

**SOIL GEOCHEMICAL REPORT ON THE PILOT CLAIMS**

(Pilot 1 – 44 claims YC18949 – YC18992)

Whitehorse Mining District

NTS 115K/09

Latitude: 62° 36'N

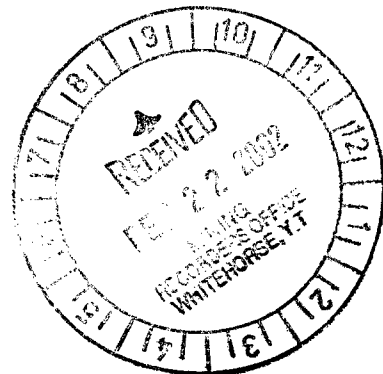
Longitude: 140° 14' W

Work Performed: September 6, 2001

Owner / Operator: Teck Cominco Limited  
600 – 200 Burrard Street  
Vancouver, BC  
V6C 3L9

094291 C.I

Paul Baxter  
February, 2002



This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 4400.

*M. B. W.*  
Regional Manager, Exploration and  
Geological Services for Commissioner,  
of Yukon Territory.

## SUMMARY

The Pilot property, comprising 44 claims (880 ha), was staked by Teck Cominco Limited in October of 2000. The property is located 40 kilometres northeast of Beaver Creek, YT on map sheet 115k/09, Whitehorse Mining District. The property was first identified in 1999 during a regional stream sediment sampling program by three adjacent drainages that contained anomalous gold values. Gold-arsenic anomalies within follow-up reconnaissance soil sampling in 2000 led to the eventual staking of the property.

The property is primarily underlain by Devonian to Permian biotite schists and phyllites of the Yukon Tanana terrain that have been intruded by a possible Cretaceous age foliated granitic intrusive.

On September 6, 2001, 52 soil samples were collected from a 1200m x 500m soil grid that covers only a small portion of the intrusive - metamorphic contact. Several poorly defined soil anomalies within the host metamorphics have been outlined as follows: a) a 900m linear Au +/- As soil anomaly trending southwest away from the intrusive, b) a Au-As-Bi-(+/- base metal) anomaly mainly within two stations on one line but is poorly constrained and may extend to lines up to 900m to the northeast, and c) a 500m east - west trending Cu-Pb-Zn soil anomaly that begins approximately 600m away from the intrusive contact and also passes through anomaly b. The soil anomalies suggest the presence of possibly two mineralizing events, however, due to the limited extent of the soil survey, these anomalies are poorly constrained.

To fully evaluate the extent of possible mineralization, the soil grid must be expanded in all directions. In conjunction with soil sampling, mapping and prospecting is required and grid magnetics/VLF surveys should be conducted to help define structural trends.

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### 1. Location and Access (Figure 1)

The Pilot property, NTS map sheet 115k/09, is located 40 km northeast of Beaver Creek, north of the Alaska Highway within the Whitehorse Mining District. The property is situated 11km west of the White River, 5km northwest of Mount Baker along a ridge between O'Brien Creek to the north and an un-named creek to the south. Access to the property is via Helicopter that was mobilized from Haines Junction.

### 2. Property Status (Figure 2)

The property consists of 44 contiguous claims covering approximately 880 hectares. The property is owned by Teck Cominco Limited of Vancouver, British Columbia. Claim status is shown in Table 1 and claim configuration is shown in Figure 2.

Table 1

Claim Name	Grant Number	Expiry Date
Pilot 1 to Pilot 44	YC18949 – YC18992	October 27, 2002

\* Note, expiry date based on acceptance of report.

### 3. Physiography

The property covers low rolling hills from 2400ft to 4100ft elevations. It is mostly tree covered with both coniferous and deciduous trees and subalpine to alpine cover on only the highest hills. Exposure on the property is very poor with occasional outcroppings and minor talus.

### 4. Previous Work

There is no record of any previous mineral occurrences in the area and the property is the only current property on the 115k/09 map sheet. The area was first identified in 1999 during a regional stream sediment sampling program by three adjacent drainages that contained anomalous gold values. Follow-up reconnaissance soil sampling in 2000 led to the eventual staking of the property in October of 2000.

### 5. 2001 Work Program

Two man days were spent on the Pilot claims and consisted of the collection of 52 soil samples from a mini 1200m x 500m grid established by compass, hip chain and flagging. The goal of the soil sampling grid was to further delineate gold and arsenic in soil anomalies that had been previously detected by reconnaissance scale soil sampling in 2000.

### 6. Geology

#### a) Regional (Figure 3)

Figure 3 shows the regional geology of the area which is from the Yukon Digital Geology (Gordey and Makepeace, 1999). The area is primarily underlain by Devono-Mississippian or older biotite schist or gneiss (DMN6) that may belong to Nasina or Nisling Assemblage and Carboniferous – Permian muscovite chlorite quartz phyllite (CPK3) of the Klondike Schist. Additional descriptions for these units can be found in Tempelman-Kluit, 1974. This rock package represents continental margin and arc volcanic deposition. DMN6 is intruded to the northeast by foliated granite to granodiorite to dioritic gneiss of the Devono-Mississippian Pelly Gneiss Suite. South of

