

2003 TECHNICAL REPORT

on work performed by  
G Richards  
and  
D Bennett

As Partial Fulfillment of their  
2003 GRASSROOTS PROSPECTING PROGRAM  
under the  
YUKON MINING INCENTIVES PROGRAM  
Numbers 03-066 & 03-067

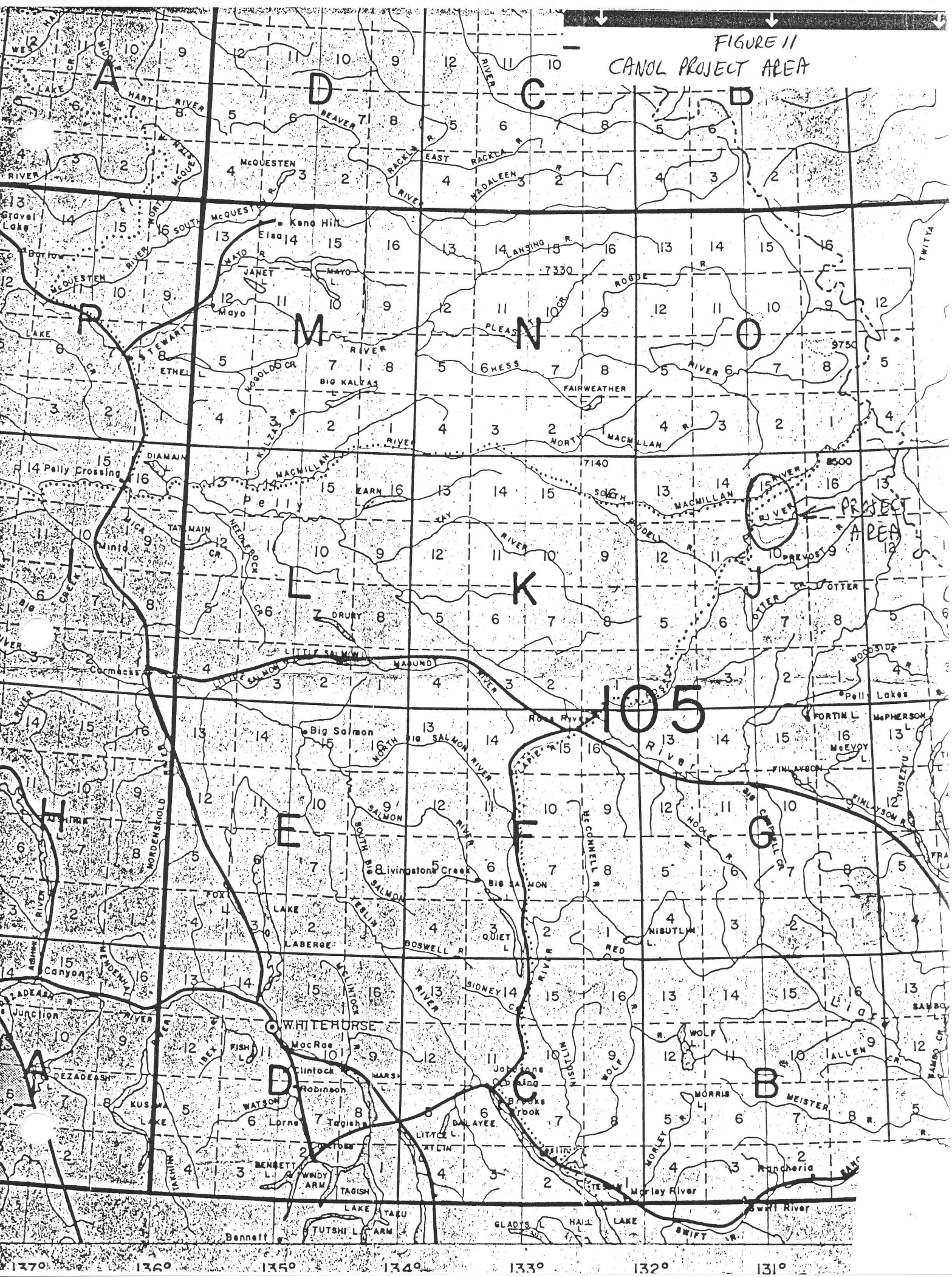
In the  
CANOL AREA  
NTS 105J/10,11,14,15  
and the  
DEMPSTER AREA  
NTS 116G/01,08,09  
116H/14,15  
116I/02-04,06-09,16

January 23, 2004

G Richards & D Bennett

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PO Box 2703  
Whitehorse, Yukon Y1A 2C8

FIGURE 11  
CANOL PROJECT AREA



## CANOL AREA

### LOCATION, ACCESS & WORK PROGRAM.

Richards and Bennett left Carmacks by truck on the morning of June 29 for Sheldon Lake on the Canol Road. They camped at Sheldon Lake. On the 30<sup>th</sup> they inflated their boat packed gear and boated up the Ross River until shallow water prevented further progress. From a camp on the north shore of the river and a second camp further downstream they conducted exploration traverses over a portion of the survey area. They returned to their truck on the shore of Sheldon Lake on July 6<sup>th</sup> where they camped and conducted the prospecting until they left the area for Whitehorse on July 10<sup>th</sup>. Following is a summary of their work.

Day	Date	Activity D Bennett	Activity G Richards
1	June 29	Drove Carmacks – Ross River – Sheldon Lake	
2	30	Inflated boat and boated upstream on Ross River	
3	July 1	Silt & till sampled	Silt & till sampled
4	2	“	“
5	3	“	“
6	4	“	“
7	5	“	“
8	6	Bulk sample and boated down Ross R to Sheldon L	
9	7	Silt & till sampled	Bulk Sampled
10	8	“	Silt & till sampled
11	9	“	“
12	10	Bulk sampled. Packed camp, drove Whitehorse.	

### GEOLOGY.

Chert, siltstone and shale of the Road River Group and minor Earn Group sediments underlie most of the area surveyed. Volcanic rocks within the Road River Group, and which formed a target for diamond exploration, were noted in one area and were sampled by till and stream samples for

metals and also by a bulk sample for diamonds. No outcrop or angular float that might be indicative of shallow outcrop was found on the hills that were traversed on both sides of Ross River. The area sampled by P 249 to 263, where the best geochemical results were obtained contained angular float of chert, shale and limy siltstone.

#### WORK DONE.

Silt and till samples were collected on traverses oriented across ice as best as possible. Till samples were collected as shown on Figure 2 by digging with mattock into till below a thin vegetative cover. About one kg of till was collected and placed into appropriately numbered gusseted kraft sample bags. A corresponding numbered flag was tied to a nearby tree. Rock type of nearby float and type of soil chips in the till sample pit was noted. Rock chip samples were collected from a few pieces of float by collecting from three to seven rock chips and placing them into numbered kraft sample bags and labeling a piece of flagging and tying to an adjacent tree. Silt samples were collected by scoop from active stream sediment in creeks and placed into numbered gusseted kraft sample bags. Many of the silt samples were screened in the field through a minus-20 mesh screen. Biogeochemical samples were collected from bark on a white spruce or black spruce tree, four to eight inches in diameter. A paint scraper and paper plate was used to collect the bark, which was placed into a numbered gusseted kraft sample bag. A numbered flag was hung from the tree. Biogeochemical samples were only collected if the ground was so frozen that till samples could not be collected. 137till, 10 rock, 44 silt, and 54 bark samples were collected in the area.

5 Bulk samples were collected by wet screening into a large pail 15 to 20 kg of minus-16 mesh material from gravel bars at sample sites. Screened

material was scooped into two, numbered, spun-polyester bags, which allowed much of the water to soak out of the bag and the sample to dry. Samples were carefully packed in large plastic pails for transport back to Whitehorse where they were packed into rice bags for shipment to The Saskatchewan Research Council in Saskatoon for processing. Here samples were further screened and separated by dense liquids to fractions with a specific gravity >3.1. Magnetic separation was used for further separation. Grains of .25 to .85 mm were examined for selection of grains of pyrope, eclogitic garnet, chromite, ilmenite, olivine, clinopyroxene, tourmaline and others, if present.

#### RESULTS.

Results were discouraging. A high background for Zn and Ag is known from RGS data. Till sample P253 and silt samples P254-P259 were anomalous for Ag, Zn, Cu, Mo, Ni, U, and Mn possibly reflecting stratabound mineralization. This area lies about three-km north of minfile occurrence 105J/12 and right over one of the weak airborne government anomalies. Outcrops immediately north, along the Canol road, strike northeasterly with near vertical attitudes. No gold anomalies were found in any of the samples.

Bulk sample J5, which was draining the one area of known volcanic rocks, contained 8 chromite grains and one ilmenite grain. However the chrome oxide content of the chromites were far too low to be of significance as diamond indicator minerals.

#### CONCLUSIONS AND RECOMMENDATIONS.

No encouragement for gold or diamond mineralization was found in the Canol Area of the project. Some encouragement for base metal

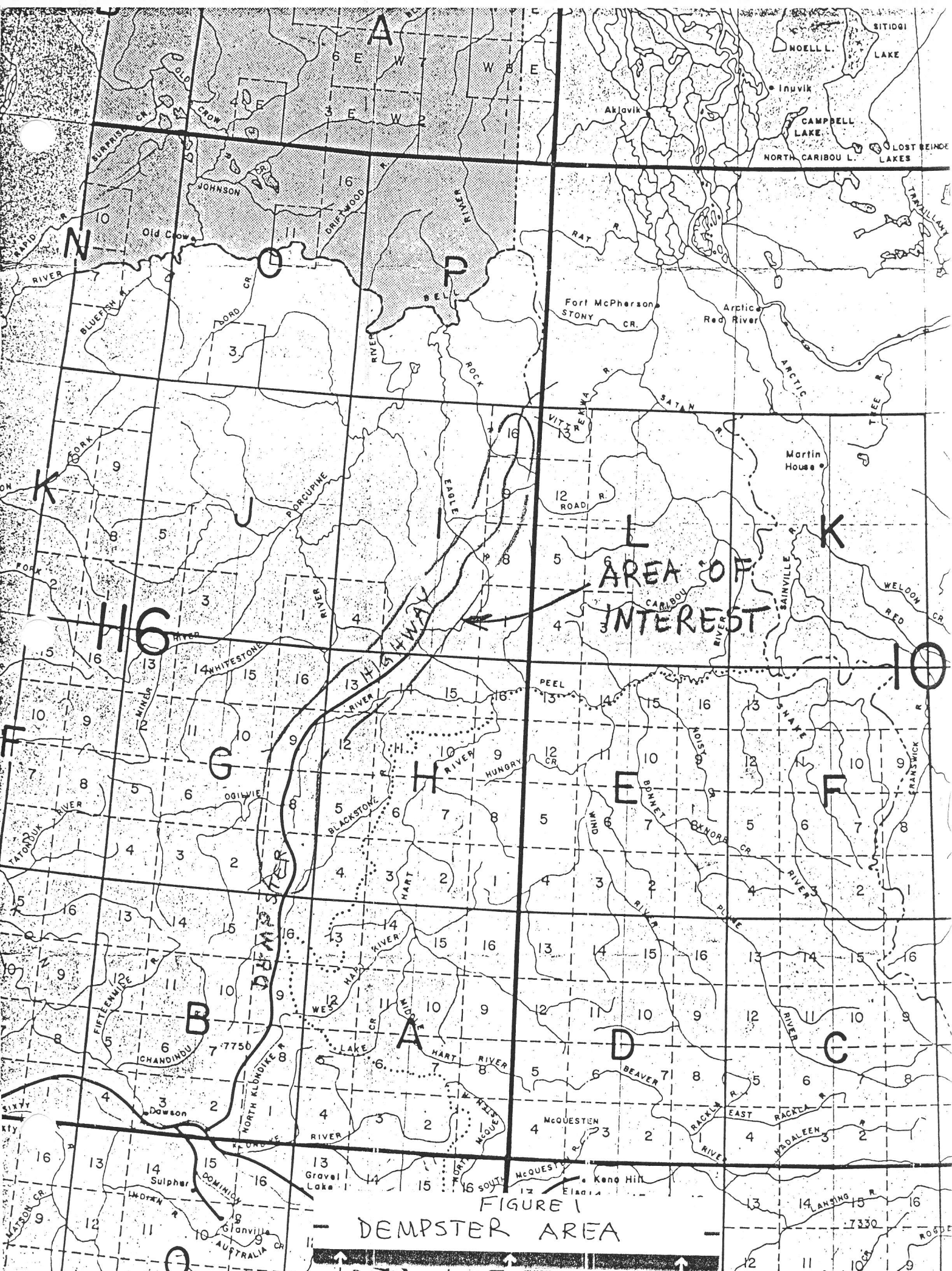


FIGURE 1  
- DEMPSTER AREA

mineralization with anomalous silver exists in one area associated with a weak airmag high and three km north of a minfile Zn occurrence.

The location, metal prices and difficulty of developing interest in a base metal occurrence at this locality makes follow-up unwarranted at this time. However, the presence of anomalous silver values does make this target of some interest.

## **DEMPSTER AREA**

### **LOCATION, ACCESS AND WORK PROGRAM**

The area lies on both sides of the Dempster Highway from Engineer Creek to White Fox Creek, north of the Arctic Circle. Access was made via the Dempster Highway from where traverses were made to creeks targeted for bulk sampling for diamond exploration. One day of helicopter support was used to access slightly more remote sample sites and to collect some of the previously collected and stashed samples. Following is a summary of the prospector's work.

Day	Date	Activity
		D Bennett & G Richards
13	June 2	Drove Whitehorse-Engineer Creek. Bulk Sample D1.
14	3	Bulk Sample D2, D3
15	4	Bulk Sample D4, drove Eagle Plains
16	5	Bulk Sample D5-7
17	6	Bulk Sample D8-10
18	7	Traverse in to McParker Ck.

19	8	Search for gravel move camp to forks McP Ck
20	9	Search south fork. Traverse back to truck.
21	10	Traverse in, bulk sample D11
22	June 11	Traverse out to truck. Drove Whitehorse.
23	July 21	Drove Whitehorse to Eagle Plain.
24	22	Traverse in, bulk sample D12.
25	23	Traverse out to truck. To Eagle Plain.
26	24	Helicopter spot landings. Bulk sample K1 to K5, pick up stashed D samples.
27	25	Processed K1 to K5 samples
28	26	Traverse in, bulk sample D13.
29	27	Traverse out to truck.
30	28	Bulk sample D14. Drove Ogilvie River.
31	29	Drove Whitehorse, ship samples.

