.01	>5.00	0.17	0.04	0.02	0.03
SL 91 GKL 024	52	6	44	276	2	72	2	4	0.01	1.42	0.04	>5.00	0.70	0.07	0.04	0.09
SL 91 GKL 025	52	5	43	277	2	71	1	3	0.01	1.34	0.03	>5.00	0.70	0.07	0.04	0.08
SL 91 GKL 026	46	4	36	205	3	54	1	2	0.01	0.99	0.03	4.80	0.55	0.06	0.03	0.06
SL 91 GKL 027	63	14	73	326	4	102	3	3	0.04	1.84	0.04	>5.00	0.98	0.07	0.03	0.16
SL 91 GKL 028	120	19	81	377	6	140	2	4	0.04	2.41	0.05	>5.00	1.05	0.11	0.04	0.16
SL 91 GKL 029	104	18	78	335	6	128	2	3	0.04	2.38	0.05	>5.00	1.04	0.11	0.04	0.14
SL 91 GKL 030	82	20	84	283	5	156	3	5	0.06	2.09	0.02	>5.00	1.12	0.11	0.07	0.20
SL 91 GKL 031	62	20	89	318	3	72	3	6	0.07	2.42	0.06	>5.00	1.27	0.12	0.03	0.12
SL 91 GKL 032	93	41	164	485	2	183	2	11	0.17	4.09	0.10	>5.00	2.60	0.68	0.08	0.15
SL 91 GKL 033	82	28	104	438	4	160	3	7	0.10	2.51	0.05	>5.00	1.66	0.31	0.06	0.15
SL 91 GKL 034	68	16	73	234	5	120	2	4	0.05	2.05	0.03	>5.00	1.07	0.19	0.04	0.11
SL 91 GKL 035	75	17	81	314	8	174	3	5	0.05	2.54	0.03	>5.00	1.09	0.18	0.06	0.21
SL 91 GKL 036	104	21	53	163	4	143	2	4	0.01	1.85	0.01	>5.00	0.86	0.13	0.06	0.16
SL 91 GKL 037	134	24	138	346	5	197	3	8	0.12	4.07	0.09	>5.00	1.53	0.38	0.05	0.15
SL 91 GKL 038	67	15	104	238	3	95	2	4	0.03	2.44	0.02	>5.00	0.86	0.09	0.05	0.13
SL 91 GKL 039	66	30	115	272	2	98	2	8	0.08	2.79	0.09	>5.00	1.23	0.21	0.06	0.14
SL 91 GKL 040	65	34	149	458	3	96	3	11	0.11	3.64	0.05	>5.00	1.40	0.15	0.05	0.18
SL 91 GKL 041	33	12	62	138	2	44	3	4	0.05	1.48	0.04	>5.00	0.52	0.08	0.02	0.08
SL 91 NLL 001	50	13	51	472	3	134	2	4	0.01	2.14	0.08	>5.00	1.05	0.08	0.07	0.10
SL 91 NLL 002	38	5	36	231	2	63	1	2	0.01	1.09	0.04	4.87	0.57	0.06	0.04	0.06
SL 91 AKS 001	63	20	67	296	6	69	1	2	0.05	3.33	0.08	4.58	0.68	0.09	0.03	0.11
SL 91 AKS 002	45	18	81	198	6	37	2	5	0.08	3.46	0.07	5.00	0.77	0.08	0.03	0.07
SL 91 AKS 003	76	25	92	312	7	63	1	6	0.08	4.07	0.06	>5.00	1.12	0.08	0.02	0.08
SL 91 AKS 004	44	17	64	204	12	45	2	7	0.07	3.64	0.09	3.80	0.67	0.08	0.02	0.10
SL 91 AKS 005	91	29	93	251	7	95	1	11	0.10	3.68	0.10	>5.00	0.98	0.15	0.04	0.09
SL 91 AKS 006	145	23	84	301	7	103	1	4	0.07	4.00	0.06	>5.00	0.75	0.11	0.03	0.13
SL 91 AKS 007	81	29	96	427	4	34	1	4	0.08	2.48	0.11	>5.00	0.69	0.08	0.02	0.09
SL 91 AKS 008	102	27	97	318	7	77	2	5	0.10	4.12	0.07	>5.00	1.06	0.09	0.03	0.09
SL 91 GKS 001	118	27	81	401	6	89	2	3	0.07	4.08	0.09	>5.00	0.78	0.14	0.03	0.15
SL 91 GKS 002	93	22	88	338	6	75	1	3	0.07	2.82	0.15	>5.00	0.64	0.10	0.02	0.10
SL 91 GKS 003	76	23	81	303	6	53	1	2	0.05	3.68	0.08	4.75	0.62	0.09	0.02	0.08
SL 91 GKS 004	91	21	83	310	5	59	1	2	0.07	3.22	0.13	>5.00	0.62	0.11	0.02	0.09
SL 91 GKS 005	81	34	109	321	4	71	2	4	0.14	2.86	0.08	>5.00	0.99	0.14	0.02	0.16
Minimum Detection	2	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample

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Report: 9100408 R Reliance Geological Services Ltd. Project: 741 Sluice Claim Page 6 of 6 Section 1 of 2

Sample Name	Type	Au ppb	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm
SL 91 GKS 006	Soil	--	<5	0.5	74	17	62	40	6	<3	5	<10	<2	<0.1	13	23	<5
SL 91 GKS 007	Soil	--	<5	0.5	63	26	90	55	7	<3	8	<10	<2	0.2	11	20	<5
SL 91 GKS 008	Soil	--	<5	0.6	69	20	54	44	7	<3	6	<10	<2	0.2	10	19	<5
SL 91 GKS 009	Soil	--	<5	0.5	86	9	57	65	9	<3	6	<10	<2	0.1	12	22	<5
SL 91 GKS 010	Soil	--	10	0.6	74	13	57	51	<5	<3	4	<10	<2	<0.1	10	19	<5
SL 91 GKS 011	Soil	--	<5	0.6	65	12	63	54	6	<3	4	<10	<2	<0.1	10	19	<5
SL 91 GKS 012	Soil	--	<5	0.6	60	13	59	51	<5	<3	4	<10	<2	<0.1	11	18	<5
SL 91 GKS 013	Soil	--	<5	1.2	33	27	39	66	5	<3	8	<10	<2	0.2	4	7	<5
SL 91 GKS 014	Soil	--	<5	1.6	175	66	114	176	14	<3	26	<10	<2	<0.1	9	20	<5
SL 91 GKS 015	Soil	--	<5	0.5	57	29	73	99	9	<3	40	<10	<2	0.3	9	16	<5
Minimum Detection		5	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5
Maximum Detection		10000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	1000
Method		FA/AAS	GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Ba ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
SL 91 GKS 006	107	33	89	358	5	176	2	5	0.10	4.74	0.14	>5.00	1.09	0.17	0.03	0.10
SL 91 GKS 007	115	29	95	459	6	82	1	3	0.07	3.66	0.13	>5.00	0.84	0.11	0.03	0.10
SL 91 GKS 008	76	26	86	300	5	66	1	3	0.09	2.38	0.09	>5.00	0.79	0.12	0.03	0.14
SL 91 GKS 009	109	33	82	320	6	122	2	4	0.09	>5.00	0.16	4.87	0.84	0.14	0.03	0.11
SL 91 GKS 010	83	32	70	289	5	99	2	3	0.06	>5.00	0.17	4.23	0.77	0.13	0.03	0.12
SL 91 GKS 011	88	28	69	360	5	101	1	3	0.06	>5.00	0.14	4.11	0.81	0.15	0.03	0.14
SL 91 GKS 012	92	25	61	343	6	76	2	3	0.06	4.84	0.11	3.82	0.72	0.13	0.02	0.12
SL 91 GKS 013	45	10	48	130	5	26	1	1	0.05	1.86	0.10	2.53	0.36	0.04	0.02	0.04
SL 91 GKS 014	163	32	106	369	12	88	1	7	0.12	3.34	0.10	>5.00	1.29	0.23	0.05	0.11
SL 91 GKS 015	93	19	70	295	7	45	1	3	0.06	2.54	0.15	>5.00	0.77	0.09	0.02	0.07
Minimum Detection	2	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Method of Gold analysis by Fire Assay / AAS

(a) 20.0 to 30.0 grams of sample is mixed with a combination of fluxes in a fusion pot. The sample is then fused at high temperature to form a lead "button".