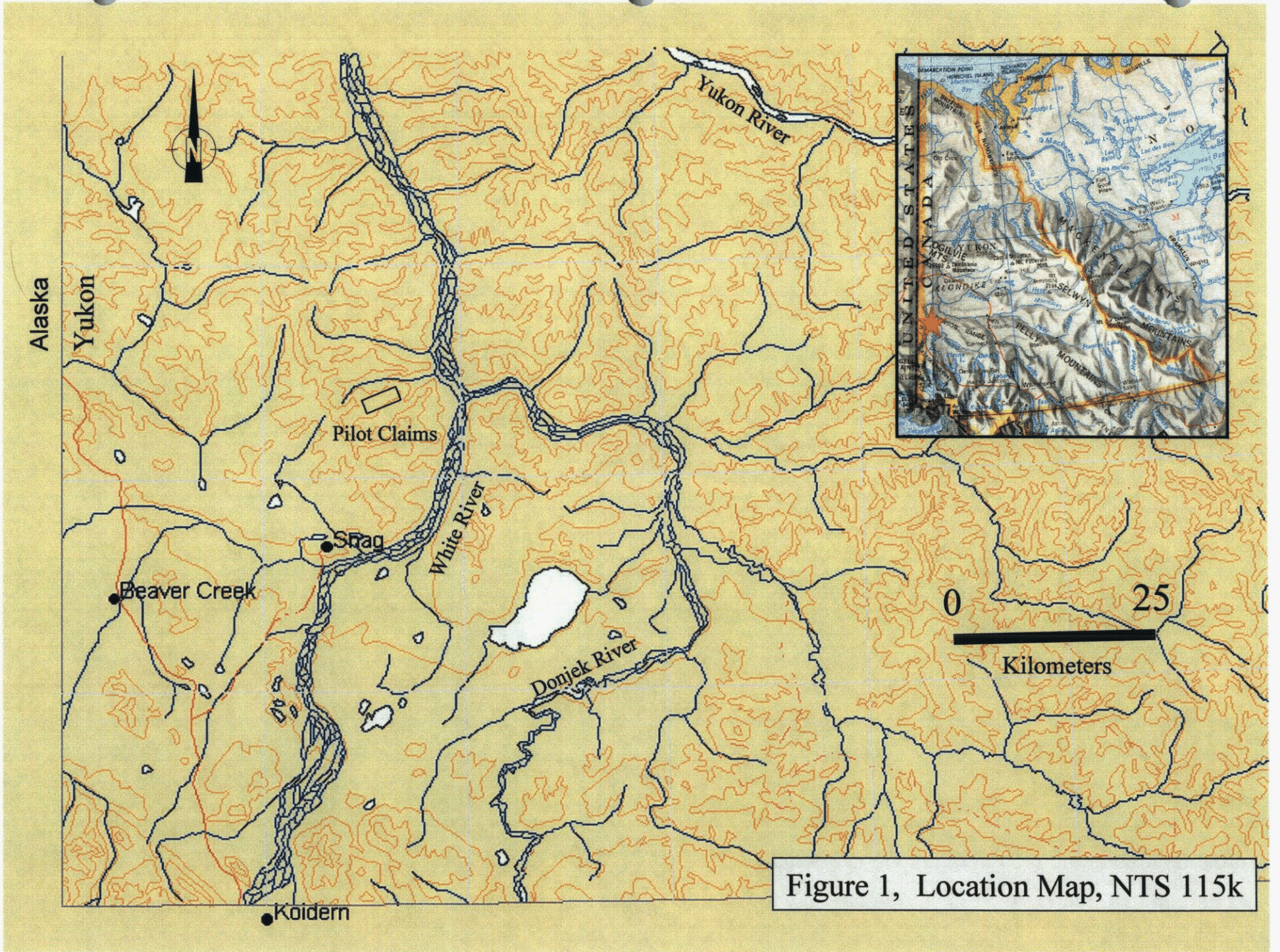


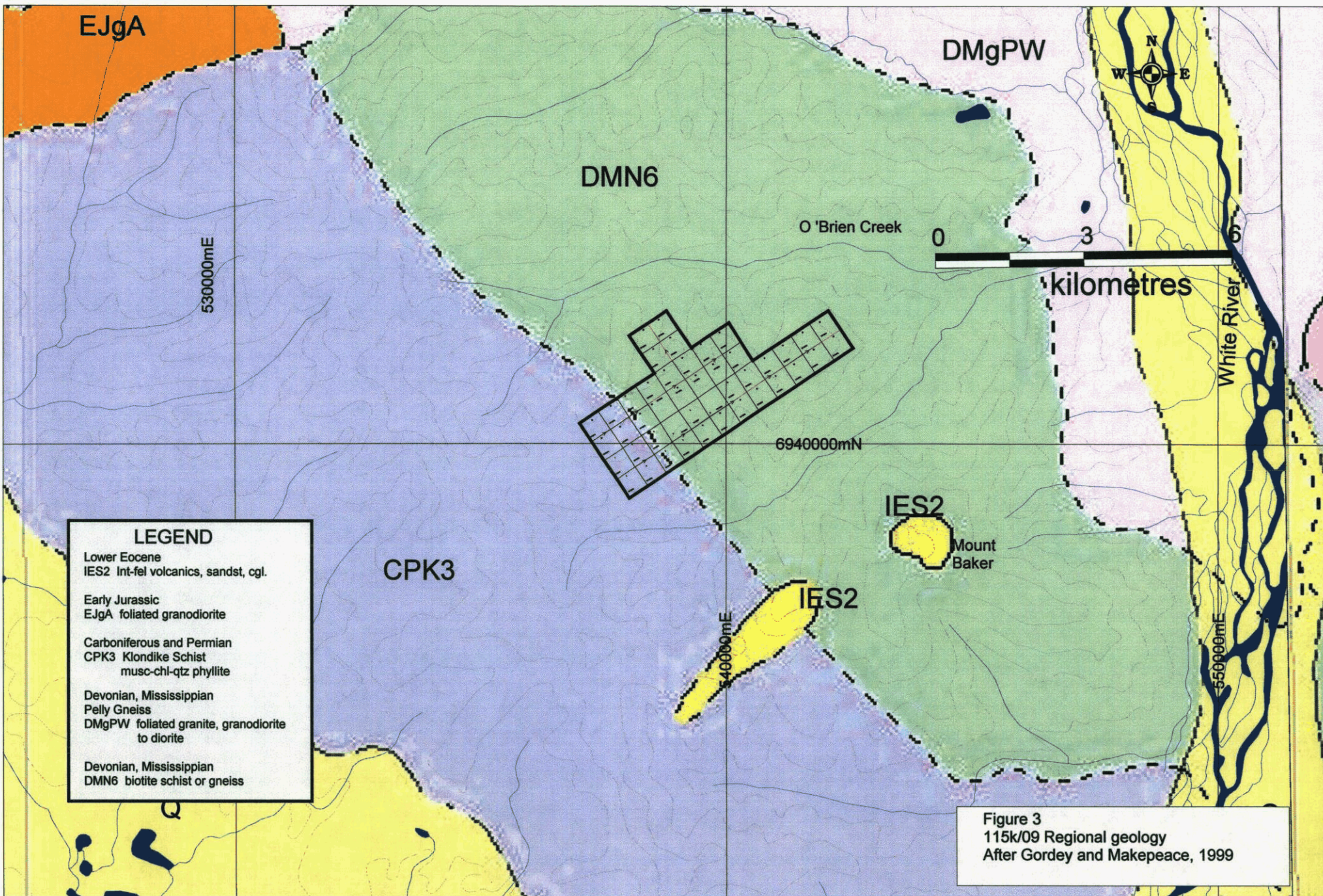
Figure 1, Location Map, NTS 115k



Figure 2 NTS 115k/09 scale 1:25,000 Pilot Claim Configuration Map  
(Nad27, Zone 7)

Teck Cominco Limited  
P.O. Box 938, Station Main,  
Kamloops, B.C. V2C 9N4

**teckcominco**



the Pilot claims, the top of Mount Baker and ridges to the southwest are topped by Lower Eocene, intermediate to felsic volcanics, volcanoclastics and coarse sediments (IES2) of the Skukum Assemblage.

b) Property (Figure 4)

Due to the limited amount of work conducted in 2000 and 2001 and the limited exposure, very little is known about the detailed property geology. The reconnaissance soil traverses have identified primarily quartz – biotite schists and lesser chloritic phyllites, quartzites and amphibolite of regional units DMN6 and CPK3. To date, no differentiation between units has been completed. The metamorphics strike roughly north-south with shallow to moderate dips to the west. During the 2001 soil sampling, weak to moderately foliated granitic intrusive float was observed in the southeast corner of the grid. This confirms observations of intrusive float within creeks southeast of the claims during the regional stream sediment sampling program in 1999.

## 7. Soil Geochemistry

A total of 52 soil samples were collected from a 1200m x 500m mini grid established by compass, hip chain and flagging. For plotting purposes, the ends of lines were measured by hand held non-corrected GPS. Soil lines are 200m apart with 50m sample spacing. Soil samples collected are of the B-horizon. Samples were delivered to Eco-Tech Laboratories of Kamloops, BC for ICP analysis of 28 elements plus gold geochem. Analytical certificates