#### WORK DONE.

Program as proposed was a first pass in untested territory for kimberlites, lamproites and other potassic intrusions using bulk samples reduced by heavy liquids and magnetic processing to yield diamond indicator minerals. Cretaceous sediments cover the central portion of the survey area and Paleozoic sediments cover the north and south portions of the survey area.

19 Bulk samples were collected and processed as described above under the Canol Area. Samples collected by helicopter were approximately 30 to 40 kg of minus-8 mesh material quickly screened. These samples were taken to a nearby creek and screened the following day to minus-16 mesh.



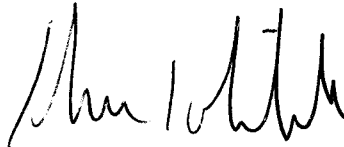
RESULTS.

Results were discouraging. No diamond indicator minerals of any kind were recovered.


CONCLUSIONS AND RECOMMENDATIONS.

No further work is warranted in the immediate area of the samples. If further sampling is undertaken, drainages well removed from the present survey area should be considered.

Respectfully yours

A handwritten signature in black ink, appearing to read "Gordon G Richards". The signature is fluid and cursive, with the first name being particularly prominent.

Gordon G Richards

A handwritten signature in black ink, appearing to read "David R. Bennett". The signature is cursive and somewhat stylized.

David Bennett



GEOCHEMICAL ANALYSIS CERTIFICATE



Richards, Gordon PROJECT CANOL File # A303591

6410 Holly Park Drive, Delta BC V4K 4W6

Table with columns for SAMPLE#, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, Al, Na, K, W, Zr, Sn, Be, Sc, S and units (ppm, ppb, %).

GROUP 11-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCl-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS. - SAMPLE TYPE: TILL S150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 21 2003 DATE REPORT MAILED: Sept 16/03 SIGNED BY: [Signature] D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



Table with columns: SAMPLE#, Mo ppm, Cu ppm, Pb ppm, Zn ppm, Ag ppb, Ni ppm, Co ppm, Mn ppm, Fe %, As ppm, U ppm, Au ppm, Th ppm, Sr ppm, Cd ppm, Sb ppm, Bi ppm, V ppm, Ca %, P %, La ppm, Cr ppm, Mg %, Ba ppm, Ti %, Al %, Na %, K %, W ppm, Zr ppm, Sn ppm, Be ppm, Sc ppm, S %. Rows include samples P292 to P297, P298 to P299, Q107 to Q117, Q118 to Q126, Q132 to Q141, Q142 to Q159, Q160 to Q166, Q168 to Q174, and STANDARD DST5.

Sample type: TILL S150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Be ppm	Sc ppm	S %
Q175	5.23	120.50	15.03	150.4	573	29.7	6.6	246	2.10	29.0	4.7	<.1	7.2	123	2.00	3.49	.26	21.4	.59	.172	27	59	.31	1649	.172	4.00	.480	1.77	1.5	48.2	1.4	2	6.9	.08
Q176	6.75	41.51	26.08	104.7	1847	17.8	5.1	229	2.42	27.0	4.8	<.1	8.3	200	.52	6.38	.62	27.4	.25	.208	32	92	.37	345	.324	4.70	.268	1.95	2.4	66.6	1.9	2	8.3	.20
Q177	5.84	54.64	16.71	166.3	1104	28.0	7.9	307	2.48	22.1	5.1	<.1	9.2	144	.65	4.13	.26	24.1	.43	.114	32	71	.41	1944	.268	5.14	.584	1.78	1.6	65.0	1.6	2	7.1	<.04
Q178	6.20	61.66	18.25	205.6	681	50.9	14.7	556	2.61	34.8	4.8	<.1	8.5	115	1.44	4.71	.29	26.4	.52	.190	29	75	.39	2013	.223	4.79	.452	1.67	1.6	50.9	1.8	2	7.0	<.04
Q180	3.93	20.03	13.36	36.0	2037	8.5	1.7	90	2.39	27.7	3.8	<.1	7.9	93	.09	3.08	.23	20.4	.23	.067	31	64	.32	1688	.300	4.46	.339	1.58	1.5	59.4	1.9	1	6.9	<.04
Q181	4.32	33.51	15.33	139.3	559	20.4	6.6	265	2.78	29.1	3.2	<.1	7.6	74	.46	3.06	.25	17.9	.41	.189	23	54	.28	1371	.166	4.72	.337	1.25	1.9	41.1	1.2	1	5.3	.04
Q182	5.61	32.48	18.82	108.4	828	20.7	4.4	242	1.71	19.0	3.9	<.1	7.0	183	.66	3.36	.25	23.3	.55	.119	26	66	.35	2142	.259	4.45	.719	1.70	1.5	68.0	1.8	1	6.4	.05
Q183	8.04	41.62	19.56	157.7	1165	26.8	7.1	804	2.20	20.2	4.8	<.1	7.6	180	1.51	4.46	.26	28.6	.64	.174	29	81	.43	2796	.260	4.69	.634	1.68	2.0	64.3	1.7	1	7.5	.10
Q184	6.24	45.44	18.39	186.0	405	34.6	9.5	385	2.80	24.2	4.1	<.1	8.6	120	1.10	2.98	.23	19.3	.58	.185	31	68	.45	2030	.261	5.08	.635	1.65	1.3	61.6	1.8	2	7.6	.04
Q185	18.60	70.25	18.91	304.0	1969	61.1	15.7	359	3.01	21.9	4.8	<.1	11.1	58	4.04	5.19	.21	42.6	.96	.211	37	94	.74	1330	.389	6.39	.138	2.14	1.2	76.0	2.3	3	11.0	<.04
Q187	4.06	44.63	17.21	195.5	408	40.2	12.6	512	3.30	18.5	3.1	<.1	9.5	105	1.11	2.11	.22	14.4	1.80	.204	33	78	.89	1716	.357	6.27	.613	2.13	1.3	64.0	2.2	2	10.3	.04
Q188	12.99	65.15	16.45	234.0	538	47.2	7.7	334	3.43	33.3	3.9	<.1	8.4	103	1.28	4.15	.27	22.0	.44	.156	29	89	.47	2059	.313	5.32	.455	1.86	1.1	71.1	1.8	2	9.4	<.04
Q189	5.35	61.36	16.15	202.6	377	34.7	10.0	367	3.10	29.2	4.2	<.1	8.9	99	.54	4.56	.24	22.3	.31	.114	34	71	.51	3587	.328	4.82	.388	1.65	1.3	58.2	1.8	2	8.3	<.04
Q190	4.37	38.35	12.11	129.5	410	19.7	4.5	221	2.32	19.8	3.3	<.1	6.9	150	.28	3.11	.19	18.6	.45	.100	28	54	.43	2686	.301	4.93	.720	1.67	1.1	65.2	1.6	2	6.1	<.04
RE Q190	4.34	35.97	11.88	132.4	429	19.3	4.6	222	2.29	19.1	3.1	<.1	6.6	154	.26	3.08	.17	18.6	.44	.100	28	45	.43	2649	.293	4.85	.721	1.64	1.3	66.2	1.5	1	6.1	<.04
Q192	5.85	71.02	15.19	256.0	526	50.4	9.6	457	3.07	29.5	4.8	<.1	8.0	113	1.11	5.12	.22	25.6	.42	.159	31	79	.55	5401	.291	4.78	.339	1.78	1.3	53.5	1.6	2	9.0	.07
Q193	5.25	70.91	23.93	223.6	488	58.8	28.8	800	3.72	29.7	4.0	<.1	10.0	151	1.00	5.38	.33	21.8	.71	.135	37	86	.66	4290	.358	6.13	.332	2.27	1.5	61.7	2.0	2	10.6	.05
Q200	7.66	40.12	16.02	200.5	790	28.3	7.9	356	2.44	25.3	3.9	<.1	6.8	93	.77	4.06	.21	27.1	.46	.128	25	68	.36	1674	.218	4.48	.480	1.48	1.3	47.1	1.5	2	5.9	<.04
STANDARD DST5	13.87	151.51	29.94	171.8	380	33.2	15.6	1105	4.41	23.9	7.0	<.1	6.7	384	4.99	6.88	5.95	12.3	2.31	.120	27	233	1.23	715	.421	7.39	1.846	1.43	10.6	47.7	7.0	2	12.9	.08

Sample type: TILL S150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT CANOL File # A303591 Page 1 (b)  
6410 Holly Park Drive, Delta BC V4K 4W6



SAMPLE#	Y	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
P201	11.9	47.45	5.7	21.4	3.9	.6	2.9	.4	2.3	.4	1.6	.2	1.9	.2	1.81	23.8	79.2	.6	6.86	5.5	12.24
P203	20.1	55.49	6.9	27.4	5.1	1.1	4.6	.7	3.9	.7	2.4	.3	2.5	.3	2.10	25.0	81.5	.6	7.09	6.8	11.94
P204	16.3	52.26	6.6	26.1	4.9	.9	3.5	.6	3.0	.6	1.9	.2	1.8	.2	1.71	23.7	72.2	.6	6.68	4.6	10.90
P205	11.3	49.19	5.9	22.4	3.9	.7	2.7	.4	2.1	.3	1.4	.2	1.7	.2	1.66	21.0	77.3	.5	5.96	6.7	11.12
P208	10.9	57.94	6.6	24.3	3.9	.6	2.1	.4	1.9	.4	1.5	.2	1.7	.2	2.08	26.0	108.0	.8	9.39	7.7	15.90
P219	9.1	49.94	5.9	22.6	3.6	.6	2.3	.3	1.8	.3	1.2	.2	1.3	.2	1.60	17.6	86.7	.7	8.27	5.3	14.69
P221	10.8	42.80	5.1	19.6	3.4	.5	2.4	.4	1.8	.4	1.4	.2	1.5	.2	1.60	26.3	85.8	.5	6.27	5.7	12.48
P225	16.5	58.87	7.3	28.1	5.7	1.0	3.9	.7	3.2	.6	2.1	.2	2.1	.2	1.87	26.9	68.8	.7	8.97	3.8	10.35
P227	15.2	57.83	6.9	26.3	5.1	1.0	3.7	.6	3.0	.5	2.0	.2	1.9	.2	1.93	37.9	85.5	.7	8.65	5.2	13.68
P230	10.9	48.67	5.5	19.9	3.4	.6	2.3	.4	1.8	.4	1.3	.2	1.6	.2	2.04	23.9	110.7	.7	8.45	7.4	16.74
P232	16.2	58.98	7.1	27.7	5.6	1.0	4.0	.7	3.3	.5	1.9	.2	2.1	.2	1.69	28.6	72.4	.6	7.77	4.2	10.98
P236	22.3	65.86	8.6	33.5	6.8	1.4	5.8	.9	4.0	.8	2.8	.3	2.9	.3	1.84	29.3	85.3	.6	7.38	5.2	12.73
P237	18.0	59.57	7.3	28.9	5.8	1.1	4.6	.7	3.3	.6	2.1	.2	2.1	.3	1.66	27.4	78.5	.6	7.21	4.4	12.24
P238	11.6	52.32	6.2	23.3	4.2	.8	2.5	.4	2.2	.4	1.5	.2	1.5	.2	1.88	32.0	81.7	.6	6.69	5.4	12.92
P239	10.6	45.50	5.2	19.4	3.6	.6	2.5	.4	2.1	.4	1.3	.2	1.6	.2	1.64	28.5	79.6	.5	6.01	6.0	12.48
RE P239	11.0	46.46	5.3	20.8	3.7	.6	2.6	.4	2.0	.4	1.4	.2	1.6	.2	1.69	30.6	82.2	.5	6.00	6.4	12.53
P241	11.9	55.44	6.6	24.3	4.5	.8	2.8	.5	2.3	.4	1.5	.2	1.6	.2	1.85	29.0	84.9	.6	7.84	5.8	14.35
P251	19.3	66.32	8.4	33.0	6.2	1.0	4.7	.8	3.5	.6	2.2	.3	2.5	.3	1.82	22.6	75.7	.6	6.76	3.4	10.76
P253	27.8	60.26	8.3	33.8	6.6	1.2	5.2	.9	4.6	.9	3.2	.4	3.3	.4	1.84	25.7	86.6	.6	8.19	4.7	13.39
P261	19.3	61.79	8.4	32.5	6.2	1.2	4.3	.7	3.5	.6	2.2	.3	2.3	.3	1.66	20.2	72.8	.5	6.31	2.9	10.60
P266	13.7	47.97	6.2	24.7	4.5	.8	2.9	.5	2.5	.5	1.7	.2	1.9	.2	1.70	20.8	98.4	.5	6.74	6.3	14.27
P267	17.0	52.86	6.7	26.4	5.2	1.0	3.5	.6	3.1	.6	2.0	.2	2.1	.2	1.83	26.4	91.6	.6	6.72	5.8	13.90
P268	10.0	57.76	6.8	25.5	4.4	.8	2.6	.4	1.9	.3	1.2	.2	1.4	.2	2.09	17.2	106.1	.8	8.79	5.9	15.15
P269	10.9	48.51	5.8	22.1	4.0	.6	2.3	.4	2.1	.4	1.4	.2	1.6	.2	1.77	37.5	89.7	.6	6.66	6.1	15.28
P270	18.3	52.69	6.7	26.1	4.8	.9	3.3	.6	3.0	.6	2.0	.3	2.3	.3	2.02	31.3	119.2	.7	8.05	8.3	20.24
P271	15.1	56.94	7.2	28.9	5.1	.9	3.6	.6	2.8	.5	1.7	.2	2.0	.2	1.81	31.0	85.5	.6	6.67	4.6	13.77
P280	19.2	63.29	8.2	34.8	6.5	1.2	4.2	.7	3.4	.6	2.1	.3	2.3	.3	1.82	17.2	62.5	.6	6.76	2.5	9.15
P281	20.8	56.99	7.1	27.5	5.3	1.0	4.1	.7	3.8	.7	2.4	.3	2.4	.3	2.16	40.7	135.6	.7	7.99	10.2	24.73
P283	10.8	47.01	5.7	21.9	4.0	.7	2.6	.4	1.9	.4	1.4	.2	1.6	.2	1.82	20.2	101.9	.5	6.29	5.1	13.60
P284	8.4	54.03	6.4	24.7	4.2	.6	2.4	.3	1.7	.3	1.1	.1	1.2	.2	2.07	14.5	66.4	.8	8.73	5.2	13.61
P288	8.9	51.52	5.7	21.9	3.6	.6	1.9	.3	1.6	.3	1.1	.1	1.4	.2	2.12	21.2	74.3	.8	9.23	4.8	12.16
P289	10.0	51.99	5.9	22.1	3.9	.6	2.0	.3	1.7	.4	1.3	.2	1.5	.2	1.90	32.4	91.4	.7	8.14	5.7	14.80
P290	26.8	65.23	8.5	35.3	7.6	1.6	5.8	1.1	5.2	.9	3.2	.4	2.8	.3	2.13	30.0	68.8	.7	8.68	4.2	11.25
P291	13.7	52.67	6.3	24.8	4.9	.8	3.2	.6	2.7	.5	1.6	.2	1.7	.2	1.87	30.0	71.4	.6	8.11	4.0	12.68
STANDARD DST5	14.8	49.65	5.5	21.2	4.3	1.0	3.3	.6	3.0	.5	1.9	.2	1.8	.2	1.64	23.2	54.6	.5	8.59	8.3	18.10

