

TECHNICAL REPORT

On work performed by

GORDON G RICHARDS

**As partial fulfillment of his
1999 GRASSROOTS PROSPECTING PROGRAM
under the
YUKON MINING INCENTIVES PROGRAM**

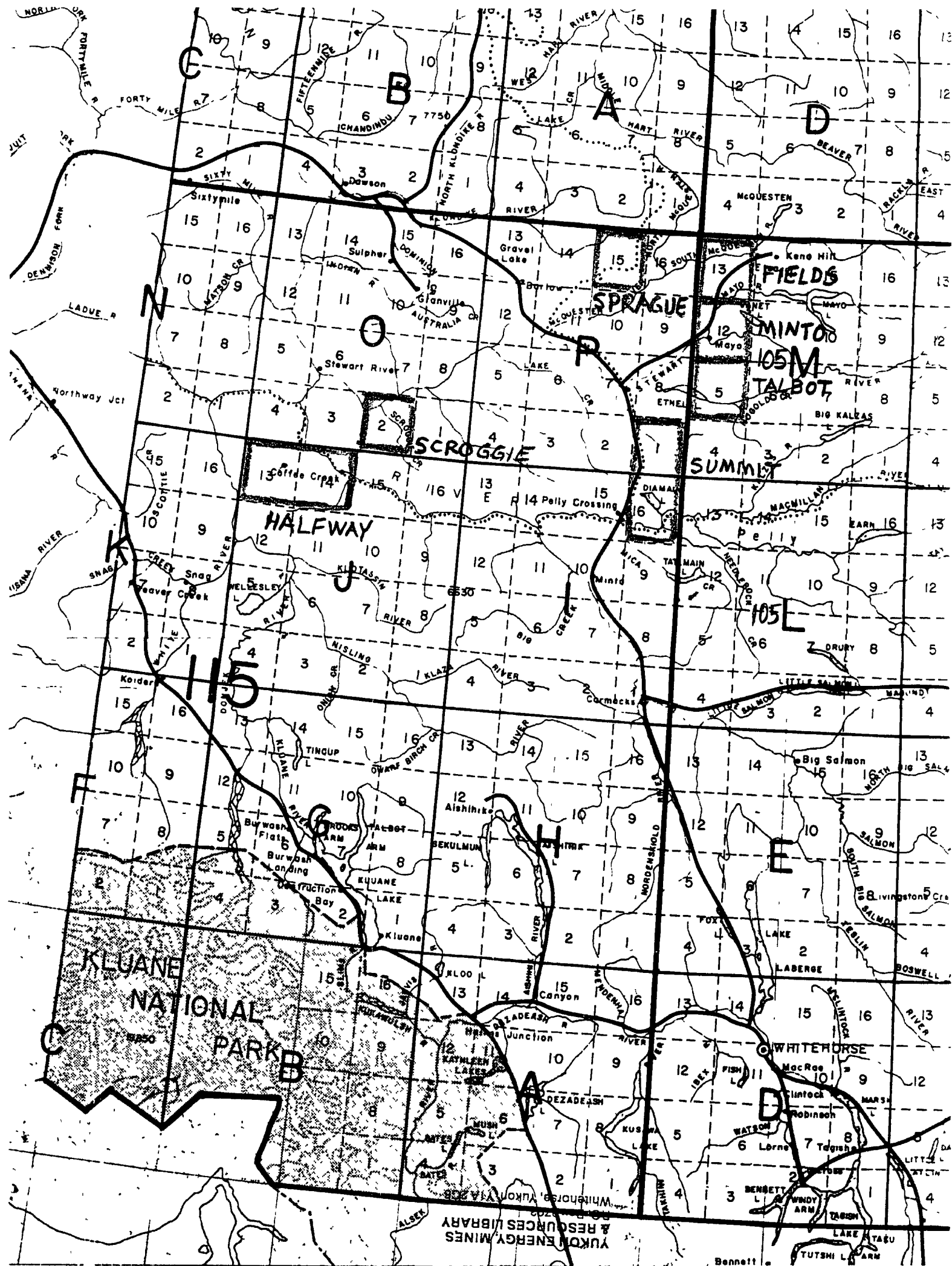
In AREAS

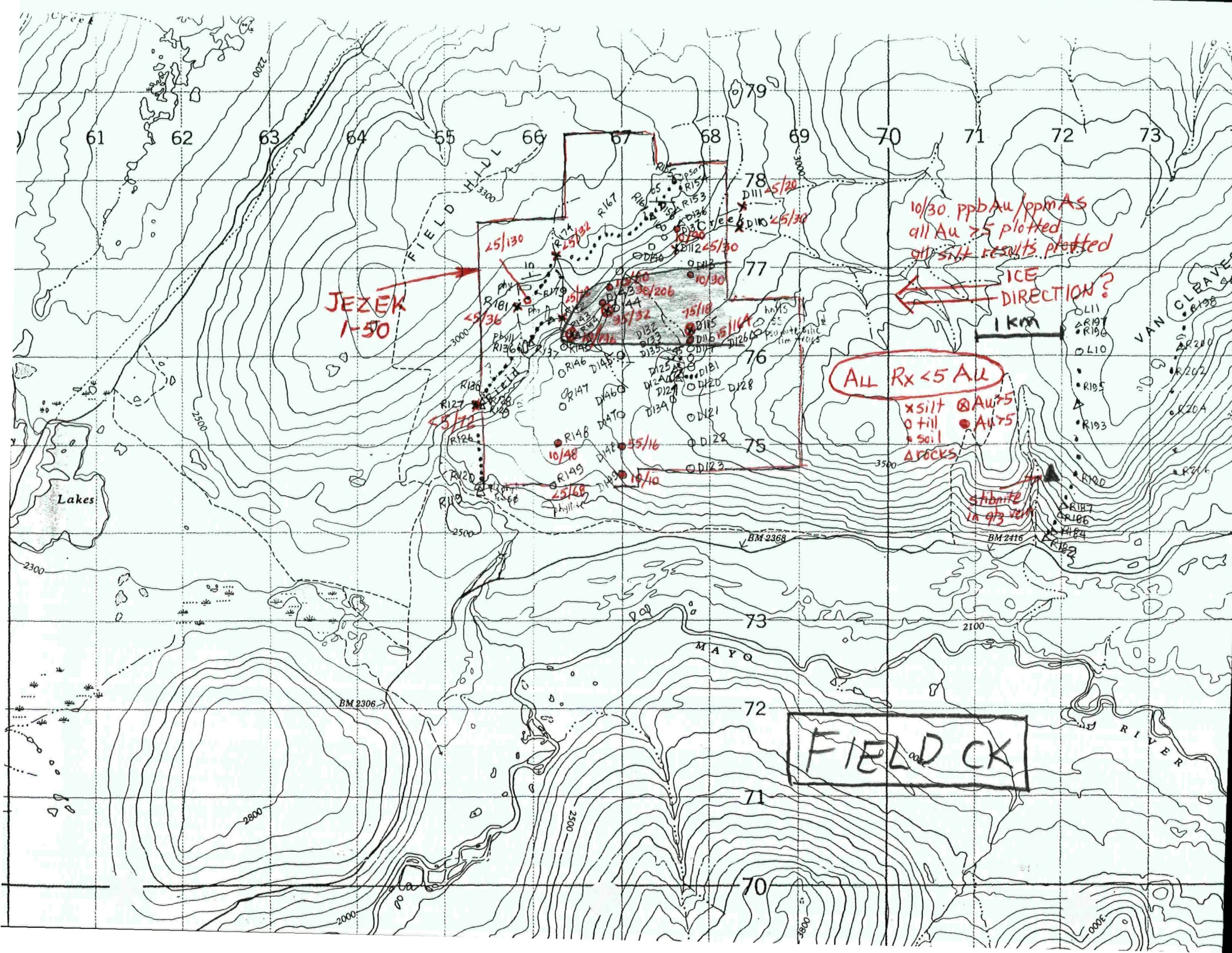
**Fields Ck 105M/13E
Minto Ck 105M/12W
Talbot Lake 105M/5
Summit Lake 115P/1
Scroggie Ck 115O/2**

**Dated
January 10, 2000**

**By
Gordon G Richards**

99-059





JEZEK
1-50

25/130

25/182

25/20

25/30

10/30 ppb Au/ppm As
all Au > 5 plotted
all silt results plotted

ICE
DIRECTION?

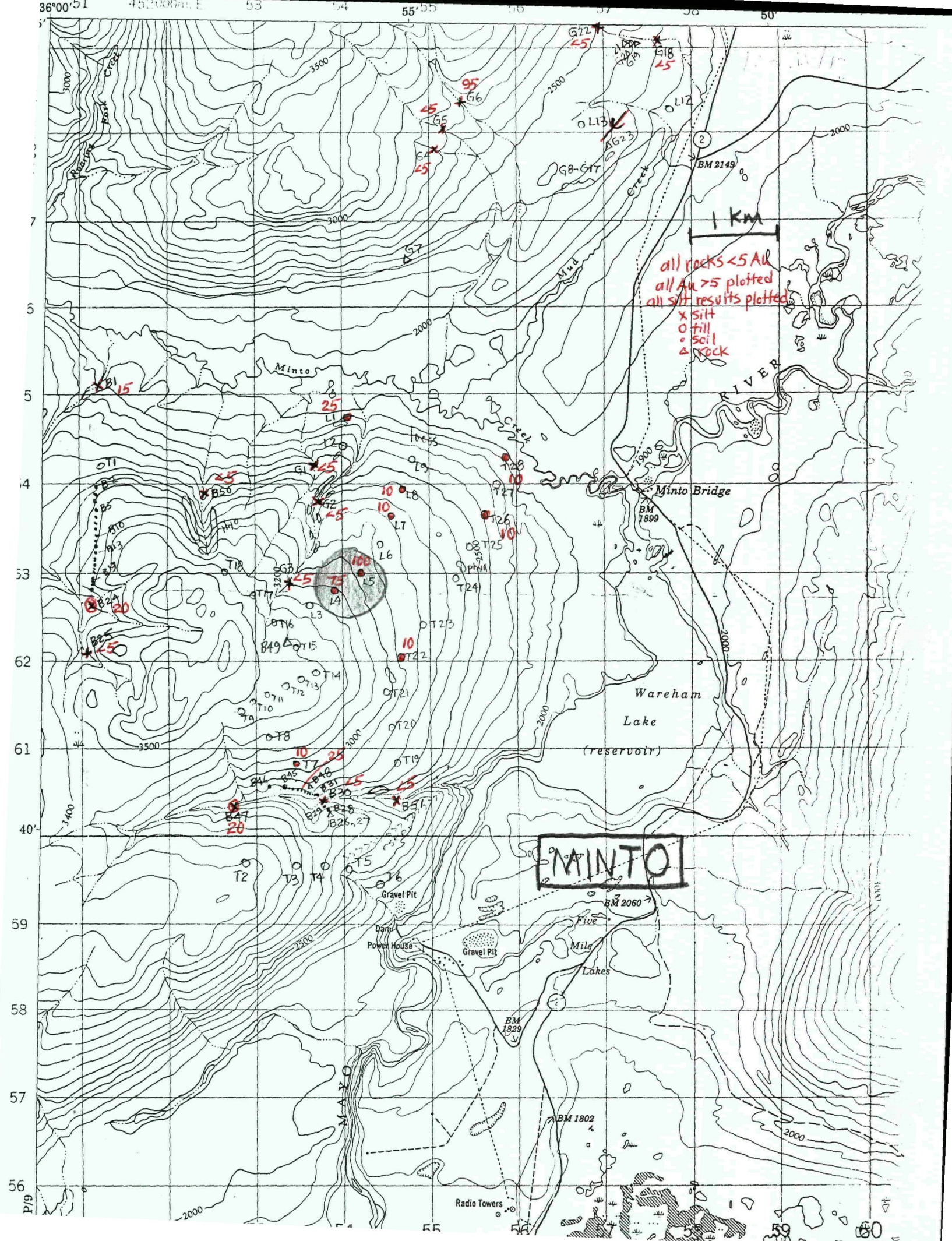
1 KM

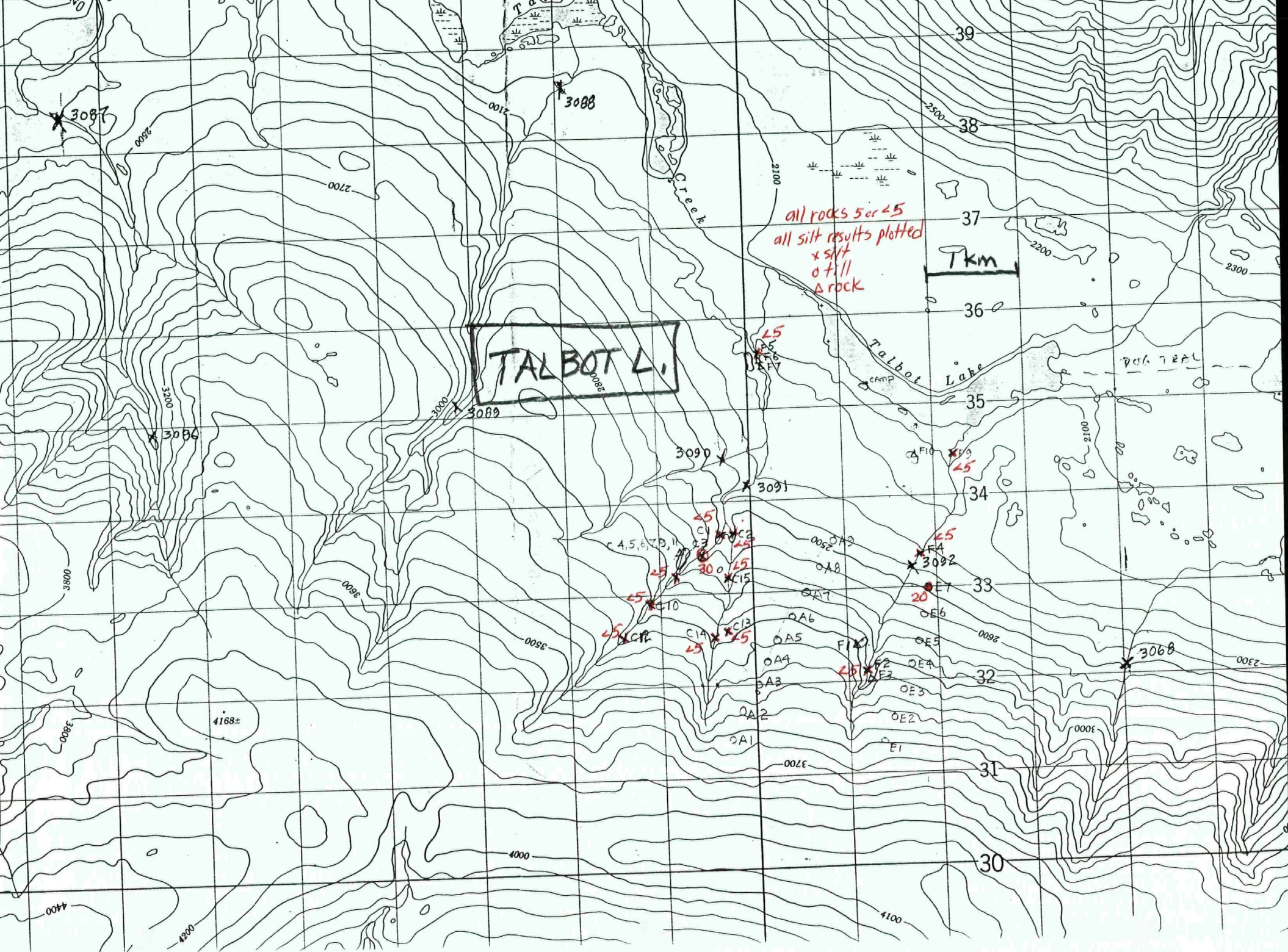
ALL Rx < 5 Au

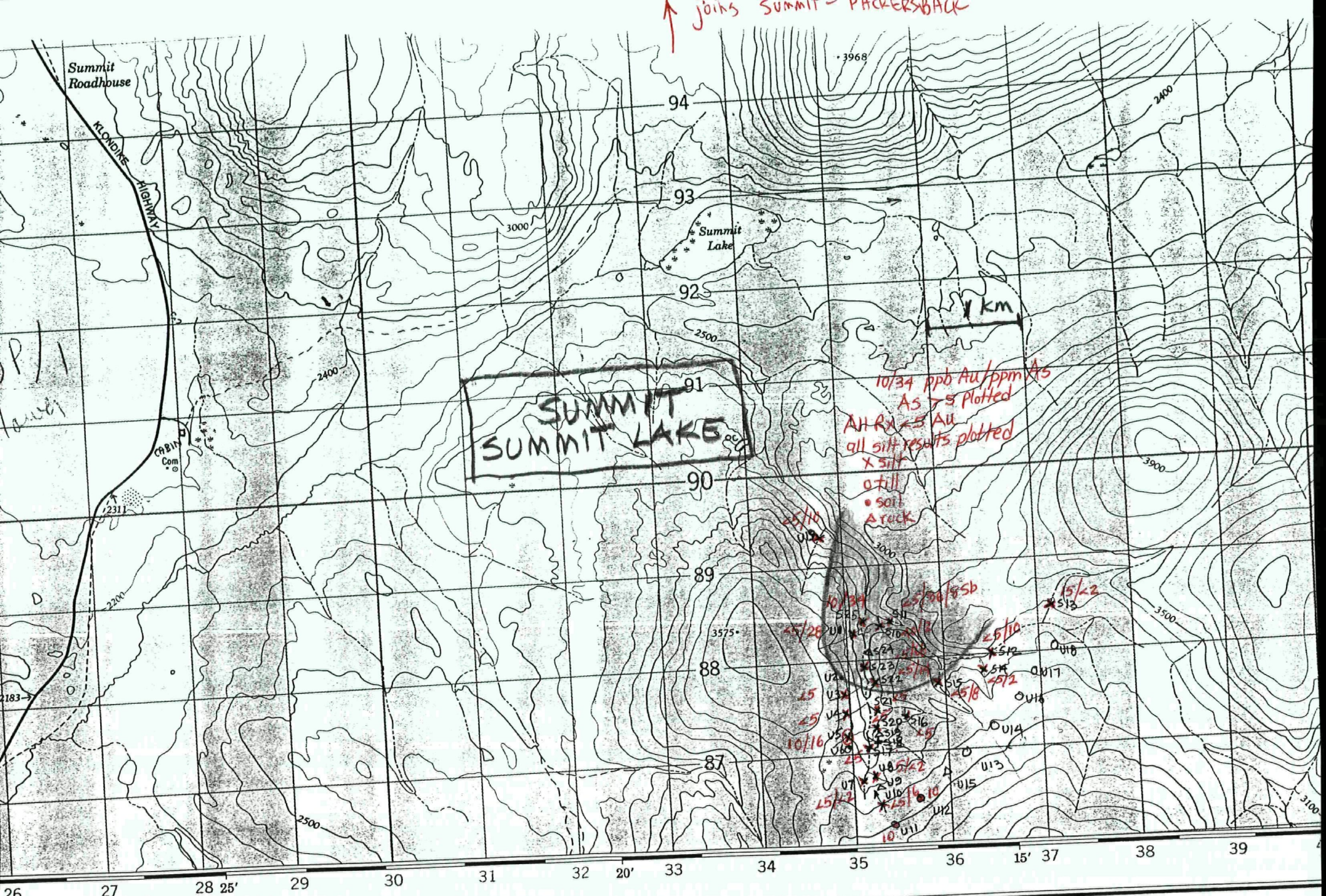
x silt @ Au > 5
o till @ Au > 5
• soil
▲ rocks

stibnite
in g/b vein

FIELD CK





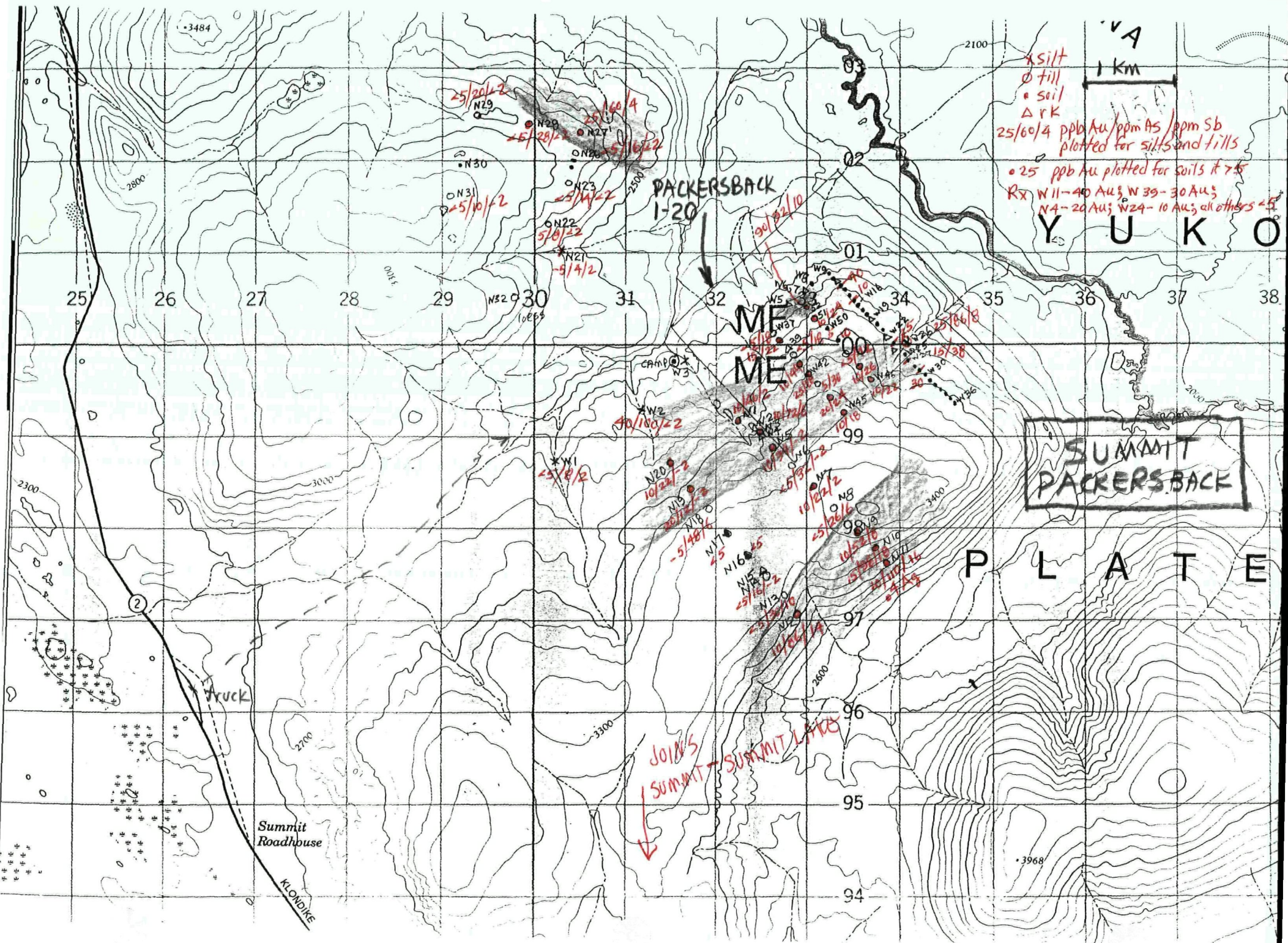


joins SUMMIT - PACKERSBACK

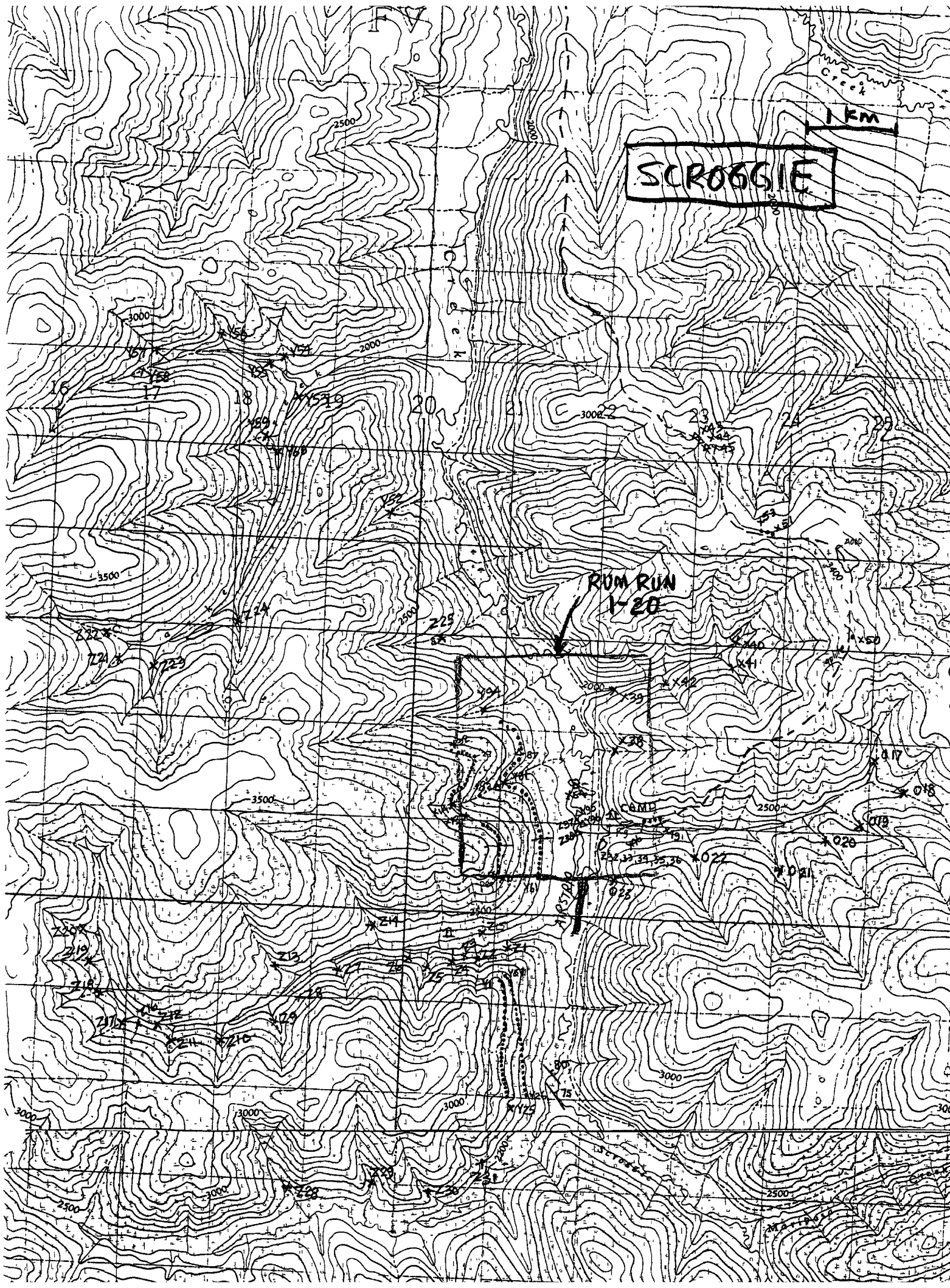
CRYSTAL LAKE

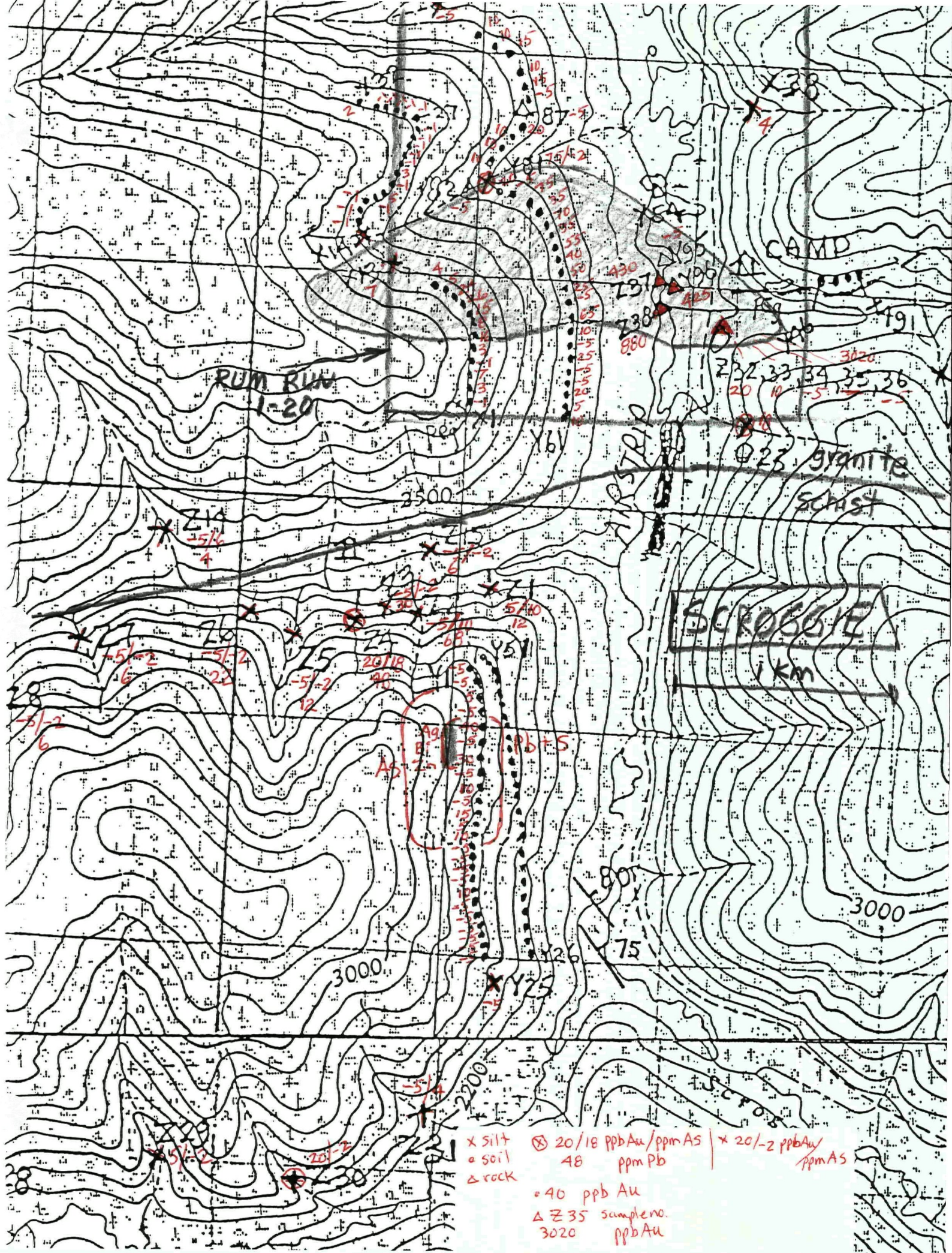
YUKON TERRITORY TERRITOIRE DU YUKON

Roads:	Routes:	dual highway	more than 2 lanes
hard surface	revêtement dur	double chaussée	plus de 2 voies
soft surface	revêtement dur	2 lanes	less than 2 lanes
			moins de 2 voies









The following is a summary of my prospecting activity for 1999. Mr. Dave Bennett assisted me for the period June 28 to July 29 and I returned to Yukon alone for the period Sept 8 to 17.