are included in Appendix 1 and analytical procedures are included in Appendix 2. The ease of soil sample collection is variable on the Pilot claims. Mossy north facing slopes are often underlain by permafrost such that no sample was collected from several stations at the north ends of lines. Where lines crossed flat ridge tops, sample quality was fairly good however some areas had particularly deep A horizons (>60cm) which resulted in stations with no samples or samples of questionable quality. Due to this thick A horizon, the furthest Soil line to the west, PL2, south of the baseline is of questionable quality and should be resampled.

a) Results.

Figures 5 – 10 show geochemical plots for Au, As, Bi, Cu, Pb and Zn for soil samples from the 2001 Pilot mini soil grid.

### Gold

The gold in soil map (Figure 5) shows a 900m linear one to two station anomaly on the south side of the grid trending to the southwest away from the granitic intrusive. With the poor sample quality on the most westerly soil line, it is possible the anomaly continues to the west. On the north side of the grid, soil line PL 3 shows two adjacent stations of highly anomalous gold in soils (95 and 190ppb Au). With the poor sample quality to the west and areas with no samples to the east, this anomaly is not constrained and may be related to the single station anomaly at the end of soil line PL 7 (65ppb Au).

### Arsenic

Figure 6 shows spotty arsenic enrichment is associated with the linear gold anomaly on the south side of the grid. On the north side of the grid on line PL 3, highly elevated arsenic (680 ppm) is associated with the two station gold in soil anomaly. The elevated arsenic may extend to the northeast towards the end of soil line PL 7.