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCl-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS.  
- SAMPLE TYPE: TILL S150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 21 2003 DATE REPORT MAILED: Sept 16/03 SIGNED BY: C. Leong TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Y ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Hf ppm	Li ppm	Rb ppm	Ta ppm	Nb ppm	Cs ppm	Ga ppm
P292	15.5	63.08	7.0	29.3	6.0	1.2	4.0	.6	3.3	.6	1.8	.2	2.3	.2	1.84	31.2	62.6	.8	9.26	4.7	12.77
P293	9.1	56.13	5.9	23.1	3.9	.7	2.1	.3	1.9	.4	1.1	.2	1.7	.2	2.27	23.6	88.1	1.3	14.80	14.8	17.28
P294	12.6	57.79	6.2	26.3	5.1	1.0	3.6	.5	2.9	.5	1.5	.2	1.8	.2	2.09	30.6	56.2	1.0	11.55	6.6	12.18
P295	10.3	60.40	6.5	25.5	4.7	.9	2.8	.4	2.2	.4	1.2	.2	1.7	.2	2.19	41.5	88.9	1.3	17.09	8.2	17.41
P297	13.0	62.18	6.9	29.2	5.6	1.3	3.7	.6	2.9	.5	1.4	.2	1.9	.2	2.25	32.8	60.4	1.4	17.55	5.7	14.01
P298	12.3	68.64	7.3	30.6	5.7	1.2	3.4	.5	2.8	.5	1.3	.2	1.9	.2	2.45	54.1	70.4	1.5	18.82	6.3	17.36
P299	9.5	61.39	6.2	24.2	4.3	.7	2.5	.3	2.0	.4	1.2	.2	1.7	.2	1.85	38.2	76.6	.8	9.23	7.1	15.04
Q107	11.5	66.96	7.2	30.4	6.4	1.5	4.4	.5	2.6	.4	1.4	.2	2.2	.2	3.13	27.5	57.0	.7	8.13	6.6	17.77
Q115	15.8	65.90	7.2	29.9	5.8	1.0	3.7	.5	3.2	.6	1.6	.2	2.4	.2	2.07	32.5	81.0	.7	7.63	4.6	14.49
Q117	8.4	42.06	4.6	18.3	3.1	.6	1.7	.3	1.6	.3	1.1	.2	1.6	.2	1.74	36.7	76.8	.6	6.38	5.1	15.53
Q118	8.8	48.16	5.2	20.7	3.4	.6	1.9	.3	1.5	.3	1.0	.2	1.6	.2	2.09	16.8	89.1	.6	7.20	5.5	14.78
Q120	9.1	43.56	4.6	18.3	3.1	.5	1.8	.3	1.7	.3	1.0	.2	1.7	.2	1.68	20.0	85.2	.6	7.32	5.3	17.54
Q122	11.6	55.09	5.9	23.8	4.3	.7	2.5	.4	2.3	.4	1.2	.2	2.0	.2	1.81	30.4	71.2	.7	9.40	5.3	13.90
Q125	10.4	55.08	5.9	24.1	4.0	.8	2.1	.3	2.0	.4	1.2	.2	1.9	.2	2.08	16.9	67.7	.8	9.42	4.4	13.43
Q126	8.7	40.89	4.2	16.7	2.9	.5	1.7	.3	1.6	.3	1.0	.2	1.6	.1	1.51	37.1	60.9	.6	7.31	4.4	12.58
Q132	11.4	46.64	5.2	21.2	4.2	.8	2.7	.4	2.0	.4	1.2	.2	1.8	.2	1.76	26.0	61.8	.5	6.40	3.7	12.78
Q133	10.6	50.14	5.4	22.7	4.1	.8	2.6	.3	2.0	.4	1.1	.2	1.7	.2	1.49	24.1	64.5	.6	7.42	4.0	12.65
Q135	12.2	52.06	5.7	23.5	4.2	.8	2.7	.4	2.2	.5	1.3	.2	1.8	.2	1.64	23.9	64.4	.6	7.74	3.8	12.23
RE Q135	12.2	49.22	5.4	22.8	4.3	.8	2.7	.4	2.4	.4	1.3	.2	1.9	.2	1.67	25.2	66.0	.6	8.00	3.8	12.14
Q141	11.0	47.55	5.0	20.2	3.9	.6	2.2	.3	2.1	.4	1.2	.2	1.8	.2	1.60	29.4	103.9	.6	6.97	7.5	18.23
Q142	9.6	50.01	5.3	21.1	3.7	.7	2.2	.3	1.9	.3	1.0	.2	1.7	.2	1.74	30.4	77.9	.7	8.14	4.8	13.62
Q145	18.6	68.81	7.4	30.4	6.2	1.1	4.1	.6	3.6	.7	1.9	.3	2.5	.3	1.81	35.1	85.0	.7	8.32	5.7	15.10
Q146	15.3	63.00	6.8	27.7	5.5	1.0	3.6	.5	3.1	.6	1.6	.2	2.3	.2	2.01	34.5	87.6	.8	8.39	5.9	15.77
Q149	12.7	57.47	6.3	25.6	4.7	.8	2.8	.4	2.3	.5	1.3	.2	1.9	.2	1.77	26.1	77.2	.7	7.84	4.8	14.17
Q159	13.3	46.10	4.8	19.4	3.8	.8	2.4	.4	2.3	.4	1.3	.2	1.9	.2	2.18	22.8	79.3	.6	6.81	6.3	19.89
Q160	7.5	38.36	4.0	16.2	2.7	.4	1.4	.2	1.4	.3	.8	.1	1.4	.2	1.48	17.4	53.3	.5	5.60	5.4	12.40
Q161	7.9	44.15	4.5	18.4	3.4	.5	1.7	.3	1.4	.3	.9	.1	1.3	.1	1.86	14.3	48.1	.7	7.45	5.4	10.76
Q164	8.1	45.71	4.7	19.3	3.2	.5	1.6	.2	1.5	.3	.9	.1	1.6	.2	1.92	15.7	50.4	.6	6.52	5.0	14.28
Q165	8.2	48.86	4.8	18.8	3.3	.5	1.8	.3	1.5	.3	.9	.1	1.4	.1	1.82	15.7	50.5	.6	7.57	3.7	11.96
Q166	12.4	47.62	4.7	19.3	3.7	.7	2.6	.4	2.1	.4	1.2	.2	1.7	.2	2.32	17.5	57.5	.6	6.93	9.9	16.34
Q168	11.3	49.88	5.2	21.0	3.7	.7	2.2	.3	2.1	.4	1.3	.2	1.9	.2	2.00	33.7	70.1	.6	7.14	5.6	15.12
Q172	12.6	42.71	4.7	19.6	3.4	.6	2.1	.4	2.2	.5	1.4	.2	2.0	.2	1.79	26.1	82.2	.5	6.31	5.5	15.65
Q173	11.1	52.43	5.6	22.9	4.0	.7	2.1	.3	2.1	.4	1.2	.2	1.8	.2	2.00	20.8	76.0	.6	7.20	5.2	15.74
Q174	14.9	49.89	5.5	23.2	4.4	.9	2.9	.5	2.7	.5	1.5	.2	2.0	.2	1.64	21.4	63.5	.5	5.36	4.1	12.82
STANDARD DST5	14.0	52.96	5.2	21.7	4.5	1.1	3.5	.5	2.7	.5	2.0	.2	1.8	.2	1.64	25.4	49.2	.6	7.80	8.1	19.20

Sample type: TILL S150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Y ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Hf ppm	Li ppm	Rb ppm	Ta ppm	Nb ppm	Cs ppm	Ga ppm
Q175	17.2	45.83	6.4	25.7	5.2	1.0	3.7	.6	3.1	.6	1.9	.2	2.1	.2	1.51	15.8	70.0	.4	5.67	4.9	11.57
Q176	19.3	51.30	7.5	29.9	6.4	1.3	4.3	.8	3.8	.7	2.4	.3	2.3	.3	2.05	22.3	90.6	.8	9.74	10.9	15.22
Q177	14.9	53.07	7.0	26.5	5.1	.9	3.4	.6	3.0	.5	1.8	.3	1.8	.2	2.09	26.6	84.5	.6	7.04	7.9	14.29
Q178	16.1	47.72	6.3	25.6	4.9	1.0	3.4	.6	3.0	.5	1.9	.2	2.1	.3	1.65	24.3	79.1	.5	6.22	6.3	13.37
Q180	12.8	49.27	6.5	24.8	4.8	.9	3.1	.5	2.5	.5	1.7	.2	2.0	.3	1.98	22.2	78.7	.7	9.00	15.4	14.54
Q181	11.2	39.17	5.1	19.8	3.9	.7	2.7	.5	2.3	.4	1.4	.2	1.4	.2	1.40	23.6	61.9	.4	4.84	5.0	10.60
Q182	13.9	42.52	5.6	22.2	4.3	.8	3.4	.5	2.6	.5	1.7	.2	1.9	.2	2.18	21.4	76.9	.6	7.27	5.8	15.11
Q183	16.3	45.06	6.4	25.2	5.0	.9	4.1	.6	3.1	.6	2.0	.3	2.4	.3	2.11	23.5	77.8	.6	7.09	7.0	14.42
Q184	18.5	54.20	7.0	27.4	5.5	1.1	4.1	.7	3.6	.7	2.2	.3	2.3	.3	1.97	32.5	79.1	.6	6.91	6.1	14.31
Q185	26.8	62.96	8.6	33.8	7.0	1.2	5.4	1.0	5.1	.9	3.2	.4	3.1	.4	2.55	28.4	109.2	.7	8.58	6.5	17.80
Q187	23.0	57.13	7.6	29.9	6.1	1.2	5.0	.9	4.5	.8	2.9	.3	2.6	.3	2.17	30.3	99.6	.7	8.48	8.3	17.14
Q188	20.0	49.44	6.5	25.5	5.3	.9	4.1	.7	3.6	.7	2.4	.3	2.4	.3	2.08	27.2	84.3	.6	8.17	9.1	16.41
Q189	17.0	56.31	7.3	29.8	5.4	1.0	4.0	.6	3.4	.6	2.0	.3	2.3	.3	1.93	28.1	79.0	.7	9.66	4.9	13.40
Q190	12.4	46.71	6.1	22.8	3.9	.7	3.1	.5	2.2	.4	1.5	.2	1.7	.2	2.08	23.6	72.4	.7	8.81	4.2	13.66
RE Q190	12.5	46.55	5.9	22.4	4.1	.6	2.7	.4	2.2	.4	1.5	.2	1.7	.2	1.95	24.0	72.5	.7	8.68	4.2	13.82
Q192	19.0	51.51	6.9	27.3	5.4	1.0	4.6	.7	3.7	.7	2.2	.3	2.4	.3	1.66	27.8	78.9	.6	8.73	5.8	13.71
Q193	18.2	64.96	8.4	32.4	6.3	1.2	4.8	.7	3.7	.6	2.1	.3	2.2	.3	1.94	45.6	101.2	.8	10.48	10.0	17.79
Q200	12.6	40.56	5.4	20.8	4.0	.7	2.8	.5	2.5	.5	1.5	.2	1.8	.2	1.53	25.8	69.0	.5	5.74	4.3	11.86
STANDARD DST5	14.9	48.66	5.7	22.4	4.5	1.1	3.4	.6	3.0	.5	1.8	.2	1.7	.2	1.56	24.4	54.9	.5	7.84	8.8	18.39

Sample type: TILL S150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT CANOL File # A303593 Page 1 (a)  
6410 Holly Park Drive, Delta BC V4K 4W6



Table with columns: SAMPLE#, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, Al, Na, K, W, Zr, Sn, Be, Sc, S. Rows include sample IDs P210 through Q109 and STANDARD DSTS.

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS.  
- SAMPLE TYPE: SILT S150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 21 2003 DATE REPORT MAILED: Sept 17/03 SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS





SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Be ppm	Sc ppm	S %
Q110	10.24	54.53	17.71	539.0	1159	106.1	21.1	3283	6.05	36.5	4.3	<.1	8.3	157	6.94	4.11	.35	263	.95	.236	28	74	.52	3087	.218	5.34	.498	1.65	2.0	52.9	1.9	2	7.8	.06
Q111	10.53	83.01	18.52	792.5	1072	106.8	11.4	880	2.75	23.5	7.1	<.1	10.0	166	6.15	5.78	.30	365	.92	.190	33	85	.53	2455	.252	5.17	.522	1.78	3.5	62.8	1.9	2	8.0	.06
Q112	7.44	45.82	16.41	429.3	856	82.0	14.7	617	2.37	12.9	4.5	<.1	9.8	211	3.05	2.43	.26	238	1.15	.139	35	64	.61	3118	.285	5.94	.810	1.80	1.8	65.0	2.1	2	7.8	.06
Q113	8.16	106.22	16.74	1543.6	984	169.9	13.5	648	2.75	21.4	5.4	<.1	10.6	184	8.75	4.36	.23	311	1.05	.193	38	76	.58	4298	.260	5.27	.730	1.72	5.2	61.4	2.0	2	7.8	.08
Q114	8.16	33.35	17.03	380.1	476	44.3	10.0	1048	4.51	31.3	5.1	<.1	9.5	149	1.85	2.98	.25	215	1.04	.153	34	60	.54	3000	.230	5.00	.618	1.84	1.2	53.1	1.9	2	7.2	.05
Q137	5.97	36.52	14.08	221.3	505	42.4	8.6	469	2.84	14.0	5.2	<.1	11.6	129	1.31	2.74	.19	261	.65	.119	35	70	.52	2723	.292	5.13	.320	1.99	5.1	72.0	2.0	2	7.8	.04
Q147	12.84	44.71	15.44	638.3	655	98.6	16.4	1871	4.83	33.2	4.8	<.1	9.9	143	2.85	3.79	.24	244	.87	.156	28	68	.46	1260	.245	4.83	.409	1.51	2.1	60.9	1.7	2	7.5	.06
Q148	9.65	37.10	13.92	515.8	591	94.7	14.7	3073	4.21	26.7	4.1	<.1	8.6	143	2.66	3.13	.20	222	.90	.155	28	64	.46	1651	.230	4.62	.408	1.48	1.0	56.5	1.5	2	6.9	<.04
Q169	5.90	41.22	12.56	462.1	694	115.1	31.0	2187	4.37	17.1	4.5	<.1	8.2	140	1.84	2.09	.17	172	.99	.166	29	57	.46	2592	.233	5.07	.552	1.41	1.0	61.5	1.6	2	7.9	.11
RE Q169	5.61	44.69	12.00	445.4	608	110.3	30.3	2113	4.22	16.8	4.2	<.1	7.5	135	1.66	1.94	.16	158	.95	.162	27	55	.44	2403	.225	4.88	.533	1.34	2.1	56.0	1.4	2	7.6	.07
Q170	7.87	38.90	12.03	324.3	581	56.6	15.3	6130	5.03	30.7	4.0	<.1	6.6	137	1.94	2.19	.19	161	1.10	.225	22	56	.43	2546	.208	4.49	.567	1.32	.9	47.6	1.3	1	6.7	.09
Q186	6.02	27.55	10.31	228.6	538	39.1	10.1	2959	3.36	11.7	3.5	<.1	7.5	129	2.05	1.34	.13	182	1.17	.187	26	55	.47	1598	.283	4.85	.590	1.42	2.2	65.9	1.5	2	6.8	.06
STANDARD	13.87	151.51	29.94	171.8	380	33.2	15.6	1105	4.41	23.9	7.0	<.1	6.7	384	4.99	6.88	5.95	123	2.31	.120	27	233	1.23	715	.421	7.39	1.698	1.43	10.6	50.3	7.0	2	12.9	.06