Prospecting Day

	June 28	drove Watson L - Whitehorse. Mining Rec for maps & publications
1	29	drove Mayo. Prospected Fields Ck.
2	30	staked JEZEK claims and sampled Fields Ck
3	July 1	staked JEZEK claims and sampled Fields Ck
4	2	staked JEZEK claims and sampled Fields Ck
5	3	Fields Ck. Sampled.
6	4	Fields Ck. Sampled.
7	5	recorded JEZEK claims. Minto Ck. Sampled
8	6	Minto Ck. Sampled.
9	7	Minto Ck. Sampled.
10	8	Minto Ck. Sampled.
11	9	Minto Ck. Sampled
12	10	Minto Ck. Sampled.
13	11	Talbot Lake. Flew into lake and sampled.
14	12	Talbot Lake. Sampled.
	13	flew Mayo. Bought supplies and packed gear for backpacking.
15	14	Summit - Packersback. Walked into area and sampled.
16	15	Summit - Packersback. Sampled.
17	16	Summit - Packersback. Sampled.
18	17	Summit - Packersback. Sampled and packed to truck & returned camp.
19	18	Summit - Packersback. Staked PACKERSBACK claims.
20	19	Summit - Packersback. Out to truck, drove Mayo, recorded claims.
	20	phoned Ken Galambos, organized for Scroggie Ck, drove Dawson.
21	21	Scroggie Ck. Flew in and sampled.
22	22	Scroggie Ck. Sampled.
23	23	Scroggie Ck. Sampled.
24	24	Scroggie Ck. Sampled.
25	25	Scroggie Ck. Sampled, flew Dawson, packed for Summit - Summit L.
26	26	Summit - Summit L. Walked in and sampled.
27	27	Summit - Summit L. Sampled
28	28	Summit - Summit L. Sampled, walked out, drove Whitehorse.
	29	drove Whitehorse into B.C.
	Sept 8	flew Vcr - Whs. Bus Whs - Dawson.
29	9	Scroggie Ck. Flew in and staked RUM RUN claims
30	10	Scroggie Ck. Staked RUM RUN claims.
31	11	Scroggie Ck. Sampled.
32	12	Scroggie Ck. Sampled.
33	13	Scroggie Ck. Sampled.
34	14	Scroggie Ck. Staked RUM RUN claims and sampled.
35	15	Scroggie Ck. Sampled & flew Dawson.
36	16	Scroggie Ck. Recorded claims, bus Dawson - Whitehorse.
	17	flew Whitehorse - Vancouver

The five areas investigated were all evaluated with an emphasis on geochemical surveys. Silt, rock, till and soil samples were collected throughout the areas as itemized in the following table.

	SILTS	ROCKS	TILLS	SOILS
FIELDS CK	10	26	29	10 (64)
MINTO CK	15	24	39	14 (35)
TALBOT L	13	11	14	2
SUMMIT				
PACKERSBACK	5	12	37	30
SUMMIT L	21	4	8	2
SCROGGIE CK	59	17	0	93 (119)
HALFWAY CK	dropped			
SPRAGUE CK	dropped			
TOTALS	123	94	127	151 (252)

Note: Only 151 of the 252 soil samples collected were actually analyzed.

Silt samples were collected from running streams by either collecting fine sediment with a scoop directly from the stream or by screening through a -25 mesh sieve into a plastic basin in order to obtain a sample containing about 40 gm of -80 mesh material for analysis. Attached field notes describe when screening process was used. Samples were collected in appropriately numbered gusseted kraft sample bags.

Rock samples were made of three to seven rock chips from float or outcrop as described in field notes and small enough to fit into a gusseted kraft sample bag.

Till samples were collected by a scoop from a pit dug by shovel to depths as much as one meter. This was necessary because of abundant loess throughout all areas except Scroggie Ck, which was unglaciated, and therefore lacking till. A shovel-dug pit gave a good look at the soil profile in order to distinguish till from other 'soil' types. As samples were ultimately to be screened to -150 mesh in the lab, one to three kg of till material was collected depending on coarseness of the sample and placed into spun polyester bags. Coarser sandy samples required bigger field samples in order to achieve this goal.

Soil samples were collected with a scoop from pits dug by pick, mattock or shovel or by auger from C-horizon wherever possible, although some B-horizon material was sometimes included in the sample. Samples were placed in numbered gusseted kraft bags for ultimate analysis of their -80 mesh fraction. Not all soils were analyzed, as can be seen in the table above. Where long lines of soils were collected and chips in soil pits and float and outcrop along the line failed to show any alteration or limonitic staining, and silts tills and rock samples yielded no anomalies, then these soils were not analyzed in order to save money on geochemical analysis.

Control of sample locations was by hip chain and compass with the use of 1:50,000 topo maps.

All samples were analyzed at Chemex Labs, 212 Brooksbank Ave, North Vancouver, B.C. Rock samples were crushed and pulverized, all other samples were dried and sieved (silts & soils -80 mesh, tills -150 mesh). Gold analyses were done on 30 gm samples by fire assay preconcentration and atomic absorption finish. A 32 element ICP analyses was done on most till and silt samples and some soil samples. Results are included in an Appendix.

Following is a discussion of the results for each of the five areas studied. On the accompanying maps, gold and some arsenic results are plotted for all silts and all anomalous gold results (>5 ppb) for other types of samples are also plotted.

FIELDS CREEK

Access was made by truck along the road from Mayo to Duncan Ck and then by traverse north of the road.

Initial work involved panning a few colors and flakes of gold from several pans taken along Fields Ck one km above the old bridge. Boulders of quartz and of phyllites containing numerous quartz veins and veinlets were abundant along Field Ck. Claims were staked, the JEZEK 1-50, based on this and the high arsenic, antimony +gold values in RGS data.

Till samples were collected at 300-m intervals along lines spaced one km apart over the gently sloping area south of Fields Ck that lacks outcrop, in an attempt to find a glacially smeared geochemical train, which from case studies elsewhere usually indicates a source 2 to 4 km up-ice. Loess was particularly abundant in this area.

Rock exposures were Hyland Group psammite and lesser phyllite containing abundant quartz veins to one meter wide and down to numerous hairline fracture fillings lying both in and crosscutting schistosity. Low intensity limonitic fractures were not uncommon in several areas. Psammite with pebble rich units were found on the hillside northwest of Fields Ck at several locations. Rock chips were collected from quartz-veined float and some similar outcrops.

Silts were collected from Fields Ck at four locations and all tributaries as shown. Fine silt was particularly abundant in Fields Ck as a coating on rocks and creek bottom and probably represents remobilized loess.

Soils were collected on steeper slopes where any loess and till that had previously existed had been removed by erosion. Care was taken to dig deep enough to get away from surficial mixing of any remnant loess or till so that a rocky C-horizon sample was generally obtained. In order to keep geochem costs down, many of these samples were not analyzed for gold because silts, tills and rock chips of float and outcrop were not even slightly anomalous for gold.

Results were discouraging although a modest target was outlined in the center of the claim block as shown on the map. Three silts, all of which were screened to -25 mesh, were anomalous for gold and arsenic, as were four tills. All other silts were not screened and it may be that results from screened samples, which involves collection of gravel from the creek bed is more indicative of the drainage than results from unscreened silts which undoubtedly contain far more of the remobilized loess. The anomalous silts do however occur in the same area as the four anomalous tills and could represent a glacially smeared anomaly with the target along the east edge of the claim block. The gap in the till samples between D114 and D115 occurs because of swampy ground.

It is recommended that additional samples be collected to better define the anomaly, to limit the up-ice extension of the anomaly and to search for mineralized float and outcrop.

MINTO CREEK

Access was made by truck from the dam on Mayo River and from the road along the north side of Minto Creek.

The area was selected for the occurrence of anomalous Au-As-Sb in RGS data in an area of rhyolite intruding Hyland Group psammite and phyllite. Loess deposits mantle till except on steeper slopes where soils and talus are more common. Samples were collected as shown on the map in order to look for a source of the anomalous RGS data with an emphasis on evaluating any glacial smearing. Two contiguous till samples L4 and L5 were anomalous for gold (75 and 100 ppb Au) but not for any other element on the ICP analyses. Rhyolite occurs in outcrop along the creek some 400-m west and in the bottom of till pits at L3, T17 and T18 indicating the gold could be related to mineralization along the contact between the rhyolite and phyllite. Source of the anomaly could be transported. Sample L4 was a yellow till with quartz and phyllite pebbles. Sample L5 was a dark brown till with pebbles of quartz, phyllite and greenstone.

The two samples anomalous for gold described above provide a low order target that could be looked at in the future but because of the lack of support in adjacent samples and no pathfinder element association no follow up prospecting is recommended at this time. The original two anomalous RGS silt samples were probably collected at low elevations and represent transported anomalies downstream along the south side of Minto Creek and not down off the north facing mountain slope as was originally thought.

TALBOT LAKE

Access was made by floatplane from Mayo to the south shore of Talbot Lake where a camp was established and from where traverses were made as shown on the accompanying map.

The area was selected for the somewhat spotty occurrence of gold, arsenic and antimony in RGS data in an area of few outcrops with the aim of using till sampling and detailed silt sampling to try and find a glacially smeared anomalous pattern leading to a new discovery. All outcrops were psammite and phyllite of the Hyland Group. A few spotty gold anomalies were found with no encouragement for further work. The anomalous RGS data was not repeated.

SUMMIT

Work on Summit area was done from two camps and is divided into two areas: PACKERSBACK and SUMMIT LAKE for discussion purposes. Access was made by packing a light camp into each area from the Klondike highway as shown on the accompanying maps along with sample locations. Both areas were chosen on the basis of stronger Au-As-Sb anomalies reported on RGS data within a large, 50 km by 10 km zone of silts variably anomalous for Sb and As with spotty Au, Sn, and W. This larger area lies immediately southwest of Tintina Trench and northeast of a northwest trending batholith, within schists, phyllites and gneisses of the Yukon Group.

Packersback

The main creek flowing northeast into Crooked Creek cuts through a glacial outwash bench sloping gently northeast with its upper limit at 2700ft elevation. Material below this elevation is glacial outwash although underlying till and possibly outcrop may be exposed locally along drainages. Sampling was limited to elevations above this level except for a few silts. The area lies just beyond the limits of the most recent McConnell Glaciation but underwent older Reid Glaciation and probably even a Pre-Reid glacial event.

Outcrop was sparse but made up of moderately to gently dipping schists, phyllites and gneisses. Several pieces of float of bleached and silicified schist(?) with quartz veinlets and numerous limonitic fractures bordering on a breccia texture were found at N2, N4, W11, W22, W26 and W39. Highest gold value was 40 ppb at N11. The PACKERSBACK 1-20 Quartz Claims were staked on the strength of the intense alteration seen in float and the RGS data.

Numerous gold, arsenic and antimony anomalies particularly in tills, but also in silts and soils occur and might be explained by glacial smearing from an as yet unknown source. More work is warranted. Coincident Au-As-Sb till anomalies occur at the southeast limit of sampling (N9 to N12), two km east of camp (W52), and in the north edge of sampling (N27) and warrant further investigation. About one km west of N27, a long (500m) drumlinoid feature runs east west with N29 lying on the tail end indicating a westerly direction of glacial transport in this area. The anomalous geochem pattern shown on the accompanying map could be indicative of a similar direction of glacial transport, perhaps towards 250 degrees.

The fifty km long Sb-As RGS target mentioned above thus appears to have discreet zones of anomalous gold with arsenic and antimony associated with it and is an excellent target for intensive silt and till sampling like the one described above for a small portion of this anomaly. RGS data is sufficiently widespread and sampled materials contain a variable loess, outwash and till component, that strong gold mineralization could easily exist within this area.

Therefore, detailed examination of targets outlined above and more regional prospecting of the general area are both highly recommended.

Summit Lake

Four RGS silt samples collected along the north flowing creek, south of Summit Lake, contained some of the strongest As and Sb results in the area with weakly anomalous Au and spotty Sn, Zn and Pb. Detailed recce style sampling in this area put a limit on the RGS data as indicated on the map. All Au, As, and Sb anomalous results occur in samples collected southeast of camp and could be caused by glacial smearing from a source to the northeast. Additional work is warranted in this direction.

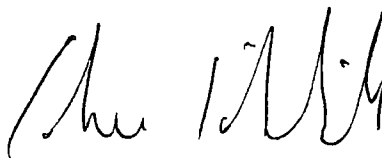
SCROGGIE CREEK

Access to the area was by fixed wing aircraft to the airstrip on Scroggie Creek where placer mining was in progress two km downstream operating out of a camp one km downstream on the east side of the valley. The area was selected because of the writer's knowledge of arsenopyrite in placer concentrates along Scroggie Ck below the mouth of Steven's Ck and silicification seen during placer mining along Scroggie Ck directly opposite the camp mentioned above. Upon arrival, it was evident that recent staking had taken place on the hills southeast of the airstrip along east west location lines and a staking crew was met the same day returning from staking on upper Mariposa Creek about six km east of the airstrip. Attention for detailed soil lines was therefor focused on the west side of Scroggie Creek. A granite batholith containing numerous roof pendants of gneisses and schists of Yukon Group is in contact with these same country rocks along an east west contact that crosses Scroggie Creek at the south end of the airstrip. Much pegmatite occurs within the granite and in fact a large body of it encompasses the gold target described below lying west of camp. Silt samples were collected regionally from all small pups and soil samples were collected as shown well above the uppermost bench along Scroggie Creek.

A grab sample of dozer-disturbed outcrop across the small creek south of camp yielded a value of 3020 ppb Au from crackled pegmatite containing 1 or 2 percent pyrite. Other samples of less altered material were 20 ppb Au or less. West of here along Scroggie Ck, grab samples of sulfide mineralized pegmatite apparently from ripped bedrock from previous placer mining activity returned values of 430, 425, and 880 ppb Au. Soils collected at 50m intervals along two lines 400m and 800m west of this location on Scroggie Ck returned anomalous gold values up to 70 ppb Au over total lengths of one km and about one-half km. Thus, a large area two-km east west by one-km north-south forms a well defined gold target that should be further evaluated by prospecting for mineralized float and outcrop and by detailed soil sampling. Attention should be paid to limiting the extent of this zone, as it is at present open to the east and west. The RUM RUN 1-20 Quartz Claims were staked in September to cover this target at which time some of the data described above was collected.

Two km south of here, in phyllites, schists and gneisses, another soil sample line gave gold values of 5 to 40 ppb over 400 m with some associated anomalous Bi (16 and 6 ppm), Ag (2.0, 1.6 and 2.6 ppm), Zn (102, 314 and 160 ppm) within more widespread anomalous Pb (26 to 308 ppm), S (.03 to .43 percent) and As (12 to 36 ppm). The adjacent soil line was not run, but two silts Z4 and Z30 (both 20 ppb Au) may be indicative of a much larger geochemically anomalous zone. Although geochemically anomalous response is not strong it must be remembered that the area has not been glaciated and that leaching of surficial metals may be so intense that little remains in soils to provide a more positive response. Certainly the arsenopyrite in placer concentrates was not indicated in the RGS data nor was any of the placer gold. Detailed soil sampling on a grid should be undertaken as well as prospecting for mineralized outcrop and float.

Respectively submitted



Gordon G Richards



Indian and Northern
Affairs Canada

Affaires indiennes
et du Nord Canada

MINING RECORDER
P O Box 10,
Mayo, Y T.
YOB 1MO
Phone:(867) 996-2256
Fax.(867) 996-2617

7840-8

July 27, 1999

Gordon Richards
6170 Tisdall Street
Vancouver BC
V5Z 3N4

Dear Gordon

I enclose Grant(s) and metal tags for the following Quartz claim(s)

GRANT NUMBER

CLAIM

YC01793 - YC1842

Jezek 1- 50

Pursuant to Section 46(1) of the Yukon Quartz Mining Act, tags shall be affixed securely to the claim posts. This is to be done as soon as reasonably possible after the recording of the claims, and in the event of default, entry for the claims may, after a hearing, be cancelled upon the application of any person who, in the opinion of the Mining Recorder, has been misled by the absence of the tags.

Claim owners are reminded that the maintenance of claim posts, which must be properly staked, is a continuing responsibility of the claim owner. This includes ensuring that claim tags are properly affixed to posts at all times.

All work performed on a mineral claim or prospecting lease must now comply with the operating conditions as outlined in Schedule I of the **Mining Land Use Regulations** and may require an approved notification or operating plan. For more information please contact the Mining Land Use office in Whitehorse at (867) 667 - 3265 or contact the district Mining Inspector.

Yours truly,

Chad Santo
Mining Recorder
Mayo Mining District

encl.

Canada



Indian and Northern
Affairs Canada

Affaires indiennes
et du Nord Canada

MINING RECORDER
P.O. Box 10,
Mayo, Y.T.
Y0B 1M0
Phone: (867) 996-2256
Fax: (867) 996-2617

7840-8

August 26, 1999

Gordon Richards
6170 Tisdall Street
Vancouver BC
V5Z 3N4

Dear Gordon

I enclose Grant(s) and metal tags for the following Quartz claim(s).

GRANT NUMBER

CLAIM

YC01859 - YC01878

Packersback 1 - 20

Pursuant to Section 46(1) of the Yukon Quartz Mining Act, tags shall be affixed securely to the claim posts. This is to be done as soon as reasonably possible after the recording of the claims, and in the event of default, entry for the claims may, after a hearing, be cancelled upon the application of any person who, in the opinion of the Mining Recorder, has been misled by the absence of the tags

Claim owners are reminded that the maintenance of claim posts, which must be properly staked, is a continuing responsibility of the claim owner. This includes ensuring that claim tags are properly affixed to posts at all times.

All work performed on a mineral claim or prospecting lease must now comply with the operating conditions as outlined in Schedule I of the **Mining Land Use Regulations** and may require an approved notification or operating plan. For more information please contact the Mining Land Use office in Whitehorse at (867) 667 - 3265 or contact the district Mining Inspector

Yours truly,

Chad Santo
Mining Recorder
Mayo Mining District

encl

Canada



Indian and Northern
Affairs Canada

Affaires indiennes
et du Nord Canada

Dawson Mining District

P. O. Box 249

Dawson City, Yukon

Y0B 1G0

PH: (867) 993-5343

FAX: (867) 993-6747

7720-6-D-Q

19 November 1999

Gordon Richards

6170 Tisdall Street

Vancouver, B. C. V5Z 3N4

Dear Sir:

I have enclosed Grants for the following Mineral Claims. Claim tags are being held in our office for pickup.

GRANT NUMBER

CLAIM NAME

YC17658 - YC17677 inclusive

Rum Run 1 - 20 inclusive

Pursuant to Section 45(1) of the Yukon Quartz Mining Act, tags shall be securely affixed to the claim posts. This is to be done as soon as reasonably possible after the granting of the claims, and in the event of default, the claims may be cancelled upon the application of any person who, in the opinion of the Mining Recorder, has been misled by the lack of such tags.

Claim holders are reminded that the maintenance of claim posts, which must be properly in place, is a continuing responsibility of the claim owner. This includes ensuring that claim tags are properly affixed to posts at all times.

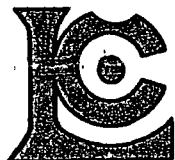
All work performed on a claim or lease must now comply with the operating conditions as outlined in Schedule I of the **Mining Land Use Regulations** and may require an approved notification or operating plan. For more information please contact the Mining Land Use office in Whitehorse at (867)667-3265.

Yours truly,

Kathryn Perry
Mining Recorder

Enclosures/vlr

Canada



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

A9925634

Comments: ATTN: GORDON RICHARDS

CERTIFICATE

A9925634

(NDJ) - RICHARDS, GORDON

Project: TIN

P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-AUG-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201 202	110 110	Dry, sieve to -80 mesh save reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	110	Au ppb: Fuse 30 g sample	FA-AAS	5	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

Page: 1
Total Pages: 3
Certificate Date: 17-AUG-1999
Invoice No.: I9925634
P.O. Number:
Account: NDJ

CERTIFICATE OF ANALYSIS

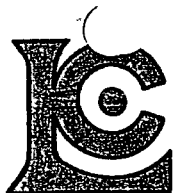
A9925634

SAMPLE	PREP CODE	Au ppb FA+AA										
99B 28	201	202	< 5									
99B 29	201	202	< 5									
99B 31	201	202	< 5									
99B 33	201	202	< 5									
99B 34	201	202	< 5									
99B 35	201	202	< 5									
99B 36	201	202	< 5									
99B 38	201	202	< 5									
99B 40	201	202	< 5									
99B 41	201	202	25									
99B 42	201	202	< 5									
99B 43	201	202	< 5									
99B 44	201	202	< 5									
99B 46	201	202	< 5									
99D 117	201	202	< 5									
99D 118	201	202	< 5									
99D 127	201	202	< 5									
99D 129	201	202	< 5									
99D 130	201	202	< 5									
99D 131	201	202	< 5									
99D 132	201	202	< 5									
99D 135	201	202	< 5									
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99N 30	201	202	< 5									
99U 2	201	202	< 5									
99U 4	201	202	< 5									
99W 8	201	202	15									
99W 9	201	202	< 5									
99W 10	201	202	5									
99W 12	201	202	10									
99W 13	201	202	< 5									
99W 14	201	202	10									
99W 15	201	202	10									
99W 16	201	202	< 5									
99W 17	201	202	< 5									

CERTIFICATION.

Thaddeus

SOILS



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

Page : 2
Total Pages : 3
Certificate Date: 17-AUG-1999
Invoice No. : 19925634
P.O. Number :
Account : NDJ

CERTIFICATE OF ANALYSIS

A9925634

SAMPLE	PREP CODE		Au ppb FA+AA									
99W 18	201	202	< 5									
99W 20	201	202	< 5									
99W 21	201	202	< 5									
99W 23	201	202	25									
99W 25	201	202	< 5									
99W 28	201	202	< 5									
99W 29	201	202	30									
99W 30	201	202	< 5									
99W 31	201	202	< 5									
99W 32	201	202	< 5									
99W 33	201	202	< 5									
99W 34	201	202	< 5									
99W 35	201	202	< 5									
99W 36	201	202	< 5									
99W 49	201	202	10									
99W 50	201	202	5									
99Y 1	201	202	< 5									
99Y 2	201	202	< 5									
99Y 3	201	202	5									
99Y 4	201	202	< 5									
99Y 5	201	202	40									
99Y 6	201	202	< 5									
99Y 7	201	202	30									
99Y 8	201	202	< 5									
99Y 9	201	202	10									
99Y 10	201	202	< 5									
99Y 11	201	202	15									
99Y 12	201	202	5									
99Y 13	201	202	10									
99Y 14	201	202	< 5									
99Y 15	201	202	< 5									
99Y 16	201	202	< 5									
99Y 17	201	202	< 5									
99Y 18	201	202	10									
99Y 19	201	202	< 5									
99Y 20	201	202	< 5									
99Y 21	201	202	< 5									
99Y 22	201	202	< 5									
99Y 23	201	202	< 5									
99Y 24	201	202	< 5									

CERTIFICATION:

[Signature]

SGICS



**212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218**

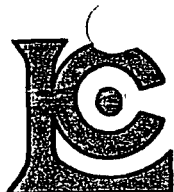
6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

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Total Pages : 3
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Invoice No. : I9925634
P.O. Number :
Account : NDJ

A9925634

21.000015

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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o RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

A9925637

Comments: ATTN GORDON RICHARDS

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A9925637

(NDJ) - RICHARDS, GORDON

Project: TIN
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-AUG-1999.

SAMPLE PREPARATION

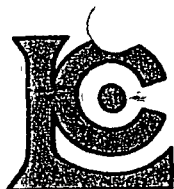
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
216	127	sieve to -150 mesh
202	127	save reject
229	127	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	127	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	127	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	127	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	127	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	127	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	127	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	127	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	127	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	127	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	127	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	127	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	127	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	127	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	127	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	127	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	127	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	127	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	127	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	127	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	127	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	127	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	127	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	127	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	127	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	127	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	127	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	127	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	127	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	127	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	127	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	127	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	127	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	127	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	127	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	127	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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o. RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

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Total Pages: 4
Certificate Date: 23-AUG-1999
Invoice No.: I9925637
P.O. Number:
Account: NDJ

CERTIFICATE OF ANALYSIS

A9925637

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
99A 1	216 202	< 5	< 0.2	1.65	12	< 10	220	< 0.5	< 2	0.11	< 0.5	13	24	22	3.03	< 10	< 1	0.03	10	0.45
99A 2	216 202	< 5	< 0.2	1.45	14	< 10	160	< 0.5	< 2	0.12	< 0.5	18	22	27	3.31	< 10	< 1	0.04	40	0.46
99A 3	216 202	< 5	< 0.2	1.61	18	< 10	290	< 0.5	< 2	0.26	< 0.5	9	24	28	2.93	< 10	< 1	0.05	30	0.49
99A 4	216 202	< 5	< 0.2	1.75	12	< 10	210	< 0.5	< 2	0.18	< 0.5	7	25	25	2.78	< 10	< 1	0.05	30	0.48
99A 5	216 202	< 5	0.2	1.95	22	< 10	290	< 0.5	< 2	0.29	< 0.5	10	27	34	3.45	< 10	< 1	0.07	30	0.55
99A 6	216 202	< 5	< 0.2	2.03	16	< 10	140	< 0.5	< 2	0.13	< 0.5	17	25	32	4.02	< 10	< 1	0.05	50	0.65
99A 7	216 202	< 5	< 0.2	1.84	10	< 10	130	< 0.5	< 2	0.18	< 0.5	9	23	27	3.26	< 10	< 1	0.05	50	0.66
99A 8	216 202	< 5	0.2	1.75	10	< 10	270	< 0.5	< 2	0.29	< 0.5	16	24	23	2.44	< 10	< 1	0.05	20	0.48
99A 9	216 202	< 5	< 0.2	1.01	10	< 10	190	< 0.5	< 2	0.36	< 0.5	10	16	18	1.90	< 10	< 1	0.03	20	0.33
99D 113	216 202	< 5	< 0.2	1.32	18	< 10	330	< 0.5	< 2	0.20	< 0.5	7	24	25	2.29	< 10	< 1	0.03	10	0.38
99D 114	216 202	10	0.2	1.50	30	< 10	360	< 0.5	< 2	0.09	0.5	9	22	40	3.09	< 10	< 1	0.05	20	0.33
99D 116	216 202	15	0.2	1.21	164	< 10	130	< 0.5	< 2	0.22	< 0.5	10	19	35	2.94	< 10	< 1	0.14	30	0.36
99D 119	216 202	< 5	< 0.2	1.57	14	< 10	130	< 0.5	< 2	0.11	< 0.5	5	21	12	2.06	< 10	< 1	0.05	20	0.36
99D 120	216 202	< 5	< 0.2	2.30	22	< 10	170	< 0.5	< 2	0.06	< 0.5	12	27	36	3.56	< 10	< 1	0.05	40	0.60
99D 121	216 202	< 5	< 0.2	1.66	40	< 10	280	< 0.5	< 2	0.37	< 0.5	7	24	17	2.23	< 10	< 1	0.07	20	0.42
99D 122	216 202	< 5	< 0.2	1.92	6	< 10	120	< 0.5	< 2	0.09	< 0.5	8	23	27	2.84	< 10	< 1	0.03	40	0.59
99D 123	216 202	< 5	< 0.2	1.88	14	< 10	150	< 0.5	< 2	0.05	< 0.5	8	25	25	2.60	< 10	< 1	0.05	20	0.46
99D 134	216 202	5	< 0.2	1.42	10	10	260	< 0.5	< 2	0.29	< 0.5	7	23	18	2.04	< 10	< 1	0.03	10	0.38
99D 137	216 202	10	0.2	1.34	90	10	150	< 0.5	< 2	0.36	< 0.5	12	18	37	3.01	< 10	< 1	0.11	40	0.49
99D 138	216 202	5	< 0.2	1.34	16	< 10	270	< 0.5	< 2	0.29	< 0.5	8	22	17	2.42	< 10	< 1	0.07	30	0.42
99D 139	216 202	5	< 0.2	1.34	26	< 10	170	< 0.5	< 2	0.28	< 0.5	12	16	38	3.49	< 10	< 1	0.09	50	0.37
99D 140	216 202	< 5	< 0.2	1.64	16	< 10	230	< 0.5	< 2	0.29	< 0.5	9	24	23	2.88	< 10	< 1	0.07	30	0.47
99D 141	216 202	< 5	< 0.2	1.63	16	< 10	370	< 0.5	< 2	0.48	< 0.5	8	24	22	2.47	< 10	< 1	0.06	20	0.47
99D 142	216 202	10	< 0.2	1.32	80	10	190	< 0.5	< 2	0.29	< 0.5	11	18	28	2.71	< 10	1	0.07	30	0.41
99D 143	216 202	30	< 0.2	1.60	206	< 10	150	< 0.5	< 2	0.33	< 0.5	14	21	39	3.44	< 10	< 1	0.13	40	0.50
99D 145	216 202	< 5	< 0.2	1.23	28	< 10	100	< 0.5	< 2	0.10	< 0.5	10	17	28	2.52	< 10	< 1	0.07	30	0.35
99D 146	216 202	< 5	< 0.2	1.50	14	< 10	250	< 0.5	< 2	0.20	< 0.5	9	25	25	2.58	< 10	< 1	0.07	30	0.44
99D 147	216 202	< 5	< 0.2	1.46	18	< 10	310	< 0.5	< 2	0.24	< 0.5	9	24	25	2.62	< 10	< 1	0.07	30	0.44
99D 148	216 202	55	< 0.2	1.23	16	< 10	220	< 0.5	< 2	0.26	< 0.5	6	19	21	2.30	< 10	< 1	0.06	30	0.43
99D 149	216 202	10	< 0.2	1.17	10	< 10	240	< 0.5	< 2	0.19	< 0.5	7	19	17	2.04	< 10	< 1	0.05	20	0.37
99E 1	216 202	< 5	< 0.2	1.74	10	< 10	90	< 0.5	< 2	0.08	< 0.5	7	22	18	3.58	< 10	< 1	0.04	30	0.61
99E 3	216 202	< 5	< 0.2	1.55	12	< 10	100	< 0.5	< 2	0.10	< 0.5	18	22	13	3.73	< 10	< 1	0.04	10	0.46
99E 4	216 202	< 5	< 0.2	1.75	12	< 10	130	< 0.5	< 2	0.10	< 0.5	20	21	26	3.64	< 10	< 1	0.04	30	0.50
99E 6	216 202	< 5	< 0.2	1.49	36	< 10	130	< 0.5	< 2	0.23	< 0.5	13	22	34	3.34	< 10	< 1	0.05	30	0.57
99E 7	216 202	20	0.2	1.91	22	< 10	330	< 0.5	< 2	0.24	< 0.5	17	26	26	3.05	< 10	< 1	0.06	30	0.50
99L 1	216 202	25	< 0.2	1.64	22	< 10	280	< 0.5	< 2	0.21	< 0.5	10	25	35	3.00	< 10	< 1	0.13	30	0.45
99L 2	216 202	< 5	< 0.2	0.98	14	< 10	170	< 0.5	< 2	0.15	< 0.5	7	16	26	1.95	< 10	< 1	0.05	30	0.30
99L 3	216 202	< 5	< 0.2	1.75	20	< 10	390	< 0.5	< 2	0.19	< 0.5	8	30	27	2.73	< 10	< 1	0.08	20	0.43
99L 4	216 202	75	< 0.2	1.01	24	< 10	110	< 0.5	< 2	0.05	< 0.5	9	15	32	2.28	< 10	< 1	0.05	30	0.26
99L 5	216 202	100	< 0.2	1.30	12	< 10	280	< 0.5	< 2	0.21	< 0.5	7	22	22	2.20	< 10	< 1	0.04	20	0.40