(b) The precious metals are extracted by cupellation. Any Silver is dissolved by nitric acid and decanted. The gold bead is then dissolved in boiling concentrated aqua regia solution heated by a hot water bath.

(c) The gold in solution is determined with an Atomic Absorption Spectrometer. The gold value, in parts per billion, is calculated by comparision with a set of known gold standards.

QUALITY CONTROL

Every fusion of 24 pots contains 22 samples, one internal standard or blank, and a random reweigh of one of the samples. Samples with anomalous gold values greater than 500 ppb are automatically checked by Fire Assay/AA methods. Samples with gold values greater than 10000 ppb are automatically checked by Fire Assay/Gravimetric methods.

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Method of ICP Multi-element Analyses

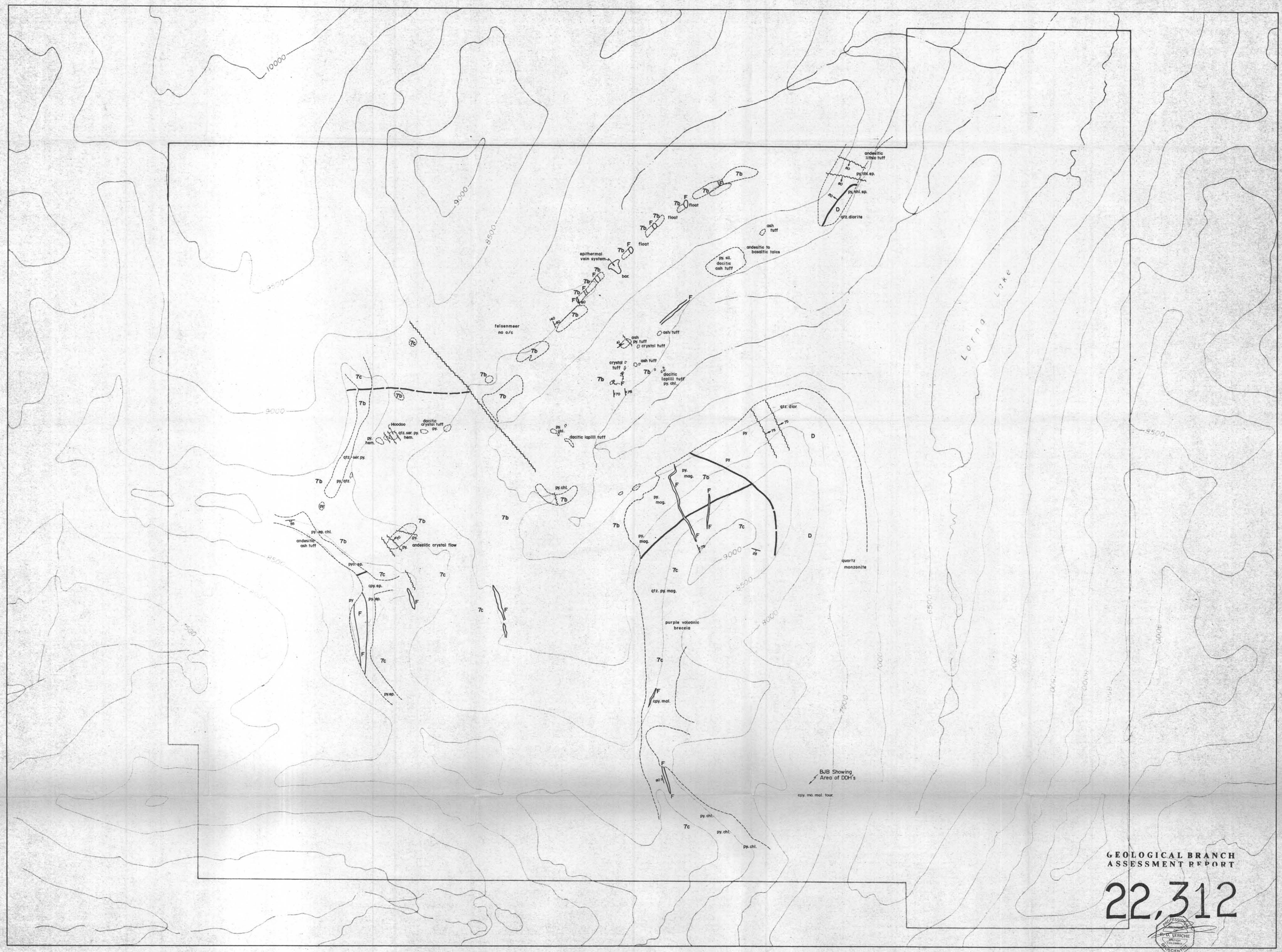
(a) 0.50 grams of sample is digested with diluted aqua regia solution by heating in a hot water bath for 90 minutes, then cooled, bulked up to a fixed volume with demineralized water, and thoroughly mixed.