Standard is STANDARD DST5. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Y	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
P210	14.9	51.93	6.8	26.0	5.0	.9	4.0	.7	3.2	.6	2.0	.2	1.9	.2	1.66	32.7	84.8	.5	5.48	4.9	14.12
P211	16.3	55.30	7.0	26.5	5.0	.9	4.2	.7	3.3	.6	2.2	.2	2.3	.2	1.69	33.5	86.3	.4	5.29	5.3	14.21
P212	21.7	53.71	6.9	27.7	5.9	1.2	5.2	.9	4.6	.8	2.7	.3	2.7	.3	1.96	35.9	83.4	.5	5.92	5.7	15.11
P213	16.2	64.11	8.1	31.8	6.2	1.0	4.4	.8	3.4	.6	2.0	.2	2.2	.2	2.08	41.6	94.6	.5	5.91	6.7	16.30
P214	16.9	58.95	7.6	29.7	5.8	.9	4.6	.7	3.5	.6	2.3	.3	2.5	.3	2.10	31.7	84.5	.5	5.44	5.2	14.60
P242	14.9	51.94	6.7	25.6	5.2	.8	3.5	.6	2.9	.5	1.9	.2	2.2	.2	2.05	30.9	84.0	.4	5.65	5.9	14.40
P243	20.0	51.74	6.5	26.3	6.0	1.2	5.4	.9	4.4	.7	2.5	.3	2.7	.3	2.15	47.0	113.6	.5	6.49	18.3	20.21
P244	16.7	63.64	8.0	30.2	5.8	.7	4.1	.7	3.5	.6	2.2	.2	2.4	.3	2.07	34.1	97.0	.5	6.79	7.6	16.39
P245	15.4	49.97	6.3	24.3	4.8	.9	3.8	.6	3.0	.5	2.1	.2	2.1	.2	1.71	38.5	90.7	.5	5.72	7.5	15.37
P246	13.7	52.12	6.7	25.2	4.8	.9	3.1	.5	2.7	.5	1.8	.2	1.9	.2	1.86	30.4	89.6	.5	5.80	7.2	15.54
P247	11.6	39.88	5.0	19.8	3.8	.7	2.7	.4	2.4	.4	1.5	.2	1.6	.2	1.58	23.7	66.9	.4	4.97	4.4	12.46
P250	20.9	76.85	9.9	37.1	7.0	1.0	4.8	.8	4.0	.7	2.5	.3	3.0	.3	2.41	30.7	97.8	.6	7.49	5.7	17.16
P254	34.2	44.60	7.0	29.6	6.1	1.2	5.0	.9	5.1	1.0	3.9	.4	3.7	.4	1.80	21.5	85.1	.5	6.26	5.0	14.82
P255	19.1	56.66	6.2	24.6	5.2	.9	3.9	.7	3.6	.7	2.4	.3	2.5	.3	1.89	26.1	79.2	.5	6.38	5.3	16.38
P256	22.0	62.13	8.4	32.8	6.2	1.1	4.9	.8	4.1	.7	2.7	.3	2.9	.4	2.07	26.3	86.3	.6	7.91	5.3	15.47
P257	20.7	49.59	6.9	27.3	5.3	1.0	4.2	.8	3.8	.7	2.6	.3	2.9	.3	1.90	26.6	85.9	.5	6.81	5.3	15.35
P258	19.5	46.65	6.2	24.6	5.0	.9	3.8	.7	3.2	.6	2.4	.3	2.6	.3	1.64	24.6	78.1	.5	6.05	4.8	15.22
P259	18.8	45.74	6.5	25.1	4.9	1.0	3.7	.6	3.3	.6	2.3	.3	2.5	.3	1.73	26.1	86.6	.5	6.71	5.1	14.81
RE P259	18.0	42.81	5.9	22.7	4.5	.8	3.3	.6	3.0	.6	2.2	.3	2.4	.3	1.67	24.7	81.9	.5	6.47	4.9	14.35
P264	17.8	33.90	4.6	18.7	4.2	.9	3.7	.6	3.0	.6	2.3	.3	2.4	.3	1.60	23.7	84.2	.3	4.40	7.9	15.26
P275	18.9	47.59	6.6	26.0	5.3	.9	3.8	.7	3.4	.7	2.3	.3	2.5	.3	1.94	25.9	92.0	.5	6.46	5.0	15.38
P276	17.2	49.67	6.9	26.9	5.3	.8	3.9	.6	3.2	.6	2.2	.3	2.4	.3	2.02	20.2	78.3	.5	6.13	4.2	13.43
P277	20.8	53.58	7.3	28.5	5.4	1.0	4.4	.7	3.6	.7	2.5	.3	2.7	.3	2.15	26.5	92.9	.6	6.91	5.2	15.76
P278	18.4	54.25	7.6	29.5	5.8	1.0	4.1	.7	3.3	.6	2.3	.3	2.5	.3	2.05	20.4	77.5	.5	6.03	4.0	13.03
P279	20.7	52.89	7.5	29.0	5.7	1.0	4.4	.7	3.5	.7	2.6	.3	2.8	.3	2.31	24.2	87.2	.5	6.62	5.1	16.27
P285	18.2	32.69	4.1	17.3	4.1	.9	3.3	.6	3.2	.6	2.3	.3	2.4	.3	1.54	26.9	56.3	.2	3.50	5.8	12.36
P286	22.0	54.02	6.7	26.8	5.7	1.1	4.6	.8	4.1	.8	2.6	.3	2.4	.3	2.13	41.0	94.6	.6	9.40	15.7	17.22
P300	15.6	57.84	7.1	27.0	5.3	1.0	3.7	.6	3.1	.6	2.1	.2	2.1	.2	2.16	37.2	88.9	.6	7.50	8.0	15.41
P301	18.9	51.27	6.0	23.1	5.0	1.0	3.9	.7	3.3	.6	2.3	.3	2.6	.3	2.11	43.6	99.4	.5	6.59	9.5	17.90
Q103	15.8	51.20	6.6	25.6	5.4	.9	4.1	.6	3.0	.5	2.0	.2	2.2	.2	1.57	24.5	79.7	.5	5.76	4.4	13.15
Q104	14.6	42.10	5.4	20.9	4.2	.8	3.4	.5	2.7	.5	1.9	.2	1.9	.2	1.54	26.0	75.0	.4	5.08	5.0	13.20
Q105	12.9	44.34	5.7	21.8	4.3	.8	3.1	.5	2.6	.5	1.7	.2	1.9	.2	2.06	24.8	82.8	.5	6.00	5.4	14.72
Q108	15.1	62.39	7.9	30.9	6.1	.9	4.5	.6	3.3	.5	2.0	.2	2.2	.2	2.50	27.5	85.4	.5	5.67	5.0	14.25
Q109	16.1	52.36	6.9	26.1	5.3	.9	3.7	.6	3.1	.6	2.2	.2	2.2	.3	2.09	29.0	87.3	.5	6.17	5.7	15.03
STANDARD DST5	14.8	47.88	5.6	22.3	4.6	1.1	3.4	.6	2.9	.5	1.9	.2	1.7	.2	1.62	24.0	54.6	.5	7.77	8.5	18.91

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS.  
- SAMPLE TYPE: SILT S150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 21 2003 DATE REPORT MAILED: *Sept 17/03* SIGNED BY: *C. Leong* TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Y ppm	Ce ppm	Pr ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm	Yb ppm	Lu ppm	Hf ppm	Li ppm	Rb ppm	Ta ppm	Nb ppm	Cs ppm	Ga ppm
Q110	19.3	47.65	6.2	24.8	5.3	1.0	4.4	.7	3.7	.7	2.4	.3	2.6	.3	1.66	30.4	84.8	.4	5.50	6.0	14.30
Q111	22.7	53.95	7.2	29.5	6.0	1.1	4.4	.8	4.2	.8	2.7	.3	2.8	.3	2.13	28.7	85.2	.5	6.53	5.4	14.07
Q112	19.4	58.07	7.8	30.7	6.2	1.3	4.8	.7	3.6	.6	2.2	.3	2.4	.3	2.19	39.0	85.2	.5	6.48	5.2	15.13
Q113	23.5	61.75	8.3	32.0	6.3	1.1	4.5	.8	4.1	.8	2.7	.3	2.8	.3	2.11	26.9	79.3	.5	6.58	4.6	13.66
Q114	17.0	57.07	7.5	29.2	5.9	1.1	4.3	.7	3.3	.6	2.0	.2	2.1	.2	1.91	28.3	79.1	.5	5.56	4.7	13.22
Q137	17.0	60.13	7.8	30.2	5.6	.8	3.5	.7	3.0	.6	2.0	.2	2.3	.3	2.43	24.3	88.5	.6	7.09	5.8	14.26
Q147	18.5	47.25	6.3	24.3	5.0	.8	3.4	.6	3.2	.6	2.1	.3	2.0	.2	2.02	26.3	83.0	.5	5.67	6.9	13.30
Q148	16.7	47.41	6.2	23.7	4.8	.8	3.4	.6	3.1	.6	1.9	.2	2.0	.2	1.82	22.9	75.2	.4	5.25	6.2	13.01
Q169	20.8	48.41	6.3	24.8	5.4	1.0	4.6	.7	3.9	.7	2.6	.3	2.6	.3	1.97	38.6	74.9	.5	5.92	6.6	13.44
RE Q169	20.2	45.07	5.8	23.6	5.1	1.0	4.2	.8	3.8	.7	2.3	.3	2.3	.3	1.78	35.2	70.6	.4	5.81	6.2	12.84
Q170	15.3	36.53	4.9	19.0	4.0	.7	3.1	.6	2.8	.5	1.8	.2	1.9	.2	1.40	26.7	64.5	.4	5.65	5.7	11.76
Q186	20.3	43.42	6.0	24.5	5.1	1.0	4.3	.7	3.7	.7	2.4	.3	2.3	.3	2.17	28.8	76.8	.5	6.05	5.9	12.74
STANDARD DST5	14.9	48.66	5.7	22.4	4.5	1.1	3.4	.6	3.0	.5	1.8	.2	1.7	.2	1.56	24.4	54.9	.5	7.84	8.8	18.39

Sample type: SILT S150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE



Richards, Gordon PROJECT CANOL File # A303594 (b)
6410 Holly Park Drive, Delta BC V4K 4W6

Table with 22 columns (SAMPLE#, Y, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Li, Rb, Ta, Nb, Cs, Ga) and 15 rows of data for samples P209, P265, P296, Q106, Q151, Q152, Q162, Q171, RE Q171, Q179, and Q191.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716
(ISO 9002 Accredited Co.)



GEOCHEMICAL ANALYSIS CERTIFICATE



Richards, Gordon PROJECT CANOL File # A303594 (a)
6410 Holly Park Drive, Delta BC V4K 4W6

Table with 28 columns (SAMPLE#, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, Al, Na, K, W, Zr, Sn, Be, Sc, S) and 15 rows of data for samples P209, P265, P296, Q106, Q151, Q152, Q162, Q171, RE Q171, Q179, Q191, and STANDARD.

Standard is STANDARD DST5.