TILLS

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[Signature]



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o. RICHARDS, GORDON

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VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

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Total Pages: 4
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P.O. Number:
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CERTIFICATE OF ANALYSIS

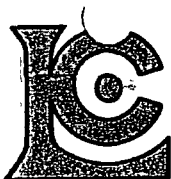
A9925637

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
99A 1	216 202	235	1 < 0.01		22	330	16	0.01	< 2	2	15	0.02	< 10	< 10	33	< 10	66
99A 2	216 202	235	< 1 < 0.01		26	390	18	0.01	< 2	1	19	0.02	< 10	< 10	23	< 10	76
99A 3	216 202	230	< 1 < 0.01		23	430	16	< 0.01	< 2	3	26	0.03	< 10	< 10	31	< 10	68
99A 4	216 202	170	< 1 < 0.01		19	300	20	0.01	< 2	3	24	0.03	< 10	< 10	32	< 10	56
99A 5	216 202	285	< 1 0.01		26	400	20	0.01	< 2	3	36	0.05	< 10	< 10	37	< 10	74
99A 6	216 202	295	< 1 < 0.01		29	280	26	0.02	< 2	1	24	0.01	< 10	< 10	25	< 10	80
99A 7	216 202	175	< 1 < 0.01		26	410	16	< 0.01	< 2	1	22	0.01	< 10	< 10	20	< 10	74
99A 8	216 202	500	< 1 < 0.01		24	430	20	0.03	< 2	3	32	0.03	< 10	< 10	33	< 10	60
99A 9	216 202	670	< 1 < 0.01		19	550	8	0.01	< 2	1	30	0.02	< 10	< 10	22	< 10	44
99D 113	216 202	240	< 1 < 0.01		19	470	8	< 0.01	< 2	3	18	0.04	< 10	< 10	37	< 10	60
99D 114	216 202	365	< 1 0.01		26	610	24	0.01	< 2	3	12	0.01	< 10	< 10	35	< 10	84
99D 116	216 202	480	< 1 < 0.01		31	550	20	< 0.01	< 4	3	20	0.03	< 10	< 10	22	< 10	76
99D 119	216 202	140	1 < 0.01		12	360	12	< 0.01	< 2	1	10	0.03	< 10	< 10	33	< 10	42
99D 120	216 202	325	< 1 < 0.01		28	170	12	< 0.01	< 2	2	9	0.03	< 10	< 10	31	< 10	64
99D 121	216 202	195	< 1 < 0.01		16	440	10	< 0.01	< 2	2	27	0.03	< 10	< 10	33	< 10	48
99D 122	216 202	245	< 1 < 0.01		19	260	8	< 0.01	< 2	1	8	0.01	< 10	< 10	21	< 10	64
99D 123	216 202	195	< 1 < 0.01		21	110	12	< 0.01	< 2	1	9	0.03	< 10	< 10	30	< 10	56
99D 134	216 202	185	1 < 0.01		16	400	10	< 0.01	< 2	3	22	0.04	< 10	< 10	34	< 10	46
99D 137	216 202	510	< 1 < 0.01		31	590	16	< 0.01	< 2	2	23	0.03	< 10	< 10	19	< 10	72
99D 138	216 202	305	< 1 < 0.01		19	510	10	< 0.01	< 2	2	32	0.04	< 10	< 10	30	< 10	60
99D 139	216 202	280	< 1 < 0.01		34	440	18	< 0.01	< 2	3	32	< 0.01	< 10	< 10	14	< 10	76
99D 140	216 202	310	< 1 < 0.01		25	230	8	< 0.01	< 2	3	30	0.04	< 10	< 10	32	< 10	56
99D 141	216 202	265	< 1 < 0.01		22	480	8	0.02	< 2	3	38	0.03	< 10	< 10	34	< 10	56
99D 142	216 202	575	< 1 < 0.01		27	480	12	< 0.01	< 2	2	28	0.02	< 10	< 10	20	< 10	64
99D 143	216 202	545	< 1 < 0.01		34	440	18	< 0.01	< 2	2	24	0.02	< 10	< 10	20	< 10	76
99D 145	216 202	570	< 1 < 0.01		27	440	14	< 0.01	< 2	1	9	0.03	< 10	< 10	18	< 10	56
99D 146	216 202	275	< 1 < 0.01		22	390	12	< 0.01	< 2	3	20	0.05	< 10	< 10	35	< 10	64
99D 147	216 202	325	< 1 < 0.01		24	450	8	< 0.01	< 2	3	22	0.04	< 10	< 10	34	< 10	68
99D 148	216 202	225	< 1 < 0.01		21	470	10	< 0.01	< 2	1	22	0.03	< 10	< 10	22	< 10	56
99D 149	216 202	200	< 1 < 0.01		18	360	8	< 0.01	< 2	2	16	0.03	< 10	< 10	25	< 10	50
99E 1	216 202	195	< 1 < 0.01		16	350	24	0.01	< 2	1	10	0.01	< 10	< 10	19	< 10	64
99E 3	216 202	715	< 1 < 0.01		15	420	24	0.03	< 2	1	15	0.02	< 10	< 10	29	< 10	58
99E 4	216 202	530	< 1 < 0.01		28	340	22	0.01	< 2	1	18	0.01	< 10	< 10	23	< 10	82
99E 6	216 202	430	< 1 < 0.01		25	470	20	< 0.01	< 2	2	20	0.02	< 10	< 10	24	< 10	64
99E 7	216 202	675	< 1 < 0.01		27	380	18	0.01	< 2	3	26	0.03	< 10	< 10	36	< 10	68
99L 1	216 202	325	< 1 < 0.01		30	350	16	< 0.01	< 2	3	23	0.03	< 10	< 10	34	< 10	76
99L 2	216 202	240	< 1 < 0.01		20	320	8	< 0.01	< 2	2	14	0.03	< 10	< 10	18	< 10	46
99L 3	216 202	220	< 1 0.01		23	100	24	< 0.01	< 2	4	24	0.05	< 10	< 10	49	< 10	68
99L 4	216 202	380	< 1 < 0.01		22	150	14	< 0.01	< 2	3	8	0.03	< 10	< 10	19	< 10	46
99L 5	216 202	210	< 1 < 0.01		20	270	10	< 0.01	< 2	3	20	0.05	< 10	< 10	37	< 10	58

CERTIFICATION:

[Signature]

TILLS



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to. RICHARDS, GORDON

6170 TISDALL ST.,
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V5Z 3N4

Project: TIN
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Total Pages : 4
Certificate Date: 23-AUG-1999
Invoice No. : 19925637
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Account : NDJ

CERTIFICATE OF ANALYSIS

A9925637

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
99L 6	216 202	< 5	< 0.2	1.12	28	< 10	250	< 0.5	< 2	0.16	< 0.5	8	19	35	2.54	< 10	< 1	0.07	30	0.31
99L 7	216 202	10	< 0.2	1.08	14	< 10	180	< 0.5	< 2	0.20	< 0.5	6	17	16	1.95	< 10	< 1	0.03	20	0.35
99L 8	216 202	10	< 0.2	1.04	18	< 10	110	< 0.5	< 2	0.02	< 0.5	9	14	23	2.30	< 10	< 1	0.03	30	0.32
99L 9	216 202	< 5	< 0.2	1.29	16	< 10	130	< 0.5	< 2	0.06	< 0.5	14	18	24	2.74	< 10	< 1	0.05	20	0.35
99L 10	216 202	< 5	< 0.2	1.35	12	< 10	100	< 0.5	< 2	0.15	< 0.5	9	21	23	2.14	< 10	< 1	0.04	10	0.38
99L 11	216 202	< 5	< 0.2	1.54	10	< 10	100	< 0.5	< 2	0.13	< 0.5	5	23	13	2.16	< 10	< 1	0.05	20	0.38
99L 12	216 202	< 5	< 0.2	2.44	32	< 10	450	< 0.5	< 2	0.29	< 0.5	15	39	48	3.77	< 10	< 1	0.20	30	0.63
99L 13	216 202	< 5	< 0.2	1.34	18	< 10	260	< 0.5	< 2	0.15	< 0.5	7	19	29	2.17	< 10	< 1	0.05	30	0.35
99N 1	216 202	10	< 0.2	1.29	46	< 10	180	< 0.5	< 2	0.10	< 0.5	8	23	31	2.36	< 10	< 1	0.08	30	0.32
99N 3	216 202	10	< 0.2	0.83	72	< 10	170	< 0.5	< 2	0.10	< 0.5	8	14	32	2.10	< 10	< 1	0.08	30	0.18
99N 5	216 202	10	< 0.2	1.40	34	< 10	320	< 0.5	< 2	0.20	< 0.5	6	23	29	2.16	< 10	< 1	0.10	20	0.38
99N 6	216 202	< 5	< 0.2	1.39	32	< 10	290	< 0.5	< 2	0.28	< 0.5	5	24	20	1.93	< 10	< 1	0.05	10	0.40
99N 7	216 202	10	< 0.2	1.52	22	< 10	280	< 0.5	< 2	0.25	< 0.5	6	26	23	1.88	< 10	< 1	0.04	10	0.43
99N 8	216 202	< 5	< 0.2	1.85	26	< 10	240	< 0.5	< 2	0.18	< 0.5	12	48	32	2.95	< 10	< 1	0.06	10	0.66
99N 9	216 202	10	< 0.2	1.70	52	< 10	580	< 0.5	< 2	0.33	< 0.5	7	32	30	2.55	< 10	< 1	0.07	10	0.36
99N 10	216 202	15	< 0.2	1.35	98	< 10	200	< 0.5	< 2	0.09	< 0.5	8	22	37	2.92	< 10	< 1	0.09	30	0.34
99N 11	216 202	10	0.4	1.25	110	< 10	130	< 0.5	< 2	0.10	< 0.5	8	26	34	2.75	< 10	< 1	0.09	20	0.39
99N 12	216 202	10	< 0.2	1.36	86	< 10	190	< 0.5	< 2	0.08	< 0.5	9	29	35	2.49	< 10	< 1	0.07	20	0.41
99N 13	216 202	< 5	< 0.2	1.21	30	< 10	130	< 0.5	< 2	0.15	< 0.5	5	21	14	1.96	< 10	< 1	0.06	20	0.32
99N 14	216 202	< 5	< 0.2	1.53	16	< 10	140	< 0.5	< 2	0.17	< 0.5	6	26	16	2.20	< 10	< 1	0.06	30	0.39
99N 18	216 202	< 5	< 0.2	1.49	42	< 10	210	< 0.5	< 2	0.09	< 0.5	10	18	24	3.04	< 10	< 1	0.10	40	0.23
99N 19	216 202	20	< 0.2	1.42	12	< 10	260	< 0.5	< 2	0.27	< 0.5	6	26	17	2.08	< 10	< 1	0.06	30	0.41
99N 20	216 202	10	< 0.2	1.68	22	< 10	180	< 0.5	< 2	0.19	< 0.5	7	25	17	2.01	< 10	< 1	0.06	10	0.34
99N 22	216 202	5	< 0.2	1.29	8	< 10	390	< 0.5	< 2	0.38	< 0.5	11	21	27	2.64	< 10	< 1	0.09	40	0.37
99N 23	216 202	< 5	< 0.2	1.55	14	< 10	240	< 0.5	< 2	0.22	< 0.5	7	19	18	2.40	< 10	< 1	0.08	40	0.36
99N 26	216 202	< 5	< 0.2	1.87	16	< 10	360	< 0.5	< 2	0.19	< 0.5	8	33	21	2.48	< 10	< 1	0.05	20	0.48
99N 27	216 202	25	< 0.2	1.48	60	< 10	300	< 0.5	< 2	0.21	< 0.5	8	26	31	2.63	< 10	< 1	0.07	20	0.38
99N 28	216 202	< 5	< 0.2	1.39	28	< 10	200	< 0.5	< 2	0.09	< 0.5	10	20	33	2.40	< 10	< 1	0.06	30	0.36
99N 29	216 202	< 5	< 0.2	2.86	20	< 10	310	< 0.5	< 2	0.15	< 0.5	17	35	42	4.45	< 10	< 1	0.07	30	0.93
99N 31	216 202	< 5	< 0.2	1.36	10	< 10	210	< 0.5	< 2	0.17	< 0.5	6	19	13	1.89	< 10	< 1	0.09	30	0.29
99N 32	216 202	< 5	< 0.2	1.58	14	< 10	290	< 0.5	< 2	0.22	< 0.5	9	29	20	2.37	< 10	< 1	0.04	10	0.47
99R 145	216 202	< 5	< 0.2	2.34	14	< 10	220	< 0.5	< 2	0.07	< 0.5	11	30	31	3.23	< 10	< 1	0.04	30	0.54
99R 146	216 202	< 5	< 0.2	1.69	30	< 10	130	< 0.5	< 2	0.12	< 0.5	10	21	24	2.71	< 10	< 1	0.04	20	0.42
99R 147	216 202	< 5	< 0.2	1.83	18	< 10	130	< 0.5	< 2	0.04	< 0.5	8	23	25	2.81	< 10	< 1	0.05	30	0.46
99R 148	216 202	10	< 0.2	2.17	48	< 10	220	< 0.5	< 2	0.06	< 0.5	12	29	37	2.99	< 10	< 1	0.05	30	0.47
99R 149	216 202	< 5	< 0.2	2.03	68	< 10	130	< 0.5	< 2	0.05	< 0.5	11	24	43	3.40	< 10	< 1	0.10	30	0.53
99R 180	216 202	< 5	< 0.2	1.21	130	< 10	100	< 0.5	< 2	0.15	< 0.5	11	15	38	3.30	< 10	< 1	0.06	20	0.30
99T 1	216 202	< 5	< 0.2	1.00	24	< 10	150	< 0.5	< 2	0.19	< 0.5	7	16	20	2.04	< 10	< 1	0.06	20	0.27
99T 2	216 202	< 5	< 0.2	1.67	10	< 10	150	< 0.5	< 2	0.12	< 0.5	10	23	31	3.04	< 10	< 1	0.05	40	0.53
99T 3	216 202	< 5	< 0.2	1.44	22	< 10	390	< 0.5	< 2	0.25	< 0.5	8	24	28	2.51	< 10	< 1	0.04	30	0.46

TILLS

CERTIFICATION:

[Signature]



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Project: TIN
Comments: ATTN: GORDON RICHARDS

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Total Pages 4
Certificate Date: 23-AUG-1999
Invoice No. 19925637
P.O. Number
Account :NDJ

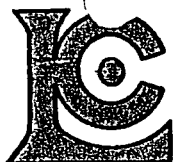
CERTIFICATE OF ANALYSIS

A9925637

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
99L 6	216 202	285	< 1	< 0.01	23	130	16 < 0.01	< 2	3	18	0.03	< 10	< 10	26	< 10	54	
99L 7	216 202	215	< 1	< 0.01	15	490	10 < 0.01	< 2	2	17	0.01	< 10	< 10	21	< 10	52	
99L 8	216 202	290	< 1	< 0.01	17	140	12 < 0.01	< 2	1	4	0.01	< 10	< 10	16	< 10	46	
99L 9	216 202	415	< 1	< 0.01	22	240	16 < 0.01	< 2	1	7	0.01	< 10	< 10	19	< 10	56	
99L 10	216 202	315	< 1	< 0.01	20	540	10 < 0.01	< 2	2	12	0.04	< 10	< 10	30	< 10	50	
99L 11	216 202	155	< 1	< 0.01	13	430	12 < 0.01	< 2	1	12	0.03	< 10	< 10	33	< 10	44	
99L 12	216 202	575	< 1	0.01	43	370	20 < 0.01	< 2	5	25	0.03	< 10	< 10	52	< 10	102	
99L 13	216 202	280	< 1	< 0.01	24	350	10 < 0.01	< 2	2	15	0.04	< 10	< 10	29	< 10	54	
99N 1	216 202	180	< 1	< 0.01	22	230	10 < 0.01	2	3	15	0.04	< 10	< 10	30	< 10	52	
99N 3	216 202	360	< 1	< 0.01	19	470	10 < 0.01	6	3	12	0.03	< 10	< 10	20	< 10	52	
99N 5	216 202	260	< 1	< 0.01	15	280	12 < 0.01	< 2	3	16	0.04	< 10	< 10	32	< 10	44	
99N 6	216 202	190	< 1	< 0.01	15	480	6 < 0.01	< 2	3	20	0.04	< 10	< 10	29	< 10	46	
99N 7	216 202	200	< 1	< 0.01	16	380	10 < 0.01	2	4	19	0.05	< 10	< 10	36	< 10	38	
99N 8	216 202	635	< 1	0.01	35	230	10 < 0.01	6	7	20	0.05	< 10	< 10	47	< 10	60	
99N 9	216 202	470	1	< 0.01	27	210	12 < 0.01	8	5	19	0.02	< 10	< 10	39	< 10	52	
99N 10	216 202	280	< 1	< 0.01	29	530	10 0.01	18	3	14	0.01	< 10	< 10	30	< 10	72	
99N 11	216 202	290	< 1	< 0.01	26	490	12 0.01	16	2	14	0.03	< 10	< 10	34	< 10	56	
99N 12	216 202	235	< 1	< 0.01	29	170	12 < 0.01	14	2	12	0.02	< 10	< 10	27	< 10	58	
99N 13	216 202	170	< 1	< 0.01	14	380	6 < 0.01	10	2	15	0.03	< 10	< 10	29	< 10	38	
99N 14	216 202	160	< 1	< 0.01	15	250	10 < 0.01	< 2	3	17	0.05	< 10	< 10	36	< 10	40	
99N 18	216 202	345	< 1	< 0.01	21	160	10 < 0.01	6	4	15	0.01	< 10	< 10	22	< 10	62	
99N 19	216 202	170	< 1	< 0.01	15	520	10 < 0.01	< 2	3	24	0.05	< 10	< 10	35	< 10	48	
99N 20	216 202	185	1	0.01	16	380	8 < 0.01	< 2	2	19	0.05	< 10	< 10	40	< 10	46	
99N 22	216 202	410	< 1	< 0.01	24	330	8 < 0.01	< 2	3	23	0.02	< 10	< 10	27	< 10	46	
99N 23	216 202	150	< 1	< 0.01	19	200	14 < 0.01	< 2	2	16	0.01	< 10	< 10	25	< 10	48	
99N 26	216 202	245	< 1	< 0.01	19	180	10 < 0.01	< 2	4	20	0.06	< 10	< 10	49	< 10	50	
99N 27	216 202	240	< 1	< 0.01	21	350	12 < 0.01	4	5	28	0.05	< 10	< 10	41	< 10	50	
99N 28	216 202	260	< 1	< 0.01	23	180	10 < 0.01	< 2	2	14	0.04	< 10	< 10	30	< 10	52	
99N 29	216 202	355	< 1	< 0.01	32	170	16 < 0.01	< 2	4	18	0.04	< 10	< 10	48	< 10	80	
99N 31	216 202	235	< 1	< 0.01	10	230	12 < 0.01	< 2	2	17	0.03	< 10	< 10	26	< 10	32	
99N 32	216 202	250	< 1	0.01	20	380	8 < 0.01	< 2	4	18	0.05	< 10	< 10	42	< 10	44	
99R 145	216 202	270	< 1	< 0.01	30	130	14 < 0.01	< 2	3	11	0.02	< 10	< 10	34	< 10	64	
99R 146	216 202	230	< 1	< 0.01	27	260	16 < 0.01	< 2	1	11	0.02	< 10	< 10	20	< 10	58	
99R 147	216 202	225	< 1	< 0.01	23	140	12 < 0.01	< 2	2	7	0.03	< 10	< 10	26	< 10	58	
99R 148	216 202	240	< 1	< 0.01	34	150	16 < 0.01	< 2	3	9	0.04	< 10	< 10	35	< 10	62	
99R 149	216 202	260	< 1	< 0.01	32	170	16 < 0.01	< 2	1	9	0.02	< 10	< 10	22	< 10	68	
99R 180	216 202	330	< 1	< 0.01	24	300	22 < 0.01	< 2	1	12	0.02	< 10	< 10	21	< 10	58	
99T 1	216 202	240	< 1	< 0.01	18	280	10 < 0.01	< 2	1	17	0.03	< 10	< 10	20	< 10	48	
99T 2	216 202	325	< 1	< 0.01	26	450	14 < 0.01	< 2	3	14	0.02	< 10	< 10	25	< 10	72	
99T 3	216 202	250	< 1	< 0.01	25	450	10 < 0.01	< 2	3	22	0.03	< 10	< 10	32	< 10	64	

TILLS

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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o RICHARDS, GORDON

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Project: TIN
Comments: ATTN: GORDON RICHARDS

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Total Pages 4
Certificate Date: 23-AUG-1999
Invoice No.: 19925637
P.O. Number
Account: NDJ

CERTIFICATE OF ANALYSIS

A9925637

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
99T 4	216 202	< 5	< 0.2	1.41	12	< 10	180	< 0.5	< 2	0.10	< 0.5	6	21	16	2.29	< 10	< 1	0.04	30	0.41
99T 5	216 202	< 5	< 0.2	1.30	22	< 10	160	< 0.5	< 2	0.76	< 0.5	9	16	24	2.36	< 10	< 1	0.14	30	0.41
99T 6	216 202	< 5	< 0.2	0.91	12	< 10	210	< 0.5	< 2	0.15	< 0.5	5	15	18	1.58	< 10	< 1	0.05	10	0.28
99T 7	216 202	10	< 0.2	0.78	14	< 10	120	< 0.5	< 2	0.13	< 0.5	8	11	19	2.54	< 10	< 1	0.05	40	0.24
99T 8	216 202	< 5	< 0.2	0.65	16	< 10	110	< 0.5	< 2	0.15	< 0.5	8	9	20	2.46	< 10	< 1	0.05	40	0.18
99T 9	216 202	< 5	< 0.2	1.09	26	< 10	130	< 0.5	< 2	0.04	< 0.5	8	16	24	2.46	< 10	< 1	0.07	40	0.25
99T 10	216 202	< 5	< 0.2	1.27	20	< 10	150	< 0.5	< 2	0.05	< 0.5	8	16	30	2.68	< 10	< 1	0.10	40	0.26
99T 11	216 202	< 5	< 0.2	1.50	24	< 10	370	< 0.5	< 2	0.14	< 0.5	10	22	32	2.89	< 10	< 1	0.10	30	0.36
99T 12	216 202	< 5	< 0.2	1.34	22	< 10	280	< 0.5	< 2	0.12	< 0.5	10	21	32	2.55	< 10	< 1	0.06	30	0.36
99T 13	216 202	< 5	< 0.2	1.34	20	< 10	240	< 0.5	< 2	0.10	< 0.5	10	20	25	2.63	< 10	< 1	0.05	30	0.33
99T 14	216 202	< 5	< 0.2	1.24	22	< 10	390	< 0.5	< 2	0.16	< 0.5	9	19	30	2.53	< 10	< 1	0.06	30	0.37
99T 15	216 202	< 5	< 0.2	1.06	14	< 10	280	< 0.5	< 2	0.06	< 0.5	14	14	31	3.14	< 10	< 1	0.09	50	0.20
99T 16	216 202	< 5	< 0.2	1.30	10	< 10	190	< 0.5	< 2	0.20	< 0.5	5	20	13	1.90	< 10	< 1	0.04	10	0.31
99T 17	216 202	< 5	< 0.2	1.38	16	< 10	350	< 0.5	< 2	0.34	< 0.5	8	28	31	2.58	< 10	< 1	0.07	10	0.41
99T 18	216 202	< 5	< 0.2	1.00	2	< 10	360	1.5	< 2	0.22	< 0.5	1	3	8	1.14	< 10	< 1	0.17	60	0.07
99T 19	216 202	< 5	< 0.2	0.90	26	< 10	70	< 0.5	< 2	0.05	< 0.5	9	12	26	1.76	< 10	< 1	0.05	10	0.21
99T 20	216 202	< 5	< 0.2	0.89	18	< 10	180	< 0.5	< 2	0.13	< 0.5	21	17	37	3.77	< 10	< 1	0.06	40	0.23
99T 21	216 202	< 5	< 0.2	1.35	20	< 10	200	< 0.5	< 2	0.07	< 0.5	8	24	35	2.55	< 10	< 1	0.05	30	0.35
99T 22	216 202	10	< 0.2	0.83	16	< 10	180	< 0.5	< 2	0.20	< 0.5	9	17	14	2.55	< 10	< 1	0.06	30	0.25
99T 23	216 202	< 5	< 0.2	0.61	22	< 10	80	< 0.5	< 2	0.13	< 0.5	8	10	24	1.60	< 10	< 1	0.04	10	0.20
99T 24	216 202	< 5	< 0.2	1.55	22	< 10	430	< 0.5	< 2	0.20	< 0.5	7	25	23	2.50	< 10	< 1	0.04	30	0.43
99T 25	216 202	< 5	< 0.2	1.23	20	< 10	230	< 0.5	< 2	0.26	< 0.5	8	19	36	2.58	< 10	< 1	0.08	30	0.35
99T 26	216 202	10	< 0.2	1.12	20	< 10	180	< 0.5	< 2	0.17	< 0.5	10	18	26	2.74	< 10	< 1	0.06	20	0.34
99T 27	216 202	< 5	< 0.2	1.36	20	< 10	210	< 0.5	< 2	0.11	< 0.5	10	22	43	2.90	< 10	< 1	0.07	40	0.44
99T 28	216 202	10	< 0.2	1.55	24	< 10	380	< 0.5	< 2	0.25	< 0.5	9	26	52	3.39	< 10	< 1	0.10	30	0.46
99U 6	216 202	< 5	< 0.2	1.45	6	10	170	< 0.5	< 2	0.29	< 0.5	10	23	20	2.54	< 10	< 1	0.09	30	0.53
99U 11	216 202	10	< 0.2	1.35	8	< 10	370	< 0.5	< 2	0.37	< 0.5	6	27	21	2.17	< 10	< 1	0.05	20	0.36
99U 12	216 202	10	< 0.2	1.67	8	< 10	330	< 0.5	< 2	0.30	< 0.5	8	28	17	2.49	< 10	< 1	0.04	20	0.42
99U 13	216 202	< 5	< 0.2	2.06	20	< 10	120	< 0.5	< 2	0.16	< 0.5	17	29	18	3.43	< 10	< 1	0.09	10	0.52
99U 14	216 202	< 5	< 0.2	1.82	10	< 10	150	< 0.5	< 2	0.24	< 0.5	11	30	21	2.74	< 10	< 1	0.09	30	0.58
99U 16	216 202	< 5	< 0.2	1.45	12	< 10	270	< 0.5	< 2	0.29	< 0.5	7	26	17	1.99	< 10	< 1	0.04	20	0.40
99U 17	216 202	< 5	< 0.2	1.51	10	< 10	300	< 0.5	< 2	0.49	< 0.5	8	27	24	2.48	< 10	< 1	0.06	30	0.51
99U 18	216 202	< 5	< 0.2	1.97	12	< 10	310	< 0.5	< 2	0.19	< 0.5	9	29	26	2.66	< 10	< 1	0.05	20	0.41
99W 27	216 202	15	< 0.2	1.53	38	< 10	300	< 0.5	< 2	0.26	< 0.5	9	25	18	2.36	< 10	< 1	0.06	20	0.37
99W 37	216 202	< 5	< 0.2	1.34	18	< 10	300	< 0.5	< 2	0.40	< 0.5	7	28	18	2.13	< 10	< 1	0.06	10	0.43
99W 38	216 202	15	< 0.2	1.59	22	< 10	310	< 0.5	< 2	0.39	< 0.5	7	30	16	2.32	< 10	< 1	0.06	20	0.46
99W 40	216 202	< 5	< 0.2	1.56	18	< 10	400	< 0.5	< 2	0.36	< 0.5	8	29	23	2.45	< 10	< 1	0.07	20	0.50
99W 41	216 202	10	< 0.2	0.96	44	< 10	180	< 0.5	< 2	0.06	< 0.5	7	13	25	2.18	< 10	< 1	0.07	30	0.25
99W 42	216 202	25	< 0.2	1.49	28	< 10	240	< 0.5	< 2	0.20	< 0.5	7	26	20	2.34	< 10	< 1	0.06	20	0.40
99W 43	216 202	5	< 0.2	1.59	30	< 10	330	< 0.5	< 2	0.19	< 0.5	9	26	26	2.37	< 10	< 1	0.06	20	0.42

CERTIFICATION:

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to: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

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Certificate Date: 23-AUG-1999
Invoice No. : 19925637
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Account .NDJ

