Geochemical Report

on the

KL PROPERTY

Omineca Mining Division
NTS : 93 N/7

Latitude : 55° 17'N
Longitude: 124° 45'W

Noranda Exploration Company, Limited
(no personal liability)

by : Fraser Stewart

April 1991

TABLE OF CONTENTS

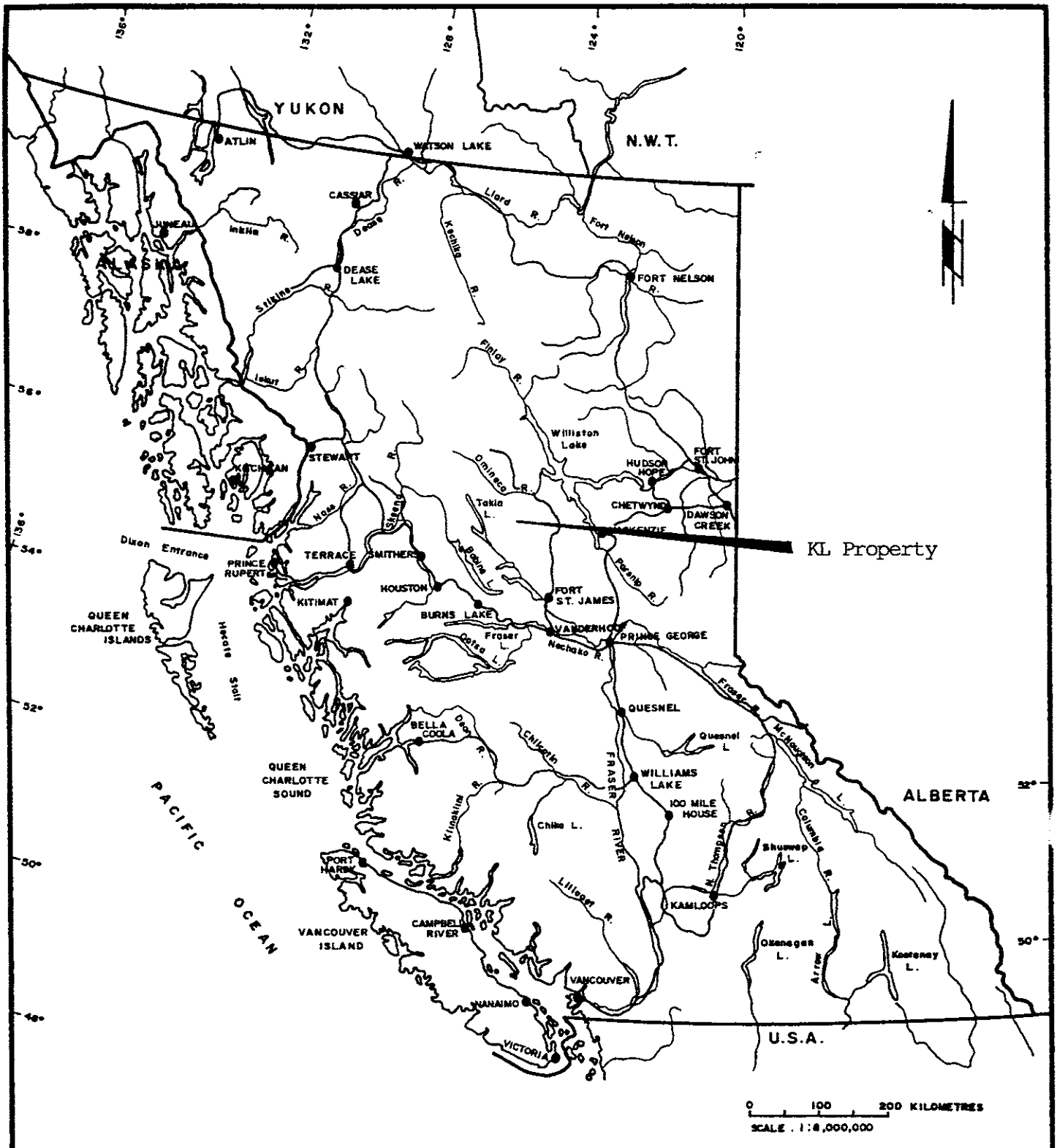
List of Appendices

List of Figures

SUMMARY

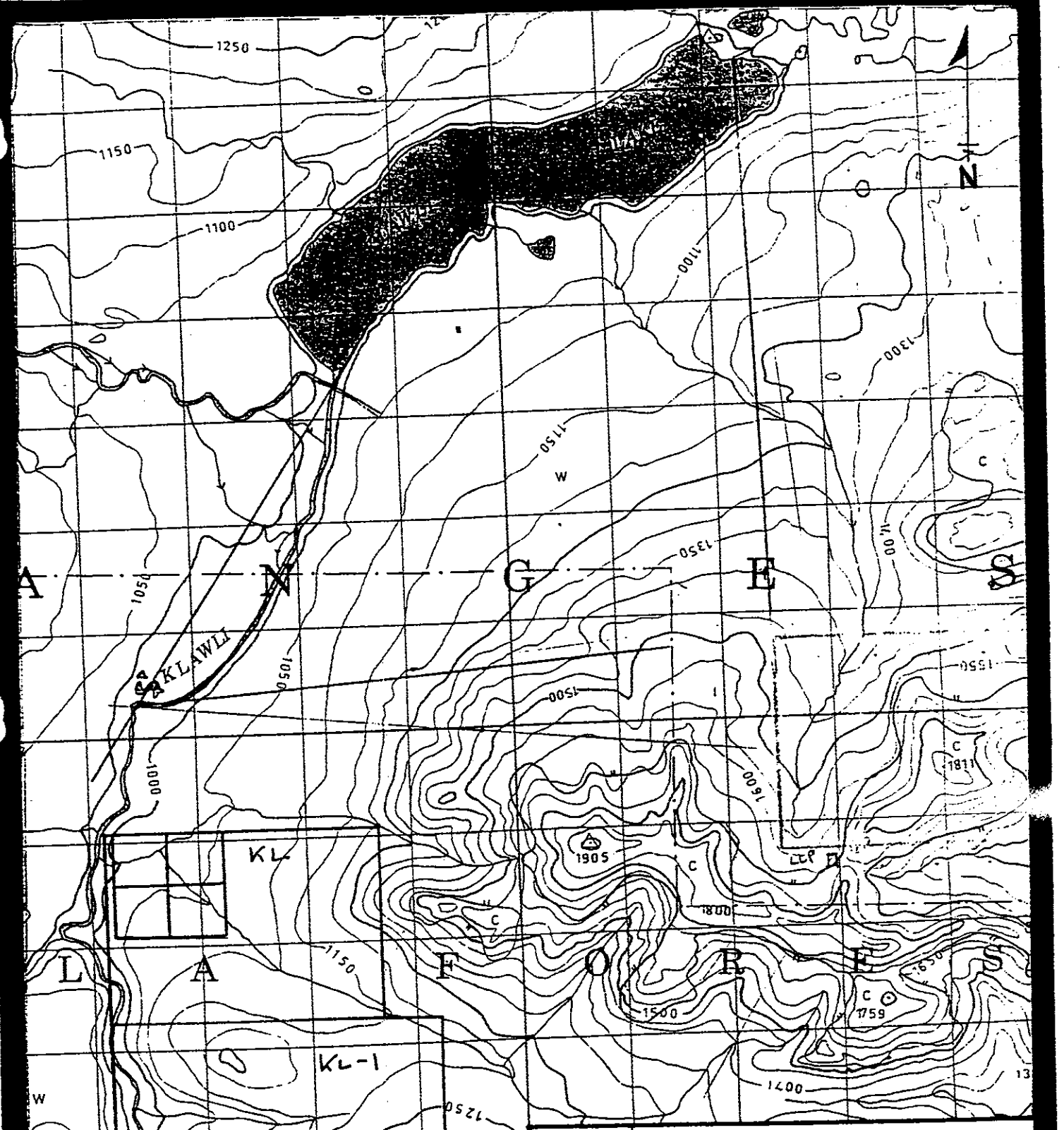
The KL and KL 1 claims were staked by Noranda personnel during the spring of 1990 as agents for Eric Shaede. Noranda currently has an option to earn a 100% interest in the Gold 1-4 and the KL-KL 1 claims. The Gold 1-4 claims cover a Cu-Pb-Ag-Au showing, known alternately as Klawli or Kohse Copper, discovered in the early 1920's which appears to be a mineralised shear zone peripheral to several magnetic highs.

In 1990, Noranda personnel conducted a reconnaissance soil survey that covered most of the KL and KL 1 claims. This survey has indicated the presence of a large zone of anomalous copper and gold highs in the soils. The copper anomalies have a similar trend to the known showing and flank the magnetic highs. If the magnetic highs reflect buried intrusives then the peripheral base-precious metal veins and the Cu-Au soil anomalies may be related to porphyry style mineralisation associated with the intrusives.