GROUP 1T-MS - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS.
- SAMPLE TYPE: ROCK R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 21 2003 DATE REPORT MAILED: Sept 9/03 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS





SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti ppm	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm			
Q123	.03	2.50	.47	57.0	21	<.1	.06	431	.007	.9<.01	<.2	.01	15.5	.03	<.02	<.02	<.2	.87	.014	.03	1.80	.024	54.7	2	5	<.01	.001	.05	<.1	.1<.02	.01	92	.2<.02	<.1						
Q124	.02	2.26	.23	85.9	11	<.1	.03	546	.003	.8<.01	.4<.01	14.3	.04	<.02	<.02	<.2	.83	.007	.02	1.72	.031	57.5	1	7	<.01	.001	.04	<.1	.2<.02	.01	27	.1<.02	<.1							
Q127	.03	2.89	.39	47.6	19	.2	.07	494	.006	.8<.01	.4	.01	14.9	.07	<.02	<.02	<.2	.66	.013	.03	1.79	.019	94.6	2	4	<.01	<.001	.03	<.1	.1<.02	.01	84	.1<.02	<.1						
Q128	.02	1.72	.18	62.4	4	<.1	.02	315	.003	.9<.01	1.0<.01	14.3	.02	<.02	<.02	<.2	.76	.007	.01	1.71	.019	41.7	1	6	<.01	<.001	.02	<.1	.2<.02	<.01	20	<.1<.02	<.1							
Q129	.02	2.14	.34	45.3	12	.3	.12	521	.004	.9<.01	.2<.01	16.9	.12	<.02	<.02	<.2	.53	.012	.02	1.70	.026	155.7	1	7	<.01	.001	.06	<.1	.2<.02	.01	47	.1<.02	<.1							
Q130	.02	1.95	.29	57.5	23	<.1	.05	441	.003	1.1<.01	.7<.01	16.3	.17	<.02	<.02	<.2	.81	.010	.01	1.70	.019	60.1	1	5	<.01	<.001	.02	<.1	.2<.02	.01	32	.1<.02	<.1							
Q131	.02	1.92	.19	55.7	13	<.1	.04	428	.002	1.0<.01	.2<.01	12.0	.09	<.02	<.02	<.2	.47	.007	.01	1.61	.023	129.6	1	5	<.01	<.001	.03	<.1	.1<.02	<.01	22	<.1<.02	<.1							
Q134	.02	1.93	.33	59.7	18	<.1	.06	462	.003	.9<.01	<.2<.01	14.6	.07	<.02	<.02	<.2	.68	.011	.02	1.54	.019	92.6	1	5	<.01	<.001	.03	<.1	.1<.02	<.01	43	<.1<.02	<.1							
Q136	.02	2.81	.51	50.4	32	<.1	.05	517	.004	.7<.01	.9	.01	9.2	.05	<.02	<.02	<.2	.47	.014	.02	1.69	.036	40.4	1	10	<.01	.001	.06	<.1	.1<.02	<.01	57	.1<.02	<.1						
Q138	.02	2.59	.38	47.4	7	.1	.02	457	.004	.7<.01	.2	.01	6.0	.05	<.02	<.02	<.2	.32	.013	.02	1.74	.020	17.1	2	7	<.01	.001	.06	<.1	.2<.02	.01	68	.1<.02	<.1						
Q139	.02	1.98	.48	41.0	8	<.1	.04	435	.003	.8<.01	.4<.01	5.2	.04	<.02	<.02	<.2	.32	.013	.01	1.71	.022	19.7	1	5	<.01	<.001	.04	<.1	.1<.02	<.01	62	<.1<.02	<.1							
Q140	.02	2.07	.50	40.8	14	.2	.07	298	.004	.8<.01	.4	.01	9.1	.16	<.02	<.02	<.2	.48	.016	.03	1.82	.023	40.1	2	6	<.01	.001	.04	<.1	.3<.02	.01	67	.1<.02	<.1						
RE Q140	.01	2.06	.47	40.8	14	.2	.09	300	.004	.8<.01	.3	.01	8.9	.16	.03	<.02	<.2	.46	.016	.02	1.73	.023	39.1	1	8	<.01	.001	.04	<.1	.2<.02	.02	74	.1<.02	<.1						
Q143	.01	2.42	.12	61.7	17	1.2	.06	472	.002	.9<.01	.3<.01	13.1	.31	<.02	<.02	<.2	.66	.010	.01	1.61	.033	107.6	1	9	<.01	<.001	.06	<.1	.1<.02	.02	32	.1<.02	<.1							
Q144	.02	2.35	.25	57.1	15	.8	.06	259	.004	1.0<.01	.3	.01	15.9	.10	<.02	<.02	<.2	.55	.020	.03	1.80	.036	90.1	2	8	<.01	.001	.10	<.1	.2<.02	.03	77	<.1<.02	<.1						
Q153	.02	2.86	.52	89.8	25	1.5	.04	53	.004	.8<.01	<.2<.01	27.8	.13	<.02	<.02	<.2	.75	.022	.03	1.93	.037	391.8	1	8	<.01	.001	.17	<.1	.2<.02	.02	63	.1<.02	<.1							
Q154	.03	2.51	.42	37.6	14	.8	.03	396	.004	.7<.01	<.2	.01	9.9	.24	<.02	<.02	<.2	.31	.023	.02	1.48	.027	54.3	2	7	<.01	.001	.08	<.1	.2<.02	.02	103	<.1<.02	<.1						
Q155	.02	2.66	.36	134.7	13	2.3	.06	337	.004	1.0<.01	<.2<.01	35.0	.11	<.02	<.02	<.2	1.18	.019	.02	1.77	.031	155.5	1	9	<.01	.001	.08	<.1	.2<.02	.01	91	.1<.02	<.1							
Q156	.02	4.61	.21	64.7	12	<.1	.03	134	.003	.5<.01	5.3<.01	17.1	.08	<.02	<.02	<.2	.55	.019	.01	1.61	.028	103.7	1	10	<.01	<.001	.20	<.1	.2<.02	.01	67	.1<.02	<.1							
Q157	.05	2.73	.33	49.7	29	.6	.02	213	.003	.5<.01	<.2<.01	2.7	.02	<.02	<.02	<.2	.21	.016	.01	1.55	.035	16.8	1	6	<.01	.001	.07	<.1	.2	.02	.01	85	<.1<.02	<.1						
Q158	.03	2.46	.35	56.5	21	.5	.04	301	.006	.6<.01	<.2	.01	9.4	.03	<.02	<.02	<.2	.43	.028	.03	1.76	.048	45.8	2	8	.01	.002	.09	<.1	.1	.02	.02	96	.1<.02	<.1					
Q163	.02	2.94	.09	53.3	20	2.3	.06	514	.002	.5<.01	<.2<.01	9.6	.70	<.02	<.02	<.2	.53	.012	.01	1.44	.018	146.4	1	8	<.01	<.001	.07	<.1	.1<.02	.01	40	<.1<.02	<.1							
Q167	.02	2.27	.31	49.8	12	<.1	.07	565	.004	.8<.01	<.2<.01	13.9	.11	.02	<.02	<.2	.94	.014	.02	1.46	.027	90.6	1	7	<.01	.001	.05	<.1	.1<.02	.02	72	<.1<.02	<.1							
STANDARD V6	.25	7.49	18.00	37.9	20	3.4	.38	42	.069	.5	.05	.9	.11	30.5	.20	.05	.02	<.2	.71	.044	.89	3.63	.113	9.1	19	9	.05	.006	.08	<.1	.2<.02	.05	39	.1<.02	.1					

Sample type: BARK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

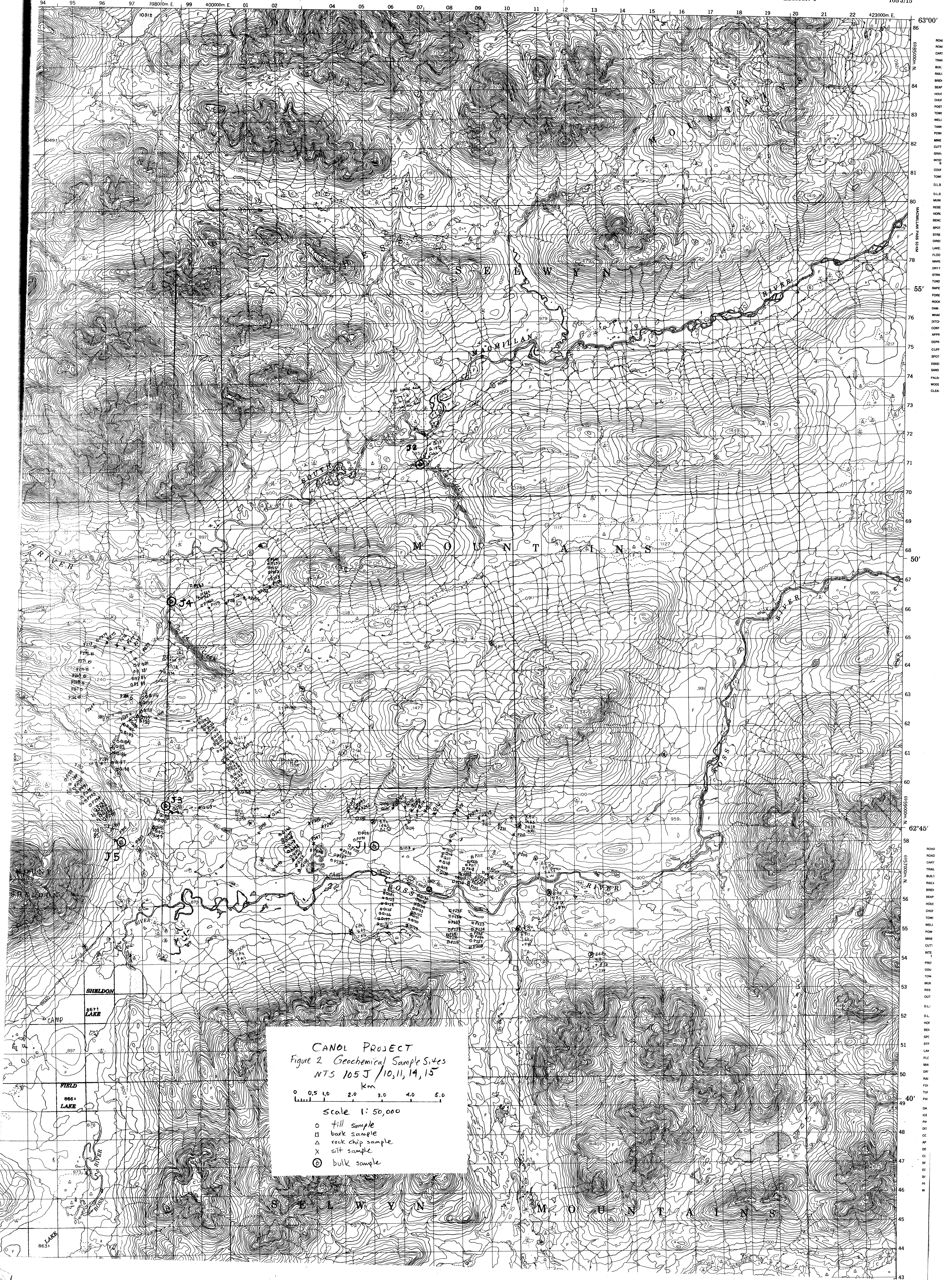


Oxide Pt#	Project OT03-104											Total	
	Percent SiO <sub>2</sub>	Percent TiO <sub>2</sub>	Percent Nb <sub>2</sub> O <sub>5</sub>	Percent Al <sub>2</sub> O <sub>3</sub>	Percent Cr <sub>2</sub> O <sub>3</sub>	Percent FeO	Percent MgO	Percent MnO	Percent NiO	Percent ZnO			
1,	0.0000,	0.0825,	0.0000,	15.39,	47.78,	24.19,	12.01,	0.3218,	0.1275,	0.2403,	100.14,	J5 #2	
2,	0.0498,	0.7376,	0.0643,	28.51,	34.71,	19.24,	15.96,	0.1766,	0.2050,	0.0105,	99.66,	J5 #3	
3,	0.1402,	0.6479,	0.0000,	27.07,	35.68,	21.05,	14.74,	0.2157,	0.1908,	0.1063,	99.84,	J5 #4	
4,	0.0639,	0.0328,	0.1786,	34.05,	30.78,	15.17,	18.59,	0.1964,	0.2678,	0.0861,	99.40,	J5 #5	
5,	0.0702,	0.8601,	0.0803,	26.10,	36.50,	17.72,	17.61,	0.1905,	0.2016,	0.0316,	99.36,	J5 #6	
6,	0.1796,	0.5026,	0.0000,	30.59,	33.06,	18.53,	16.44,	0.1722,	0.1585,	0.0879,	99.73,	J5 #8	
7,	0.0248,	3.87,	0.0793,	17.64,	32.38,	32.04,	13.62,	0.1940,	0.1439,	0.0747,	100.06,	J5 #9	
8,	0.1666,	0.9883,	0.0000,	25.17,	37.37,	18.87,	16.97,	0.1851,	0.1583,	0.0667,	99.94,	J5 #10	
9,	0.1063,	0.6009,	0.0000,	29.62,	33.55,	18.08,	17.37,	0.1678,	0.1935,	0.0442,	99.74,	J5 inclusion #2	

Weight Pt#	Project OT03-104											Total	
	Percent Si	Percent Ti	Percent Nb	Percent Al	Percent Cr	Percent Fe	Percent Mg	Percent Mn	Percent Ni	Percent Zn	Percent O		
1,	0.0000,	0.0494,	0.0000,	8.15,	32.69,	18.80,	7.24,	0.2492,	0.1002,	0.1931,	32.67,	100.14,	J5 #2
2,	0.0233,	0.4422,	0.0449,	15.09,	23.75,	14.95,	9.62,	0.1368,	0.1611,	0.0084,	35.43,	99.66,	J5 #3
3,	0.0655,	0.3884,	0.0000,	14.33,	24.41,	16.36,	8.89,	0.1670,	0.1499,	0.0854,	34.99,	99.84,	J5 #4
4,	0.0299,	0.0196,	0.1248,	18.02,	21.06,	11.79,	11.21,	0.1521,	0.2104,	0.0692,	36.72,	99.40,	J5 #5
5,	0.0328,	0.5156,	0.0561,	13.81,	24.97,	13.77,	10.62,	0.1476,	0.1584,	0.0254,	35.25,	99.36,	J5 #6
6,	0.0840,	0.3013,	0.0000,	16.19,	22.16,	14.41,	9.92,	0.1333,	0.1245,	0.0706,	35.88,	99.73,	J5 #8
7,	0.0116,	2.3219,	0.0555,	9.33,	22.16,	24.91,	8.21,	0.1502,	0.1131,	0.0600,	32.74,	100.06,	J5 #9
8,	0.0779,	0.5925,	0.0000,	13.32,	25.57,	14.67,	10.23,	0.1433,	0.1244,	0.0536,	35.16,	99.94,	J5 #10
9,	0.0497,	0.3602,	0.0000,	15.68,	22.96,	14.06,	10.48,	0.1299,	0.1521,	0.0355,	35.84,	99.74,	J5 inclusion #2

Note: J5 #1, J5 #7, J5 #12, J5 #13, J1 #14 and J1 #15 were ferroan spinels and were not analyzed.  
 J5 #11 was a low Mg ilmenite and was not analyzed  
 J5 inclusion grain #1 was a ferroan spinel and was not analyzed.  
 J5 inclusion grain #3 was a grossular garnet and was not analyzed