CERTIFICATE OF ANALYSIS

A9925637

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
99T 4	216 202	180	< 1	< 0.01	17	210	8	< 0.01	< 2	1	10	0.03	< 10	< 10	27	< 10	48
99T 5	216 202	375	1	< 0.01	22	520	10	< 0.01	< 2	2	34	0.02	< 10	< 10	18	< 10	60
99T 6	216 202	160	< 1	< 0.01	16	350	6	< 0.01	< 2	2	12	0.03	< 10	< 10	19	< 10	34
99T 7	216 202	210	< 1	< 0.01	21	380	10	< 0.01	< 2	1	18	< 0.01	< 10	< 10	13	< 10	56
99T 8	216 202	180	< 1	< 0.01	22	530	10	< 0.01	< 2	1	22	< 0.01	< 10	< 10	10	< 10	46
99T 9	216 202	265	< 1	< 0.01	22	220	12	< 0.01	< 2	1	10	0.02	< 10	< 10	16	< 10	54
99T 10	216 202	285	< 1	< 0.01	24	300	10	< 0.01	< 2	2	13	0.02	< 10	< 10	17	< 10	58
99T 11	216 202	665	< 1	< 0.01	30	290	12	< 0.01	< 2	3	20	0.03	< 10	< 10	31	< 10	70
99T 12	216 202	390	< 1	< 0.01	26	290	18	< 0.01	< 2	3	16	0.04	< 10	< 10	30	< 10	64
99T 13	216 202	340	< 1	< 0.01	24	250	12	< 0.01	< 2	3	15	0.03	< 10	< 10	30	< 10	62
99T 14	216 202	415	< 1	< 0.01	27	310	10	< 0.01	< 2	3	20	0.04	< 10	< 10	30	< 10	62
99T 15	216 202	440	< 1	< 0.01	33	320	16	< 0.01	< 2	2	13	< 0.01	< 10	< 10	16	< 10	72
99T 16	216 202	100	< 1	< 0.01	14	420	10	< 0.01	< 2	1	18	0.02	< 10	< 10	33	< 10	36
99T 17	216 202	345	1	< 0.01	29	730	12	< 0.01	< 2	4	35	0.04	< 10	< 10	49	< 10	94
99T 18	216 202	105	< 1	< 0.01	6	90	36	< 0.01	< 2	1	48	< 0.01	< 10	< 10	3	< 10	38
99T 19	216 202	275	< 1	< 0.01	18	160	12	< 0.01	< 2	1	5	0.03	< 10	< 10	14	< 10	38
99T 20	216 202	1285	< 1	< 0.01	33	1050	22	< 0.01	< 2	1	16	0.01	< 10	< 10	19	< 10	86
99T 21	216 202	290	1	< 0.01	26	110	10	< 0.01	< 2	4	13	0.03	< 10	< 10	36	< 10	66
99T 22	216 202	275	< 1	< 0.01	21	370	2	< 0.01	< 2	2	26	0.01	< 10	< 10	21	< 10	70
99T 23	216 202	320	< 1	< 0.01	18	410	12	< 0.01	< 2	1	10	0.01	< 10	< 10	10	< 10	34
99T 24	216 202	240	< 1	< 0.01	21	260	10	< 0.01	< 2	3	18	0.04	< 10	< 10	36	< 10	52
99T 25	216 202	240	1	< 0.01	28	530	10	< 0.01	< 2	4	23	0.03	< 10	< 10	27	< 10	68
99T 26	216 202	210	< 1	< 0.01	25	390	14	< 0.01	< 2	1	19	0.02	< 10	< 10	22	< 10	62
99T 27	216 202	370	< 1	< 0.01	32	260	18	< 0.01	< 2	4	14	0.03	< 10	< 10	29	< 10	70
99T 28	216 202	375	< 1	< 0.01	36	450	14	< 0.01	< 2	4	19	0.03	< 10	< 10	32	< 10	82
99U 6	216 202	415	< 1	< 0.01	21	720	10	< 0.01	< 2	3	24	0.05	< 10	< 10	24	< 10	72
99U 11	216 202	210	1	0.01	19	690	6	< 0.01	< 2	4	29	0.06	< 10	< 10	42	< 10	56
99U 12	216 202	220	1	< 0.01	18	550	6	< 0.01	< 2	4	25	0.06	< 10	< 10	43	< 10	52
99U 13	216 202	690	< 1	< 0.01	22	450	10	< 0.01	< 2	3	15	0.06	< 10	< 10	42	< 10	70
99U 14	216 202	365	< 1	< 0.01	22	640	14	< 0.01	< 2	3	19	0.06	< 10	< 10	35	< 10	62
99U 16	216 202	180	< 1	< 0.01	16	620	8	< 0.01	< 2	3	24	0.05	< 10	< 10	35	< 10	52
99U 17	216 202	330	< 1	< 0.01	18	770	12	< 0.01	< 2	4	28	0.03	< 10	< 10	31	< 10	74
99U 18	216 202	385	1	< 0.01	20	390	10	< 0.01	< 2	5	21	0.06	< 10	< 10	56	< 10	60
99W 27	216 202	300	< 1	< 0.01	15	570	10	< 0.01	< 2	3	24	0.04	< 10	< 10	32	< 10	56
99W 37	216 202	195	< 1	0.01	18	650	6	< 0.01	< 2	3	33	0.07	< 10	< 10	42	< 10	52
99W 38	216 202	290	< 1	0.01	16	540	8	< 0.01	< 2	3	35	0.07	< 10	< 10	47	< 10	56
99W 40	216 202	275	< 1	0.01	20	720	10	< 0.01	< 2	3	31	0.06	< 10	< 10	46	< 10	78
99W 41	216 202	295	< 1	< 0.01	21	190	12	< 0.01	< 2	3	11	0.03	< 10	< 10	18	< 10	60
99W 42	216 202	260	< 1	< 0.01	17	490	10	< 0.01	< 2	3	21	0.06	< 10	< 10	43	< 10	50
99W 43	216 202	300	< 1	< 0.01	18	310	10	< 0.01	< 2	4	21	0.06	< 10	< 10	40	< 10	54

TILLIS

CERTIFICATION:

[Signature]



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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave, North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

to. RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project : TIN
Comments: ATTN: GORDON RICHARDS

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P.O. Number :
Account : NDJ

CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
99W 44	216 202	20	< 0.2	1.21	24	< 10	320	< 0.5	< 2	0.49	< 0.5	8	29	26	2.43	< 10	< 1	0.07	10	0.42
99W 45	216 202	10	< 0.2	1.64	18	< 10	280	< 0.5	< 2	0.34	< 0.5	6	29	17	2.12	< 10	< 1	0.06	10	0.41
99W 46	216 202	10	< 0.2	1.75	20	< 10	280	< 0.5	< 2	0.24	< 0.5	6	26	17	2.21	< 10	1	0.06	20	0.41
99W 47	216 202	10	< 0.2	1.66	26	< 10	270	< 0.5	< 2	0.10	< 0.5	8	31	24	2.56	< 10	< 1	0.04	10	0.42
99W 48	216 202	< 5	< 0.2	0.97	42	< 10	240	< 0.5	< 2	0.21	< 0.5	6	18	24	2.18	< 10	< 1	0.06	20	0.32
99W 51	216 202	10	< 0.2	1.20	24	< 10	270	< 0.5	< 2	0.23	< 0.5	5	21	19	1.93	< 10	< 1	0.05	10	0.39
99W 52	216 202	90	0.6	1.56	92	< 10	450	< 0.5	< 2	0.24	< 0.5	8	26	44	2.71	< 10	< 1	0.06	10	0.39

CERTIFICATION.

David L. [Signature]



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To RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

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CERTIFICATE OF ANALYSIS

A9925637

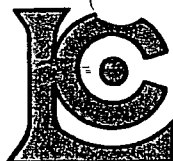
SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
99W 44	216 202	310	1	0.01	22	880	8 < 0.01	< 2	4	41	0.06	< 10	< 10	48	< 10	56	
99W 45	216 202	165	< 1	0.01	14	570	8 < 0.01	< 2	3	32	0.06	< 10	< 10	42	< 10	46	
99W 46	216 202	150	< 1	< 0.01	15	510	10 < 0.01	< 2	3	23	0.04	< 10	< 10	36	< 10	58	
99W 47	216 202	250	< 1	< 0.01	19	140	12 < 0.01	< 2	4	14	0.05	< 10	< 10	41	< 10	56	
99W 48	216 202	195	< 1	< 0.01	19	560	10 < 0.01	2	2	19	0.03	< 10	< 10	22	< 10	62	
99W 51	216 202	170	< 1	< 0.01	15	480	8 < 0.01	< 2	3	18	0.03	< 10	< 10	28	< 10	46	
99W 52	216 202	245	< 1	< 0.01	24	620	14 < 0.01	10	4	28	0.02	< 10	< 10	31	< 10	70	

PACK

TILLS

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o RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

0029

A9925635

Comments: ATTN: GORDON RICHARDS

CERTIFICATE

A9925635

(NDJ) - RICHARDS, GORDON

Project: TIN

P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-AUG-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	90	Geochem ring to approx 150 mesh
226	90	0-3 Kg crush and split
3202	90	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	90	Au ppb: Fuse 30 g sample	FA-AAS	5	10000



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To: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN. GORDON RICHARDS

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SAMPLE	PREP CODE	Au ppb FA+AA										
99B 7	205	226	< 5									
99B 26	205	226	< 5									
99B 27	205	226	< 5									
99B 32	205	226	< 5									
99B 37	205	226	< 5									
99B 39	205	226	< 5									
99B 45	205	226	< 5									
99B 48	205	226	< 5									
99B 49	205	226	< 5									
99C 4	205	226	< 5									
99C 5	205	226	< 5									
99C 6	205	226	< 5									
99C 7	205	226	< 5									
99C 9	205	226	< 5									
99C 11	205	226	< 5									
99D 124	205	226	< 5									
99D 125	205	226	< 5									
99D 126	205	226	< 5									
99D 128	205	226	< 5									
99D 133	205	226	< 5									
99D 136	205	226	< 5									
99F 1	205	226	< 5									
99F 3	205	226	< 5									
99F 6	205	226	< 5									
99F 7	205	226	< 5									
99G 10	205	226	< 5									
99G 7	205	226	< 5									
99G 8	205	226	< 5									
99G 9	205	226	< 5									
99G 10	205	226	< 5									
99G 11	205	226	< 5									
99G 12	205	226	< 5									
99G 13	205	226	< 5									
99G 14	205	226	< 5									
99G 15	205	226	< 5									
99G 16	205	226	< 5									
99G 17	205	226	< 5									
99G 19	205	226	< 5									
99G 20	205	226	< 5									
99G 21	205	226	< 5									

CERTIFICATION:

Theresa Venter



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10 RICHARDS, GORDON

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SAMPLE	PREP		Au ppb FA+AA									
	CODE											
MINTO PACK	99G 23	205	226	< 5								
	99N 2	205	226	< 5								
	99N 4	205	226	20								
	99N 15	205	226	< 5								
	99R 119	205	226	< 5								
FIELDS	99R 128	205	226	< 5								
	99R 129	205	226	< 5								
	99R 137	205	226	< 5								
	99R 141	205	226	< 5								
	99R 144	205	226	< 5								
	99R 150	205	226	< 5								
	99R 151	205	226	< 5								
	99R 152	205	226	< 5								
	99R 153	205	226	< 5								
	99R 155	205	226	< 5								
	99R 158	205	226	< 5								
	99R 160	205	226	< 5								
	99R 182	205	226	< 5								
	99R 184	205	226	< 5								
	99R 186	205	226	< 5								
	99R 187	205	226	< 5								
	99R 194	205	226	< 5								
	99R 197	205	226	< 5								
	99R 200	205	226	< 5								
	99S 19	205	226	< 5								
SUMMIT L. SCROCKIE	99S 24	205	226	< 5								
	99U 9	205	226	< 5								
	99U 15	205	226	< 5								
	99Y 82	205	226	< 5								
	99Y 87	205	226	< 5								
PACK	99Y 95	205	226	< 5								
	99Y 96	205	226	425								
	99W 4	205	226	< 5								
	99W 5	205	226	< 5								
	99W 6	205	226	< 5								
	99W 7	205	226	< 5								
	99W 11	205	226	40								
	99W 19	205	226	< 5								
	99W 22	205	226	< 5								
	99W 24	205	226	10								

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To: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project : TIN
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G. RICHARDS, GORDON

6170 TISDALL ST.,
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V5Z 3N4

A9925647

Comments. ATTN: GORDON RICHARDS

CERTIFICATE

A9925647

(NDJ) - RICHARDS, GORDON

Project: TIN
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-AUG-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	105	Dry, sieve to -80 mesh save reject ICP - AQ Digestion charge
202	105	
229	105	

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	105	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	105	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	105	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	105	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	105	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	105	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	105	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	105	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	105	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	105	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	105	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	105	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	105	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	105	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	105	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	105	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	105	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	105	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	105	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	105	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	105	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	105	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	105	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	105	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	105	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	105	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	105	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	105	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	105	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	105	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	105	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	105	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	105	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	105	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	105	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
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P.O. Number
Account: NDJ

CERTIFICATE OF ANALYSIS

A9925647

MINTO

TALBOT

FIELDS

TALBOT

MINTO

PAKE

FIELDS

SUMMIT

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
99B 1	201	202	15	< 0.2	0.52	10	< 10	140	< 0.5	< 2	0.35	< 0.5	6	8	11	1.42	< 10	< 1	0.03	10	0.19
99B 24	201	202	20	< 0.2	0.63	6	< 10	280	< 0.5	< 2	0.23	< 0.5	4	8	4	1.11	< 10	< 1	0.03	10	0.14
99B 25	201	202	< 5	< 0.2	0.75	10	< 10	230	< 0.5	< 2	0.30	< 0.5	8	11	8	1.89	< 10	< 1	0.03	10	0.20
99B 30	201	202	< 5	< 0.2	0.51	12	< 10	90	< 0.5	< 2	0.36	< 0.5	7	10	15	1.63	< 10	< 1	0.03	20	0.20
99B 47	201	202	20	< 0.2	0.73	8	< 10	190	< 0.5	< 2	0.29	< 0.5	9	13	13	1.82	< 10	< 1	0.03	10	0.27
99B 50	201	202	< 5	< 0.2	0.66	4	< 10	230	< 0.5	< 2	0.38	< 0.5	3	6	5	1.29	< 10	< 1	0.07	30	0.13
99B 51	201	202	< 5	< 0.2	0.37	18	< 10	70	< 0.5	< 2	0.21	< 0.5	7	7	13	1.49	< 10	< 1	0.02	10	0.16
99C 1	201	202	< 5	< 0.2	0.83	12	< 10	90	< 0.5	< 2	0.18	< 0.5	20	12	22	2.26	< 10	< 1	0.02	10	0.38
99C 2	201	202	< 5	< 0.2	1.12	28	< 10	130	< 0.5	< 2	0.24	< 0.5	17	16	23	2.78	< 10	< 1	0.03	20	0.45
99C 3	201	202	30	< 0.2	1.15	14	< 10	100	< 0.5	< 2	0.26	< 0.5	20	17	21	2.40	< 10	< 1	0.03	30	0.42
99C 8	201	202	< 5	< 0.2	1.47	28	< 10	100	< 0.5	< 2	0.23	< 0.5	19	20	28	3.59	< 10	< 1	0.04	20	0.57
99C 10	201	202	< 5	< 0.2	1.48	28	< 10	100	< 0.5	< 2	0.22	< 0.5	23	19	27	3.77	< 10	< 1	0.04	30	0.58
99C 12	201	202	< 5	< 0.2	0.95	18	< 10	90	< 0.5	< 2	0.18	< 0.5	7	13	14	1.97	< 10	< 1	0.03	30	0.35
99C 13	201	202	< 5	< 0.2	1.29	26	< 10	180	< 0.5	< 2	0.28	< 0.5	32	20	30	3.10	< 10	< 1	0.05	10	0.51
99C 14	201	202	< 5	< 0.2	1.74	74	< 10	60	< 0.5	< 2	0.13	< 0.5	32	20	30	4.62	< 10	< 1	0.03	20	0.70
99C 15	201	202	< 5	< 0.2	1.39	50	< 10	110	< 0.5	< 2	0.23	< 0.5	34	19	29	3.63	< 10	< 1	0.04	10	0.56
99D 110	201	202	< 5	< 0.2	1.11	30	< 10	200	< 0.5	< 2	0.38	< 0.5	9	19	18	1.89	< 10	< 1	0.05	10	0.37
99D 111	201	202	< 5	< 0.2	1.18	20	< 10	240	< 0.5	< 2	0.54	< 0.5	11	18	21	2.68	< 10	< 1	0.06	30	0.40
99D 112	201	202	< 5	< 0.2	0.82	30	< 10	150	< 0.5	< 2	0.33	< 0.5	8	14	15	1.85	< 10	< 1	0.04	10	0.29
99D 115	201	202	75	< 0.2	0.91	18	< 10	210	< 0.5	< 2	0.38	< 0.5	7	13	9	1.91	< 10	< 1	0.04	10	0.27
99D 144	201	202	35	< 0.2	0.86	32	< 10	150	< 0.5	< 2	0.46	< 0.5	9	15	19	1.98	< 10	< 1	0.04	10	0.34
99F 2	201	202	< 5	< 0.2	0.96	10	< 10	70	< 0.5	< 2	0.09	< 0.5	11	13	28	2.37	< 10	< 1	0.02	20	0.43
99F 4	201	202	< 5	< 0.2	0.94	20	< 10	200	< 0.5	< 2	0.24	< 0.5	10	15	21	2.11	< 10	< 1	0.03	10	0.39
99F 5	201	202	< 5	< 0.2	1.13	20	< 10	120	< 0.5	< 2	0.27	< 0.5	18	16	23	2.56	< 10	< 1	0.04	30	0.43
99F 9	201	202	< 5	< 0.2	1.02	18	< 10	110	< 0.5	< 2	0.17	< 0.5	13	15	19	2.27	< 10	< 1	0.03	20	0.40
99G 1	201	202	< 5	< 0.2	0.92	8	< 10	300	< 0.5	< 2	0.56	< 0.5	8	12	11	1.92	< 10	< 1	0.06	20	0.25
99G 2	201	202	< 5	< 0.2	0.61	8	< 10	190	< 0.5	< 2	0.30	< 0.5	5	8	5	1.05	< 10	< 1	0.05	10	0.18
99G 3	201	202	< 5	< 0.2	0.64	< 2	< 10	220	< 0.5	< 2	0.25	< 0.5	5	9	5	1.05	< 10	< 1	0.03	10	0.19
99G 4	201	202	< 5	< 0.2	0.80	4	< 10	180	< 0.5	< 2	0.44	< 0.5	6	10	9	1.34	< 10	< 1	0.05	10	0.27
99G 5	201	202	< 5	< 0.2	1.53	8	< 10	220	< 0.5	< 2	0.57	< 0.5	14	20	33	2.69	< 10	< 1	0.09	30	0.53
99G 6	201	202	95	< 0.2	0.91	6	< 10	110	< 0.5	< 2	0.27	< 0.5	9	12	14	1.93	< 10	< 1	0.04	30	0.31
99G 18	201	202	< 5	< 0.2	0.48	10	< 10	80	< 0.5	< 2	0.20	< 0.5	6	8	14	1.29	< 10	< 1	0.02	10	0.19
99G 22	201	202	< 5	< 0.2	0.98	20	< 10	110	< 0.5	< 2	0.31	< 0.5	14	14	24	2.78	< 10	< 1	0.04	20	0.38
99N 21	201	202	< 5	< 0.2	0.71	4	< 10	180	< 0.5	< 2	0.54	< 0.5	7	15	13	1.71	< 10	< 1	0.04	10	0.33
99R 127	201	202	< 5	< 0.2	0.67	72	< 10	110	< 0.5	< 2	0.31	< 0.5	10	11	18	1.68	< 10	< 1	0.03	10	0.26
99R 142	201	202	< 5	< 0.2	0.77	22	< 10	120	< 0.5	< 2	0.29	< 0.5	7	11	12	1.65	< 10	< 1	0.03	10	0.28
99R 143	201	202	10	< 0.2	0.61	136	< 10	100	< 0.5	< 2	0.31	< 0.5	13	10	24	1.90	< 10	< 1	0.03	10	0.24
99R 174	201	202	< 5	< 0.2	1.01	32	< 10	180	< 0.5	< 2	0.46	< 0.5	10	15	20	2.24	< 10	< 1	0.04	30	0.34
99R 181	201	202	< 5	< 0.2	1.20	36	< 10	160	< 0.5	< 2	0.34	< 0.5	13	15	19	2.89	< 10	< 1	0.04	30	0.45
99S 10	201	202	40	< 0.2	0.66	2	< 10	130	< 0.5	< 2	0.44	< 0.5	4	13	5	1.29	< 10	< 1	0.04	10	0.27

SICUTS

CERTIFICATION:

[Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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o RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

Page: 1-B
Total Pages: 3
Certificate Date: 23-AUG-1999
Invoice No.: 19925647
P.O. Number:
Account: NDJ

CERTIFICATE OF ANALYSIS

A9925647

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
99B 1	201	202	315	< 1	< 0.01	12	420	8	0.01	< 2	< 1	36	< 0.01	< 10	< 10	10	< 10	46
99B 24	201	202	195	< 1	< 0.01	7	390	8	0.01	< 2	< 1	34	< 0.01	< 10	< 10	11	< 10	38
99B 25	201	202	610	< 1	< 0.01	11	410	8	0.01	< 2	1	33	< 0.01	< 10	< 10	16	< 10	54
99B 30	201	202	250	< 1	< 0.01	15	560	8	< 0.01	< 2	1	23	< 0.01	< 10	< 10	12	< 10	46
99B 47	201	202	535	< 1	< 0.01	16	470	6	0.03	< 2	1	31	0.01	< 10	< 10	15	< 10	56
99B 50	201	202	200	< 1	< 0.01	6	350	14	0.01	2	1	43	< 0.01	< 10	< 10	9	< 10	56
99B 51	201	202	245	< 1	< 0.01	13	390	8	< 0.01	< 2	< 1	15	< 0.01	< 10	< 10	8	< 10	40
99C 1	201	202	910	< 1	< 0.01	30	410	12	0.02	< 2	1	18	0.01	< 10	< 10	13	< 10	62
99C 2	201	202	540	< 1	< 0.01	23	480	16	0.02	< 2	1	24	0.02	< 10	< 10	18	< 10	74
99C 3	201	202	820	< 1	< 0.01	25	380	16	0.04	< 2	1	26	0.01	< 10	< 10	16	< 10	72
99C 8	201	202	765	< 1	< 0.01	26	390	20	0.03	2	1	24	0.01	< 10	< 10	17	< 10	90
99C 10	201	202	930	< 1	< 0.01	30	390	20	0.03	2	1	23	0.01	< 10	< 10	17	< 10	100
99C 12	201	202	225	< 1	< 0.01	14	350	10	0.02	< 2	1	19	0.01	< 10	< 10	15	< 10	54
99C 13	201	202	1580	< 1	< 0.01	28	510	14	0.01	2	3	31	0.03	< 10	< 10	26	< 10	76
99C 14	201	202	1010	< 1	< 0.01	27	360	34	0.02	< 2	1	16	< 0.01	< 10	< 10	15	< 10	112
99C 15	201	202	1175	< 1	< 0.01	32	410	26	0.02	< 2	1	26	0.01	< 10	< 10	19	< 10	98
99D 110	201	202	360	< 1	< 0.01	18	590	10	0.02	< 2	2	31	0.03	< 10	< 10	25	< 10	60
99D 111	201	202	800	< 1	< 0.01	21	650	12	0.05	< 2	2	57	0.03	< 10	< 10	21	< 10	76
99D 112	201	202	560	< 1	< 0.01	17	580	8	0.01	< 2	1	29	0.03	< 10	< 10	17	< 10	52
99D 115	201	202	240	< 1	< 0.01	12	530	8	0.04	< 2	1	33	0.01	< 10	< 10	17	< 10	50
99D 144	201	202	620	< 1	< 0.01	19	620	10	0.01	< 2	1	34	0.01	< 10	< 10	17	< 10	60
99F 2	201	202	200	< 1	< 0.01	18	390	12	0.01	< 2	< 1	11	< 0.01	< 10	< 10	10	< 10	56
99F 4	201	202	190	< 1	< 0.01	18	560	10	0.01	< 2	1	23	0.03	< 10	< 10	19	< 10	56
99F 5	201	202	630	< 1	< 0.01	24	430	16	0.04	< 2	1	29	0.02	< 10	< 10	18	< 10	76
99F 9	201	202	380	< 1	< 0.01	17	380	12	0.01	< 2	1	18	0.01	< 10	< 10	16	< 10	54
99G 1	201	202	480	< 1	< 0.01	12	450	12	0.03	< 2	1	80	0.01	< 10	< 10	18	< 10	66
99G 2	201	202	300	< 1	< 0.01	8	330	6	0.01	< 2	1	40	0.01	< 10	< 10	12	< 10	36
99G 3	201	202	385	< 1	< 0.01	8	330	2	0.02	< 2	< 1	33	0.01	< 10	< 10	12	< 10	32
99G 4	201	202	415	< 1	< 0.01	11	400	6	0.04	< 2	1	87	0.01	< 10	< 10	13	< 10	46
99G 5	201	202	460	< 1	< 0.01	27	580	14	0.05	< 2	2	57	0.01	< 10	< 10	19	< 10	76
99G 6	201	202	335	< 1	< 0.01	17	550	10	0.01	< 2	1	23	0.01	< 10	< 10	12	< 10	54
99G 18	201	202	180	< 1	< 0.01	12	450	6	< 0.01	< 2	< 1	16	0.01	< 10	< 10	11	< 10	36
99G 22	201	202	665	< 1	< 0.01	24	500	16	0.01	2	1	28	< 0.01	< 10	< 10	13	< 10	86
99N 21	201	202	460	< 1	< 0.01	13	760	6	0.02	2	1	40	0.01	< 10	< 10	22	< 10	50
99R 127	201	202	400	< 1	< 0.01	18	550	12	0.01	< 2	1	23	0.01	< 10	< 10	13	< 10	48
99R 142	201	202	335	< 1	< 0.01	14	450	8	0.01	< 2	1	24	0.01	< 10	< 10	14	< 10	48
99R 143	201	202	560	< 1	< 0.01	23	450	14	0.03	< 2	1	22	0.02	< 10	< 10	12	< 10	50
99R 174	201	202	510	< 1	< 0.01	20	520	10	0.03	< 2	1	40	0.02	< 10	< 10	18	< 10	56
99R 181	201	202	715	< 1	< 0.01	22	520	10	0.02	< 2	1	29	0.01	< 10	< 10	17	< 10	72
99S 10	201	202	185	< 1	< 0.01	8	800	4	0.01	< 2	1	26	0.03	< 10	< 10	18	< 10	38

SILTS

CERTIFICATION:

[Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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to RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

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Total Pages 3
Certificate Date 23-AUG-1999
Invoice No 19925647
P.O. Number
Account :NDJ

CERTIFICATE OF ANALYSIS

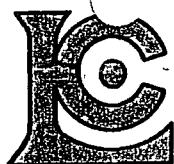
A9925647

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
99S 11	201 202	< 5	< 0.2	0.91	86	< 10	300	< 0.5	< 2	0.41	< 0.5	11	13	15	2.62	< 10	< 1	0.12	20	0.46
99S 12	201 202	< 5	< 0.2	1.04	10	< 10	270	< 0.5	< 2	0.40	< 0.5	20	19	13	3.25	< 10	< 1	0.04	10	0.40
99S 13	201 202	< 5	< 0.2	1.08	< 2	< 10	280	< 0.5	< 2	0.49	< 0.5	7	20	11	1.85	< 10	< 1	0.03	10	0.39
99S 14	201 202	< 5	< 0.2	0.97	2	< 10	280	< 0.5	< 2	0.41	< 0.5	18	15	10	2.19	< 10	< 1	0.04	10	0.32
99S 15	201 202	< 5	< 0.2	0.75	8	< 10	120	< 0.5	< 2	0.24	< 0.5	4	12	5	1.53	< 10	< 1	0.04	10	0.24
99S 16	201 202	< 5	< 0.2	0.81	6	< 10	170	< 0.5	< 2	0.40	< 0.5	6	14	8	1.52	< 10	< 1	0.03	10	0.27
99S 17	201 202	< 5	< 0.2	0.92	6	< 10	180	< 0.5	< 2	0.22	< 0.5	5	15	6	1.64	< 10	< 1	0.03	10	0.26
99S 18	201 202	< 5	< 0.2	0.71	2	< 10	130	< 0.5	< 2	0.31	< 0.5	5	12	4	1.19	< 10	< 1	0.03	10	0.22
99S 20	201 202	< 5	< 0.2	0.93	6	< 10	190	< 0.5	< 2	0.31	< 0.5	8	17	13	1.84	< 10	< 1	0.07	20	0.35
99S 21	201 202	< 5	< 0.2	0.92	4	< 10	210	< 0.5	< 2	0.36	< 0.5	8	16	7	1.57	< 10	< 1	0.03	10	0.29
99S 22	201 202	< 5	< 0.2	0.65	14	< 10	90	< 0.5	< 2	0.50	< 0.5	10	13	16	2.25	< 10	< 1	0.04	20	0.22
99S 23	201 202	< 5	< 0.2	0.91	68	< 10	190	< 0.5	< 2	0.51	< 0.5	10	16	10	3.03	< 10	< 1	0.05	20	0.32
99S 25	201 202	< 5	< 0.2	0.84	34	< 10	160	< 0.5	< 2	0.52	< 0.5	10	16	16	2.41	< 10	< 1	0.06	20	0.35
99U 1	201 202	< 5	< 0.2	0.71	28	< 10	100	< 0.5	< 2	1.26	< 0.5	15	16	27	3.32	< 10	< 1	0.06	40	0.36
99U 3	201 202	< 5	< 0.2	1.06	< 2	< 10	100	< 0.5	< 2	1.16	< 0.5	12	14	26	2.77	< 10	< 1	0.04	40	0.34
99U 5	201 202	10	< 0.2	0.61	16	< 10	100	< 0.5	< 2	0.30	< 0.5	6	11	11	1.42	< 10	< 1	0.04	20	0.19
99U 7	201 202	< 5	< 0.2	1.11	< 2	< 10	210	< 0.5	< 2	0.22	< 0.5	5	17	7	1.40	< 10	< 1	0.03	10	0.29
99U 8	201 202	5	< 0.2	1.13	< 2	< 10	160	< 0.5	< 2	0.21	< 0.5	4	18	6	1.58	< 10	< 1	0.03	10	0.28
99U 10	201 202	< 5	< 0.2	1.12	6	< 10	150	< 0.5	< 2	0.18	< 0.5	4	18	7	1.54	< 10	< 1	0.03	10	0.25
99U 19	201 202	< 5	< 0.2	0.62	10	< 10	140	< 0.5	< 2	0.44	< 0.5	6	12	7	1.47	< 10	< 2	0.03	10	0.27
99W 1	201 202	< 5	< 0.2	0.73	8	< 10	210	< 0.5	< 2	0.56	< 0.5	9	17	12	2.03	< 10	< 1	0.04	10	0.34
99W 2	201 202	40	< 0.2	0.65	100	< 10	270	< 0.5	< 2	0.43	< 0.5	11	16	13	3.72	< 10	< 1	0.04	10	0.25
99W 3	201 202	15	< 0.2	0.77	24	< 10	270	< 0.5	< 2	0.53	< 0.5	8	15	17	1.77	< 10	< 1	0.06	10	0.27
99W 26	201 202	25	0.2	1.11	86	< 10	420	< 0.5	< 2	0.39	< 0.5	11	21	22	2.02	< 10	< 1	0.06	10	0.31
99Y 25	201 202	< 5	< 0.2	1.68	< 2	< 10	160	< 0.5	< 2	0.86	< 0.5	12	35	18	2.71	< 10	< 1	0.19	10	0.82
99Y 52	201 202	< 5	< 0.2	1.46	< 2	< 10	200	< 0.5	< 2	0.68	< 0.5	10	21	14	2.48	< 10	< 1	0.15	10	0.70
99Y 53	201 202	< 5	< 0.2	1.21	< 2	< 10	170	< 0.5	< 2	0.58	< 0.5	8	17	7	2.57	< 10	< 1	0.17	10	0.70
99Y 54	201 202	< 5	< 0.2	1.44	< 2	< 10	250	< 0.5	< 2	0.75	< 0.5	11	14	10	2.59	< 10	< 1	0.31	< 10	0.76
99Y 55	201 202	< 5	< 0.2	0.74	< 2	< 10	100	< 0.5	< 2	0.46	< 0.5	5	14	3	2.48	< 10	< 1	0.09	10	0.43
99Y 56	201 202	5	< 0.2	0.83	2	< 10	140	< 0.5	< 2	0.64	< 0.5	6	10	3	1.70	< 10	< 1	0.14	< 10	0.58
99Y 57	201 202	5	< 0.2	1.71	< 2	< 10	380	< 0.5	< 2	0.50	< 0.5	12	28	8	2.45	< 10	< 1	0.40	10	1.35
99Y 58	201 202	< 5	< 0.2	0.76	< 2	< 10	100	< 0.5	< 2	0.41	< 0.5	4	10	3	2.02	< 10	< 1	0.10	10	0.42
99Y 59	201 202	30	< 0.2	1.03	< 2	< 10	140	< 0.5	< 2	0.36	< 0.5	7	19	4	3.28	< 10	< 1	0.11	10	0.60
99Y 60	201 202	< 5	< 0.2	1.14	6	< 10	180	< 0.5	< 2	0.61	< 0.5	8	19	8	2.90	< 10	< 1	0.16	10	0.63
99Y 81	201 202	75	< 0.2	1.20	< 2	< 10	200	< 0.5	< 2	0.55	< 0.5	7	18	9	2.32	< 10	< 1	0.08	< 10	0.44
99Y 94	201 202	< 5	< 0.2	1.19	< 2	< 10	150	< 0.5	< 2	0.84	< 0.5	8	21	11	2.35	< 10	< 1	0.12	10	0.50
99Z 1	201 202	5	< 0.2	1.46	10	< 10	190	< 0.5	< 2	0.42	< 0.5	9	23	12	2.25	< 10	< 1	0.08	10	0.53
99Z 2	201 202	< 5	0.2	1.02	12	< 10	120	< 0.5	< 2	0.27	< 0.5	5	14	15	2.13	< 10	< 1	0.09	10	0.29
99Z 3	201 202	< 5	< 0.2	1.06	< 2	< 10	120	< 0.5	< 2	0.22	< 0.5	4	16	9	1.75	< 10	< 1	0.05	20	0.24
99Z 4	201 202	20	< 0.2	1.24	18	< 10	100	< 0.5	< 2	0.29	< 0.5	9	18	11	2.83	< 10	< 1	0.10	20	0.36