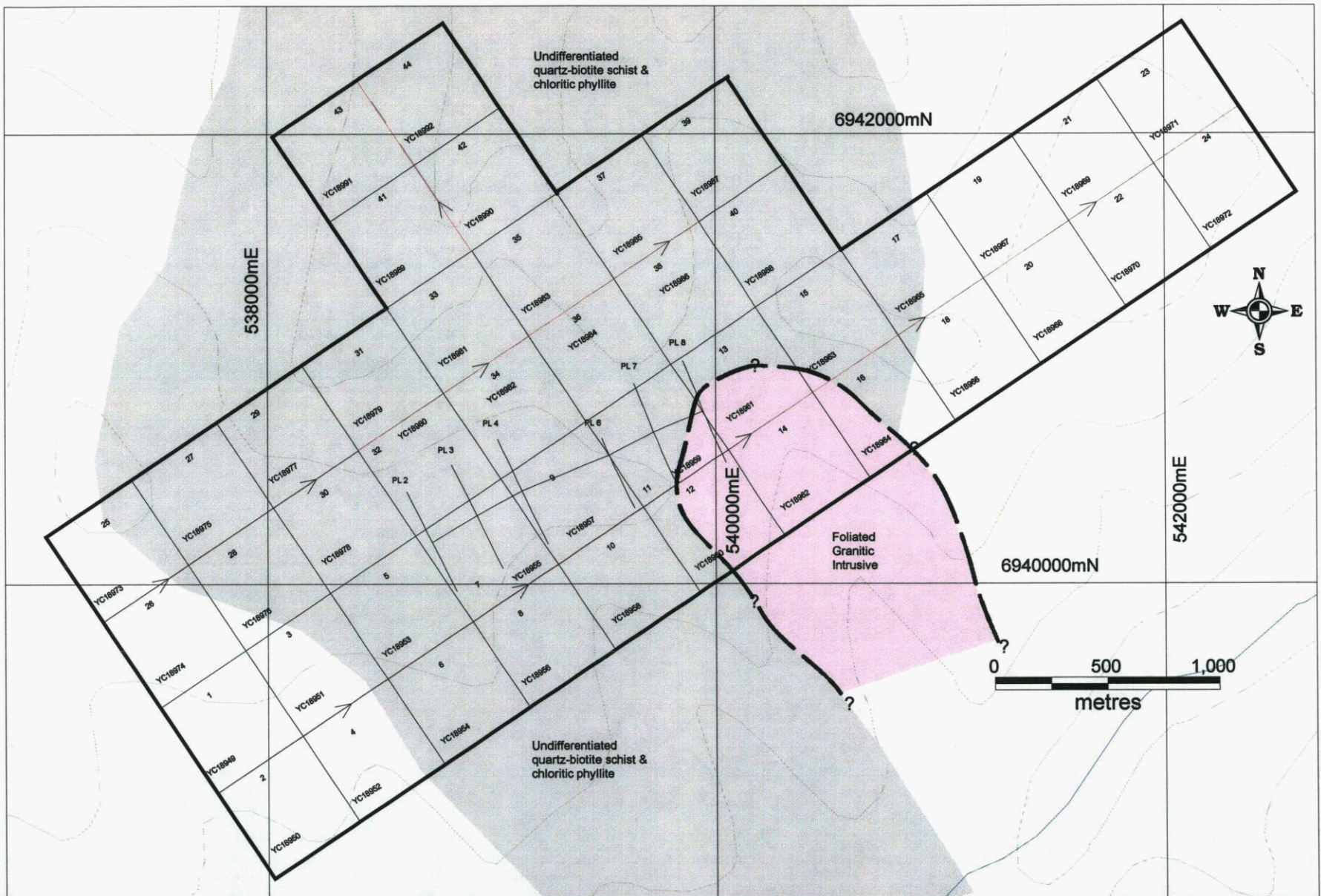


Figure 4 NTS 115k/09 scale 1:25,000 Pilot Claims, Property Geology  
 (Nad27, Zone 7)

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### Bismuth

The bismuth soil geochem map (Figure 7), shows a fairly high Bi background that may be a function of the labs ability to accurately measure bismuth or it is real but appears this way due to the limited size of the survey. On the north side of the grid, high Bi values are associated with the two station gold anomaly on line PL 3 and extends northeast to PL 4 and possibly on to PL 7.

### Copper, Lead and Zinc

The copper, lead and zinc soil values are low to moderate but are shown here because of the similar trends they are outlining. The copper soil geochem map (Figure 8) appears to show a zonation with no copper over or adjacent to the intrusion but appearing over 600m away from the intrusive contact. Lead and zinc (Figures 9 and 10) are also showing increases to the west but they are more restrictive and combined with the copper are defining a 100m wide by 500m long east – west trending base metal soil anomaly that is open to the west.

## **8. Conclusions and Recommendations**

On September 6, 2001, 52 soil samples were collected from a 1200m x 500m soil grid that covers a small portion of a granitic intrusive - metamorphic contact on the Pilot claims. Several poorly constrained gold and base metal soil anomalies within the host metamorphics have been outlined as follows: a) a 900m linear Au +/- As soil anomaly trending southwest away from the intrusive, b) a Au-As-Bi (+/- base metals) anomaly mainly within two stations on line PL 3 that is poorly constrained and may extend to line PL 7 up to 900m to the northeast, and c) a 500m east – west trending Cu-Pb-Zn soil anomaly that begins roughly 600m away from the intrusive and also passes through anomaly b.

Two scenarios may explain the soil geochemical patterns observed; 1) there are two overlapping mineralizing events, one that is base metal rich with an east west orientation and a gold, bismuth and arsenic event that has a southwest – northeast orientation or 2) there are a series of east – west oriented multi-element mineralizing events. Soil anomalies defined to date are open ended and due to the limited scale of the work; definitive conclusions on the defined soil anomalies are speculative. Additional work is required to define the variety, extent and orientation of mineralizing systems present. To fully evaluate the extent of possible mineralization, the soil grid must be expanded in all directions. Due to the thick moss and thick A horizon in some areas, shovels or long augers are required and soil line PL 2 should be re-sampled. As exposure is very poor on the property, emphasis must be made to log rock fragment compositions from soil sample holes to better define the property geology. In conjunction with soil sampling, additional mapping and prospecting is required and grid magnetics/VLF surveys should be conducted to help define structural trends.

## 9. References

- Gordey, S.P. and Makepeace, A.J. (comp.)  
1999: ***Yukon Bedrock Geology***, in Yukon digital geology, S.P. Gordey and A.J. Makepeace (comp); Geological Survey of Canada Open File D3826 and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-1(D)
- Tempelman-Kluit, D.J.  
1974: Reconnaissance Geology of Aishihik Lake, Snag and Part of Stewart River Map Areas, West Central Yukon; Geological Survey of Canada Paper 73-41

### 10. Cost Statement

Salaries	P. Baxter	1 day @ \$320/day	\$320
	E. A. Archibald	1 day @ \$275/day	\$275
	Total Salaries		\$595.00
Helicopter	Kluane Helicopters Haines Junction, YT September 6, 2001 2.8 hr @ \$900/hr plus fuel of \$478.80		\$2998.80
Analytical Costs	52 soil samples, Multi-Element ICP and Gold @ \$16.50/sample		\$858.00
Motel	IDA's Motel, Beaver Creek, YT		\$104.86
Food	2 man days @ \$30/man day		\$ 60.00
Truck	1 day @ \$50/day		\$ 50.00
<b>TOTAL APPLIED FOR ASSESSMENT</b>			<b>\$4666.66</b>

## 11. Statement of Qualifications

I, Paul Baxter, do certify that

I am a Professional Geologist registered with APEGGA in the province of Alberta.