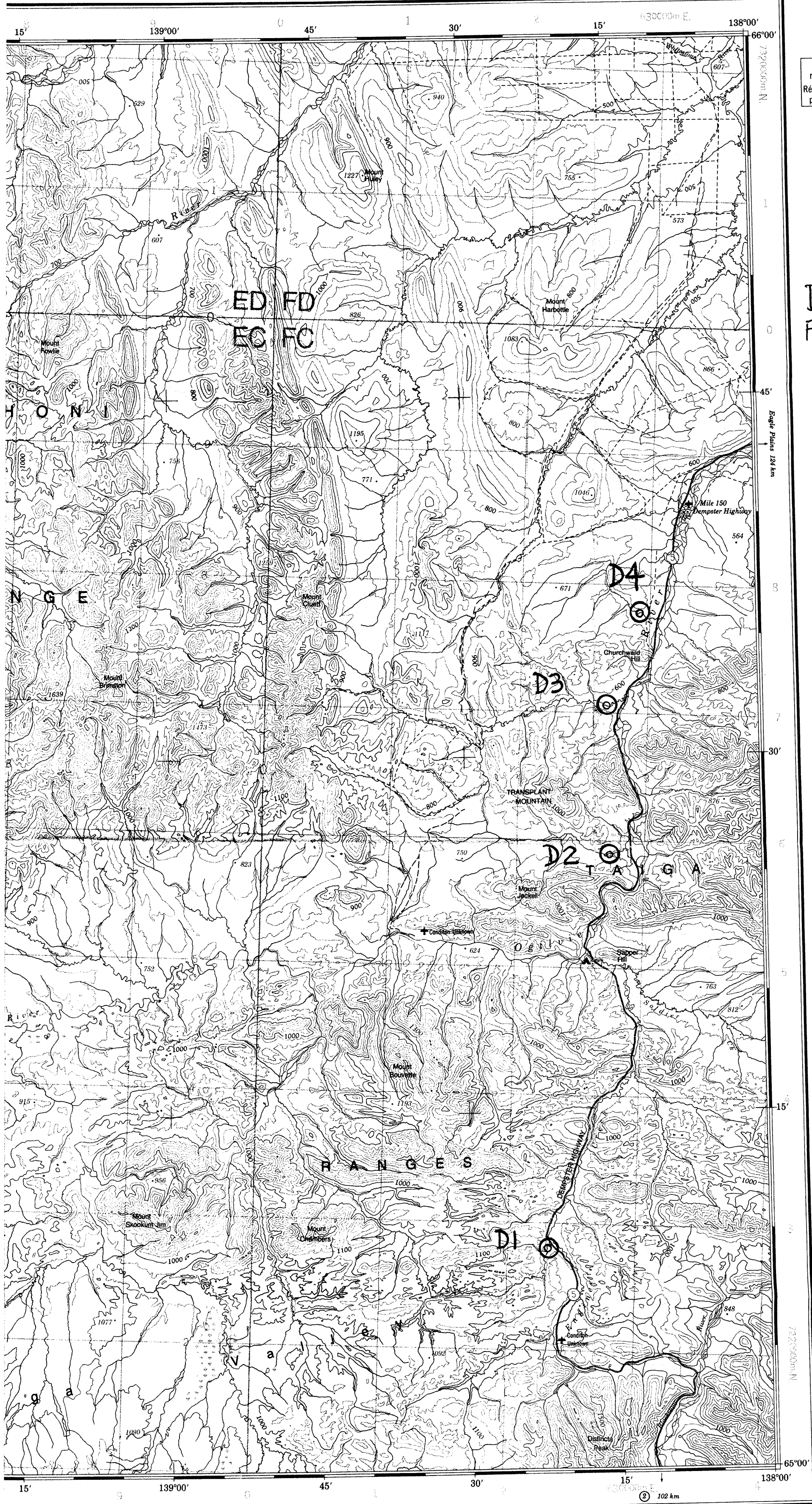
CANOL PROJECT  
 Figure 2 Geochemical Sample Sites  
 NTS 105 J/10, 11, 14, 15

0 0.5 1.0 2.0 3.0 4.0 5.0  
 km

Scale 1:50,000

- fill sample
- bark sample
- △ rock chip sample
- × silt sample
- ⊙ bulk sample

- ROAD
- ROAD
- CART
- TRAIL
- RAIL
- RAIL
- BND
- SEAP
- HOSE
- CHFF
- TOW
- WELL
- PON
- MNE
- CUTT
- GRAV
- INTE
- COU
- TOW
- MUN
- RES
- OUT
- D.L.
- D.L.
- HOF
- BEA
- SPC
- STP
- LAM
- FLC
- MA
- DR
- RAI
- FO
- TUR
- PA
- DA
- ICE
- PH
- DT
- CC
- AP
- DE
- CS
- SF
- ES
- SI
- HI
- W



Military users,  
refer to this map as:  
Référence de cette carte  
pour usage militaire:

SERIES A 502 SÉRIE  
MAP 116G & 116F CARTE  
EDITION 3 MCE ÉDITION

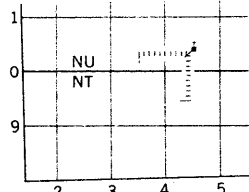
Dempster Project  
Figure 4 Bulk Sample Locations  
South Sheet

METRIC/MÉTRIQUE

TEN THOUSAND METRE  
UNIVERSAL TRANSVERSE MERCATOR GRID  
ZONE 7  
QUADRILLAGE UNIVERSEL TRANSVERSE DE MERCATOR  
DE DIX MILLE MÈTRES

GRID ZONE DESIGNATION DESIGNATION DE LA ZONE DU QUADRILLAGE:	100 000 m SQUARE IDENTIFICATION IDENTIFICATION DU CARRÉ DE 100 000 m											
7 W	<table border="1"> <tr> <td>ED</td> <td>FD</td> <td rowspan="2">73</td> </tr> <tr> <td>EC</td> <td>FC</td> </tr> <tr> <td colspan="2"></td> <td>5</td> </tr> <tr> <td colspan="2"></td> <td>6</td> </tr> </table>	ED	FD	73	EC	FC			5			6
ED	FD	73										
EC	FC											
		5										
		6										

EXAMPLE OF METHOD USED  
TO GIVE A REFERENCE TO NEAREST 1000 METRES  
EXEMPLE DE LA MÉTHODE EMPLOYÉE  
POUR FIXER DES REPÈRES A 1000 MÈTRES PRÈS



REFERENCE POINT CHURCH - ÉGLISE (as above)  
POINT DE REPÈRE (ci-dessus)

SQUARE: Read letters of 100 000m square  
CARRÉ: Lire les lettres du carré de 100 000m

EASTING: Read number on grid line  
immediately to left of point:  
ABSCISSE: Noter le chiffre de la ligne  
du quadrillage immédiatement à gauche  
du repère:  
Estimate tenths of a square from  
this line eastward to point:  
Estimer le nombre de dixièmes du carré  
entre cette ligne et le repère en direction est:

NORTHING: Read number on grid line  
immediately below point:  
ORDONNÉE: Noter le chiffre de la ligne  
du quadrillage immédiatement en dessous  
du repère:  
Estimate tenths of a square from  
this line northward to point:  
Estimer le nombre de dixièmes du carré  
entre cette ligne et le repère en direction nord:

GRID REFERENCE: REFÉRENCE AU QUADRILLAGE: NU4504

If reporting beyond 18° in any direction, prefix Grid Zone  
designation as: 14VNU4504  
Si vous faites connaître votre position à quelqu'un qui se  
trouve à plus de 18°, peu importe la direction, indiquez  
également la zone du quadrillage tel que: 14VNU4504

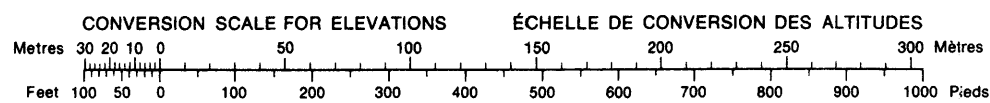
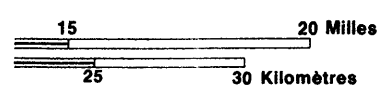
Pour tout renseignement concernant les repères et bornes  
altimétriques, s'adresser aux levés géodésiques, Direction  
des levés et de la cartographie, Ottawa.

ÉTABLI PAR LA DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE,  
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES.  
TIRÉE DE CARTES AU 1:50 000. RENSEIGNEMENTS À JOUR TELS  
QU'INDIQUÉS AU DIAGRAMME, PUBLIÉE EN 1987.

CES CARTES SONT EN VENTE AU BUREAU DES CARTES DU  
CANADA, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RES-  
SOURCES, OTTAWA, OU CHEZ LE VENDEUR LE PLUS PRÈS.

© 1987 SA MAJESTÉ LA REINE DU CHEF DU CANADA,  
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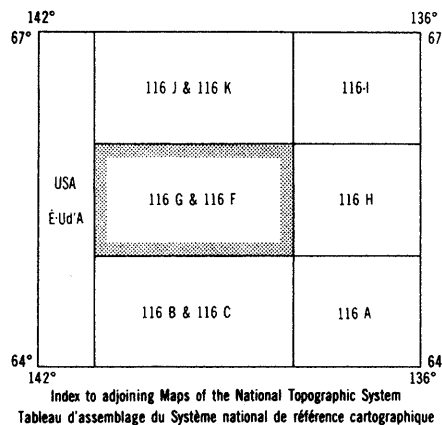
KON

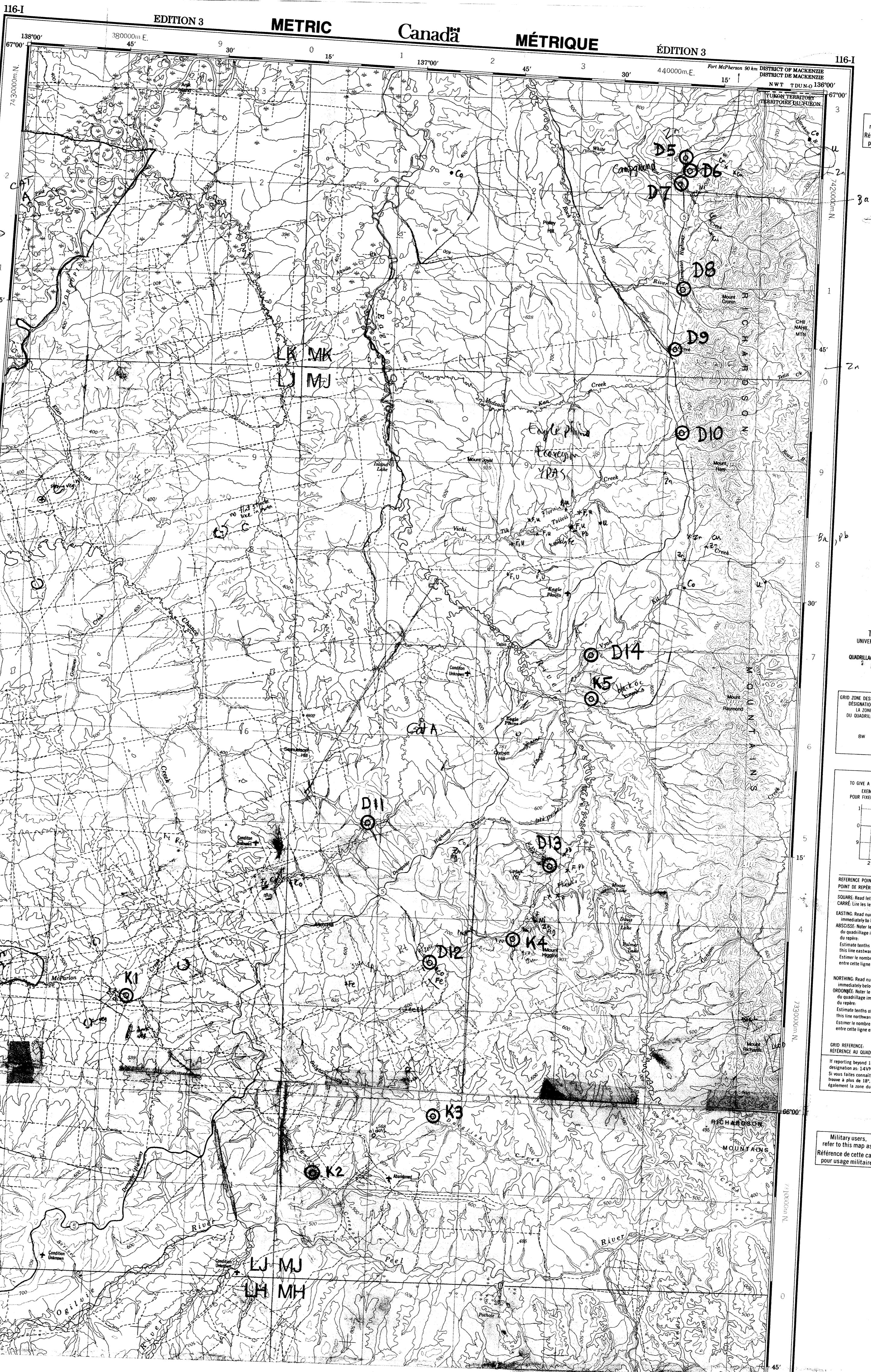


CONTOUR INTERVAL 100 METRES  
Elevations in Metres above Mean Sea Level

ÉQUIDISTANCE DES COURBES 100 MÈTRES  
Altitudes en mètres

1:31°38' vers l'est au  
u centre du bord est





one line  
27929 3161

Dempster Project  
Figure 5 Bulk Sample  
Locations  
North Sheet

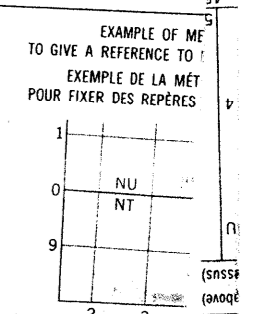
METRIC/MÉTRIQUE

Military users,  
refer to this map as:  
Référence de cette carte  
pour usage militaire:

3a U Mc Cu Zn  
3a U  
3a U

TEN THOUSAND  
UNIVERSAL TRANSVERSE  
ZONE 8  
QUADRILLAGE UNIVERSEL TRAN-  
VERSE DE DIX MILLE

GRID ZONE DESIGNATION  
DESIGNATION DE  
LA ZONE  
DU QUADRILLAGE



REFERENCE POINT CHURC  
POINT DE REPÈRE  
SQUARE: Read letters of 100 0  
CARRÉ: Lire les lettres du car-  
ré  
EASTING: Read number on grid  
immediately to left of point  
ABSCISSE: Notez le chiffre de  
du quadrillage immédiatement  
à gauche  
Estimate tenths of a square  
this line eastward to point  
Estimer le nombre de dixièmes  
entre cette ligne et le repère

NORTHING: Read number on  
immediately below point  
ORDONNÉE: Notez le chiffre de  
du quadrillage immédiatement  
en dessous  
Estimate tenths of a square  
this line northward to point  
Estimer le nombre de dixièmes  
entre cette ligne et le repère

GRID REFERENCE  
RÉFÉRENCE AU QUADRILLAGE  
If reporting beyond 18° in  
designations as 14 UNIVZONES  
Si vous faites connaître votre  
proxe à plus de 18°, pe-  
galement la zone du quad-

Military users,  
refer to this map as:  
Référence de cette carte  
pour usage militaire:

SERIES A 502  
MAP 116 H  
ÉDITION 3 MCE

MÉTRIQUE

2003 CANOL G. Richards Notes

Russ River Camp - shallow river gravel  
prevented further upstream progress

Δ402 406,927 / 6,956,433 ± 5.0

338°

crossed deep w/ flow creek. Could feel grit on bottom w/ pole but water too high

Q103 unsorted / fine sediment from main water along banks. Tilly slump visible on bank