SILTS

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[Signature]



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10. RICHARDS, GORDON

6170 TISDALL ST.,
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SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
99S 11	201 202	675	< 1	< 0.01	13	830	10	0.03	8	2	31	0.03	< 10	< 10	18	< 10	74
99S 12	201 202	2090	< 1	< 0.01	18	790	8	0.02	< 2	2	28	0.03	< 10	< 10	30	< 10	68
99S 13	201 202	200	< 1	< 0.01	14	850	6	0.05	< 2	2	36	0.03	< 10	< 10	24	< 10	62
99S 14	201 202	1435	< 1	< 0.01	15	780	6	0.01	< 2	1	27	0.02	< 10	< 10	20	< 10	58
99S 15	201 202	115	< 1	< 0.01	9	710	6	< 0.01	< 2	1	17	0.03	< 10	< 10	18	< 10	34
99S 16	201 202	205	< 1	< 0.01	10	560	6	0.02	< 2	1	29	0.03	< 10	< 10	23	< 10	36
99S 17	201 202	105	< 1	< 0.01	10	670	6	0.01	< 2	1	18	0.02	< 10	< 10	23	< 10	40
99S 18	201 202	120	< 1	< 0.01	8	800	4	0.01	< 2	1	21	0.03	< 10	< 10	19	< 10	34
99S 20	201 202	380	< 1	< 0.01	14	840	8	< 0.01	< 2	2	24	0.03	< 10	< 10	22	< 10	54
99S 21	201 202	355	< 1	< 0.01	11	630	6	0.03	< 2	1	27	0.03	< 10	< 10	23	< 10	46
99S 22	201 202	420	< 1	< 0.01	20	840	8	0.01	2	3	42	0.01	< 10	< 10	15	< 10	68
99S 23	201 202	485	< 1	< 0.01	16	870	8	0.03	2	2	41	0.03	< 10	< 10	20	< 10	64
99S 25	201 202	465	< 1	< 0.01	17	790	6	0.04	6	2	40	0.02	< 10	< 10	18	< 10	66
99U 1	201 202	975	< 1	< 0.01	28	680	10	0.06	8	4	97	< 0.01	< 10	< 10	14	< 10	92
99U 3	201 202	565	< 1	< 0.01	26	740	10	0.08	2	3	72	< 0.01	< 10	< 10	13	< 10	68
99U 5	201 202	275	< 1	< 0.01	12	870	6	< 0.01	6	1	25	0.02	< 10	< 10	15	< 10	36
99U 7	201 202	95	< 1	< 0.01	11	590	8	0.01	< 2	1	19	0.03	< 10	< 10	27	< 10	44
99U 8	201 202	100	< 1	< 0.01	10	550	6	0.01	< 2	1	18	0.03	< 10	< 10	29	< 10	40
99U 10	201 202	80	< 1	< 0.01	9	540	8	0.01	< 2	1	17	0.03	< 10	< 10	30	< 10	36
99U 19	201 202	200	< 1	< 0.01	9	690	4	0.01	2	1	28	0.01	< 10	< 10	17	< 10	36
99W 1	201 202	1145	< 1	< 0.01	14	730	6	0.05	2	1	37	0.01	< 10	< 10	18	< 10	60
99W 2	201 202	905	< 1	< 0.01	13	740	6	0.02	< 2	1	34	0.01	< 10	< 10	21	< 10	46
99W 3	201 202	500	< 1	< 0.01	14	700	8	0.04	2	2	38	0.03	< 10	< 10	22	< 10	56
99W 26	201 202	270	< 1	< 0.01	19	720	12	0.05	8	2	30	0.02	< 10	< 10	23	< 10	62
99Y 25	201 202	345	< 1	0.01	16	1240	4	0.01	< 2	4	50	0.09	< 10	< 10	47	< 10	56
99Y 52	201 202	410	< 1	0.03	13	1120	4	0.01	< 2	4	40	0.11	< 10	< 10	52	< 10	58
99Y 53	201 202	410	< 1	0.01	8	1560	2	0.01	< 2	5	25	0.12	< 10	< 10	53	< 10	54
99Y 54	201 202	550	< 1	0.02	7	1930	2	0.01	< 2	5	28	0.11	< 10	< 10	59	< 10	48
99Y 55	201 202	240	< 1	< 0.01	5	1450	2	< 0.01	2	4	15	0.10	< 10	< 10	51	< 10	32
99Y 56	201 202	345	< 1	< 0.01	5	1990	2	< 0.01	< 2	4	16	0.07	< 10	< 10	35	< 10	42
99Y 57	201 202	620	< 1	0.01	15	1250	2	0.02	< 2	10	27	0.12	< 10	< 10	61	< 10	64
99Y 58	201 202	250	< 1	< 0.01	4	1380	2	< 0.01	< 2	4	11	0.09	< 10	< 10	39	< 10	34
99Y 59	201 202	330	< 1	0.01	6	910	2	< 0.01	< 2	5	14	0.13	< 10	< 10	66	< 10	36
99Y 60	201 202	440	< 1	0.01	8	1670	< 2	< 0.01	< 2	5	26	0.11	< 10	< 10	60	< 10	50
99Y 81	201 202	360	< 1	0.02	8	1210	2	0.01	< 2	4	30	0.08	< 10	< 10	53	< 10	42
99Y 94	201 202	345	< 1	0.03	9	2110	2	0.01	< 2	4	60	0.08	< 10	< 10	54	< 10	48
99Z 1	201 202	295	< 1	0.01	14	840	12	0.02	< 2	3	29	0.09	< 10	< 10	45	< 10	64
99Z 2	201 202	165	< 1	0.03	8	610	68	0.12	< 2	2	37	0.07	< 10	< 10	34	< 10	114
99Z 3	201 202	100	1	0.02	8	500	30	0.10	< 2	1	34	0.05	< 10	< 10	27	< 10	60
99Z 4	201 202	350	1	0.04	9	770	48	0.16	< 2	2	42	0.06	< 10	< 10	29	< 10	126

CERTIFICATION:

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

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Total Pages 3
Certificate Date: 23-AUG-1999
Invoice No. 19925647
P.O. Number
Account NDJ

CERTIFICATE OF ANALYSIS

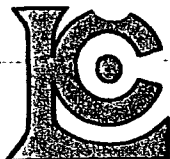
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SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
99Z 5	201 202	< 5	< 0.2	1.06	< 2	< 10	110	< 0.5	< 2	0.48	< 0.5	9	16	10	2.00	< 10	< 1	0.08	10	0.43
99Z 6	201 202	< 5	< 0.2	1.29	< 2	< 10	90	< 0.5	< 2	0.27	< 0.5	4	21	16	1.66	< 10	< 1	0.08	20	0.36
99Z 7	201 202	< 5	< 0.2	1.79	< 2	< 10	190	< 0.5	< 2	0.60	< 0.5	13	29	13	2.70	< 10	1	0.21	10	0.90
99Z 8	201 202	< 5	< 0.2	2.09	< 2	< 10	270	< 0.5	< 2	1.25	< 0.5	18	52	21	3.41	< 10	< 1	0.16	30	1.17
99Z 9	201 202	< 5	< 0.2	1.73	< 2	< 10	240	< 0.5	< 2	0.89	< 0.5	11	22	9	2.94	< 10	< 1	0.10	10	0.75
99Z 10	201 202	< 5	< 0.2	1.60	< 2	< 10	190	< 0.5	< 2	0.63	< 0.5	10	16	7	2.51	< 10	< 1	0.07	10	0.63
99Z 11	201 202	< 5	< 0.2	1.80	< 2	< 10	200	< 0.5	< 2	0.84	< 0.5	15	18	12	3.23	< 10	< 1	0.06	10	0.78
99Z 12	201 202	< 5	< 0.2	1.64	< 2	< 10	220	< 0.5	< 2	0.67	< 0.5	12	20	13	2.73	< 10	< 1	0.13	10	0.79
99Z 13	201 202	< 5	< 0.2	1.77	2	< 10	260	< 0.5	< 2	0.88	< 0.5	11	30	20	2.83	< 10	2	0.11	20	0.78
99Z 14	201 202	< 5	< 0.2	1.66	6	< 10	370	< 0.5	< 2	0.88	< 0.5	10	21	20	2.55	< 10	< 1	0.18	40	0.52
99Z 15	201 202	< 5	< 0.2	2.01	< 2	< 10	250	< 0.5	< 2	0.66	< 0.5	12	18	23	3.26	< 10	< 1	0.27	10	0.87
99Z 16	201 202	10	< 0.2	1.63	< 2	< 10	150	< 0.5	< 2	0.51	< 0.5	10	23	10	2.48	< 10	1	0.06	10	0.58
99Z 17	201 202	< 5	< 0.2	1.69	6	< 10	190	< 0.5	< 2	0.66	< 0.5	11	19	10	2.55	< 10	< 1	0.09	10	0.64
99Z 18	201 202	< 5	< 0.2	1.75	< 2	< 10	180	< 0.5	< 2	0.76	< 0.5	11	19	10	2.64	< 10	< 1	0.10	10	0.72
99Z 19	201 202	< 5	< 0.2	1.91	< 2	< 10	240	< 0.5	< 2	0.87	< 0.5	14	34	16	3.00	< 10	< 1	0.07	10	0.97
99Z 20	201 202	< 5	< 0.2	1.97	< 2	< 10	230	< 0.5	< 2	0.80	< 0.5	14	24	21	3.46	< 10	< 1	0.17	10	1.07
99Z 21	201 202	< 5	< 0.2	1.95	< 2	< 10	260	< 0.5	< 2	0.52	< 0.5	13	26	17	2.89	< 10	< 1	0.20	10	0.89
99Z 22	201 202	< 5	< 0.2	1.61	< 2	< 10	330	< 0.5	< 2	0.59	< 0.5	10	20	14	2.55	< 10	< 1	0.21	10	0.76
99Z 23	201 202	< 5	< 0.2	1.25	< 2	< 10	150	< 0.5	< 2	0.64	< 0.5	8	12	16	2.40	< 10	< 1	0.22	10	0.51
99Z 24	201 202	< 5	< 0.2	1.66	< 2	< 10	280	< 0.5	< 2	0.69	< 0.5	13	32	14	2.90	< 10	< 1	0.23	10	0.91
99Z 25	201 202	< 5	< 0.2	0.99	< 2	< 10	130	< 0.5	< 2	0.74	< 0.5	9	12	15	2.16	< 10	< 1	0.09	< 10	0.45
99Z 28	201 202	< 5	< 0.2	1.48	< 2	< 10	330	< 0.5	< 2	0.91	< 0.5	11	17	13	2.64	< 10	< 1	0.14	10	0.70
99Z 29	201 202	< 5	< 0.2	1.48	< 2	< 10	190	< 0.5	< 2	0.72	< 0.5	10	16	10	2.45	< 10	< 1	0.13	10	0.71
99Z 30	201 202	20	< 0.2	1.44	< 2	< 10	210	< 0.5	< 2	0.75	< 0.5	10	15	8	2.73	< 10	< 1	0.16	20	0.56
99Z 31	201 202	< 5	< 0.2	1.51	4	< 10	290	< 0.5	< 2	0.96	< 0.5	9	21	16	2.44	< 10	< 1	0.13	30	0.48

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CERTIFICATION

[Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

Page 1 of 3-B
Total Pages: 3
Certificate Date: 23-AUG-1999
Invoice No: I9925647
P.O. Number:
Account: NDJ

CERTIFICATE OF ANALYSIS

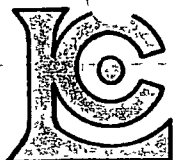
A9925647

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
99Z 5	201 202	445	< 1	0.01	8	1070	12	0.02	< 2	2	28	0.06	< 10	< 10	32	< 10	52
99Z 6	201 202	135	< 1	0.01	8	550	22	0.03	< 2	2	23	0.06	< 10	< 10	24	< 10	70
99Z 7	201 202	505	< 1	0.01	12	1140	6	0.01	< 2	3	52	0.13	< 10	< 10	46	< 10	68
99Z 8	201 202	855	< 1	0.02	24	1070	6	0.04	< 2	5	71	0.09	< 10	< 10	49	< 10	80
99Z 9	201 202	480	< 1	0.01	14	1440	6	0.01	< 2	4	53	0.06	< 10	< 10	49	< 10	74
99Z 10	201 202	390	< 1	0.01	9	690	2	0.01	< 2	3	38	0.08	< 10	< 10	43	< 10	58
99Z 11	201 202	820	< 1	0.01	11	750	4	0.03	< 2	4	46	0.07	< 10	< 10	55	< 10	70
99Z 12	201 202	1100	< 1	0.01	13	850	6	0.03	< 2	4	49	0.09	< 10	< 10	46	< 10	82
99Z 13	201 202	575	< 1	0.01	16	890	4	0.03	< 2	5	46	0.06	< 10	< 10	40	< 10	62
99Z 14	201 202	545	< 1	0.01	13	1050	4	0.04	< 2	6	99	0.08	< 10	< 10	41	< 10	62
99Z 15	201 202	325	< 1	0.02	11	360	6	0.02	< 2	5	65	0.12	< 10	< 10	59	< 10	60
99Z 16	201 202	320	< 1	0.01	11	770	6	0.01	< 2	4	39	0.11	< 10	< 10	54	< 10	54
99Z 17	201 202	570	< 1	0.02	11	830	6	0.01	< 2	4	43	0.10	< 10	< 10	49	< 10	58
99Z 18	201 202	670	< 1	0.02	11	830	4	0.03	< 2	4	48	0.09	< 10	< 10	49	< 10	60
99Z 19	201 202	545	< 1	0.02	19	940	4	0.03	< 2	5	46	0.09	< 10	< 10	58	< 10	82
99Z 20	201 202	965	< 1	0.02	12	1110	16	0.03	< 2	8	37	0.13	< 10	< 10	70	< 10	128
99Z 21	201 202	790	< 1	0.01	12	990	6	0.02	< 2	6	29	0.13	< 10	< 10	56	< 10	84
99Z 22	201 202	600	< 1	0.01	12	940	2	0.03	< 2	6	30	0.08	< 10	< 10	41	< 10	68
99Z 23	201 202	420	< 1	0.02	6	1700	2	0.01	< 2	5	23	0.09	< 10	< 10	43	< 10	74
99Z 24	201 202	705	< 1	0.03	14	1620	6	0.01	< 2	7	31	0.11	< 10	< 10	62	< 10	68
99Z 25	201 202	395	< 1	0.03	6	2130	4	0.01	< 2	3	38	0.07	< 10	< 10	49	< 10	38
99Z 28	201 202	505	< 1	0.01	11	640	4	0.06	< 2	4	103	0.06	< 10	< 10	40	< 10	62
99Z 29	201 202	510	< 1	0.01	10	700	2	0.01	< 2	3	57	0.07	< 10	< 10	40	< 10	58
99Z 30	201 202	395	< 1	0.01	9	900	4	0.01	< 2	3	39	0.06	< 10	< 10	40	< 10	54
99Z 31	201 202	500	< 1	0.01	14	660	8	0.03	< 2	4	46	0.06	< 10	< 10	38	< 10	62

CERTIFICATION:

[Signature]

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: RICHARDS, GORDON

6170 TISDALL ST.
VANCOUVER, BC
V5Z 3N4

A9927488

Comments: ATTN: GORDON RICHARDS

CERTIFICATE

A9927488

(NDJ) - RICHARDS, GORDON

Project: TIN
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-SEP-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	40	Pulp; prev. prepared at Chemex
229	40	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2118	40	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	40	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	40	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	40	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	40	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	40	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	40	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	40	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	40	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	40	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	40	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	40	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	40	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	40	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	40	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	40	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	40	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	40	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	40	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	40	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	40	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	40	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	40	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	40	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	40	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	40	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	40	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	40	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	40	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	40	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	40	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	40	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	40	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	40	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: RICHARDS, GORDON

6170 TISDALL ST.,
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V5Z 3N4

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Page: 1 of 1
Total Pages: 1
Certificate Date: 10-SEP-1999
Invoice No.: 19927488
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CERTIFICATE OF ANALYSIS

A9927488

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
99Y 5	244 229	2.0	1.73	14	< 10	140	< 0.5	6	0.14	< 0.5	4	18	28	2.57	< 10	< 1	0.10	10	0.36	180
99Y 6	244 229	1.6	2.22	12	< 10	120	< 0.5	< 2	0.18	< 0.5	4	16	81	3.34	< 10	< 1	0.22	30	0.70	355
99Y 7	244 229	2.6	1.64	36	< 10	170	< 0.5	16	0.12	< 0.5	3	10	46	3.30	< 10	1	0.19	30	0.33	170
99Y 8	244 229	0.2	1.75	14	< 10	160	< 0.5	< 2	0.11	< 0.5	4	19	33	2.79	< 10	< 1	0.07	10	0.35	130
99Y 9	244 229	0.2	1.47	16	< 10	150	< 0.5	< 2	0.13	< 0.5	4	19	31	2.66	< 10	< 1	0.05	20	0.31	110
99Y 10	244 229	< 0.2	1.57	20	< 10	190	< 0.5	< 2	0.11	< 0.5	4	19	14	3.32	< 10	< 1	0.06	20	0.30	110
99Y 11	244 229	< 0.2	1.30	16	< 10	100	< 0.5	< 2	0.10	< 0.5	4	15	14	3.17	< 10	< 1	0.07	10	0.21	120
99Y 12	244 229	0.4	1.37	12	< 10	100	< 0.5	6	0.08	< 0.5	3	11	9	3.78	< 10	< 1	0.06	20	0.16	60
99Y 13	244 229	0.2	1.71	14	< 10	230	< 0.5	< 2	0.34	< 0.5	8	24	15	2.92	< 10	< 1	0.08	40	0.45	260
99Y 14	244 229	< 0.2	1.35	18	< 10	260	< 0.5	< 2	0.43	< 0.5	7	30	13	2.23	< 10	< 1	0.26	60	0.52	255
99Y 61	244 229	< 0.2	2.25	8	< 10	560	< 0.5	< 2	0.54	< 0.5	12	34	27	3.33	< 10	< 1	0.15	30	0.78	420
99Y 62	244 229	< 0.2	2.55	6	< 10	430	< 0.5	< 2	0.51	< 0.5	12	28	22	3.76	< 10	< 1	0.22	20	0.78	350
99Y 63	244 229	< 0.2	2.43	10	< 10	300	< 0.5	< 2	0.32	< 0.5	10	34	19	3.29	< 10	< 1	0.15	10	0.74	320
99Y 64	244 229	< 0.2	3.16	6	< 10	370	< 0.5	< 2	0.73	< 0.5	15	34	13	4.50	< 10	< 1	0.25	10	1.15	425
99Y 65	244 229	< 0.2	1.99	4	< 10	270	< 0.5	< 2	0.45	< 0.5	10	35	18	2.95	< 10	< 1	0.12	10	0.76	345
99Y 66	244 229	< 0.2	2.36	10	< 10	480	< 0.5	< 2	0.84	< 0.5	11	22	15	3.38	< 10	< 1	0.18	30	0.91	560
99Y 67	244 229	< 0.2	2.07	6	< 10	460	< 0.5	< 2	0.48	< 0.5	11	29	32	3.15	< 10	< 1	0.10	20	0.72	410
99Y 68	244 229	< 0.2	1.84	8	< 10	540	< 0.5	< 2	0.84	< 0.5	11	29	39	2.78	< 10	< 1	0.09	30	0.72	605
99Y 69	244 229	< 0.2	1.70	2	< 10	290	< 0.5	< 2	0.74	< 0.5	11	31	13	2.99	< 10	< 1	0.25	< 10	1.00	360
99Y 70	244 229	< 0.2	2.03	4	< 10	280	< 0.5	< 2	0.66	< 0.5	12	18	32	3.14	< 10	< 1	0.63	10	1.15	410
99Y 71	244 229	< 0.2	2.19	6	< 10	400	< 0.5	< 2	0.44	< 0.5	11	31	14	3.11	< 10	< 1	0.12	10	0.72	300
99Y 72	244 229	< 0.2	2.45	10	< 10	880	< 0.5	< 2	0.65	< 0.5	14	32	40	3.87	< 10	< 1	0.21	30	0.84	600
99Y 73	244 229	< 0.2	1.57	6	< 10	350	< 0.5	< 2	0.45	< 0.5	8	21	11	2.72	< 10	< 1	0.16	10	0.68	275
99Y 74	244 229	< 0.2	1.85	10	< 10	350	< 0.5	< 2	0.47	< 0.5	11	28	14	3.15	< 10	< 1	0.17	10	0.73	440
99Y 75	244 229	0.2	1.66	8	< 10	370	< 0.5	< 2	0.60	< 0.5	11	25	11	3.00	< 10	< 1	0.14	< 10	0.71	550
99Y 76	244 229	< 0.2	1.82	8	< 10	350	< 0.5	< 2	0.59	< 0.5	16	35	44	3.77	< 10	< 1	0.17	< 10	0.86	660
99Y 77	244 229	0.2	2.58	8	< 10	470	< 0.5	< 2	0.89	< 0.5	14	53	33	3.94	< 10	< 1	0.22	10	1.08	520
99Y 78	244 229	< 0.2	1.90	6	< 10	450	< 0.5	< 2	0.62	< 0.5	11	28	24	3.17	< 10	< 1	0.15	10	0.71	430
99Y 79	244 229	< 0.2	1.73	6	< 10	260	< 0.5	< 2	0.57	< 0.5	11	30	26	2.54	< 10	< 1	0.05	10	0.65	390
99Y 80	244 229	0.2	1.62	12	< 10	280	< 0.5	< 2	0.39	< 0.5	9	25	14	2.33	< 10	< 1	0.05	< 10	0.55	335
99Y 83	244 229	< 0.2	2.33	2	< 10	350	< 0.5	< 2	0.42	< 0.5	14	18	15	3.76	< 10	< 1	0.68	< 10	1.42	525
99Y 84	244 229	< 0.2	1.25	8	< 10	320	< 0.5	< 2	0.15	< 0.5	7	22	12	2.24	< 10	< 1	0.16	10	0.43	345
99Y 85	244 229	< 0.2	3.42	< 2	< 10	640	< 0.5	< 2	0.88	< 0.5	19	12	25	5.90	10	< 1	1.38	< 10	2.00	965
99Y 86	244 229	< 0.2	2.64	10	< 10	500	< 0.5	< 2	0.45	< 0.5	13	37	25	3.90	< 10	< 1	0.28	10	0.87	430
99Y 88	244 229	< 0.2	2.41	6	< 10	420	< 0.5	< 2	0.28	< 0.5	11	41	25	3.56	< 10	< 1	0.21	10	0.74	290
99Y 89	244 229	< 0.2	3.51	6	< 10	930	< 0.5	< 2	0.78	< 0.5	19	66	34	5.17	10	< 1	0.47	40	1.90	660
99Y 90	244 229	< 0.2	2.08	12	< 10	350	< 0.5	< 2	0.68	< 0.5	11	36	30	2.95	< 10	< 1	0.08	10	0.75	370
99Y 91	244 229	< 0.2	1.82	6	< 10	250	< 0.5	< 2	0.32	< 0.5	10	25	13	2.77	< 10	< 1	0.19	< 10	0.85	320
99Y 92	244 229	0.2	3.24	20	< 10	1240	< 0.5	< 2	0.43	< 0.5	12	38	33	4.13	< 10	< 1	0.20	10	0.80	530
99Y 93	244 229	< 0.2	3.99	8	< 10	440	< 0.5	< 2	0.40	< 0.5	19	26	7	5.95	10	< 1	1.06	< 10	2.11	745

RERUNS from A9925634

CERTIFICATION:

50125



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Analytical Chemists * Geochemists * Registered Assayers

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o RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN. GORDON, RICHARDS

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Total Pages 1
Certificate Date: 10-SEP-1999
Invoice No. 19927488
P.O. Number
Account .NDJ

CERTIFICATE OF ANALYSIS

A9927488

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
99Y 5	244 229	1	0.03	7	270	124	0.11	< 2	2	29	0.06	< 10	< 10	35	< 10	102
99Y 6	244 229	1	0.03	7	580	156	0.16	< 2	1	42	0.10	< 10	< 10	25	< 10	314
99Y 7	244 229	2	0.07	4	500	308	0.43	< 2	3	49	0.05	< 10	< 10	22	< 10	160
99Y 8	244 229	1	0.03	7	240	48	0.10	< 2	2	31	0.05	< 10	< 10	36	< 10	96
99Y 9	244 229	1	0.02	8	190	28	0.06	< 2	3	34	0.05	< 10	< 10	36	< 10	44
99Y 10	244 229	3	0.03	7	250	26	0.08	< 2	2	35	0.05	< 10	< 10	38	< 10	72
99Y 11	244 229	3	0.02	8	260	34	0.06	< 2	1	25	0.03	< 10	< 10	32	< 10	102
99Y 12	244 229	2	0.02	4	260	44	0.08	< 2	1	35	0.03	< 10	< 10	22	< 10	48
99Y 13	244 229	3	0.01	11	570	38	0.03	< 2	3	44	0.06	< 10	< 10	31	< 10	66
99Y 14	244 229	< 1	0.01	18	860	4	< 0.01	< 2	1	27	0.08	< 10	< 10	19	< 10	50
99Y 61	244 229	1	0.03	20	490	6	< 0.01	< 2	6	40	0.12	< 10	< 10	70	< 10	58
99Y 62	244 229	1	0.02	18	750	6	< 0.01	< 2	6	36	0.07	< 10	< 10	67	< 10	62
99Y 63	244 229	1	0.02	18	260	6	< 0.01	< 2	4	33	0.12	< 10	< 10	70	< 10	54
99Y 64	244 229	1	0.04	19	1030	2	< 0.01	< 2	6	43	0.12	< 10	< 10	91	< 10	80
99Y 65	244 229	1	0.03	17	290	6	< 0.01	< 2	5	35	0.12	< 10	< 10	65	< 10	58
99Y 66	244 229	1	0.03	14	1030	6	0.01	< 2	5	46	0.11	< 10	< 10	60	< 10	74
99Y 67	244 229	1	0.02	17	420	6	< 0.01	< 2	5	30	0.10	< 10	< 10	61	< 10	58
99Y 68	244 229	2	0.02	23	710	6	0.02	< 2	6	38	0.07	< 10	< 10	53	< 10	60
99Y 69	244 229	2	0.03	19	1100	4	< 0.01	< 2	4	29	0.10	< 10	< 10	57	< 10	70
99Y 70	244 229	3	0.03	10	1570	< 2	0.01	< 2	3	29	0.14	< 10	< 10	69	< 10	78
99Y 71	244 229	1	0.02	14	370	6	< 0.01	< 2	4	31	0.10	< 10	< 10	63	< 10	62
99Y 72	244 229	1	0.03	18	920	2	0.01	< 2	11	43	0.10	< 10	< 10	72	< 10	82
99Y 73	244 229	5	0.02	9	620	4	< 0.01	< 2	4	29	0.10	< 10	< 10	58	< 10	56
99Y 74	244 229	6	0.02	12	620	6	< 0.01	< 2	5	27	0.11	< 10	< 10	66	< 10	64
99Y 75	244 229	3	0.02	11	900	4	0.01	< 2	4	28	0.09	< 10	< 10	58	< 10	68
99Y 76	244 229	4	0.03	16	820	6	< 0.01	< 2	5	28	0.10	< 10	< 10	74	< 10	76
99Y 77	244 229	3	0.03	29	910	4	0.01	< 2	8	39	0.14	< 10	< 10	78	< 10	92
99Y 78	244 229	3	0.02	14	780	10	< 0.01	< 2	7	31	0.11	< 10	< 10	59	< 10	72
99Y 79	244 229	2	0.03	21	610	6	< 0.01	< 2	4	39	0.09	< 10	< 10	53	< 10	60
99Y 80	244 229	1	0.02	14	660	6	0.02	< 2	3	28	0.07	< 10	< 10	49	< 10	60
99Y 83	244 229	1	0.02	10	780	2	< 0.01	< 2	9	24	0.17	< 10	< 10	92	< 10	64
99Y 84	244 229	1	0.01	11	160	6	< 0.01	< 2	4	15	0.06	< 10	< 10	47	< 10	38
99Y 85	244 229	< 1	0.04	5	2610	< 2	< 0.01	< 2	9	32	0.28	< 10	< 10	131	< 10	124
99Y 86	244 229	1	0.01	22	740	6	< 0.01	< 2	8	38	0.13	< 10	< 10	78	< 10	66
99Y 88	244 229	1	0.01	23	300	6	< 0.01	< 2	7	29	0.11	< 10	< 10	68	< 10	62
99Y 89	244 229	< 1	0.03	26	1380	6	< 0.01	< 2	9	84	0.24	< 10	< 10	120	< 10	92
99Y 90	244 229	1	0.04	21	590	6	< 0.01	< 2	6	45	0.12	< 10	< 10	61	< 10	58
99Y 91	244 229	1	0.02	11	360	4	< 0.01	< 2	5	22	0.13	< 10	< 10	63	< 10	52
99Y 92	244 229	2	0.02	18	490	8	0.01	< 2	8	35	0.14	< 10	< 10	93	< 10	76
99Y 93	244 229	< 1	0.03	10	1480	2	< 0.01	< 2	10	27	0.23	< 10	< 10	135	< 10	118

CERTIFICATION.