I graduated from the University of Alberta, Edmonton Alberta, in 1985 with a Bachelor of Science Degree, Honours in Geology.

I have practiced Geology continuously for the last sixteen years.

I was personally involved in and supervised the 2001 Pilot property soil sampling program and authored the contained report.

The data contained in this report and conclusions drawn from it are true and accurate to the best of my knowledge

I hold no direct or indirect interest in the Pilot property.

Paul Baxter

Paul Baxter  
Project Geologist  
February, 2002  
Kamloops, British Columbia

Feb 15, 2002  
Date

***APPENDIX 1***  
***Analytical Certificates***

1-Oct-01

ECO-TECH LABORATORIES LTD.  
10041 Dallas Drive  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 2001-324

TECK COMINCO LIMITED  
MAIN STATION BOX 938  
KAMLOOPS, B.C.  
V2C 6H1

Phone: 250-573-5700  
Fax : 250-573-4557

ATTENTION: PAUL BAXTER

No. of samples received: 52  
Sample Type: Soil  
Project #: 176500  
Shipment #: None Given  
Samples submitted by: Paul Baxter

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	PL2 0+00	10	<0.2	2.56	20	150	15	0.44	<1	19	35	34	3.64	10	0.93	352	<1	0.03	28	460	18	<5	20	38	0.16	<10	81	<10	26	61
2	PL2 0+50	5	<0.2	2.27	10	180	15	0.46	<1	15	31	35	3.09	10	0.74	307	<1	0.03	25	540	16	<5	20	36	0.13	<10	73	<10	32	55
3	PL2 1+00	<5	<0.2	2.25	<5	190	10	0.67	<1	17	31	36	3.02	10	0.77	292	<1	0.03	25	620	16	<5	<20	47	0.14	<10	67	<10	28	56
4	PL2 2+00	<5	<0.2	1.92	5	180	10	1.08	<1	14	30	36	2.73	10	0.57	337	<1	0.03	20	910	10	<5	<20	70	0.08	<10	62	<10	24	47
5	PL2 2+50	<5	<0.2	2.41	5	170	15	0.66	<1	18	39	45	3.49	10	0.88	272	<1	0.03	27	590	18	<5	20	47	0.15	<10	73	<10	33	65
6	PL2 3+00	<5	<0.2	2.31	5	120	15	0.22	<1	16	30	35	3.32	<10	0.61	219	<1	0.02	25	220	26	<5	20	22	0.12	<10	74	<10	17	49
7	PL2 3+50	<5	<0.2	2.46	<5	125	10	0.18	<1	21	35	64	4.13	30	1.17	382	<1	0.03	33	350	14	<5	40	54	0.13	<10	54	<10	11	81
8	PL2 4+00	5	<0.2	3.70	15	200	15	0.28	<1	28	76	74	4.74	20	1.60	421	<1	0.03	68	370	20	<5	<20	47	0.18	<10	88	<10	22	83
9	PL3 0+00	5	<0.2	3.16	10	220	15	1.50	<1	28	70	63	4.42	20	1.53	796	<1	0.08	49	820	16	<5	<20	145	0.19	<10	104	<10	56	85
10	PL3 0+50	<5	<0.2	3.41	30	230	15	1.58	<1	27	84	53	4.04	10	1.66	743	<1	0.09	55	730	14	<5	<20	116	0.21	<10	98	<10	44	72
11	PL3 1+00	35	<0.2	3.03	135	195	10	1.22	<1	24	65	56	3.59	10	1.25	582	<1	0.06	51	750	14	<5	<20	90	0.14	<10	83	<10	42	73
12	PL3 1+50	5	<0.2	3.02	35	210	15	0.89	<1	26	65	53	4.00	10	1.22	646	<1	0.05	49	760	18	<5	<20	73	0.15	<10	88	<10	45	73
13	PL3 2+50	<5	<0.2	2.61	15	200	10	2.35	<1	20	41	69	3.01	10	0.97	1231	<1	0.07	42	860	14	<5	<20	165	0.08	<10	76	<10	54	68
14	PL3 3+00	95	<0.2	5.45	680	400	25	1.61	3	40	190	100	5.94	<10	3.07	723	<1	0.16	151	1610	22	<5	<20	188	0.31	<10	144	<10	59	92
15	PL3 3+50	190	<0.2	5.47	30	285	20	1.10	<1	26	117	87	4.87	10	2.63	1031	<1	0.15	57	510	22	<5	<20	157	0.28	<10	121	<10	40	99
16	PL3 4+00	10	<0.2	4.12	20	280	15	1.41	<1	24	108	57	4.00	10	1.91	766	<1	0.12	47	610	18	5	<20	131	0.21	<10	105	<10	34	70
17	PL3 4+50	5	<0.2	3.17	15	160	10	2.24	<1	23	47	71	3.58	20	1.34	864	<1	0.08	38	670	14	<5	<20	180	0.10	<10	83	<10	46	79
18	PL4 0+50	20	<0.2	2.94	10	210	15	1.69	<1	26	88	54	3.90	10	1.61	756	<1	0.07	54	750	14	<5	<20	133	0.18	<10	100	<10	41	73
19	PL4 1+00	<5	<0.2	2.16	10	160	10	2.22	<1	19	52	47	2.91	<10	1.01	754	<1	0.07	37	600	14	<5	<20	148	0.11	<10	73	<10	38	56
20	PL4 1+50	<5	<0.2	2.16	5	155	10	3.01	<1	18	42	56	3.18	<10	1.04	698	<1	0.07	28	580	14	<5	<20	172	0.11	<10	80	<10	50	52