REVISED	KL Property
	LOCATION MAP
PROJ. No.	SURVEY BY: F.Stewart DATE: April/91
N.T.S.	DRAWN BY: S.K.B. SCALE: 1:8,000,000
DWG. No. 1	NORANDA EXPLORATION
	OFFICE: PRINCE GEORGE, B.C.

VANCAL 11927



REVISED	LOCATION MAP
	KL, KL 1, and Gold 1-4 Claims
	0 1 2 Km
PROJ No.	SURVEY BY: F.Stewart DATE: April/91
N.T.S. 93 N/7	DRAWN BY: F.Stewart SCALE: 1:50000
DWG. No. 2	NORANDA EXPLORATION
	OFFICE:

INTRODUCTION :

This report describes results of the 1990 geochemical survey performed on the KL & KL 1 claims by Noranda personnel in July and August 1990. The surveys performed were designed to obtain an overview of the property geology and gross features of any anomalous base and precious metal concentrations in the soils.

LOCATION AND ACCESS :

The KL claims are located 7 km north of the west end of Chuchi Lake, approximately 90 km north of Fort St. James. Access to the claim can be gained by helicopter out of Fort St. James (see figure 2).

PHYSIOGRAPHY :

The KL claims cover several steep rocky slopes with elevations ranging from 1000 to 1650 metres. The lower areas around Klawli River have intermittent swamps and stands of mature spruce, pine and balsam. On the upper slopes there are several areas above tree-line.

CLAIM STATISTICS :

The KL claims are located in the Omineca Mining Division and were staked by Noranda Exploration personnel during 1990 as agents for Eric Shaede. The claim statistics are listed in Table 1 below.

Table 1.

CLAIM NAME	UNITS	RECORD #	DUE DATE	OWNER
KL	20	11874	May 4/1991	Norex
KL 1	18	12128	June 15/1991	Norex
Gold 1	1	5975	Nov. 7/91	Norex
Gold 2	1	5976	Nov. 7/91	Norex
Gold 3	1	5977	Nov. 7/91	Norex
Gold 4	1	5978	Nov. 7/91	Norex

PREVIOUS WORK :

This property was originally discovered in the 1920's and optioned to Consolidated Mining and Smelting Company of Canada, who did some minor trenching and sank two adits. This work exposed an area with several Cu-Pb-Ag-Au enriched veins that are known alternately as the Klawli Copper or Kohse Copper Showings. Until 1984, little or no work was done on the property.

In 1984, Hawk Mountain Resources confirmed the presence of anomalous gold values at the showing. Assays up to 0.48 opt Au, 29.22 opt Ag and 6.7 % Cu were collected from the old workings. A recon VLF-EM survey indicated an anomalous zone that roughly parallels the strike of the exposed mineralization. A geochem survey conducted in the showing area proved inconclusive.

In 1987, Eric Shaede resampled the old workings and reconfirmed the presence of high grade Au at the showings.

REGIONAL GEOLOGY :

The KL claims overly Takla Group volcanics on the edge of the Hogem Batholith in a large structural feature called the Quesnel Trough, which is a subdivision of the Intermontane tectonic belt. The Quesnel Trough is fault bounded to the west by the Pinchi Fault, and to the east by a major eastward merging shear zone.

The Quesnel Trough was the site of extensive island-arc volcanism and associated volcanic derived sedimentation during the Upper Triassic to Lower Jurassic time. The rocks deposited during this time are members of the Takla Group volcanics and sediments. The most common lithologies within this group are: argillites, augite porphyries, feldspar porphyries, and andesitic tuffs, flows and breccias. The Takla Group rocks were also intruded by a series of Late Triassic to Late Cretaceous batholiths and stocks.

Block faulting and tilting are the dominant structural styles in and around the Quesnel Trough. The Quesnel trough is in fault contact with older rocks to the east and west and is therefore thought to be a graben.

PROPERTY GEOLOGY :

The property is underlain by Takla Group volcanics that consists of massive green andesites, massive maroon feldspar porphyritic andesites and grey vesicular andesites. These are present in abundant outcrops on the upper slopes at eastern boundary of the claims. At lower elevations there are several

propylitised zones in the volcanics that are fractured and filled with carbonate, but lack visible sulfide mineralization.

The Hogem Batholith is reported to outcrop about 2 km south of the Klawli Copper Showing on the southern boundary of the KL 1 claim. On the adjacent Col property the Hogem hosts a significant NW-SE structurally controlled Cu-Au deposit (6+ million tons grading 0.6% Cu + Au) identified by Falconbridge in the early 1970's.