SOILS

[Signature]



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o. RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

A9927489

Comments: ATTN: GORDON RICHARDS

CERTIFICATE

A9927489

(NDJ) - RICHARDS, GORDON

Project: TIN
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 09-SEP-1999.

SAMPLE PREPARATION

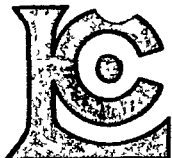
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex
229	2	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2118	2	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	2	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	2	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	2	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	2	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	2	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	2	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	2	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	2	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	2	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	2	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	2	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	2	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	2	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	2	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	2	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	2	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	2	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	2	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	2	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	2	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	2	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	2	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	2	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	2	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	2	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	2	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	2	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	2	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	2	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	2	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	2	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	2	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	2	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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to: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN

Comments: ATTN: GORDON RICHARDS

Page 1 of 1-A
Total Pages 1
Certificate Date: 09-SEP-1999
Invoice No. 19927489
P.O. Number :
Account :NDJ

CERTIFICATE OF ANALYSIS

A9927489

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
99Y 95	244 229	0.2	0.41	< 2	< 10	160	< 0.5	< 2	0.66	< 0.5	1	92	12	0.92	< 10	< 1	0.12	< 10	0.23	215
99Y 96	244 229	3.0	0.22	< 2	10	830	< 0.5	< 2	9.41	1.0	22	89	9	3.72	< 10	< 1	0.13	< 10	4.19	1705

SCROCKIE

RX

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Project: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

Page: 1-B
Total Pages: 1
Certificate Date: 09-SEP-1999
Invoice No.: I9927489
P.O. Number:
Account: NDJ

CERTIFICATE OF ANALYSIS

A9927489

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
99Y 95	244	229	17	0.06	3	80	16	0.04	< 2	1	38	< 0.01	< 10	< 10	8	< 10	20
99Y 96	244	229	2990	< 0.01	73	940	268	0.28	6	17	551	< 0.01	< 10	< 10	20	< 10	82

SC666E

RX

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o RICHARDS, GORDON

6170 TISDALL ST.,
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V5Z 3N4

A9929226

Comments: ATTN: GORDON RICHARDS

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A9929226

(NDJ) - RICHARDS, GORDON

Project: TIN

P.O.#:

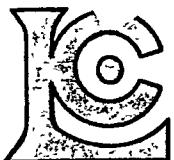
Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-SEP-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	7	Dry, sieve to -80 mesh save reject
202	7	

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
3993	7	Au ppb: Fuse 30 gram-EXT-AA fin.	FA-EXT-AA	1	1000



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to RICHARDS, GORDON

6170 TISDALL ST.,
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V5Z 3N4

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Certificate Date: 27-SEP-1999
Invoice No. I9929226
P.O. Number
Account NDJ

CERTIFICATE OF ANALYSIS

A9929226

SAMPLE	PREP CODE		Au ppb EXT-AA									
99017	201	202	4									
99018	201	202	2									
99019	201	202	< 1									
99020	201	202	8									
99021	201	202	2									
99022	201	202	4									
99023	201	202	18									

SILTS

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A9929227

Comments: ATTN: GORDON RICHARDS

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A9929227

(NDJ) - RICHARDS, GORDON

Project: TIN
P.O. #:

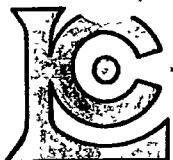
Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-SEP-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201 202	11 11	Dry, sieve to -80 mesh save reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
3993	11	Au ppb: Fuse 30 gram-EXT-AA fin.	FA-EXT-AA	1	1000



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Total Pages 1
Certificate Date 27-SEP-1999
Invoice No. : I9929227
P.O. Number :
Account : NDJ

CERTIFICATE OF ANALYSIS

A9929227

SAMPLE	PREP CODE		Au ppb EXT-AA									
X14	201	202	< 1									
X33	201	202	2									
X34	201	202	< 1									
X35	201	202	2									
X36	201	202	2									
X37	201	202	< 1									
X38	201	202	4									
X39	201	202	9									
X40	201	202	< 1									
X41	201	202	< 1									
X42	201	202	< 1									

500000
II

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[Signature]



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6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

A9929228

Comments: ATTN: GORDON RICHARDS

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A9929228

(NDJ) - RICHARDS, GORDON

Project: TIN
P.O.#:

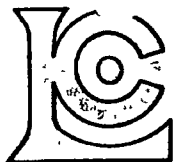
Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
226	4	0-3 Kg crush and split
3202	4	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: RICHARDS, GORDON

6170 TISDALL ST.,
VANCOUVER, BC
V5Z 3N4

Project: TIN
Comments: ATTN: GORDON RICHARDS

Page 1 of 1
Total Pages : 1
Certificate Date: 24-SEP-1999
Invoice No. : I9929228
P.O. Number :
Account : NDJ

CERTIFICATE OF ANALYSIS

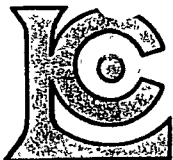
A9929228

SAMPLE	PREP CODE		Au ppb FA+AA									
X43	205	226	< 5									
X44	205	226	< 5									
X45	205	226	< 5									
X54	205	226	5									

SCREWED
7

P-1

CERTIFICATION: *inverval*



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VANCOUVER, BC
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A9929229

Comments: ATTN: GORDON RICHARDS

CERTIFICATE

A9929229

(NDJ) - RICHARDS, GORDON

Project: TIN
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-SEP-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201 202	39 39	Dry, sieve to -80 mesh save reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
3993	39	Au ppb: Fuse 30 gram-EXT-AA fin.	FA-EXT-AA	1	1000



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o RICHARDS, GORDON

6170 TISDALL ST.,
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Project: TIN
Comments: ATTN: GORDON RICHARDS

Page: 1
Total Pages: 1
Certificate Date: 27-SEP-1999
Invoice No.: I9929229
P.O. Number:
Account: NDJ

CERTIFICATE OF ANALYSIS

A9929229

SAMPLE	PREP CODE		Au ppb EXT-AA									
X1	201	202	3									
X2	201	202	3									
X3	201	202	7									
X4	201	202	< 1									
X5	201	202	3									
X6	201	202	16									
X7	201	202	8									
X8	201	202	15									
X9	201	202	26									
X10	201	202	24									
X11	201	202	5									
X12	201	202	4									
X13	201	202	7									
X15	201	202	< 1									
X16	201	202	< 1									
X17	201	202	< 1									
X18	201	202	< 1									
X19	201	202	5									
X20	201	202	< 1									
X21	201	202	3									
X22	201	202	< 1									
X23	201	202	5									
X24	201	202	< 1									
X25	201	202	< 1									
X26	201	202	< 1									
X27	201	202	< 1									
X28	201	202	< 1									
X29	201	202	< 1									
X30	201	202	< 1									
X31	201	202	< 1									
X32	201	202	2									
X46	201	202	< 1									
X47	201	202	3									
X48	201	202	55									
X49	201	202	2									
X50	201	202	3									
X51	201	202	< 1									
X52	201	202	< 1									
X53	201	202	4									

CERTIFICATION

SNILS

502000-1
11
YUKON ENERGY MINES
& RESOURCES LIBRARY
P.O. Box 2703
Whitehorse, Yukon Y1A 2C6

copies of
FIELD NOTES
of
Gordon G. Richards
+
Dave Bennett
on

G. Richards 1999 Grassroots Prospecting Program
99-059

No 1

2

1

JEZER 1

4

3

S

1500 2

Gordon G. Richards

June 30/99

1/20 ddd.

2380 edges/lot
on v.d.

870' part No 1 of 21+22

✓ OC w 1/2 m clear silty qtz (S)

✓ Same psammite silice w qtz - lots (S)

creek @ 970 after 25, 26 No 2

C 450 last length start OC

C 510 N of No 1 35 submd bls in till (S)

Same limestone

✓ 1060 ck 3 pcs silice sed - qtz

C 800 part 39 No 1 OC phyllite quartz.

770 N of No 1 41. would w. water.

2

1050 Sat Nov 93, 94
 1/2 in knifed ss(?)
 ✓ 12.50 (S) pumice silicified in massive beds

3

- ~~R119~~ Left truck Field Ck on old rd @ west end
 bridge. up to road + chained NW
 up to open hill @ SE corner chain
 all qtz phyllite contacted as ss?
 400' R119 RC gentle dip to schistosity
 X cutting qtz as well
 440' R120 Soil in hill. Knotted phyllite
 float + more qtz
 450' top of bank then gentle climb
 515 R121 yellow soil no grit or pbb
 590 R122 yellow gray soil w phyllite cps
 665 R123 Orange soil w cps phyllite
 also some cobble qtz
 730 2 pits both (acss?)
 810 R124 Soil w phyllite cps
 Also 1/2 m bld on surface
 865 R125 yellow soil w phyll cps
 950 R126 yellow soil w qtz phyllite cps +
 qtz cps 1/2 m bld on surface
 in small knoll
 2 samples less as silt up to 1190 @
 edge bank into ck.
 1230 first mixed soil
 1260 R127 clay rich phyllite cps w iron
 pits cobbles 1/2 way down slope

1340 ck @ small pond

R127 Silt unsampled

R128F RC silty siliceous phyllite w/ X cutting qtz
units (S)

R129F RC blue qtz submed (S)

Set 0m

Up creek N side

60m R130 Soil on base slope phyllite caps
large phyllite blocks & lam

140m R131 Yellow soil phyllite caps + red pebbles

220 R132 med clay + sand caps soil

290 R133 med soil

350 fine sed (lenses?)

370 R134 med soil red clay (lenses?)

435 R135 med soil more clay

510 R136 med soil clay phyllite blocks
slap bank into ck below + back

550 OC dead phyllite

580 R137 RC sub clay flt (S) extremely
leached w/ limonite foliated

600 R138 med soil phyllite qtz rich

610 NS chain line

690 R139 yellow grey soil med
much fines 1.76 all before

760 R140 yellow tan med soil

990 big OC ~~run~~ running up + down hill810 R141 RC locally siliceous spotted hard? ~~phylite~~
low X cutting qtz units880 Creek tributary running some qtz cobbles
R142 silt OC phyllite along ck
Cross creek + down to main ck

R143 silt

R144 RC qtz

most flt to clay phyllite
few % in white qtz blocks

Some sand gneiss

[SE] 0m

270m on top silt

[SE] no rock

370m R145 Till 20 cm fines are yellow
greenish grey rhy till clay phyllite
round phyllite + qtz

[SE] no rock

680 R146 yellow grey till small pcs
phyllite + some qtz 30 cm less

LEVEL 6

940 E-W string line

970 dug hole 30cm no grit, loess

back to cl. line + 50m E to

qtz bldg. Dug 250cm deep got

loess w. few fcs grit cl. phyllite

20m W + 5m N

R147 yllw silty (loessy?) fcl

cl. phyllite cps + rounded pebbles

some qtz

1330 R148 gush yllw grey till qtz pbbles

vk pbbles and cl. phyllite

5cm loess on top

1460 2m x 1m slab cl. psammite (siliceous)

1720 R149 gush grey clay till 10cm loess

and qtz pbbles

on moderate S slope

1950 start steep hill side

1960 cl. phyllite (subcomp?)

2000 oc flat psammite w. hairline

X cutting qtz vults < 1mm

2070 base slope

R150 Qtz bldg 20m from R147 (S)

R151 ck 7g on 35.36 siliceous bed mostly qtz w. v. rounded

R152 150m S of ck on 35.36 clay line qtz + broken siliceous bed w. (limonite sub round bldg)

7

@ creek

Nath 0m

150m No 2 JE-ZEK 28

187m R153 RC 1m x 2m cl. psammite

me and siliceous w. lim fcs

300m R154 Soil in variably siliceous psammite

w. trace silica + limonite loc

Cartan WY 0m

30m R155 RC qtz 30cm w. lim vrgs

100m R156 Soil w. sub cl. qtz cps

175 R157 Soil cl. phyllite

240 oc phyllite 094/05N

R158 limonite vrgs + fcs some qtz psammite

330 loess

360 R159 Soil all psammite cps + bldgs

carb → lim + lim fcs clay siliceous

450 mixed loess + phyllite cps

R160 RC subcomp psammite some w

small 3mm pebbles carb → lim + lim fcs

minor X cutting qtz vults

530 R161 gush grey soil w. phyll cps

560 oc 20m up hill gritty psam (loesslike)

610 R162 gush grey soil phyllitic cps

- 690 R163 gush grey bn soil some red qtz
loess on top 10-5-10 cm
- 760 R164 yellow bn soil under gush grey
silt 5 cm thick. All phyll eps
- 795 dry creeklet phyll eps low qtz
- 865 R165 Gush grey soil clay eps
- 940 R166 " " " " " w qtz
- 995 R167 " " " " " "
- under 10 cm loess eps mix
- 1075 R168 gush yellow soil clay phyll eps
- 1150 R169 yellow soil clay " "
- 40 cm - 50 cm deep
- 1225 R170 gush yellow soil clay eps
- 1305 R171 gy bn soil clay eps some qtz
on clearing line
- 1375 R172 gush yellow grey soil clay phyll
w qtz (some? to much? loess?)
- 1450 deep loess
- 1530 river bank
- R173 gush yellow soil under loess
w subrad qtz + clay phyllite
- (1600) creeklet R174 silt good lines
- 1700 brow of hill knuck
- R175 gush yellow soil under yellow silt
loess w red qtz

- 1775 deep loess
- 1830 R176 clay yellow soil some loess?
break strong last 20m?
- 1930 R177 dry gush yellow grey soil
clay phyllite
- 1940 clay slab big psammite w qtz
no laminar
- 2000 R178 gush grey soil clay psamm
step slope sharp psamm 1960±
- 2070 much psammite subrad, oc + rubble
on steep slope since R178 few
large qtz bldns psamm not alt
- 2130 R179 yellow clay eps soil
- 2200 R180 dry yellow till red qtz + other
min in clay eps
- 2270 top steep w facing bank
thrust glacial outwash
- 2360 R181 good silt ck filled clay
bldns psammite, some qtz bldns
Same h6 like bldns
True rounded bldns
- 2400 oc psammite
- 2480 clay line 2560 dry creeklet
- 2600 onto flats

LEVEL 10

NEVILLE CHERRY INC. 471

2 km west from double creek on
Minto Lake rd.

South cross creek on logs

South 0 m

590 m base steep slope and biotite felsite oc

L1 Till good over clay felsite
rubble. Rd qtz + subclan felsite
round others

615 clay felsite rubble

800 m 50 cm hole in loess bottom in pit

830 60 cm

860 L2 Till sample below 40 cm
mixd till and loess

Sample sandy mostly rd pbbles

same subclan

large black diorite nearby

1090 starting across ridge top

subcomp felsite

1130 lunch top of cliff felsite some rusty
felsite frags

L1 ed W across hill to small gully

G1 Silt collected from puddles

standing water - no flow

05 felsite + qtz - other pbbles

06 felsite along E bank

LEVEL 2

120m back on ridge above anomaly creek

0m Contour + drop into creek

120m above dk - much of felsite showing pronounced flint foliation.

220m G2 silt good much finer
Flt mostly 2-lam debris fair amount
thin blades med qtz

950 crossed dry gulch E side of dk.
all of s debris

1080 G3 silt good fine same reg²
no rx no rk chert
Crack barely flowing

[SE] Set 0m

400m L3 More of a soil 10 cm loess
Then start clay clay alt² felsite
Can break slabs + p. bbles by hand
No round pebbles - all felsite
Sample collected @ 60 cm depth

[060°] Set 0m

90m large med blk

95m drumhead 025° 10" wide

300m L4 Top 15 cm cobbles med + loess

Then yellow fill qtz - phyllite pbbles

Some sand much fine

Sample 40 cm depth

13

580m L5 Till just before willow patch

40-cm depth Top 10 cm med

loess - till Fine dk bn till

pbbles qtz - phyllite - quartz?

675

[015°] no vent

900m L6 Till beneath 70 cm loess
pbbles mixed to cobbles

gray bn

1200 L7 Till gray slightly brown
fine pebbly till non stratified
hard + compact @ 30-40 cm depth
top 20 cm med tills + some loess
yellow brown layer 15-25 cm

1500 L8 gushy gray fill pebbly
40 cm deep Top 20 cm loess-till

1800 L9 good dk bn till 15 cm loess
Sample @ 50 cm

clay phyllite caps + cobbles
same med qtz

2100 Big Break Slope Deep Loess

2250 basal slope angle NW.

2200 creek

LEVEL

NEVILLE CHERRY INC. 471

15

Minto

Leading track 200 m past 2nd creek
on Minto L. Rd.

338' 0 m 400 m end back break start logging

800 m edge first creek on trail

960 G4 fine silt.

980 same gully more water +

outwash clay phyllite + qtz

(Bugs)

1260 G5 fine silt 2nd gully

(slabs of black + black phyllite)

(S)

1650 top of next creek or margin

phyllite dark grey gentle slope

1720 G6 screened - 30 m silt

much qtz + clay pale to dark phyllite

Lvg landing where parked few days ago.

05.5

05.8 flat oc phyllite.

08.0

08.0 large phyllite slates + blue rubble
along ditch

8.7 first felsite rubble

8.8 much felsite rubble

cross 50m 100m
side debris felsite blue frags
silt > 1m

9.0-9.6 blue silt debris felsite
oc @ 9.3±

9.7 med phyllite + felsite flt
orange qtz bldg sub blue
with leached trace

G7 RC qtz

10.5 small scarp coming into oc.

11.0 pull out 200m from first well.

12.2 km much lms - siliceous
blue rubble along ditch

NEVILLE CROSSING NO. 471

G8 siliceous lms frac^d fine silica
leached sp? (5)

G9 + G10 in bush an oc above rd
down glacial scoured channeloid
feature slopes gently E
strikes due E-W

G9 + G10 both psammite is laminaritic
calcareous spots throughout +
variable qtz unts + siliceous

G11 chloritic schist w qtz-lim unts

G12 blue rubble in ditch

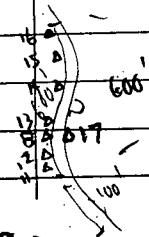
siliceous lms phyllite w sericite + gray sp? (6)
X cutting qtz unts

G13 bleached qtz unts lms? X cutting qtz
in ditch 1m above bottom slope in bank

G14 bleached siliceous qtz unts? lms? below truck
in ditch.

G15 75m downward point rubble dense phyllite
subcomp blue bleached lms phyllite w qtz

G16 chl-ser w qtz + calc. knot schist



Don
+ Hilda
97

marked with
cypress tree

G17 Siliceous qtz unts bleached
blue lms

LEVEL 18

12.5 normal phyllite OC

13.1 OC?

13.25 subcomp alt? phyllite massive
+ splintery phyllite shist?

13.4 hampsh

NEVILLE CROSSBY INC. 471

19

Stibnite OK.

0m [uphill] blue line redist w string on slope

35m R182 RC OC chl qtz schist w

Xisting trace v low line

220 R183 dry soil grey yellow

w Llan phyllite cps vacated

6 m ss qtz blades in area

black round bldr marble 2mm x 6

235 RC R184 Qtz bldr 30cm

418 large 1m qtz bldr

450 2mm 1m " " s

R185 Soil chl schist cps

470 2-1 1/2 qtz blades

500 R186 RC qtz bldr 1 m 2 others nearby

620 numerous qtz blades w chl schist

Llan slabs

630 R187 RC bleached + leached? schist

in qtz bldr field

660 R188 Soil xps phyllite chl + qtz

750 2m qtz in

900 R189 Soil cps phyllite + qtz Llan

1100 R190 Soil 60 cm deep

chl phyllite + qtz

Then flat Llan pale grey phyllite pssant

slate

1260 subcomp flat

" " "

20

1300 R191 unoxidized gray clay soil

10 cm deep

1500 R192 clay soil chd. cps

on flats

1700 R193 clay soil chd. cps + qtz

60 cm deep

1820 R194 RC pale phyllite + 2% chd (50%)

large 1m round bldg nearby

1900 R195 Rky yellow soil 30 cm deep

no obvious loess layer

2100 L10 Till gray brown subbed

phyll - qtz - andes pebbles

same sub fluv

2400 R196 Soil clay phyllite much qtz

w chd sp 3% ±

R197 RC qtz on 5cm max width

2670 L11 Dark gray brown clay rich fill

beneath 5-10 cm org^c + 20-30

cm loess? w clay cps

Till has rnd + clay rky frags

East 0m

1050 on mouse trail

R198 Soil yellow unoxidized under rock on soil

30cm sample 50cm only chd phyll. cps

Very clay rich. Could screen - 200 mesh

South 0m

21

205 R199 Soil 50 cm deep

gray grey Soil cps chd phyll.

300m into trail + big oak 10m E

flat lying w/ chd phyll psammite

340 on trail: R200 bleached psammite

chd sp 1% "fine" (S)

several large pcs

400 R201 Soil clay phyllite + qtz

600 R202 Rky soil clay silc^s phyll

road over bank

750 edge hill

800 R203 Soil

1000 R204 Soil rky loess w/ r

present is mxd.

1400 R205 Rky soil in birch

good soil

1600 R206 chd phyll cps Soil

1940 bldg or subcomp phyll w qtz

Came

Came out 2.0 km from start

Lvg. Harpin just after mnts by
125m N. to creek no silt

200m L12 Till 60 cm deep dry
many round pebbles

[327°]

on

300 deep pit 1m+ deep in loess
just touching pebbles - Picture

375 in cr. top up 10 cm loess
then outward gravel

(North) no rest -

1000m top of bank into creek

G18 Fine silt. Creek swamped w silt
loess? silt fracture?

Much qtz flt w phyllite
going up creek much silt shifted from toe
of slope

140m A large block L1m phyllite silt

G19 RL up slope dust on ch. phyll

G20 RL silt + qtz and phyll (S)

G21 RL "

780m G22 Good silt not swamped
w silt. Much silt phyllite w qtz
no pebbles etc. Unscreened

24 SW

0 m

1200

end

SE

0 m

500 swamp water varies level

550 Terra Firma

L13 Till sample 10 cm loose

40 cm depth red pebbles

some qtz

630 clay slab psammite

850 80 cm sand + pebbles no
base till

975 G23 RC 10 m x 30 m OG

→ 045 + pale cream phyllite

1050 w. line spots, low qtz

1050 OG same low qtz

1080 spotty OG ends

Talbot

4

25

SW from camp at 1 1/2 km from

SE 1 1/2 to edge of lake OG S phyllite

130/30 NE

F1 qtz lens 1/2 m wide

F2 fine silt main body

It is weakly metamorphic phyllite

dk-red grey

much qtz + siliceous

F3 upper 50m

Reddish siliceous phyllite X cutting

qtz incl 9 spec X15

E1 Frozen till under muck 30 cm deep

Downhill North 0 m

380 E2 Clay cps phyllite same siliceous

no round pebbles soil

660 E3 Clay + round pebbles some

very round most is clay phyllite

cps w much fine little sand

No loess in ring holes

black muck + till

930 E4 Clay sub clay cps phyllite

in clay with till 25 cm deep

10 cm arg

26

1210 E5 Under tip up Soil mound

2 cm phyllite lower qtz

1470 E6 Till same pattern organic fines
very red to 2 cm pebbles

w qtz, rubble

2000 level string near creek

North no chain

50m E7 Till Bear in hand Moose?

FA Silt big hand last scoop.

West of Camp

realt 300) Jackson E5 Screened silt

OC to top March qtz flt in ck

E6 RC pale green siliceous phyllite w
small qtz units + fr py.

fair amount thin type of flt.

E7 RC flt qtz vnd siliceous metam^c
v. low sd

OC to west is platy fissile green phyllite

silt w v minor qtz to a
few cm wide. No silice.E9 Screened silt silt + 2 cm
+ vnd pebbles 1 cm on till Bear Creek
more400m N of Fg on bench in slope
RC 2 cm bluish green siliceous phyllite

NEVILLE CHERRY INC. 471

27

Cribbed Camp

cross creek head up creek on NE side

200m 2 cm slab phyllite - gneiss

f. spec - chl camp = no siliceous as sp

250 open bank much gneiss + qtz subclan

much qtz w open drusy & lined vgs +

limonite limonite trace cancrum

820m Side trib^y no silt no chain

fired 200m up creek.

Continued to nose of hill + found subcamp

(lost the OC) flatish lying psammite @ 840

Schistose w v few qtz units X cutting

At level of bench that occurs in
area here to 1/2 way to truck

Going up main camp ck No silt.

1100m 2 cm black schist - phyllite dark

in creek subclan blk bio hbd qtz down

w microlitic cavity lined f. spec + qtz X

1210 Subcamp dark phyllite - schist

No water in ck. On NE bank

1300 N1 Till under 30 cm loess

top of bank much red pebbles same cl

Dry. Fairly fine but possibly colluvium

1580 on open bank much felsic schist w

N2 RC 1 cm blk subclan qtz w fine drusy
+ scoria almost black

28

N3 Qtz brown color (5)

N9 Qtz fac intense white (5) Rhyolite con.

1590 N3 Till - Colluvium some sand
much felsic schist w qtz veins
+ qtz Rnd + sub-ell bldgs -
pebbles

1600 Circle below dry w much
qtz bldgs sub-ell 5' to 7'

SE

1800± cut strike + bed SW 50-100m near
camp creek + flow SE again

1900 N5 Good compact dark grey fill under
gritty 30cm Top 5cm clasts
Round and pebbles Some sand
Most clay to sub-ell dark phyllite

2170 N6 Till good under tip up.
fair amount mud pebbles

2500 N7 Till fine grit compact high fines
pebbles + clay all small. on flats
Pine - willows

2800 N8 20 cm lens - cut
compact clay till some sub-ell qtz
pebbles. grey phyllite clay

3100 N9 10 cm lens than till very clay
some rd qtz. Till sample

NEVILLE CROSSBY INC. 471

29

3400 N10 Good Till under tip up

2' clay sub-ell some sub-ell

mod SE slope

3600 N11 Dry fill and sub-ell + sub-ell
Aspen mod steep hillside

SW 0"

300m qtz bldgs sub-ell sub-ell

600m waxy banded qtz from quartz

820m dark dry moss trail 11 @ 900

1000m N12 Till clay sub-ell clay sub-ell - clay
dry

NW 0"

300m N13 dry gn^{ss} grey fill (mixed w loess?)
mod slope

470 2 large milk white qtz bldgs

510 moss trail 1

560 1 large m w quartz bldg

600 N14 Till Same (loess?) clay schist
+ qtz 1 large w qtz bldg

N15 EC large qtz bldgs w ser-ell

900 N16 Rhy soil schist rubble

1200 N17 " " same remnant

5m clay schist lies over gritty soil

910 qtz bldg

LEVEL

30

1490 Qtz Mdr

1500 N18 Llan soil fill same

sub round qtz pebbles

1800 N19 Llan fill same road

most Llan top 5-10 cm

gritty silt below sampled

2100 N20 fill - Colluvium - Outwash?

Same sand sub md + sand + sub cla
pebbles

NEVILLE CROSSBY INC. 471

31

Lug Camp

NW

15 min ant. on flat bench.

Eskan runs 355°

+ 10m large 1m bls biotite qtz dls
w large 3cm fspn plains (allite?)

Sitting on flat benchland. c.g.

+ 15 min large 1m white qtz bls

~ 1 km to creek

N21 Silt good where creek leaves hillside
much qtz, qtz ser schist same w
lin Xantho. lines, dark phyllite
mining concentrate w qtz

Uphill NW 0m

350m end deep humus in birch-willow
forest.

N to 015°± 0m

50m N22 grey fill clay cps
qtz + grey phyllite. Some schist qtz

250 bls sub cla qtz ser "gneiss"

350 break in slope onto flatish upland

490 N23 Thin fill over Llan gneiss
phyllite w qtz. Dry sample740 N24 Soil Llan qtz ser schist
low limon trace + dots.

on small rise on plateau

LEVEL

32

890

N25 Orange soil Q ser schist
w much fine limonite

Difficult soil - could guess for
6 or 8 m with + assy coarse
100% clay frags

940

N26 Till excellent. Only to mine
clay sp. Most out to subm.