(b) The specific elements are determined using an Inductively Coupled Argon Plasma spectrophotometer. All elements are corrected for inter-element interference. All data are subsequently stored onto computer diskette.

* Aqua regia leaching is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

QUALITY CONTROL

The machine is calibrated using six known standards and a blank. Another blank, which was digested with the samples, and a standard are tested before any samples to confirm the calibration. A maximum of 20 samples are analysed, and then a standard, also digested with the samples, is run. A known standard with characteristics best matching the samples is chosen and tested. Another 20 samples are analysed, with the last one being a random reweigh of one of the samples. The standard used at the beginning is rerun. This procedure is repeated for all of the samples.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,312

P.D. LERICHE
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA

LEGEND

- Bedding
- Vein / Dyke
- Fracture
- Fault
- Outcrop
- Geological Contact – defined, inferred

LEGEND

Upper Cretaceous (Battlement Ridge Group)

7c Andesitic breccia, epiclastic sediments, and lapilli tuff, dark green - purple, distinctive bedded aspect with minor localized silicification, pyritization, and sericite alteration.

7b Dacitic-andesitic crystal, lithic, ash, and lapilli tuffs, volcanic breccia, minor andesitic flows and crystal flows, distinctive abundance of 1 - 10% disseminated and fracture filling pyrite, minor pyrrhotite, magnetite, widespread development of sericite-quartz and chlorite-epidote alteration.

Eocene Intrusive Rocks

D Quartz monzonite to quartz diorite, minor biotite and hornblende.

F Felsite dyke/sill, aphyric texture, secondary sericite developed, 1 - 10% quartz eyes, and 20 - 60% fine grained quartz.

SYMBOLS

bar	barite	chl	chlorite
cpy	chalcopyrite	ep	epidote
hem	hematite	mag	magnetite
mal	malachite	mo	molybdenite
py	pyrite	pyo	pyrrhotite
qtz	quartz	ser	sericite
		tour	tourmaline

P/C

0 100 200 500 750 1000 METRES

LAC MINERALS LTD.