Q104 unsorted leafy stem sed in willows very fine + exp silt

Q105 unsorted silt near base slope

Q106 RC / low silt of 3 units in dirt + a silty clay sed (S)

Q107 Silt very rocky  
Lunch 405,966 / 6,959,416

Q108 Unsorted silt / First good one off of hillside by E all dark grey + yellow

Q109 unsorted silt grey sed like before GPS

Q110 " " without quick flow stream sandy w/ small rx, flow on road beds

Q111 No sandy high exp silt in willows

Q112 Good fine grey silt GPS

Q113 Good main creek Good silt GPS

Q114 Big cr down in flats. Dune washed + good silt in middle creek. Another sandy + v. exp

+100m to very big creek NS

NORPAC 1-800-480-3542 - 47 Level

Q115 wet blue grey till in holes  
 [Q119] 0 m  
 205m Q116 Bank 5" Blk sparse cones  
 280 Q117 Good fill under 5cm  
 1mas + 5cm A horizon fill  
 460 Q118 Yllw fill on top hill  
 600 Q119 5" BS Bank Frazzled  
 780 Q120 Yllw fill gentle S slope  
 970+ est 200' bank of washed gravel

NORPAC 1-800-480-3542 - 47 Level

Start chain on bench overlooking Ross River  
 on south side

[189] 0 m  
 30m washed gravel bank Flat top bench  
 200m (Q121) BS bank 4" No cones  
 but typical bank + structure  
 only BS cones on ground no WS cones  
 15° slope flatter 20m ahead  
 270 Q122 wet grey till from bank  
 well round to subround Pbbles  
 470 Q123 BS 3 1/2" w cones 5-10' N slope  
 670 Q124 4" BS w cones 5° north slope  
 850 Q125 wet grey fill on flats  
 1000 Q126 3" fill flats  
 1200 Q127 4" BS w cones  
 4370 Q128 4" BS BS cones on ground  
 also WS on ground floor  
 Ely 930m to GPS to start line  
 [1020] 0 m  
 Q129 @ 0m 6" BS bank w cones  
 200m Q130 5 1/2" BS " " "  
 400m Q131 4 1/2" BS " " " near flat  
 426m Q132 very wet fill  
 600 Q133 wet grey bn fill flat  
 800 Q134 5 1/2" BS bank w cones  
 980 Q135 wet fill @ break slope  
 1080 Q136 BS bank base slope

NORPAC 1-800-480-3542 - 47 Level

J1 Bulk sample zone 5-10 cm deep  
rippling creek in flats E of DME  
hills. Cps are all shaly chert  
+ Sample sandy not too silty

Q137 sample of J1 for analyses ACME

NORPAC 1-800-480-3542 - 47 Level

Camp 2 R River channel w DME

Δ 102,499 / 6,957,207

324' 0m

70m Q138 WS Bank 4 1/2" w cases  
10° slope

280m Q139 4" BS Bank w cases  
5-10° slope

480 Q140 6" BS w cases 10-15°

640 Q141 1/2" bln fill under grey or fill A  
@ break in slope onto top

840 Q142 1/2" bln fill also blk chert cps  
+ road other on top of hill flat

1050 Q143 17" BS bank w cases  
m 20° slope

1250 Q144 14 1/2" BS bank w cases  
5-10° slope

1300 Q145 Grey fill on top bank  
slip bank

1490 Q146 1/2" grey fill road phls

Δ 401,770 / 6,958,439

NORPAC 1-800-480-3542 - 47 Level

Q147 Sieved - 25 mesh silt

8' x 6" rippling chert also blk

ground bar w 99% blk cps

most calc, 88% blk 18% plw.

401,237 / 6,958,854

Q148 Sieved - 25 mesh silt

Some mud is 1907 but S of

Similar

Q149 fill bln on 292° leg @ base hill

Canal Rd S Mac R

Boulder CK

J2 bulk sample 100m above bridge  
very coarse material. Used side  
ground bar. Blue granite. Fine  
various sed. - chert, calc. sfts, shale.  
No vc above. 21 snowball  
canal 20' x 1' varying area fls

(pic)

Q151 + Q152 one of clear bldgs from  
road fill material 1-4" dia + fine  
py - 7 in calc. seds (S) of bott

1.2 km west of Boulder ck. - more similar  
V angular bldgs in ditch could be  
coming from road fill or west of hill  
mountain.

1.6 km west of Boulder CK a borrow pit  
w 1-15' wide pyritic zones with  
Q151 + 152

NOIRPAC 1-800-480-3542 - 47 Level

4.1 km rough spec rd hds uphill + rd. Cabin?

4.9 glaucous + sand rd

6.2 rd found, glaucous + brown near bank rd.

7.8 borrow pit small w no rusty sed

8.7 CK + borrow pit + oc. v. minor rusty sed  
in flt + oc

9.1 Moose CK

J3 4' x 1' fast tumbly bldg  
why coarse @ li 35 snowball

J4 Bulk Sample Moose CK 14 snowball

50m above bridge @ first bend.

Canal material 10' x 4'-10" apply with.

Log Canal Rd Hd east along S side  
hill

+ 300m oc chert crumbled + mended

N 2 km crossed 1" creek water flow  
on mass. No silt

Q153 6" WS bank <sup>B5</sup> ~~case~~ 10-15° slope  
steady buckbrush. On mossy trail.

Q154 210m 6" BS bank w case  
5° slope. moss can't see

Q155 400m 6" WS 5° slope  
case on floor of forest w  
fir trees around.

Swampy airy? even

460m (H) grassy meadow

600m Q157 7" WS Bank Case on ground

700m creek 3' x 1' NO SILT

830 fire side swampy ground

900 Q155 5" BS w lots of quartz  
almost terra firma

1166 0

220m Q158 16" BS bank w case  
Carbon mass

225m Q159 Blank fill or clay chert  
+ other 16" deep

350 ± 50 creek swamp

490 Q160 Till on end moraine  
with many chert pebble cgl. + other  
almost (H) able

- 2.0 Q182 Gray bn fill all chert & calc<sup>s</sup> silt<sup>s</sup>(?) flt.
- 2.3 Q183 Wet fill red cobbles + bldgs fill dark bn gray by sunny strata very abundant green bldgs
- 2.4 small baranipit all glauk grey fmg thin plate
- 2.5 culvert
- 2.65 Q184 Dk choc bn gray fill All red cobbles + bldgs. caps smaller much less cherty
- 2.75 start slabs orange - with<sup>s</sup> (clay silt<sup>s</sup>?)
- 3.0 Q185 Dk grey mucky (carbonat<sup>s</sup>?) fill w/ slabs as 2.75
- 3.15 creek Q186 Smeared ~~2.5~~ muck rd very silt cult<sup>s</sup>, chert. All silt<sup>s</sup> flaggy silt.
- 3.3 Q187 dk bn gray fill flaggy silt<sup>s</sup> flt in draw between hills
- 3.45 oc 091/585 1" flaggy silt<sup>s</sup>.
- 3.6 Q188 Bn fill on silt<sup>s</sup> flt. one piece w/ carbons + 1 1/2 class py
- 3.9 outwash quarry NS
- 4.0 "
- 4.2 "
- 4.4 "
- 4.6 "
- 4.8 "
- 5.0 "
- 5.2 "
- 5.4 "
- 5.8 " @ takeoff pt for bulk sample

NORPAC 1-800-480-3542 - 47 Level

- 6.0 on flats Q189 bn fill muddy red cobbles are clay (dalen = silt<sup>s</sup>?)
- 6.3 Q190 Lt bn fill. clay bldgs dark silt<sup>s</sup> + bk cps shale - silt<sup>s</sup> + many void logs
- 6.6 Q191 RC large clay bldgs 1/2 m listwanite? act<sup>s</sup> silt.
- 6.7 Q192 on hill. Till dk grey possibly partly reworked fine silt<sup>s</sup> bldgs clay others all on
- 6.9 Q193 Soil collected over 7 places along oc badly smeared + banded muck = alt<sup>s</sup> shale - silt<sup>s</sup> ± chert. generally dark black (smeared, silt<sup>s</sup>) no accumulation - mostly dark grey smeared muck - shale silt<sup>s</sup> Spm RD swings up mound pile to flat quarry - good comping
- 7.0 creek

NORPAC 1-800-480-3542 - 47 Level



## ROSS RIVER AREA

[River camp] Sampling near mag anomaly on N. side of Ross River

- At N end of large bend in river approx 1 km ENE of camp.

[030°] - 400m

- P 201 - brown slightly sandy wet till from 0.6 to 1.2 m depth
- some sub-angular chips of siltst-arg?

- P 202 5-6" White Splice w cones

[055°] reset to Om

- 150m P 203 grey brown till 0.4 m depth
- sub ang mudstone fragments

- 300m P 204 brown slightly sandy till from 0.4 m depth (Deeper appears more washed)

- sub ang siltstone/argill/mudstone fragments
- 3m diam granite erratic nearby

- 465m P 205 brown grey good till from 0.4 m depth

- ang-sub ang black arg/mudstone chips

- several more small granite erratics from 350 to 400m

- 550 - getting mucky

- 650 no till P 206 5" Black Splice?

- not many cones but most elongate than normal black splices

- 830m no till P 207 4" Black Splice?

- same as 206 - cones more elongate

- than typical Bl Sp but not obvious white Sp.

- Cones along track as well as benches

- 900-1200m swampy areas

- 1275m P 208 brown grey good till

- mainly arg/mudstone. Most

(Possible drumlin? trending NW-SE)

- 1525m swampy area with flow to SE

- 1650m " " " "

1800m at 8' wide creek with good flow to S. - floor mainly sub-angular to sub rounded

~~Reset to Om~~ siltstone/argillite/mudstone

- N.S. - some rusty thin bedded limy siltstone w 3-5% fine pyrite concentrations along dark layers

H.S. - similar thin bedded oolitic chert

with 4-7% fine diss pyrite in thicker (5-10cm)

light layers of oolitic chert with 10+%

pyrite in darker oscillaceous layers

- P 209 - silicified siltstone chert with

3-5% diss + fracture pyrite - numerous

pyritic fractures x-cut the <sup>original</sup> bedding

[045°] reset to Om

- 500m [315°] - 635m small creek flowing SW - no silt

- 930m back at millage creek flowing S.

P 210 - sieved silt

- floor mainly siltstone/argillite,

~~granite~~ chert - minor rusty siltstone and granite. Traces of jasper

Reset to Om - continuing to W.

- 625m at next main creek flowing SW

good flow - 10-15' wide creek

- similar floor to P 210 creek

P 211 sieved silt

- continuing contouring - approx 29.0°

- 1110m P 212 very fine sandy silt from small creek flowing S. (mainly flows 5-10m)

- silt mainly argillite/silt/mudstone/chert

larger rounded floor in creek mainly granite.

= 1270m P-213 fine slightly muddy  
silt from small creek in large  
creek channel (15' wide 6' deep)

- 1780m P-214  
- Blew silt from sm-med  
creek with good flow to S.  
- float similar to P210-211  
- rounded boulders of granite main  
large float  
- small chips in silt mainly  
siltstone / argillite / mudstone / chert  
- no or am rusty - no gas vesicles

[1700] - 700m small sinuous creek  
- 1075m crossed to creek boundary  
West (P211 creek)

1335m P-215 6" Black Spence w. cones  
(Same description as P207)

[2250] reset to 0m

- 205m P216 5-6' Black Spence w. cones  
mass-mudstone - no till

- 425m P217 " " "  
- 605m P218 4-5" Black Spence? (See P207)  
w. cones

- 755m P219 grey brown good till  
argillite / mudstone chips in till  
P220 6" Black Spence? (See P207)

- 940m P221 brown slightly sandy till  
- argillite / mudstone chips in till

= 1130m P222 4-5" Black Sp. w. cones? (See P207)

On S. Side of Ross River across from  
W. end of camp island.

[1100] - following River for 850m

- then immediately across from E end  
of long island (approx 150m S. of River)

[1300] - for 1.1 km

- 600-700m large open swamp  
50m N.

- 1100m [1800] reset to 0m

P-223 4" Black Spence w. cones

- 205m P-224 4-5" Black Sp. w. cones

- 400m P-225 grey-brown till (45cm depth)  
mainly argillite / mudstone chips in till

- 450m <sup>top of</sup> till P-226 5" Black Spence w. cones

- 580m P227 grey-brown - wet till  
argillite / mudstone / chert chips in till

- 800m no till - permafrost

P-228 5" Black Spence w. cones

[noticed hip chain slipping]

- 900m at edge of swamp

- back at 840m [2900] reset to 0m

- 800m [3000] reset to 0m

- 0m P-229 4-5" Black Sp. w. cones  
in till - permafrost

- 220m P230 brown grey good till w.  
arg. chips of argillite / mudstone

P231 5-6" Black Spence w. cones

- 350m at top of hill

- 380m P232 brown grey till - lots of  
arg. argillite / mudst.

- 610m P233 4-5" Blk Sp. w. cones

- 800m P234 4" Blk Sp. w. cones

- 1000m P235 4-5" Blk Sp. w. cones

At 2nd River Camp - Just South of two lakes

At E bank of creek draining out of S. lake (at lake)

**[NE]** trending ridge

- 250m - glaciofluvial deposits
  - 520m - P 236 grey brown slightly sandy basal till - argillite/chert chips (45-60 cm depth)
  - 760m P 237 " " " " " (60-75 cm depth) - minor qtz  
- one rock (3cm wide) mostly white qtz  
in contact with argillite HS.
  - 1000m P 238 grey brown slightly sandy till argillite/chert chips (no qtz)
  - 1250m washed material
  - 1275m P 239 grey brown slightly sandy till - arg/sh/chert chips to 411
  - 1500m permafrost - no till  
P 240 4-5" Black Sparrow w cones
  - 1750 washed material
  - 1800 " "
  - 1870m P 241 brown grey slightly sandy till interlayered with washed material  
- 20cm subangular float on surface of light grey silty loam with calcite filling fractures - oxidized weathered surface w calcite dissolved from fractures HS
- [340°]** resit to Om
- 505-517 m outcrop bluff of pebble conglomerate - pebbles mainly green to black chert with lesser argillite/mudstone
- Bluff trends E-W

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to 750m no creek (possibly was underground around 450m)

- Shale contoured to E
- 850m small creek flowing S
- 860-900m outcrops of chert pebble congl. (extend sporadically up slope)
- 1050m at mid creek w good flow to West  
P 242 sieved silt (3 pans)  
- float - Chert / Argillite / shale / conglomerate

resit to Om - contoured back to W

- 70m P 243 f.g. sandy silt from small creek flowing SW - same floor as P 242
- 200m P 244 f.g. sandy silt from small creek flowing S - same floor as P 242  
only some silty loam starting to appear
- continued contouring - (approx 250°)
- 730m small creek - marshy to S.
- 1300m P-245 v.f. gr. sandy silt from small creek w good flow to S. (1m wide)  
silt made up mainly of arg/chert
- (continued contouring (approx 280°))
- 1800m P-246 v.f. gr. sandy silt from small creek w good flow to S (1m wide)  
silt = arg/chert

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resit to Om - trending SSE

500m **[180°]**

- 920m P 247 f.g. sandy silt from mid creek flowing SE (1-2m wide)  
- float chert / arg / shale (30cm depth)

**[200°]** resit to Om

- 280m 5-6" Black Sparrow w cones P 248

On Canole Rd. near old mine expl. rd. approx 200m E  
of historic truck graveyard.