Gray bn clay rich

1210

N27 Till good gash gray bn
under 50 cm loess which is under
5 cm clay atz + schist (shale)
Till is very compact

(275)

0 m

260

clay rubble ser-shist

570

N28 Till colluvium? Some sand
clay to subm + pebbles

under 20 cm loess which is under
5-10 cm pebbles bound outwash?

960

N29 Till under 40 cm loess
under tip up at w end E-W "hill"

33

(200)

0 m

50 m

gully w water

300 m

40 cm loess over sandy gravel
outwash grey NS

570-600

clay blks felsic psammite
low fine limonite

600-

loess under 20-30 cm clay blks
felsic psammite low fine lim

710

50 cm felsic psammite low fine lim

760

N30 Clay soil clay to sub clay on
flats. Dry orange bn

1030

N31 Clay soil-till clay sub clay
shist schist psammite low fine lim
20 cm loess on top

1300

subcomp shist fsp schist flatish
lying

1360

deep loess N.S.

1400

clay blks shist

(SE)

0 m

100-300

many clay blks psammite
felsic. No fine lim

300

blks over in deep loess NS

400-550

paved over several small
benches

650

acres in wide mossy deep basin
willow valley

LEVEL

3A

1050 hit solid ground + ridge line
1100 N32 T11 below 70 can loose
clay rubble on surface.
fill road to clay caps
Soil = tall

1200 edge of hill

1400 2 holes deep loose NS.

1530 base slope

2000 standing down into prop

NEVILLE CROSSBY INC. 471

#1-20

1-20

July 18/99

PAKERS BACK

NE

35

1040 string line

Cross line from #2 9+10

1900' graphitic schist rock line

dip into NW NE/15° SE

2050 Biggs OC graph schist

No 1 of #13, 14 + 250 Dunes soil line

No 1 of #15, 16 + 300' lay OC schist

wavy schist

900 Soil-till line of Dunes

No 1 of 17, 18 + 100' OC to left

thin bedded phyll

530' string line Dunes

From No 2 10+20

NW 0 ft.

3030 back to N1 at 1+2
too far west body

Scraggie
Up fly flying with 5 end awing

+ 200m fld f.g. q3 dir - guess
along S side

+ 200m fld f.g. q3 dir - guess
with q3 kgm pgy in marsh flat

+ 200m fld f.g. q3 dir - guess
and 1/2 kgm pgy - 200m fld

+ 100m Z1 surfy spiny green
orange dring consistent

+ 50m fld f.g. q3 dir - guess
fuzzy soil "seen entrance valley"

+ 50m pgy v 1/2 kgm
seen q3 in clearing

+ 150m Z2 (good incised slit 100% cream)
scraggie

+ 100m + 23 have slope steep 100% white
q3 bld in etc 1m

+ 100m + 23 have slope steep 100% white
q3 bld in etc 1m

+ 200m Z4 Scraggie sit yard floor
on steep hillside

+ 200m Z4 Scraggie sit yard floor
all q12 - sea skirt in q13

+ 200m Z4 Scraggie sit yard floor
crack has narrow main etc

+ 200m Z4 Scraggie sit yard floor
slate top on 1/2 road

North Pacific Supply Corp. 47 Level-CBB

S/ant Schmidt pit
mining on lower level + 100m

Neon Morgan
Dawson

old Morgan showing
1993 staked by ?

q3 related to quarry
sluicing

Flash
valley in Talc

Neon mining on 1 level back Mountain
small quarry + two drains on Indian
River. Run ground covered through the town

NEVILLE CROSSBY INC. 47 L

38

+300m Z5 screened silt biggest clumped
 kind of bunch (100') above main cl
 climbed above this into cl
 much ser schist. Also other
 ser grains + schist

Same garnet

+100m clay blks at ser-fsps schist grains
 fresh to py same garnet
 all before orange withy
 Garnet hbd grains

+200m Z6 Serp 200m before nose of
 hill + big cl other side
 N steep slope (100') above cl
 on rise bto QF gneiss

+300m Z7 DRY silt 50' sometimes
 micaceous f.g. QF gneiss no matrix
 other banded grains Big trib? creek.
 No water
 minor qtz + peg

+150m hbd gneiss rubble

+100m garnet hbd gneiss + peg

39

+200m Z8 organic silt on slope hill
 across from trib? on N side main cl

+300m Z9 Screened silt Major wide open
 trib? from S. Main valley 200'
 wide below line for 500'
 Sample sandy much at ser
 schist

+600m Z10 unscreened silt. Orange cps
 + gtz cps Fine silt. Major trib?
 +50m f.d. gld rubble clay

+500m Z11 unscreened fine silt some
 org. All v fine yellow mud sand
 +50m clay blks pink gld gneiss withy

+100m Z12 Main creek All fine silt
 w some org. lying in coarse sandy silt

No rx. cl much smaller
 Found marked trail N side main cl
 distance 3rd post is dble

Yukon Place

Post NO 2

Station NO

P. 40035

Other Post No tag
 opp.
 There are opposite Z10 approx 150'

40

Z13. Main tnb from N
unsaturated silt. Fine silt + sand
w sand arg' in willow patch
OC along E bank flat hilly
gneiss gd.

Z14 Biggest tnb from N in willow
Very fine silt 'arg' silt on
mg gd clay lit not gneissic
some peg, some sand
thru up from last flood.

@ Cabin. No creek
Flt is clay size schist

300-500 m past cabin

Z15 Orange silty seep along
cut trail

41

Z16 Seepy silt just before 260°
hdg with 50m below
orange ss schist a granite cap
w qtz

Z17 +50m Fine silt similar lit
250° Filled w low buck brush

+500m Z18 265° creek / Fine silt orange
sand. schist a granite
1 km bldr well fld gd bank
200m.

+500m Z19 wide open creek w 2 bumps
in middle Fine silt
open meadow

+400m Z20 fine some arg' silt granitic?
and schist w fine cap

much hbd fspar gneiss Z20. to ridge
top drainage dry. Good gd rubble on
ridge. Gneiss to NW. Drop over dump to
mgt. hills where rubble is banded hbd fspar
gneiss w some mica + qtz. Fracture on
some hills

Z21 fine silt mica[±] silt in a / deep
strawberry vine? w frayed flow

42

+200m up over hill into main ck

Z22 fine silt

+300m + junction

Z23 Screened silt N. flung dirt

Sandy micaceous ³ Arved

schist, gneiss + intr. flt.

Some peg.

+200m bro hbl gneiss brecciated
blks.

+200m more intrusive det white
+ dykes of white intr cutting
hbl. bro gneiss. gde

+400m

Z24 Fine silt 200m from main ck.
Int. flt. cps

+21km Z25 Good fine silt some sand
much c.g. quartz to peg flt all
small, much pink peg
on hillside above. (flashes of
to Supper bottom and Z26 units)

43

Stevens ck.

200m up Stevens ck along recent cut and
big pond w push up gravel both ends

obvious bedrock blbed? + carb free silt
nodules(?) w qtz veins + hairline silica

Z26 R.C. @ ankarite lenses

+100m Z27 similar r.c. type blbed "andes"

micaceous brecciated qtz fspen gneiss with
 enough det to give overall green appearance
 fspen gneiss locally w pink Kspen qtz eyes
 there less so. overall fr stain

Z28 Silt fine same org, cps of
pallidish fspen qtz - mica gneiss +
schist. Finest det ck upstream

Z29 Next major trib to E

Fine silt gnd. Qtz - pink spon
gneissic cps. Some qtz cps.

On way to next creek an ascent hill
hbl gneissic gde dips gently into hill
10-30°

Into small pop - No water. Cps of
much fspen gneiss + schist + gneiss
Some qtz. all stained orange Z30 DET
silt

44

+100m Subcamp 41² hbd ± bio qd quartz
+250m OC " " " " " "

Next creek Z31, Scrapy silt good
w some org orange gneiss ffs
like before

OC in Sprague mouth stream
148/80 NE gray dark green
w pink schlieren, quartz + bands to 2cm
Dike 20m 135°/75 NE

Z32 - Z36 Variety of clay, act²,
kspn white, silice, qtz and w carb(?)
white schlieren from OC across from
Camp on E Zdenek's + Janis' camp

Z37 RC ripped Bedrock in old Reservoir tunnel
across from camp. Pegmatite w tree st.
qtz + act² (25)

Z38 Qtz and w high act² py cutting pegmatite outcrop

45

Summit Lake area

@ camp.

S. fin w west side ck off.

950' U1 Good silt fin to main ck.

100% clay argon + some gray with 9

sericite schist w 1-5' qtz

1200-1500 flat bench

2100' U2 Soil? all clay schist (seric)

+ qtz some seric schist w hairline

fract lin + some qtz w lin. One

very round blk gray seric schist

Some sub clay qtz rare pebbles?

50' from mine house

3400 U3 some org silty scap.

Qtz w hairline fract + schist fr

3700 brown shales up hill from lake

trib' often side + 300' ±

4200 U4 wet gray soil some subme

qtz pbbles. Mostly clay schist

mixed w org² + soil in burn

4500 Idg edge small knob Subcamp

metres v low from lin

4720' U5 excellent clean section silt

20' below spring in gully. Schist +

qtz esp.

46 often side waste in burn till - much
under material. Grassy meadow

300' SE

4900' U6 slightly sandy fill from
under tip-up. Oxidized top 40 cm.

Sample 50 cm deep grey bn. All
med, rare sub-clin, clasts varied
med, gd.

6150 U7 Good fine silt mantle
W bank in burn

U8 East bank excellent silt in burn

both in solid till area

6470 U9 2 cm blck silic^d qtz med (?) (S)
pebbly SS dark grey.

7170 U10 Sucky silt on hillside
excellent fine. Probly till silt fraction

7770 U11 Sandy fill unstratified
qtz, inter., other med to sub clin
sub 2 cm in fig. unmeta sed SS - weak.

058° 0 ft.

700 tip up much unmeta SS some dust pble cgl.
minor schist. Some qtz

1270 tip up top also unmeta SS

U12 wet fill 50 cm deep little sandy
unstratified. Rnd to sub clin pebbles
some qtz throughout

2200 edge of burn

2570 muddy bldry organic to 60 cm
2 cm blck waxy med chert pble cgl.
hit ice button hole

3330 U13 Till after 2 more attempts.
Orange ox^d under 20 cm loess
+ 5-10 cm arg^l. Silt^y sandy
much meding some 2 cm 1 pie
2 cm diam. ing.

3920 tip up w silic^s psammite, qtz,
schist, vc (unmet) others

4700 U14 Till same sand grey bn
under orange bn ^{ox^d} till Much
med + sub med ~~others~~ cobbles

(U15 rk chip c. argill since 2570
rusty chert pble cgl. black (S))

5030 Cracked no silt

then willow patches

6020' U16 Good silt^y sandy fill 60 cm ^{deep}
by first pine trees

7200 edge bank w view of ck
flat pine behind

7600 U17 grey bn fill on steep
bank

8500' middle flat pine bench w
50 cm loess-silt

48

9170' V18 till under 20 cm silt
 + mixed silt-till 60 cm depth
 sub plan & drier? + presumably

OC Chl. fsp. schist just w/ medium
 @ top of "canyon"

(1) On way down creek from fairs passed
 over good till
 1/2 way to V19 plan white dark phyllite
 with banding from silica
 V19 Excellent silt. seric schist + much
 qtz. Same till below

906
375 525

49

0m edge Sample

[E] 0m

85m & Arthrop N end 100m N
 230m edge gravel at base "creek" fan

sharp area at Ridge
 285 creek @ N end fan

330 into bench

350 @ back of bench

375 No 1 Run RUN 1+2 SEIT 9/99

@ 0m at y-stake above 9:30 am

[W] 0m

170m ± up slope toe of bench

525m No 1 Run RUN 3+4 Sept 10/99

[W] 0m

450 No 2 3+4 etc. found

875 Soil line between Y77+Y78

900 Probs

985 damp Seep silt No incised gully

1070 top of gully into ck

1150 creek 100% clay Ksp. atz

Regimental w. microlite qtz

+ 1% dk grey clots w. Sp?

1200 clay blades per. Ksp. qtz + bio

50

1295m 487 + 488 5m left (W)

1350 No1 Run Run 9+10

1400 weak clean bench

1690 strong low soil low Y sample

15m ahead to W 493

"bench" sat at end here

2010 Ck 1800 posts

→ Cg big granules to peg.

2140 top of bench into ck

2250 posts

E 0m

130 only top of bench

200 into real bench

360 big into ck hd in ck

415 top steep bench into Sample
trib ck 15m N430 bench slope into pushed gravel
glut below current mine cut

480 top bench into drain

C No 2 Run Run 1+2 No 1 13+14

W 0m

200' fan side of camp @ edge of valley

370 ck hbd gd - granite? fol

w peg dikes fair

58th 90

Sept 14

51

11

12

19

20

9

10

17

18

Sept 14

7

8

15

16

Sept 10

Sept 10

Sept 10

Sept 10

5

6

13

14

Sept 10

Sept 9

3

4

1

2

Sept 90

Sept 9

Lug camp up rd along N side Camp Creek.

+ strong hbd + hbd granules w local peg some areas
much peg. Elev 200m + lower gully alt.

(drive to west bench alt.)

340m trace xpd + xpd alt (break of surface)

granite is tilted + hbd - bio

900m same. OC huge steep hill w rd

leave rd here

1250 dry gully

1500

" " more deeply cut - no fines

2220

dry mossy grassy gully No "

2350

peg OC sandy benches look granite

2400

2 poplar stumps cut by fire old

2500

mossy grassy gully

NEVILLE CROSBY INC. 471

62

- 3100 RL mit fork
 017 coarse sand granitic and
 fine silt some org. in within
 3185 end thin sample
 3580 018 bigger fnd to SB
 (Picture) sand + org. + silt on top
 4300 019 coarse granitic sand overlain
 by v fine (org.?) silt
 4730 020 coarse granitic sand overlain
 by v fine (org.?) silt
 4990 silty silt with 15% blk & gd w cpd
 5870 021 Very clean fine sandy silt
 peg + granitic phibolite
 6310 022 clean till some moss mat
 peg, granitic - gd + schist?
 subsoil bio gd - granitic
 023 Scurry silt 50m S of
 No 1 Post Run Run + 2

53

@ N end airstrip LIL

WAT 0th
 450m Y 62

600 claim line NS mile

840 peg O.C. 30 cm Xanth

schist v mkn. qtz veins

X1 dry silt below O.C.
 (Cant find) fine pink ribbon No stones

50m X2 red bn soil rky.

100m X3 v fine silt

150m X4 v fine dry v rky same org. silt

200 X5 v fine dry pale bn grey soil

A horizon?

250 X6 bn soil clay rky

300 X7 damp med bn rky soil

350 X8 very rky soil

355 peg b'ch

408 X9 Rky soil

455 X10 wet Rky soil close to ridge

504 X11 Br rky soil Same bn decomposed

507 7 large peg b'ch 1m

550 X12 wet mica rich bn soil

600 talus peg No soil

625 + 650 - talus " "

675 talus w wet humus peg cps

725 " + spring dry w humus + peg cps

NEVILLE CROSSBY INC

54

- 720 X13 Scep. silt running
 Bn org' sandy seep. No soil
 talus under mass
 860 talus under mass
 890 (X14) Silt mass ck 100%
 Kspn w atz peg Good first
 all orange - wchy bn
 940 X15 dry sand and gritty soil
 @ base slope
 990 X16 dry rky gritty soil
 steep S facing slope
 1020 peg block 40 cm
 1040 X17 dry bottom 1/2 rky top 1/2
 red bn fine no grit
 1090 X18 rky soil beneath red
 non gritty B? horizon
 1140 X19 dry yllw - rky soil under
 red B? w no grit
 1150 X20 reddish B? soil ym m m grit
 1240 X21 Yllw bn rky soil
 LUNCH No "3" in hole
 1290 X22 Rky (B?) yllw bn soil
 1350 X23 Rky (B?) soil
 1400 X24 Rky gritty soil
 1405 Peg block

55

- 1450 X25 Red soil Gritty rky in bottom 1/3
 1500 X26 Gritty rd bn B. soil
 1530 subhp peg + bld
 1550 X27 gritty soil nose of hill ±
 1570-80 Peg bld
 1600 X28 gritty orange soil
 1650 X29 gritty phly soil
 1700 X30 rky gritty soil
 1750 X31 " " "
 1800 peg bld w soil
 1845 X32 brown rky gritty soil
 1910 peg bld no soil

@ X31 (Dumb W) 400m along hi
 430 m clear line
 clear part 15" N

56

Malkula

leave ATV (10:15 am)

(020° ±) 0m

1350 hit major E flung into

dead water in leeward LL bank

direction 100m to flung etc

with trib' coming out of bank

(X33) silt below falls v. fine

some sand + some org'

fl't is all granitic w some peg

3380 (X34) silt fine same org'

minor persistent granitic sand

No pebbles. Banks at dc show

silt (less?) About 300m

up the trib' etc.

Banks of hillside on way here

were granitic. (e.g. g.d. to

g.g. m. w. h. d. b. b.)

Mudies fresh. Common to

silt granitic sand on hillside

5470 (X35) Main creek silt

Fine silt very little coarse sand

• minor org'

67

5930 W bank ad. foli'd white granite go

grains out by vent 1m peg dyke

6200 (X36) Fine silt w. flow' trib'

6870 (X37) " " main ck above

vent trib' from W (2:30)

(Contour + climb SW) 0m

6990 oc white granite top 0m

400m and no water in creek

Set 0m (Contour + climb)

330 oc white granite

1000 oc " " area

1870 ridge [S] no 0m

1920 oc granite on SW rim of
ridge looking across at other side ck

1900 ck no water [dam] no 0m

2220 oc white granite L Bank

3050 no water [S]

(5:45 pm road + ATV) in rain

58

@ No 1 Run Run 17+18

35m creek

X 38 excellent fine silt up to 200m
nothing coarser than sand

[N]

v. minn. organic

250 blue peg

260 blue c.g. pink fsp. qtz many-jd

300 subcomp feld qtz many c.g.

395 oc feld bio-hbl c.g. qtz many
10-15% C.T.

450 pecks

675 X 39 excellent silt same sand same org.
broken to 1/2 fist size peg + aplite
some c.g. qtz many
specimens of aplite

922 many peg blue to subcomp

950 No 2 18+20

[E] sidehill

300m ± c.g. qtz many.

X 40 Excellent silt - coarse granitic
sand + silt

subcomp by ck c.g. qtz many
15% C.T.

X 41 other trib @ base of valley
Good silt

59

just below fork

much peg; some minn. aplite

fair c.g. qtz many little all before

X 42 Silt N. fluv. trib 1/2 way back to
Scaggie much peg c.g.
Main ck 70% c.g. qtz many
30% peg

X 43, 44, 45 Rx taken from
colour zone along ridge road
Walthalla - Scaggie camp just
N 1/2 km ± from outlook peak
other similar colour zone along
road with sampled like north of
outlook

60

Head up rd. behind camp

@ 340m pt. few days ago where
string leaves rd

Set 0m

485m X46 Soil along rd pale grey

beneath rich br B horizon

cps on rd alt. intrusive same peg

550 X47 rich br soil alt. intrusive cps 100%

same blk in rd bed at bench

intrusive.

alt. Rk has gummy br grey column

f. spars. is much trace minerals

600 X48 Soil rly alt. p.c.

f. mineral + dirty f. spars.

650 X49 Soil rocky subcomp intrusive

675 fresh intrusion (low trace) rubble

subcomp?

775 aplite Lwr rubble w. intrusions

mixed qtz red and black

820 Start all dark rubble + qtz

100-1100 or bigger waste alt. massive w

aplite not much peg here or below

1230 fresh intr. q.c.

1370 fresh q.c. @ small perchment @ top
of steep hill and climb

61

1480 string and

1975 clearing by digger w. aplite rubble
very little peg rubble along rd

2300 clearing to N by digger

intr. q.c. w. basic dikes

2650 base of 340' ridge

q.c. intr. point 350m

2850 310' much felsic rubble

2.1m. Alkali qtz rich (5) 2800

2930 X50 Soil

3110 start intr. rubble with peg

+ felsic f. g. to mag. int.

3250 divide top

3300 much peg rubble some intr.

3750 near mtn top felsic mag.

albite like brn some peg + intr.

3990 lookout N end intr. @ perchment

to west + been on rd.

intr. w. peg

4200' corner all brn mixed intr.

then just intr. to bottom of hill

@ 4330 then peg blk + mxd intr.

peg = felsic

Wadja

62

4900	X51	Soil on line? under line	
		all water → line	
4950	X52	Soil under cable line E side	
5000	X53	" " " "	
5050		less water.	
X54		Rd. from cut below camp	
		yellow oc patch.	

Sampling JEZEK claims.

At NO. 1 Post JEZEK 27/28
headed NE for approx 1000m

- D 110 v. f. gr. silt from med. creek flowing
W.

Float mostly rounded

- 30% dk. green black pyroxenite?

- 40% brown-green phyllite

- 25% dk grey hornfels w. small

qtz fractures - minor sulfides < 1%

- little to no gte. Abundant

headed N

- approx 200m

D 111 v. f. gr. slightly muddy + organic
silt from sm. creek flowing W.

No float in peak.

- continued NW next to Q

- 300m Small organic creek - no silt.

- 500m started up hill.

At main creek where JEZEK 27/28 claim line crosses

D 112 f. gr. silt - float ~ 50% phyllite

50% rounded - minor qtz

from 30m downstream from claim line.

At claim line just upstream from D 112

135°

= 200m D 113 brown grey "oogly" soil
from under tip up (partial permafrost)

- Sample Depth 45 cm below organics

Soil has consistency of corn starch - water paste

- Only float is 2 small sub-angular chips of gtz

[180°] reset to 0m

305m D 114 yellow brown silty soil/fill
w. lots of rounded & v. float - minor
angular phyllite. Depth 45 cm

570m hit E-W cross line to JEZEK 43/44

630m test hole no sample - 15 cm grey silt over
black mud

670m " " straight bl. mud

780 - 1000m boggy area - several feet of permafrost
at surface

(Note: nearly flat to slight up slope from
450 - 750m then slope steepens slightly
but still boggy bl. spruce)

970m small creek flowing NW (slow flow)

good silt. D 115 sieved silt to #25 mesh

approx 1/2 bag of sieved silt

40% crs. float gtz

60% phyllite

- 1050m D 116 grey clayey semi-brown
fill w. 10-15% sub-rounded gtz 50%
mixed rounded float, 30-35% phyllite (ang?)

- 1100m D 117 brown soil with ext. angular
phyllite fragments ~ 5% sub-round gtz
- some phyllite fragments silicified

(from small NW-SE trending hill w. thin
caribou moss cover)

- 1185 D 118 similar to 117 only more clayey
with less rock fragments some rounded
could be partly fill

- 1310m D 119 grey clayey fill - minor
angular fragments - most float very small
not much float - thin Caribou moss cover

1590m D 120 grey clayey fill - lots
of rounded float - some gtz
approx 5% of float is angular phyllite

1920m D 121 same as D 120 only less
float - lg subangular float near surface
of dk grey green weakly siliceous phyllite

2200m D 122 same as D 121

2260m break in slope - steepens to S (15-20°)

2500m D 123 grey brown clayey fill

- depth 60 cm still slightly oxidized
- 20% ang. phyllite float - most at surface - rest rounded

LEVEL

A

- 3200 m hit main road approx 200 m E of JEZEK 17/19 claim line

ROCK SAMPLES

- D 124 outcrop of massive qtz w rusty fractures w muscovite along fractures

- qtz o.c. in contact w. grey-brown phyllite. located on top of small hill 250 m N of JEZEK 24/22 NO. 1 Post.

- continued N. for 25 m - on slope facing main creek

D 125 - outcrop of strongly silicified phyllite w. limonite fractures and massive qtz spots throughout. Original rock texture overprinted by pervasive silicification

- D 126 - 400 m S of JEZEK 43/44 NO. 1 Post. sub crop of silicified psammite w. limonite fractures (start of numerous small o.c./subcrop of psammite over several hundred metres)

400 m S of NO. 1 43/44 siliceous psammite w. limonite 2nd

1250

5

Sampling JEZEK Claim Block

- On Claim line 250 m N of JEZEK 21/22 NO. 1

- on top of small hill with o.c./subcrop of massive qtz and silicified phyllite

D 127 yellow brown silty soil

[090°]

- 20 m D 128 angular float/subcrop of strongly silicified phyllite. Pervasive siliceous + 1 cm qtz veins

- minor specs of pale green alt. mineral

- 28 m D 129 red-yellow brown silty soil - angular phyllite rock near surface

- 62 m D 130 grey-yellow slightly clayey soil - small ang. chips of phyllite

- 110 m D 131 Same as 130 - surface layer of soil contains angular ^{W. siliceous} chips of qtz + phyllite. 10 cm is fine silty loess (sampled upper level)

Back at D 127 [270°]

- 8 m lg. subcrop/are massive qtz approx 10 m wide centered 5 m S. (D 124)

- 22-30 m 5 m high bluff of silicified phyllite w. massive qtz occurring in places 104/45 N

30 m D 132 red-yellow silty soil from against o.c.

5m N of D 132

- D 133 - o.c. strongly silicified
phyllite w. qtz veins up to 1cm wide
and open vuggy porous fractures filled with
qtz also numerous thin limonite fractures
35 to 100⁺m thick organic cover post o.c.

Back at D 127 - headed S along stream lks.

180°

- 35m D 134 grey clayey till with
small sub round qtz float and larger
sub-round phyllite flt.

Back at D 127

180°

- 20-30m o.c. bluffs of silicified
phyllite with qtz fractures + veinlets
+ limonite fractures (D 125)
30m - D 135 red yellow silty soil from against o.c.
35-100⁺m thick organic cover (lt. sparse)

NEVILLE CROSSBY INC. 471

At No. 1 Post JEZEK 28/30

180°

- 17m D 136 sub-angular float of
massive qtz in graphitic schist w
strong limonite alter^c

D 137 grey clayey till - sub-ang.

phyllite to rounded pebble size flt.

50m ~~reset~~ reset to 0m started continuing
to WSW

- 250m D 138 grey clayey partly
brown till - mostly small rounded
float (some qtz) minor angular phyllite

- 490m D 139 grey-brown clayey mixed
till/soil → all fragments sub-angular
phyllite.

- 750m D 140 same as D 139

- some sub-rounded qtz flt.

- 1010m D 141 grey clayey till

- no much float ~ 1/2 rounded 1/2 sub-ang. phyllite

- 1270m D 142 same as D 139-140

- 1535m at JEZEK 9/10 NO 1 post near

10m N. of post - D 143 grey till - rounded mixed flt.
some massive qtz + silicified phyllite

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8

- D 144 sieved silt from Field creek
- approx 15m upstream from
- JEEB 9/10 claim line.

At No. 1 Post JEEB 9/10.

[180°]

- 285m thick loess - no sample.

- 300m [138°]

- 450m thick loess 90° cm.

[180°] reset to 0m

45m - D 145 silty till - 40cm to greyish
yellow layer - abnd. rounded
qtz + phyll. ft. some angular phyll.

- 350m thick loess 90° cm.

- 372m D 146 same as D 145 only not
as much qtz ph.

- 670m D 147 same as D 146

- 1000m D 148 grey clayey reasonably
good till w. rounded - angular ph.

- 1300m D 149 yellow grey silty till/son.

- abnd. angular phyllite frags.

- lesser rounded ph.

- 2170 hit main road

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9

MINTO CREEK AREA

- On Minto Lake Rd 750m E of
- W. edge of map. (1:50,000)

- [190°]

- 350m crossed Minto Cr.

[180°]

- reset to 0

- 700m large tributary flowing N
- B1 sieved silt - float in creek

80% psammite phyllite to more
chlorite schist - some siliceous

5-10% massive qtz boulders
up to 30cm diam.

5-10% green porphyritic andesite

10m upstream blue/orange flag with

22349 - this years flagging

- reset to 0m [180°]

0-25m following creek

- 100m test hole - outwash.

- 180m " " "

- 360m test hole - loess to 60cm

then frozen - some pebbles starting to
show at bottom

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10

- 510m on 20m wide linear
hill (290°) — ^{sandy} outwash to 70cm depth
- 530m (beside rsh) outwash
- 590m outwash
- 625m blocky spurs ~ 20cm into permafrost
- frozen silt/clay - no pebbles
- 850m T1 sandy till from 1m
depth under top-up rounded floor
from pebble to 30cm diam.
- minor angular phyllite.
- 1120-1350m talus of rhyolite xtal.
fill w. 1-2mm phenos of qtz + biotite
- very fresh → little alteration → O.C. bluffs
of same approx 70m to E+S.
- 1200m B2 yellow silty soil from
within talus
- 1260m B3 "
- 1320m B4 "
- 1350m end of open talus (true moss cover)
starts
- 1385m B5 yellow silty soil -
angular rhyo flt.

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11

- 1440m B6 yellow silty soil
- B7 ang. flt. rusty altered rhyo.
~ 2-3% v. fgr. diss. sulfides →
biotite + feldspar minerals bleached w. some
leaching.
- 1505 B8 yellow silty soil same flt.
as B6
- 1565 B9 yellow silty soil
- subcrop of weathered rhyo
- 1630m B10 reddish yellow soil
- mixed float - ang. rhyo + siliceous
phyllite w. some rounded flt.
appearing (partial till mix?)
- 1710m B11 same as B10
- 1775m B12 reddish yellow soil
mostly angular rhyo w. some phyllite
- 1850m B13 brown slightly clayey
soil - mainly angular rhyo flt.
- 1925m B14 brown silty soil
angular rhyo flt. - steeper slope.
- 1990m B15 same as B14
- some rounded flt.

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B-16

2065 brown grey slightly sandy
soil w. ang. rhyo - minor amt
of mixed rounded flt.

2145 B-17 same as B 16

2210m B 18 grey brown silty
soil from against sub-crop rhyo.

2290 B 19 grey brown silty soil
- abundant angular rhyo. fragments

2365m B 20 same as B 19 some sub-round flt.

2440m B 21 " "

2515m B 22 grey brown soil - angular
rhyo. flt.

2590m B 23 " " " "

2620m slope flattens into valley

2700 dry creek

2830m B 24 fgr. sandy silt. - no large
flats but sand particles look like
rhyol. dominant.

2825

3092 at ^{N-S} creek - dry

headed upstream

3200 pools of water in creek

3250 med.-cns gr. sandy silt. B 25
 >50% blocks rhyo. floor in creek

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13

CANYON CREEK AREA.

ON N. side of Wareham Dam

- From NW edge of gravel pit.

headed approx. NW

- 1600m at edge of valley going N
into Canyon Creek (produces bend in creek)

Outcrop of 60+ cm. wide qtz. vein w.
rusty fractures B 26 edge areas of
vein indicate phyllite/schist w. silicification

and chlorite flt. B 27.