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
21	PL4 2+00	5	<0.2	4.34	<5	290	15	2.48	1	36	89	121	6.19	10	2.36	1252	<1	0.17	55	750	22	<5	<20	276	0.23	<10	169	<10	87	98
22	PL4 2+50	<5	<0.2	4.87	95	360	15	1.00	<1	40	146	65	5.31	30	2.26	574	<1	0.08	113	470	24	<5	<20	158	0.27	<10	114	<10	45	83
23	PL4 3+00	5	<0.2	3.96	55	235	10	0.41	<1	33	89	65	4.34	<10	1.23	459	<1	0.03	88	410	30	<5	<20	108	0.15	<10	79	<10	26	53
24	PL4 3+50	10	<0.2	4.68	25	280	30	0.71	<1	30	122	63	4.57	20	1.91	606	<1	0.09	85	380	28	<5	<20	99	0.24	<10	109	<10	48	66
25	PL4 4+00	5	<0.2	2.95	50	155	15	0.64	<1	37	191	40	3.84	<10	2.05	177	<1	0.03	150	1130	14	<5	<20	30	0.24	<10	97	<10	26	54
26	PL6 0+00	15	<0.2	2.33	145	150	15	0.28	<1	17	27	21	3.58	<10	0.67	491	<1	0.02	18	270	14	<5	40	25	0.14	<10	70	<10	17	52
27	PL6 0+50	5	<0.2	1.52	55	105	10	0.20	<1	10	21	16	3.06	<10	0.37	192	<1	0.02	10	190	16	<5	40	19	0.12	<10	74	<10	12	36
28	PL6 1+00	<5	<0.2	2.80	15	160	15	0.21	<1	14	22	20	4.36	<10	0.64	297	<1	0.02	13	240	16	<5	60	18	0.19	<10	76	<10	20	54
29	PL6 1+50	20	<0.2	1.85	5	130	15	0.20	<1	12	17	21	3.40	<10	0.40	347	<1	0.02	9	280	12	<5	40	13	0.15	<10	67	<10	16	49
30	PL6 2+00	<5	<0.2	0.36	<5	15	<5	0.09	<1	3	4	3	0.71	<10	0.09	54	<1	0.02	2	170	4	<5	<20	7	0.04	<10	16	<10	4	12
31	PL6 2+50	15	<0.2	2.56	<5	265	15	0.40	<1	17	17	26	4.56	10	0.88	508	<1	0.02	13	630	14	<5	60	27	0.23	<10	45	<10	55	63
32	PL6 3+00	10	<0.2	1.68	10	85	15	0.14	<1	10	19	15	2.94	<10	0.32	153	<1	0.02	11	220	14	<5	40	14	0.12	<10	66	<10	13	36
33	PL7 0+00	5	<0.2	2.55	60	225	10	0.45	<1	11	32	31	2.95	10	0.60	234	<1	0.02	24	490	14	<5	20	41	0.12	<10	62	<10	34	49
34	PL7 0+50	<5	<0.2	1.83	15	80	10	0.14	<1	11	23	22	2.93	<10	0.33	230	<1	0.02	15	220	14	<5	40	11	0.09	<10	68	<10	8	54
35	PL7 1+00	<5	<0.2	0.72	10	40	5	0.10	<1	5	8	8	1.31	<10	0.14	100	<1	0.02	5	110	6	<5	<20	9	0.06	<10	31	<10	7	22
36	PL7 1+50	30	<0.2	3.72	105	120	15	0.19	<1	17	31	26	4.93	<10	0.61	325	<1	0.02	22	470	20	<5	60	19	0.17	<10	78	<10	30	60
37	PL7 2+00	10	<0.2	1.97	25	130	10	0.22	<1	14	25	30	2.86	<10	0.49	613	<1	0.02	14	370	12	<5	20	18	0.13	<10	61	<10	26	50
38	PL7 2+50	15	<0.2	2.48	15	170	15	0.39	<1	16	31	20	3.30	<10	0.78	545	<1	0.02	17	450	18	<5	40	28	0.18	<10	64	<10	28	68
39	PL7 4+00	10	<0.2	1.74	15	130	20	0.29	<1	14	21	17	4.77	<10	0.48	422	<1	0.02	13	430	8	<5	60	24	0.11	<10	66	<10	17	47
40	PL7 4+50	15	<0.2	1.78	15	120	15	0.34	<1	10	22	14	2.59	<10	0.56	203	<1	0.02	14	380	14	<5	20	23	0.14	<10	47	<10	25	60
41	PL7 5+00	65	<0.2	1.64	80	110	15	0.31	<1	15	20	11	2.91	<10	0.53	613	<1	0.02	12	450	12	<5	40	21	0.12	<10	60	<10	22	59
42	PL8 0+00	5	<0.2	2.63	10	195	15	0.43	<1	15	29	25	3.50	<10	0.77	363	<1	0.02	18	510	14	<5	40	32	0.19	<10	64	<10	36	60
43	PL8 0+50	5	<0.2	2.50	10	215	15	0.40	<1	15	29	26	3.44	10	0.73	401	<1	0.02	20	470	16	<5	40	31	0.17	<10	64	<10	45	59
44	PL8 1+00	<5	<0.2	1.98	5	145	15	0.36	<1	11	24	21	2.77	<10	0.62	206	<1	0.02	15	360	12	<5	20	27	0.17	<10	52	<10	28	50
45	PL8 1+50	<5	<0.2	2.58	10	180	15	0.34	<1	17	32	30	3.62	<10	0.82	363	<1	0.02	20	420	16	<5	40	23	0.18	<10	63	<10	39	62
46	PL8 2+00	<5	<0.2	2.41	<5	160	15	0.23	<1	16	32	16	3.86	<10	0.86	478	<1	0.02	17	330	12	<5	40	17	0.23	<10	65	<10	42	52
47	PL8 2+50	<5	<0.2	2.33	<5	130	20	0.19	<1	14	24	17	4.20	<10	0.64	268	<1	0.02	12	200	12	<5	60	13	0.20	<10	60	<10	30	42
48	PL8 3+00	<5	<0.2	2.30	10	125	15	0.21	<1	14	33	19	3.66	<10	0.59	258	<1	0.02	18	190	16	<5	40	18	0.14	<10	90	<10	14	48
49	PL8 3+50	<5	<0.2	1.23	<5	65	10	0.09	<1	7	17	17	2.41	<10	0.16	118	<1	0.02	9	210	10	<5	40	8	0.08	<10	66	<10	9	32
50	PL8 4+00	<5	<0.2	3.06	10	120	15	0.17	<1	16	38	27	3.88	<10	0.53	257	<1	0.02	23	250	18	<5	40	15	0.13	<10	89	<10	21	53
51	PL8 4+50	15	<0.2	0.66	<5	25	<5	0.14	<1	5	5	7	1.14	<10	0.13	88	<1	0.03	3	310	6	<5	<20	11	0.05	<10	24	<10	8	21
52	PL8 5+00	<5	<0.2	2.11	<5	165	15	0.35	<1	14	24	18	3.34	<10	0.81	269	<1	0.02	14	470	12	<5	40	24	0.19	<10	73	<10	34	56