SLUICE BOX PROPERTY

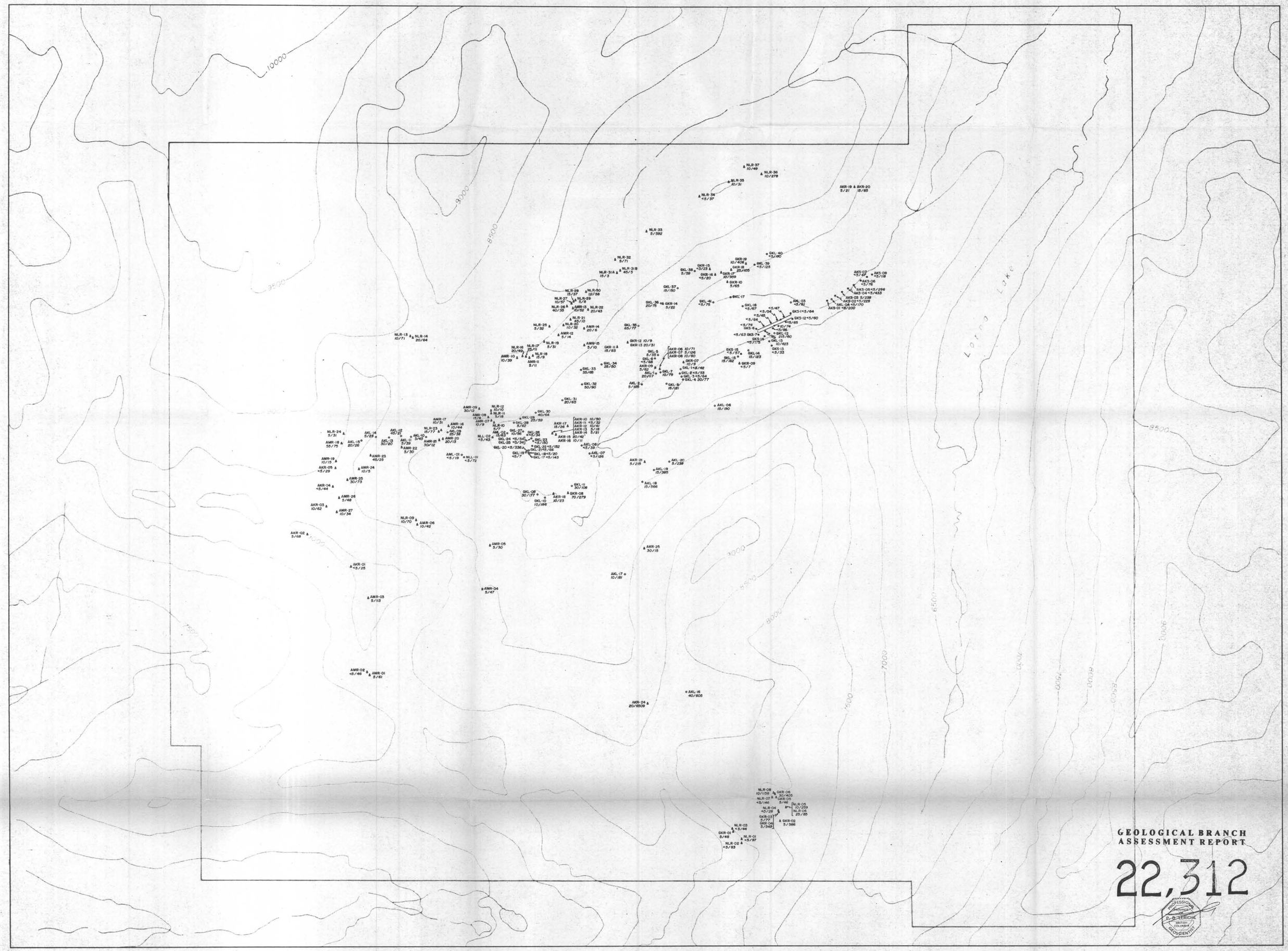
Clinton Mining Division, B.C.

SLUCE 1-8 CLAIMS

GEOLOGY

Scale 1 : 10,000	N.T.S. 92-O/3E	Drawn by
Date October 1991	Geologist	Figure 6

RELIANCE GEOLOGICAL SERVICES INC.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,312

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA P. D. LERICHE GEOSCIENTIST

LEGEND

AMR-04 Δ Rock Chip sample location and I.D.

AKL-17 ○ Silt " " " "

AKS-03 ◆ Soil " " " "

10/181 Assay values
Au (ppb) / Cu (ppm)

P/C

0 100 200 500 750 1000 METRES

N

LAC MINERALS LTD.

SLUICE BOX PROPERTY

Clinton Mining Division, B.C.

Rock Chip, Silt and Soil Sample Locations & Assays

Au (ppb) / Cu (ppm)

Scale 1 : 10,000	N.T.S. 92-0/3E	Drawn by
Date October 1991	Geologist	Figure 7

RELIANCE GEOLOGICAL SERVICES INC.