B 28 - fine silty soil from against o.c.

- Started down steep slope to canyon creek.

- 20m from B 26-28

- outcrop of pale limonitic schist.

w. qtz. veins parallel to foliation from

2cm. to 30cm wide - limonitic fracture
in qtz. veins and host rock (vein + foliation
often appear
180/15E)

B 29 red yellow soil from just below o.c.

- 45m outcrop of foliated pale grey schist/phyllite
(more quartzitic in appearance) No qtz. veining

- 160m at Canyon creek. approx.

150m down stream from center of
S. valley. B 30 sandy silt.

Large angular floor of schist/phyllite.
10-15% massive qtz.

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14

- headed N out of creek (reset to 0m)
- 90m B 31 brown silty soil
 - org. bleached phyll. flt.
 - started contouring to W. (reset to 0m)
 - 45m o.c. rusty silicified phyllite
 - W. qtz. veins along foliation up to
 - (B-32) 20 cm wide - Qtz veins rusty w.
 - minor amrs. fine grey silicides and
 - visible golem in hand specimen
 - B-33 whitish soil from below o.c.
 - Foliation attitude approx 050/15-20° NW
 - 55m 5m wide o.c. rusty phyllite - no qtz veins
 - evident (slightly down slope from B32 o.c.)
 - < 100m B 34 whitish brown soil - abundant
 - angular phyll. fragments
 - 125-140m several angular boulders of
 - rusty massive qtz. w. 1-2% grey silicides.
 - 150m B 35 reddish brown soil
 - Abse. near apex of linear N-S. ridge.
 - 200m B 36 whitish red soil
 - angular silicified phyll. flt.
 - 212m B 37 90cm x 60cm angular
 - boulder of rusty qtz. w. v. f. diss. grey silicides.

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- 240m qtz boulder like B 37.
- 250m B 38 whitish brown soil
- 265m B 39 rusty qtz. boulders w.
- fine silicides ~1%
- 300m B 40 whitish brown soil
- 320m slope flattens out.
- 350m B 41 whitish brown soil
- abund. angular phyll. flt. minor rounded flt.
- 400m B 42 " " "
- 450m B 43 red-brown silty soil
- 465m sub-crop 10m up slope of
- weakly hematitic lt. brown phyllite.
- 505m B 44 brown slightly sandy
- soil - mix of rounded + angular flt.
- 635m Talus subcrop of rusty silicified
- phyll. w. qtz veins up to 40cm wide.
- w. rusted out vuggy areas and fractures
- minor fine diss. grey silicides B 45
- B 46 whitish brown soil.
- NOTE: Talus subcrop extends for approx 50m
- up slope. - approx foliation attitude 040/75W
- 1070m Creek valley on N. side - dry.

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16

Started dropping down to Canyon Creek

1160m outcrop of chloritic phyllite

little to no qtz or rhy

-1200m B-47 - scoured silt Canyon

Float mainly angular light brown phyllite

<5% massive qtz flt.

170° reset to 0m

- 60-70m o.c. phyllite

775m T2 - slightly sandy till

w. lots of ang. phyllite float.

100°

300m sub-crop phyllite

450m "

590m T3 till w. lg ang. flt.

of phyllite at surface

990m T4 till - some ang phyllite

1290m T5 Till from lower

slope of still quarry

130°

1700m T6 grey clay till (slightly sandy) ^{all rounded}

2100m at edge of quarry on valley

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CANYON to MOUNT CR.

17

) At Outcrop bluffs just ESE (50m) of

B 29 - grey green chloritic schist

- not much qtz or silice

) foliation attitude - 037/10-SE

At B 32 315°

) 70m B48 sub-crop blocky, rusty silted
phyllite w. limonite fractures

B48 10cm wide qtz vein // to flt. with vuggy

limonite zones X-fracturing w. rust + blk. sulfides

along fractures

- 420m T7 grey brown clayey till

90% flt. rounded mixed - 10% sub-rounded

rusty siliceous phyllite

) - 790m T8 same as T7

- 1320m T9 good till from below 40cm
toe

- hill flattens out

) reset to 0m 060°

- 200m T10 same as T9 some

rounded - sub-rounded rusty qtz flt.

) - 400m T11 same as T10 - more rounded

qtz float

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- 600m T 12 same as T 11 - some sub-angular rusty phyllite flt.
- 800m T 13 good fill - almost all rounded flt.
- 875m on top of slight hill
- 970m subcrop of bleached limonite weakly silicified phyllite w. ~1% v. gr. diss sulfides
- 1005m T 14 good fill - some angular phyllite float.
- reset to 0m [315°]
- 200m swampy area
- 370m angular rusty qtz float on surface - also angular phyll.
- 400m T 15 fill/soil mix - mostly angular phyll. flt.
- on surface 30cm ang. boulder of (B49) rusty qtz. w. 6. gr. diss sulfides + fracture
- 780m T 16 partly frozen brown fill/soil mix - rounded + ang flt.
- 875m at creek valley shown on map
- 1100m T 17 brown grey very sandy fill (could be mixed loess) depth 110cm then frozen

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Note. First 20cm capped by angular float of rusty ^{rusty} rhyolite then 90cm of sandy material with decreasing size and amount of ^{angular to sub ang.} rhyolite flt.

- 1150m rhyolite subcrop - appears ^{slightly bleached}
- 1225m - small muddy creek - no silt.
- 1420 T 18 whitish orange soil-like material - appears to be rhyolite strongly weathered in place.
- top 20cm loess below to a depth of 120+cm weathered rhyo. - angular pieces of intensely weathered rhyo appear throughout hole.
- reset to 0m headed N for 500m then angled to NW to hit creek.
- 600-700m outcrop subcrop on steep slope of rhyolite.
- 1125m B 50 fine sandy silt from creek - float almost all rhyolite.
- some small phyll. chips in silt.
- Blocky talus slope of rhyolite on W side 25-150m up stream.
- 2300m - hit main creek.

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CANTON to MIMO CREEK

- At Wareham Dam [360°]
- Outcrops of phyllite - weakly bleached + rusty. Al^{2+} @ 090/10 N
- Esker due NE-SW - same
- Feature continues for over 1 km to SW
- 400m starting down steep slope into Canyon Cr. - sub-crop bleached phyll. large cliff of weakly rusted outcrop on opposite side of creek at approx 340°
- 550m at Canyon Cr.
- B 51 fine sandy silt.
- almost all float is phyllite. most unaltered some weakly bleached.
- minor gtz float mostly small sub-rounded pieces

[350-360°]

reset to 0m

150m-250m angular rusty gtz boulders start to appear on surface.

160-200m outcrops of weakly bleached phyll. - no gtz in outcrop.

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21

- 250m slope flattens out.
- 400m T 19 grey brown sandy fill - all float - rounded + mixed - depth 100cm
- could be outwash by ~~glacier~~
- 825m T 20 grey brown sandy outwash fill from 130m depth - some angular phyll. and sub-angular gtz towards bottom of hole.
- 1200m T 21 grey brown clayey fill - mainly rounded mixed fill - depth 70cm
- [030] reset to 0m
- 170-200m - subcrop of light brown rhyolite intrusive with 2-3mm phenos of weathered K-spar.
- 380m T 22 grey clayey fill - some angular phyllite fill.
- 760m T 23 brown-grey sandy outwash fill
- 1200m swampy area - flat black spruce ^{to brown}
- 1230m perma frost.
- 1540m T 24 brown grey fill (basal)
- 1630m subcrop unaltered phyllite.
- 1900m T 25 brown grey slightly sandy fill

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22- 2060 ^{small} dry creek

- 2310 T 26 brown sandy outwash/HI

- 2665 T 27 brown grey sandy fill

- ang. phyll. flt.

- 3030 T 28 brown grey sandy fill

- 3360 at Minto Creek

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TALBOT LAKE AREA

ON 3091 creek W. fork approx

50 m upstream from Y junction

C-1 f.g. sandy silt

50% float consists of angular grey to green phyll/schists with rock work
large qtz veining ^{minor} crust.

40% floor more rounded intermed.

to med. vx (tuffs?) also with

shale. qtz veining that are 1/2 of fl.

10% larger sub-round qtz boulders 50 cm
diam with weak rust

headed E for 40 m to E fork of
creek C-2 f.g. silt. smaller creek
but has similar float

At 3500' elev. approx 300 m E of the
head of E. fork of "3091" creek.

[025] - On A-1 excellent basal fill from
45 cm depth - subangular qtz flt. 1-5%.

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- 385m A-2 grey clayey Hll
- lots of angular phyllite Pth.
- some rusty subangular gte
- 275-650m series of NW-SE benches
- 595m A-3 grey clay Hll from under tip-up.
- 880m A-4 grey clay Hll 50cm deep
- sub-round phyll & rusty gte Pth.
- 1180m A-5 good basal clay Hll
- some ang. phyll Pth.
- 1465m A-6 " " " "
- 1810m A-7 " " " "
- 2100m A-8 partly frozen grey clayey Hll - not much float - depth 20cm
- 2375m A-9 mixed outwash Hll
- Frozen @ 40cm

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TALBOT LAKE AREA

- ON 3097 creek W. Fork
- approx. 500m upstream from C-1
- C-3 sieved silt
- 50% float angular to sub-ang grey phyll-schist
- with interbl^a + fracture gte veins up to 1cm
- * C-4 - 30% ^{170 f.g. diss. py.} sub-rounded float. - dk grey f.g.
- diarite? w. cross-cutting gte veins
- * C-5 - 10-15% sub-ang to sub-round gte boulders up to 30cm diam. some weakly rusted.
- (None could possibly be mistaken for quartz)
- * C-6 - Minor embz. sub-rounded rusty (Rox) gte
- loaded upstream.
- 430m C-7 sub-round float of rusty massive gte with c.s. calcite veins up to 3cm wide intergranular gte. 2-3% coarse fracture pyrite.
- 475m C-8 f.g. sandy silt (not sieved)
- float similar to C-3 loc^a only more angular phyll & less rounded diarite?
- water drops flowing past this point.

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- 500-650m outcrops on both sides of creek - foliated light grey green phyllite/schist - nearly flat lying to dipping shallowly NW.
- 735m C-9 1m wide boulder of sub-round f. to med gr. light brown qtz dr. with a qtz vein (some along conjugate fractures X)
- 800- Qtz veins getting stronger in float.
- 820-860m sub-crop - outcrops of phyllite.
- 875m C-10 fgr. sandy silt, large blocks of float of angular hornfelsed phyllite some grey + lighter banded gneiss with extension gashes filled with qtz (approx 20° to fol^l)
- rounded to sub round boulders of qtz with 1-3% med gr. pyrite along fractures and (C-11) possible very fine grey siltstones <1%
- 900-1050m outcrops on W side of phyllite/schist (approx 045/15° NW) appears ~~with~~ hornfelsed in areas and often has more blocky gneissic texture.

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- 1360m C-12 fgr. sandy silt creek getting smaller - still similar float only much less phyllite and >50% round-subround light brown weakly foliated fgr. gneiss?
- 1090m reset to 0m
- 925m C-14 fgr. sandy silt from small creek flowing "N" good flow in creek - good silt. → float mostly phyllite and 5% qtz.
- sub-crop 5m upstream of pale green phyllite.
- 1050m at small creek flowing N
- orange organic coating in creek
- no silt - (note: smaller than C-14 but in deeper valley - appears to be location marked on map)
- headed downstream
- 155m C-13 fgr. sandy silt. mainly phyll - + qtz flt. - orange coating almost gone
- 190m at junction of creeks - W. creek 10x larger

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Phos in main creek similar to

C 3-12 creek - f. gr. dior (granite?) with

* gr. veining + angular phyllite w. gr.

and massive gr. flt up to 30 cm

= 630 m C-15 f. gr. sandy silt

- 1225 m at C-1

- 1300 m at creek junction

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CROOKED AREA

W1 - S fork in headwaters of main

creek - flowing NE into Crooked Creek

f. med gr. sandy silt - small creek but flowing

- floor mainly phyllite, granite, minor gr.

W2 - tributary ^{1 km} NE of W1

Not flowing but pools of water

- good silt f. med gr. - float sub-angular

rusty gr. v. leached at siltides (W4)

- rounded floor of granite - granodiorite

W3 - Camp creek approx 500 m NE of

W2 med-grs gr. sandy silt from pool.

- sub-round phyllite, sub-angular granite

and > 10% gr. float weakly cemented

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CROOKED AREA

At W3 (Near Camp)

10800 approx 800m dry muddy willow area.
- no creek

1050m 050 road to 0m

- 575m W5 - rock chip from large angular

float of silicified schist - wiggly rusty

areas (<3%) - 2 cm wide gtz veins

cutting across schistosity - minor rusty fractures

- 720m W6 - rock chip from 40+ cm

wide angular flt. of massive gtz

w/ leached out wiggly rusty areas - some

visible partly rusted py. cubes 2-3 mm

- 745m - 20m down slope

W7 sub-crop of silicified schist

- strongly bleached in contact w. rusty

massive gtz. - leached out sulfides in

both schist + gtz.

W8 brown silty soil near sub-crop

- Note approx 50m wide circle of gtz rich schist
Sub-crop - some places graphitic schist with py. cubes weathered out.

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32 - 770m - started downslope

- 800m sub-crop - less altered schist

- 860m W9 brown silty soil

- angular, graphitic and 11/16 schist

140° reset to 0m

- 97m W10 brown silty soil against

40cm wide angular float W11 - strongly
rusty silicified breccia - rusty matrix (70%)

around angular silicified fragments (30%)

- 200m W12 red-brown silty soil

- several ang. silicified rusty fragments

- 300m W13 brown silty soil

(slope flattens @ 300m) - angular flt. 11/16 schist w. weak rust

- some siliceous schist - minor rounded flt.

- 400m W14 brown silty soil

- rusty angular schist flt.

- 500m W15 mixed soil/Hill ~ 50% angular

schist 50% rounded flt. - clay in soil

- 605m W16 mixed soil/Hill → clay rich

soil ~ 70% ang. schist 30% rounded flt.

- 705m W17 same as W16

- 10cm ang. flt. of rusty silicified

schist + qtz

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- 800m W18 same as W17

- 20m upslope to SW is an

W19 outcrop of ^{silicified} rusty bleached + sericitized
schist → foliation 020/15 W

- 820-850m following along o.c. bluff

- 905m W20 red brown silty soil w.
ang. rusty flt.

- 920m started dropping into creek

- 1000m W21 brown slightly clayey soil
ang. float W22 strongly rusted
silicified breccia

- 1010m 3m diameter sub-rounded erratic
of crs. gr. biotite + qtz granite.

- 1100m W23 red-brown silty soil

- minor angular rusty schist flt.

- 1125m W24 lg angular boulders

under tip-up (sub-crop) of strongly

rusty bleached, silicified, qtz sericitic schist w.
strong fracturing - fractures up to 1mm wide
rusty soil.

- 1150m at creek (dry)

- 1200m second small dry tributary

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1220m W 25 red-brown silty soil

- some rounded flint

- back at main creek - headed down stream

- 200-220m rubble-sub-crop + outcrop of

rusty qtz-sericite schist w weak

limonitic fractures

- 250-500m numerous sub-crops - outcrops

on NW side of creek - Qtz sericite schist

with some qtz veining + silic² in places

and minor limonitic fractures

- 100m S. of soil line

W 26 f-med gr. slightly muddy

silt from small pool of water

arg float of severely rusted

and silic² qtz-ser. schist.

Continuing sample line

- 1315m W 27 grey clayey till

- 1450-1650m subcrops qtz sericite schist

- minor qtz + rust.

35

- 1620m W 28 brown silty soil

from ~~near~~ ^{near} sub-crop of

qtz-ser sch. → arg. float rusty qtz

+ strongly rusted schist.

- 1738 W 29 brown silty soil

arg qtz-ser. sch.

- 1890m W 30 brown silty soil

near sub-crop of rusted, silic² schist.

- some massive qtz

- 2000m W 31 grey slightly clayey soil

- arg. float of graphitic schist.

- 2105m W 32 grey brown silty soil

- arg flt. chloritic/graphitic schist

- 2125m center of small gully

- 2200m W 33 same as W 32 (MS)

- 2310m W 34 " "

- 2415m W 35 " " "

- 2505m W 36 " " "

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CROOKED AREA

At camp on W3 creek.

080°

- 850m dry creek.

- 1100m reset to 0m

135°

- 0m W37 grey-brown slightly sandy
basal till - all float rounded mixed
(50cm depth)- 1 piece 15cm sub-angular float of
dark/light banded schist with minor
qtz veining and weak rust

headed up 10° slope.

- 250m W38 grey brown basal till (50cm
depth)

- 5% rounded float rusty qtz.

- 455m W39 - 1m wide sub-angular
float of silicified, rusty schist?

2% v. light disc sulfides most leached out

1-2cm x cutting qtz veinlets

- 510m W40 grey brown clayey till - not much

float but most rounded qtz (80cm depth)

- 600m slope starts to flatten out

- 750m W41 grey slightly sandy till

5-10% rounded rusty qtz. All (till/overwash mix) depth 60cm.

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Flake mixed - garnetiferous, gneiss
schist. Minor amount of

Sub-angular, rusty, chert pebble breccia with
Silica fractures cutting matrix & pebbles. (HS)

- 1000m W 42 - grey clayey basal hill

- mixed rounded flt. - 5% rusty qtz

- 1250m W 43 same as W 42

- 1500m W 44 - grey brown silty flt
below 80cm loess. Most flt is
sub-round gtz & some rusty

- 1755m W 45 similar to W 44 only
more clay & flt & thinner loess

[045°] Ar 400m.

[315°] reset to 0m

- 0m W 46 grey clay flt → excellent basal flt

- sub-angular rusty schist & gtz flt.

along an other rounded mixed flt

- 200-250m some angular flt on surface of
rusty gtz - ser schist & some graphitic sch?

- 255m W 47 grey slightly sandy flt

sub-ang. - gtz - ser schist & rusty gtz & rounded mixed
flt

North Pacific Supply Corp. 46 Level 3

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- 500m W 48 same as W 47

- 750m W 49 soil w. some hill material
- lots of angular chips of graphitic schist

- 1005m W 50 soil w. mixed flt

- angular rusty gtz - ser schist

- minor ams angular graphitic schist

& minor gtz

- 1260m W 51 grey basal flt - upper
surface layer has angular gtz - ser schist

- sub-ang gtz & rusty schist within hill

- 1280-1400 - following ridge down steeper slope

- 1520m W 52 grey clay - good basal flt

- minor ams gtz - ser schist w. rusty

gtz
- 1620m hit 060° strong line from
Yesterday

- 1720m clean sandy outwash (no sample)

- minor ams sub-ang. to ang gtz - ser schist

& gtz

NOTE: possible helicopter landing site
approx 200m further along line

[225°] reset to 0m

- 315m hit NW-SE line 35m SE of W 37

40

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SCROGGY CREEK AREA

At creek junction on the West side of the S. end of airstrip.

headed approx SW. up ridge.

0-15m outcrop at edge of trib. creek

- biotite schist

710-720m angular float (subcrop) of

biotite schist w. 20cm wide piece of

angular massive gtz.

735m Y1 ^{yellow} reddish fairly sandy soil

with lots of muscovite in soil.

- Started contouring to S. → reset to 0m

- 55m Y2 same as Y1 } sample depths
- 98m Y3 " " " } approx 30-40cm

- 95m top up w. angular piece of
pegmatite (5-10cm)

- 150m Y4 same as Y1-3 only 5cm
clayey layer at surface

- 205m Y5 " "

- 250m Y6 " "

- 300m thicker organics Y7 - 6th mud
for 30cm thin 15cm soil 10cm
mid 10cm soil

- 350m Y8 - brown soil with lots of
sericite (muscovite) - 80cm depth -
50cm clay rich layer above soil
(not organic)

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- 400m Y9 reddish brown soil - sericite rich
 455m Y10 soil a bit wetter looking
 (depth 30cm) - small ang. fragments of
 white qtz - schist fragments becoming
 ruder and more qtz-rich.
 500m Y11 same as Y10 - 4cm rk
 fragment looks strongly bleached
 and silty with moderate wet
 ~ 10% v. f. v. diss. sulfides
 550m Y12 weakly reddish yellow soil
 600m Y13 back to brown sericite rich soil
 650m Y14 " " "
 710m Y15 " " "
 750m no sample - frozen mud
 - wide a. ldr under gully
 805m Y16 grey brown wet phy.
 clayey soil - angular seric. schist frag.
 850m Y17 brown clayey soil w. seric.
 905m Y18 " " "
 950m permafrost → no sample
 990m Y19 dark brown partly organic
 soil from 40 cm depth - ang. schist frag.
 1044m Y20 brown soil - phy. org. " "
 1105m Y21 brown soil w. angular
 amphibolite fragments
 1155 Y22 " " "
 1205m Y23 light brown soil - small
 sericite schist? fragments
 1250m Y24 brown soil - lots of d. b. b. h.
 / ~~micro~~ in soil → angular biotite/chlorite
 - on ridge between streams creek

S. side of

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- headed down ridge for 300m
 Y25 fine sandy silt from small
 creek flowing SE into Stevens Cr.
 - float mainly sericite schist w.
 some amphibolite schist and
 minor amts. of qtz + ers. gr.
 pink granite
 Started contouring ~~up~~ to N.
 - angled up slope for ~~off~~ 50m
 Y26 reddish brown soil w. ang. chlorite schist
 - 90m west of ridge.
 - 100m Y27 same as Y26
 - 155m Y28 reddish brown soil w.
 some ang. chlorite schist and some
 qtz-ser. schist fragments.
 - 215m Y29 brown silty soil - angular
 chlorite schist fragments.
 - 275m Y30 " "
 280m sub-crop of chloritic augen
 gneiss w. 5-10mm diameter augen
 of k-spr-qtz-ser.
 - 325m Y31 same as Y30 only float
 more qtz-ser. schist
 - 395m Y32 dk brown slightly muddy
 soil w. ang. schist fragments.
 - 450m Y33 brown soil w. ang. fragments
 - sub-crop gneiss schist.
 - 510m Y34 brown soil ang. fragments.
 - 560m Y35 brown-grey soil
 - ang. sericite schist fragments

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- 610m Y 36 grey-brown soil w. sericite schist fragments
- 670m Y 37 " " "
- 720m Y 38 " " "
- 780m Y 39 lt. brown soil w. angular seric. schist fragments
- 845m Y 40 " " " "
- 900m Y 41 " " " "
- 950m Y 42 reddish brown soil w. ang. gtz ser schist fragments (foss starting to look a bit rusty)
- 995m Y 43 same as Y 42
- 1050m Y 44 lt. brown soil w. gtz-ser. fragments (some rusty)
- 1100m Y 45 " " " "
- 1150m Y 46 " " " "
- 1200m Y 47 " " " "
- 1250m Y 48 " " " "
- 1300m Y 49 lt. brown soil - sericite soil
- 1355m Y 50 " " "
- 1405m Y 51 whitish brown silty soil
- 1465m hit cross line 25m E of Y1

SCROGGY AREA - CLARKE ^{AF} Cr.

- Y 52 ~~map~~ fine gr. sandy silt from med creek flowing E into Scroggy Cr (1st pool S. of Clarke Cr.)
- looks like mainly granite sand (approx 2000' elev)
- continuing NW ^(323°) to Clarke Cr.
- Y 53 f. gr. sandy silt from S. fork of Clarke Cr. approx 100m. upstream from junction
- large granite boulders (both pink & white & some veins)
- continued NW
- Y 54 f. gr. sandy silt from sm. creek flowing S into N. fork of Clarke Cr. (looks like granite soil)
- started containing on N. side of Clarke Cr.
- Y 55 f. gr. sandy silt from N. fork of Clarke creek approx 50m upstream from
- floor - granite
- Y 56 main tributary W of Y 54
- sieved silt, small creek with slight flow

SCROGGY AREA

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Y 57 next trib. west of Y 56

- very slight flow - fine sandy silt
- some organic material - about 20% grs
- 60% granite, 20% schist

Y 58 ^{main Creek} fine sandy silt 100m upstream from Y 57

- bluish mica mineral on sand bar surfaces

- Contouring around to S fork of Clarke Cr.

- First trib on W side of S. fork upstream
NO SILT

- Y 59 2nd trib on W. side
Same as Y 58 & 57

- Y 60 main S. fork 150m upstream
from Y 59 creek
f. gr. sandy silt - flow mostly
granite

- On creek bank on W. side of
Scroggy Creek W. of N. end of airstrip

270°

0-100m bench

400m started contouring to N - reset to 0m

0m - Y 61 lt. brown silty soil - angular granitic
chips some look pegmatitic & k-gran rich

50m - Y 62 " " " "

105m - Y 63 darker brown soil - angular
chips chlorite schist

- large angular float of pink-brown-red gr
granite - w approx 30% green chlorite alt?
^{amphibole} hornblende - rock is vuggy on weathered surfaces

150m - Y 64 dark brown soil

200m - Y 65 lt. brown soil - biotite granite and
crs calcite chips

250m - Y 66 lt. brown slightly gravelly soil w. lots
of granite flt.

300m Y 67 lt. brown silty soil - granite flt

350m Y 68 dk. brown silty soil - angular ~~chips~~
pegmatitic granite - also metamorphic
qtzite? w. limonite spots

AB

405m Y 69 lt. brown soil - Ers. calcite chips

450m Y 70 brown silty soil

500m Y 71 brown silty soil - small chips of opalite textured qtz rock rock some w. strong limonite weathering

550m Y 72 brown silty soil

- granite chips

600m Y 73 " " "

650m Y 74 " " "

700m Y 75 " " "

750m Y 76 brown slightly sandy soil chips qtz monzonite → qtz diorite (low li. sp. coarse)

800m - thicker organics Y 77 brown pty. frozen soil w. granite chips (below 10cm bl. mud)

850m Y 78 brown soil - granite float - some pegmatitic → some limonite

900m thick organics - no sample

950m Y 79 brown pty organic soil

- small chips granite

1020m Y 80 " " "

1110m at small creek

Y 81 sieved silt

Y 82 → float almost all coarse calcite qtz pegmatite

- rusty w. some qtz in veins

- ~2% black submetallic mineral disseminated throughout and along small fractures

AO,

1190m Y 83 brown silty soil

- 45cm wide ang. flt. of rusty pegmatite

- 1250m Y 84 brown silty soil

- 1300m Y 85 brown biotite rich soil

- 1350m Y 86 reddish brown soil

- qtz + pink carbonate chips

- 1395m Y 87 sub-crop of rusty qtz-pink carbonate pegmatite

- 1397 Y 88 reddish brown soil

- 1450m Y 89 brown soil

- 1500m thick organics - no soil

- 1535m Y 90 grey-brown clayey soil

- ang 4cm wide qtz chip

- 1600m Y 91 brown soil - granite py. chips

- 1700m Y 92 " " "

- 1820m Y 93 reddish brown biotite rich soil

- 1850-2125 talus, no soil

- 2125m at med creek flowing E

Y 94 f-med gr sandy silt

- float all granite pegmatite

TAILINGS ACROSS SCROGGY FROM CAMP

Y 95 - rock chip angular flt. silic.

granite pegmatite w. v. fig. pyrite along

fractures and fig. py. discs

50

Y 96 - same area as Y 95

- 1) Mining Sand
- 2) Sand to Silt
- 3) Sand to Clay
- 4) Silt
- 5) Clay

AREA S OF SUMMIT LAKE 51

6 Organic At forks of creek near Camp

- ~~250m~~ headed S. up E. side of W. Fork

250m S 25 fgr. Sand to clay silt (3)

Float 1/2 to brown weakly auriferous sericite schist

1/2 darker more indurated schist.

- minor qtz float < 5%

- 275m 40cm wide rounded float of

massive qtz w pink coarse carbonate

mottled throughout some fgr. diss. py < 1%

- 475m more qtz float in creek some w

coarse pale yellow carbonate mineral (angular)

- Also 5-10% flt. is dk brown schist with

interfoliation carbonate

- Small bits of Plt dk grey, silicified

slightly rusty sediment? (thin bedded?). Silic. appears

on weathered surface → sub-angular

- Minor rounded float of chert pebble conglomerate

w dk grey matrix, lt grey chert pebbles, thin

fractures w. sulfides (py) cut both (also 50m up stream)

- 500-520m subcrop on creek bank grey phyllite

- 525m S 24 angular float of silicified

sericite schist w. 5-10% leached after

pyrite (1 mm cubes)

- 775m S 23 fgr sand to clay silt (3)

- Similar float to downstream

§2

- 1100m S 22 - small seepy creek flowing NW into main creek
- fgr sand to clay silt w some organics (3^g)
- 1400m S 21 - fgr sand to silt silt (2)
from med trib flowing W.
- 1600m S 20 - fgr sand to clay silt w some organics (3^g) from seepy creek flowing W.
- 1750m S 19 90cm wide sub-rounded float in NW of chert pebble conglomerate
- weakly rusted - matrix contains 5% fgr. chert. black submetallic mineral we canchadol texture.
- some as small float found downstream
- 1875m S 18 fgr. sand to silt silt (2)
from small trib. flowing WNW
- float mainly it brown sericite phyllos
~10% gtz chips in float
Some of the schist appears silicified on weathered surface.
- 1975 S 17 fgr sand to clay silt (3) from main creek

§3

- Started contouring NE towards E fork of creek.
- S 16 - 100m SW of S 21 creek
small seepy creek flowing NW.
fgr. silt clay silt - some organics (3^g)
- S 15 - 1st tributary flowing N into E fork of RGS creek.
- fgr sand to clay silt (3)
- float fairly rusty gtz (conchoidal rust)
minor ants of schist.
- continuing NE
- 300-400m = sub crop of dk grey green phyllite
- minor oxidized looking rust in places.
- 500m S 14 fgr sand to clay silt (3) from small creek flowing N (appears to be up from NW creek)
- float similar to sub-crops.
- continuing up S side of E fork (res to 0)
- 450m small swampy creek flowing NW over moss
- 700m on top of ridge.
- 1100m at main creek - swampy - in silt
- continuing E
- 1300m at swampy tributary no silt
- heading NW
- approx 500m S 13 fgr sand to clay phyllos org silt from tributary flowing W. (3^g)

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S-12 Fined gr. sand to silt silt (2) from
E Fork ~~gr~~ 100m upstream from S-11

S-11 F. gr. sand to silt silt (2) from main creek
approx 300m upstream from junction

= float mainly psammite schist.

- 150m up from junction

S-10 Small spring - good flow on S side of
main creek

F. gr. sand to silt silt (2)

- It has schist + qtz chips in silt.