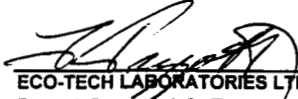
TECK COMINCO LIMITED

ICP CERTIFICATE OF ANALYSIS AK 2001-324

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
<b>QC DATA:</b>																															
<b>Repeat:</b>																															
1	PL2	0+00	<5	<0.2	2.56	25	145	10	0.43	<1	19	35	34	3.60	10	0.94	353	<1	0.02	28	470	18	<5	20	35	0.15	<10	80	<10	23	60
10	PL3	0+50	30	<0.2	3.40	25	235	15	1.59	<1	27	85	53	4.05	10	1.66	746	<1	0.08	54	710	16	<5	<20	117	0.21	<10	98	<10	40	72
19	PL4	1+00	<5	<0.2	2.12	10	160	10	2.20	<1	18	51	47	2.83	<10	1.00	745	<1	0.07	37	590	10	<5	<20	149	0.10	<10	72	<10	38	53
28	PL6	1+00	<5	<0.2	2.75	15	155	15	0.19	<1	15	22	19	4.37	<10	0.62	293	<1	0.02	12	240	18	<5	60	18	0.19	<10	75	<10	18	55
36	PL7	1+50	15	<0.2	3.71	110	115	20	0.19	<1	18	30	26	4.91	<10	0.61	324	<1	0.02	21	490	22	<5	80	16	0.18	<10	78	<10	30	61
45	PL8	1+50	-	<0.2	2.56	<5	180	15	0.34	<1	16	31	30	3.55	<10	0.81	358	<1	0.02	20	410	14	<5	40	26	0.19	<10	63	<10	38	60
<b>Standard:</b>																															
GEO'01			110	1.0	1.77	45	160	5	1.55	<1	19	54	88	3.50	<10	0.93	667	<1	0.02	24	690	22	<5	<20	65	0.11	<10	75	<10	27	70
GEO'01			110	1.0	1.81	45	160	10	1.55	<1	19	55	89	3.50	<10	0.94	661	<1	0.02	23	690	20	<5	<20	67	0.11	<10	77	<10	25	69

FP/kk  
df/324  
XLS/01Teck  
fax: @ 372-1285

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

**APPENDIX 2**  
***Analytical Procedures***

## **Analytical Procedure Assessment Report**

### **GEOCHEMICAL GOLD ANALYSIS**

Samples are catalogued and dried. Soils are prepared by sieving through an 80 mesh screen to obtain a minus 80 mesh fraction. Samples unable to produce adequate minus 80 mesh material are screened at a coarser fraction. These samples are flagged with the relevant mesh. Rock samples are 2 stage crushed to minus 10 mesh and a 250 gram subsample is pulverized on a ring mill pulverizer to -140 mesh. The subsample is rolled, homogenized and bagged in a prenumbered bag.

The sample is weighed to 10/15/30 grams and fused along with proper fluxing materials. The bead is digested in aqua regia and analyzed on an atomic absorption instrument. Over-range values for rocks are re-analyzed using gold assay methods.

Appropriate reference materials accompany the samples through the process allowing for quality control assessment. Results are entered and printed along with quality control data (repeats and standards). The data is faxed and/or mailed to the client.

*K:Methods/geoauana*

## **Analytical Procedure Assessment Report**

### ***MULTI ELEMENT ICP ANALYSIS***

Samples are catalogued and dried. Soil samples are screened to obtain a -80 mesh sample. Samples unable to produce adequate -80 mesh material are screened at a coarser fraction. These samples are flagged with the relevant mesh. Rock samples are 2 stage crushed to minus 10 mesh and pulverized on a ring mill pulverizer to minus 140 mesh, rolled and homogenized.

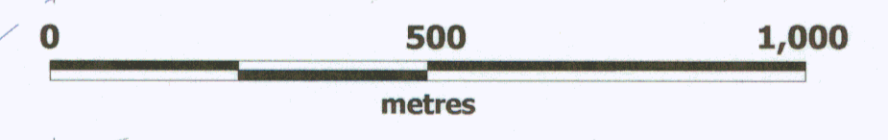
A 0.5 gram sample is digested with 3ml of a 3:1:2 (HCl:HN03:H2O) which contains beryllium which acts as an internal standard for 90 minutes in a water bath at 95°C. The sample is then diluted to 10ml with water. The sample is analyzed on a Jarrell Ash ICP unit.