Hending S. along rd. - (road has badly overgrown to <sup>road</sup> <sub>intervals</sub> <sub>same</sub>)  
450m P-249 4" black sparce w cones

- thick mass - no fill

500m small seepy creek flowing W

580m P-250 f. gr. sandy silt from small creek  
w good flow to W.

- chips in hill mainly chert

715m P-251 grey good basal hill

- chips mainly chert/argillite - rounded  
granite boulder on surface.

- 940m P-252 4-5" black sparce w cones

- 1165m P-253 dark grey till

- sub ang. float mainly chert, argillite +  
some limy sst.

- 1280 started dropping into creek valley

- 1440m P-254 sieved silt -

- float mainly chert, argillite + limy siltstone.

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Started contouring to WSW resit to 0m  
255°

- 150m possible old N-S road grade

- 335m P-295 f. gr. sandy silt (good size)

from sm. creek flowing NW

- 550m sm seepy creek - no silt

- 780m P-256 f. gr. sandy silt

creek flows mostly under slumped  
banks

- chert/argillite float

- 860m P-257 f. gr. sandy silt from  
small creek with good flow to NW

float mainly chert/argillite lesser siltstone  
minor granite

1620m P-258 f. gr. sandy silt - float same  
to P-257 only more siltstone.  
(Went 75m downstream to get sample)

1930m sm creek no silt.

2160m P-259 f. gr. sandy silt from sm  
creek with good flow to NW  
- float same as P-258.

2315m 335° resit to 0m

- 230m P-260 4-5" Black Sparce w cones

- 490m sandy glacial material

- 520m P-261 grey slightly sandy till  
from permafrost layer

- sub ang. chips argillite/chert

P-262 4-5" Black Sparce w cones

- 735m swampy creek flowing E - no silt.

- 765m P-263 14" Black Sparce w cones

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On Canale Rd at 696275 N 97000 E  
approx 2.5 km E of small lake

[280]

= 100 m crossed med creek good place

P-285 med gr sandy silt - mainly chert float to Slat

210-245 m outcrop of dk grey <sup>119</sup> chert <sup>grey green</sup>  
bedding 080/75 <sup>5</sup>

275 m same m outcrop same

350 m sub-crop same

450, 500, 650 " " (Some bluish grey)

↓ at ridge top

1400 m headed NW

1500 m P 264 f-med gr sandy silt from  
5 m creek flowing W.

chips in silt mainly chert - some argillite

- P 265 sub-angular rusty float from  
top brecciated pale grey green chert  
with silty fractures & matrix  
~ 95% chert fragments in 5% matrix  
(grey sulfidized)

- Continued contouring to WNW

- 1550-1580 sub-crop of pale grey green  
chert - fractured with 1-5 mm gtz filled  
fractures - minor wst

- 1850 m at sm creek only flowing in sections

- upslope for approx 75 m and across hillside is  
old logging - log piles throughout area

- 2000 m still in logged area

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[020] On - P 266 - brown grey Hll

- mixed float mainly chert with  
quite a bit of argillite showing up  
- some rounded granite

- 240 m P 267 same as P 266

- 510 m P 268 grey Hll/silt

- mostly angular chert chips - minor  
sub angular argillite

- 750 m - P 269 grey-green good basal Hll  
float mixed chert-argillite with  
some rounded granite

- 1000 m P 270 grey Hll

- mixed float chert/argillite/granite  
- minor bleached, rusty float w.  
K<sub>2</sub>O diss py

- 1175 m at top of Hll

- 1250 m P 271 good grey Hll

- more rounded float - mainly granite  
- small chips argillite/chert

- 1375 m slope steepens

- 1500 m pedregosa - no Hll

- 1560 m P 272 7" White Sparce - no cones

- 1750 m P 273 4" Black Sparce w cones

- 2010 m P 274 " " " "

- Contouring E towards ~~105~~ 105°

- reset to 0 m

430 m P 275 fgr sandy silt from small  
creek flowing N. - float sub-angular  
chert/argillite/silt stone

735 m P 276 fgr sandy silt from small  
flowing N. - good steady flow with some sand

- float limy sst, chert, argillite - all size

- 1080 m P 277 fgr sandy silt from small creek  
flowing NE. - float mainly limy sst/argillite (over-)

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with minor chert + granite and a piece  
of orange weathered dolomitic chert

- 1365m P278 - f.g. siltstone muddy  
silt from sm creek flowing NE  
float - limy sst, argillite, lesser chert + granite

- 1465m P279 f.g. good silt from  
5m creek w. good flow to NE (bigger than  
P278 creek)

- float similar to P278 only more chert

- 1600m started heading 200° resur to 0m

- 150m P280 grey till mainly argillite + chert

- 400m P281 grey wet till - ang - rounded  
float mainly argillite/chert

- 675m P282 8-9" White Sparce w. cones

- 900m P283 grey till

- 950m 180°

- 1115m to 1225m small outcrops of grey chert - some  
fractured + slightly rusty

- 1150m P284 grey till/soil - mostly angular  
chips of chert but also rounded granite and  
sub-angular argillite.

- 1155 to 1180m outcrop on top of small hill  
good bedding attitude at 1157m  
090°/66S.

135° - towards Canole Road

- 1370m hit Canole Road approx 700m N of Cor

On top of small hill (1040m elev)  
approx 200m W of Canole Rd 95800mE  
61000mN

250°

100-150m large dry meadow elongated NS

- 115m P286 f.g. sandy silt from  
good flowing creek

- float - angular argillite, siltstone

- 270-290m steep slope - sub-crop of  
orange weathering dolomitic siltstone

- 820m P287 6-7" Black Sparce w. cones

- 1470m on top of ridge

135° - along ridge top (SW side slightly)  
resur to 0m

P-288 brown grey till - rock chips  
mainly sub angular argillite, chert + silt.

- 205m P-289 brown grey till -

sub-ang. to sub round chert, arg. + dol. sst.

- 400m P-290 same as P-289 only less  
dol. sst. in float

- 590m P-291 same as P-290 also 5" rounded  
granite flour

- headed S to 700m to stay close to ridge  
then gradually shifted back to SE by 830m

- 855m P-292 same as P-290

- 985m several buried boulders/sub crop of  
orange weathered dolomitic sst.

- 1050m P293 good grey brown till -  
chips of argillite, chert, dol. sst + granite  
vary from sub-ang. to rounded

(slightly W of ridge top)

- ~~sub~~ angular <sup>sub-crop</sup> of amygdaloidal aphanitic  
green andesite HS.

- 1240m P 294 - grey brown HM  
- mixed sub-angular to rounded float
- 1450m P 295 grey brown HM  
subang argillite, chert, rounded granite  
and in top layer immediately above till is  
abundant angular float of intensely oxidized & clay altered  
rock w. qtz veinlets visible in some pieces  
Could be orange weathered dolomitic siltstone  
but appears to have more of a volcanic texture  
P 296 ↑
- 1560m P 297 grey brown HM  
- sub-angular to rounded argillite, chert,  
granite float - more angular dk green  
andesite tuff
- 1640m<sup>3</sup> sub-crop (2m wide) of intermediate  
volcanic fragmental - zeolite or possibly  
calcite filling spaces - minor qtz veinlets  
with f. gr. sulfide (HS) - weakly oxidized  
on weathered surface  
Sub-crops continue to 1665m
- 1705m P 298 brown grey till - subang to  
rounded chert, argillite, granite  
- angular vs some oxidized
- 1780-1800 - outcrop intermediate volcanic frag.
- 1910m P 299 - brown grey HM  
same float as P 298
- 1925m at start of steeper slope facing SE  
towards Ross R.

[160°] rect to On

- 600m started heading more S towards creek
- 650m 15m wide outcrop of thin bedded  
shaly argillite - bedding 100/85 N
- 670-675 - 11. grey chert. outcrop - chert appears to  
be interbedded w. argillite visible in sub-crop  
down to creek at 750m

750m - P 300 sorted silt - ~~float~~ consists  
of angular volc. fragmental (slightly oxidized)  
ang. to subang argillite & chert, sub-rounded  
thin bedded siltst., rounded granite

headed down stream

- 755-800m - S. bank - slide outcrop  
of thin bedded weakly v. oxid. black argill.  
(looks different - blacker + less silty  
than outcrop at N bank at 650m)  
Bedding approx 100/45 N

- 825m [090°]

- 1460m P 301 f-mudgr sandy silt  
from sm creek flowing S.  
float mainly intermed. volc., argill., chert,  
siltst w. boulders of granite

heading ESE to road

2003 DEMPSTER

G Richards with D. Bennett Notes

Dempster Sampling

D1 Red Ck section N of Enginer

CK Xing 20' x 1' +? murky  
fast flow section. Shady gravel  
bars & fine pebbles (lms + others)

20' sh x 2 red shovels / successful

2" below lip of white bucket.

- 16" mesh screen + 85 mm (= 20?)

on road 623, 878 / 7, 228, 638 Not site

2 PICS are on gravel bar on road.

D2 CK L.L Ogilvie 10 km N of bridge ±

5' x 3" fast flow area

lms pebbles - small some silt s lying  
on bank of ck 612 lms

35 x 2 shovels success

1 PIC - 16 mesh

628, 000 / 7, 259, 000  
672

D3 Davies Ck 800m W of rd

20' x 5" rippling w big pools

big gravel bars lms + sig lms  
dry sand + cps

9 x 2 shovels success at dry

sand in PIC other side of park

627, 284 / 7, 270, 653 ± 3.9

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D4 10 km ± north of Jamie CK  
60x2 red shovels screened - 16 mesh  
lms ground, blk eps dry lms - eps  
5' x 1/2 to 1' 5' low + rippling  
620, 497 / 7, 277, 984  
moved up stream 1/2 to 1 km

W Fork  
D5 Big and 20' x 1' gold fluv  
Some rippling Deper parts  
lms milky colour  
Dry sieve ~ 25 x 2 red shovel  
from elevated glaci stone dry  
5m <sup>to come from rd.</sup>  
black sand

D6 Rock River All lms cobbles + size  
black sand 18x1 red shovel dig  
from sand bar half an hour  
lms bar water 15' x 1' rippling  
bar 100' wide (PIC)  
Red sand bar at 200m up ck to limit

D7 Eff. R.R. lms. cobbles - cobbles  
blk sand Very little water present  
wet sieved ~ 20 x 2 red shovels

Rock ck camp ground

D8 Rock River Dry. lms blk blk sand  
PIC from 3 km North looking shells  
Dry sand 2 full bags sieved  
very little mesh size  
River valley cut [200']  
" coarse 200' wide

D9 Sister CK "10' x 1" rippling w pebbles  
All lms flt + dark sand  
~ 20-25 x 2 red shovel screens  
at - 16 mesh PIC from rd.

Kan CK sample possible but spacing better  
on Tik Tsini CK to south

D10 Tik Tsini CK lms blk dy (PIC)  
OC along fr. bank in shade to  
within 7 m flat plane surface  
black sand dy ~ 25 red shovel  
water 10' x 6" rippling

Parked truck on Highway Deception  
- traversed 300' ± down old seismic line  
Crossed in bank. (C)  
Crossed C feature into dry  
Camped on ck ~~to~~ high water  
made no gravel bars, slow  
moving in trees.

Next am walked up creek looking for gravel  
+ then down to forks.  
Camped on W<sup>4</sup> fluvial spur ck. Swampy.

Walked up creek + out to Deception  
No gravel on S fork

Walked into N<sup>4</sup> fluvial creek and found  
gravel bar just N of SE<sup>4</sup> fluvial  
tributary 408,697 / 7,350,380

Banks 60' wide  
DII Sieve - 20 mesh  
Water 3'x3' rippling between 20'x51'  
deep pools  
About 30 red strands  
Stashed sample above gravel bar.

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Hiked down ridge to headwaters  
East River, swampy area small pond  
Found gravel bar small on bank  
415, 427 / 7, 335, 331

Sandstone pit

10' x 1' fairly rippling water

Deep pools

30 shovels - 20 mesh.

D12

5 fasted samples near swamp  
towards small pond. Cut trees  
+ 41 gals in pickup.  
Camp beside creek.

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Helicopter

K1  
D15 382, 680 / 7, 330, 148

Ditch with muddy gravel  
pic at SE fork leading upstream  
Deep slow moving creek w muddy  
banks. Dig bucket gravel directly

K2 Entenice ck

D16 rippling + pooled creek SS shales  
w small bars

Sampled fine sand bar measured

pic w ⊕

403, 555 / 7, 311, 947

K3 Dalglish ck

D17 rippling + pooled like before pic from air  
at gravel bar + valley

sampled gravel sandy leading edge  
of bar filled bucket

416, 780 / 7, 318, 344

K4 D18 trib from S of Dalglish ck

in low canyon  
not much sand.

- 12 mesh screened bucket by

6' x 2" rippling w shallow pools

425, 076 / 7, 338, 371

2 pics + upstr 1 dam site Dalglish

K5 [201] D19 deep cut creek from "peninsula"

FF SS - shale more has

iron shale common but w 1%  
Creek 10' x 9" rippling w pool

432, 722 / 7, 364, 811

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Hiked into mouth Johnson Creek  
Low ridge through trees on NE side  
Good gravel bars. 55 ft. <sup>1/2</sup> ss / ms  
Camped on bar shale chips shale etc  
along valley walls.

Water 4' x 2" rippling or pools

429,944 / 7,346,071

Camped on Bar

- 20 mesh screen

Retraced route in along "ridge"

D13

Traverse in to Yeah Kit CK

from corner Dempster Hwy,

200' wide valley water 20

wide rippling mostly ss ft

Blk shale ocs along cks.

minerals ms ft.

D14 432,326 / 7,369,427

- 20 mesh out for truck