Results are collated by computer and are printed along with accompanying quality control data (repeats and standards). Results are printed on a laser printer and are faxed and/or mailed to the client.



Pilot Soils, Zn ppm

- 75 to 100
- < 75 ppm
- No Sample

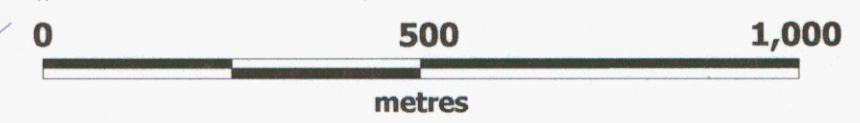


<b>Teck Cominco Limited</b> P.O. Box 938, Station Main, Kamloops, B.C. V2C 6N4			
<b>PILOT PROPERTY</b> Whitehorse Mining District, YT <b>SOIL GEOCHEMICAL MAP</b> <b>ZINC PPM</b>			
SCALE: 1:10,000	DATUM: NAD27, Zone 7	NTS No: 115k/09	Figure: <b>10</b>
DATE: February, 2002	DRAWN BY: P.B.	DWG: Fig10_Zn in soil.WOR	



Soils, Pb ppm

- ◆ 20 to 30
- < 20 ppm
- No Sample

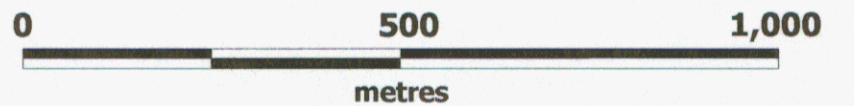


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<b>PILOT PROPERTY</b> Whitehorse Mining District, YT			
<b>SOIL GEOCHEMICAL MAP</b> <b>LEAD PPM</b>			
SCALE: 1:10,000	DATUM: NAD27, Zone 7	NTS No: 115k/09	Figure: 9
DATE: February, 2002	DRAWN BY: P.B.	DWG: Fig9_Pb in soil.WOR	



Soils, Cu ppm

- 100 to 200
- 70 to 100
- 50 to 70
- < 50 ppm
- No sample



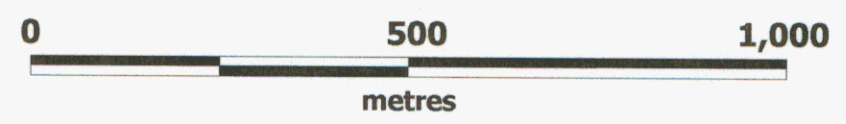
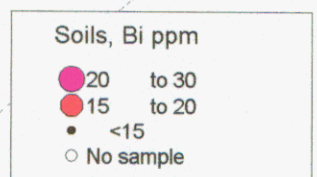
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 Kamloops, B.C. V2C 5N4

**teckcominco**

**PILOT PROPERTY**  
 Whitehorse Mining District, YT

**SOIL GEOCHEMICAL MAP**  
**COPPER PPM**

SCALE: 1:10,000	DATUM: NAD27, Zone 7	NTS No: 115k/09	Figure: <b>8</b>
DATE: February, 2002	DRAWN BY: P.B.	DWG: Fig8_Cu in soil.WDR	



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Kamloops, B.C. V2C 6N4



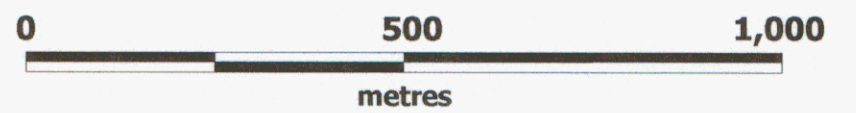
**PILOT PROPERTY**  
Whitehorse Mining District, YT  
**SOIL GEOCHEMICAL MAP**  
**BISMUTH PPM**

SCALE: 1:10,000	DATUM: NAD27, Zone 7	NTS No: 115K/09	Figure:
DATE: February, 2002	DRAWN BY: P.B.	DWG: Fig7_Bi in soil.WOR	<b>7</b>

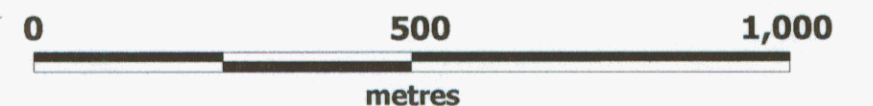
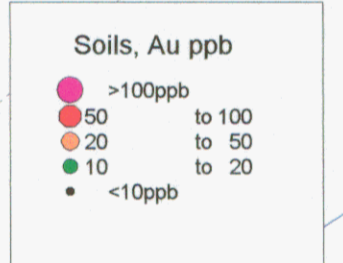


Soils, As ppm

- 500 to 1,000 ppm
- 100 to 200
- 50 to 100
- <50 ppm
- No sample



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<b>PILOT PROPERTY</b> Whitehorse Mining District, YT			
<b>SOIL GEOCHEMICAL MAP</b> <b>ARSENIC PPM</b>			
SCALE: 1:10,000	DATUM: NAD27, Zone 7	NTS No: 115K/09	Figure:
DATE: February, 2002	DRAWN BY: P.B.	DWG: Fig5_As in soil.WOR	<b>6</b>



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<b>PILOT PROPERTY</b> Whitehorse Mining District, YT			
<b>SOIL GEOCHEMICAL MAP</b> <b>GOLD PPB</b>			
SCALE: 1:10,000	DATUM: NAD27, Zone 7	NTS No: 115k/09	Figure: <b>5</b>
DATE: February, 2002	DRAWN BY: P.B.	DWG: fig5_Au in soils.WOR	