The Klawli Copper Showing as a major shear zone in green andesites which have been altered to chloritic and talcose schists. Narrow quartz-carbonate veins occur in the shear zone and are abundantly mineralized with chalcopyrite and pyrite and minor azurite and malachite. Grab samples from the showing range in value from 1.24-23.3 gmt Au + 16.1-1225.0 gmt Ag + 2.4-9.3% Cu.

WORK UNDERTAKEN

GEOCHEMISTRY

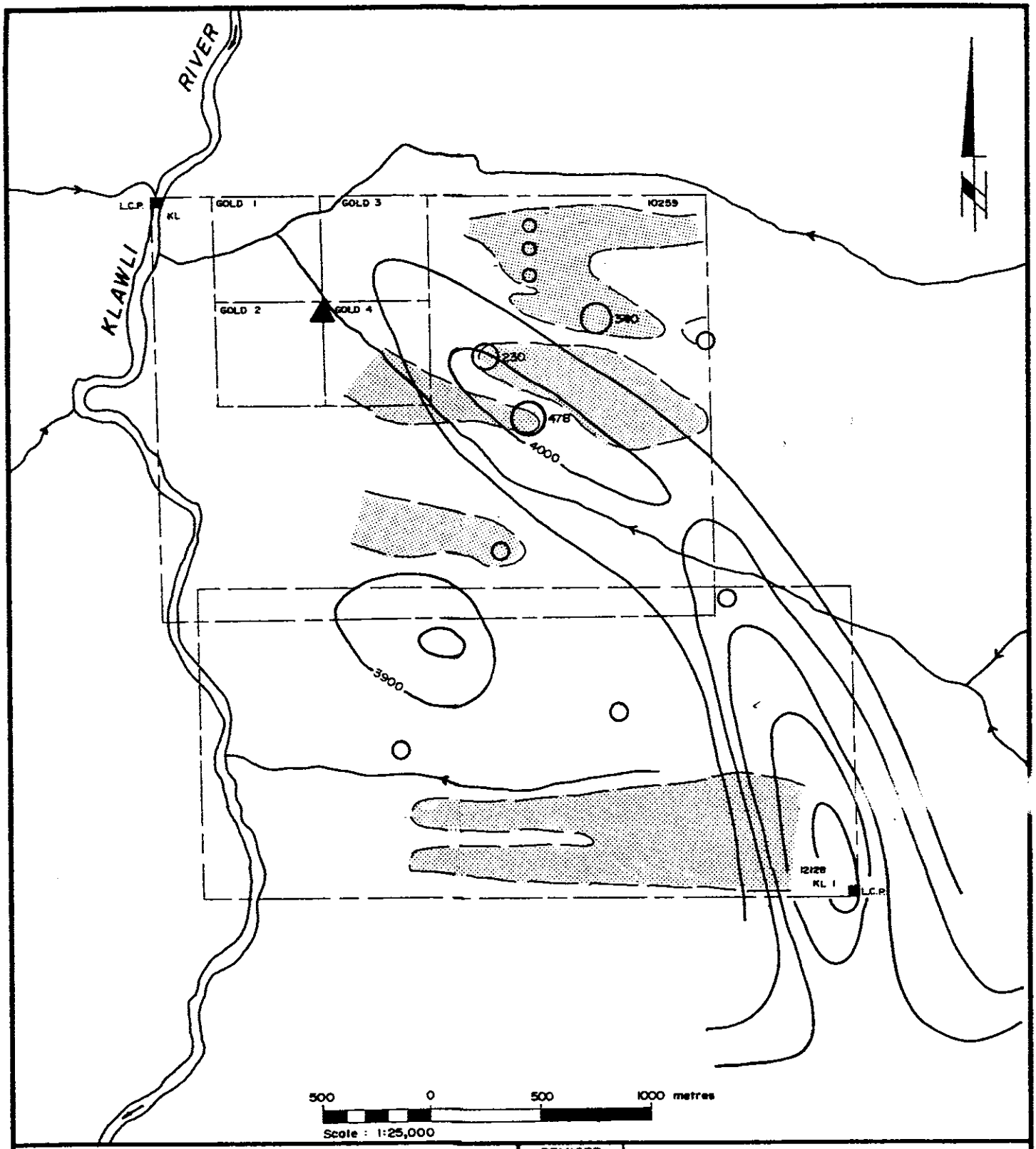
Method :

A total of 267 B-horizon soil samples were taken at 50 m stations on 500 m spaced lines and 49 B-horizon soil samples were taken at 50 m stations as infill lines between the original reconnaissance lines. Samples were collected by Noranda personnel using grub hoes and soil augers from depths ranging from 15-150 cm. The soil samples were placed in kraft wet-strength paper bags, dried, then shipped to Noranda's lab in Vancouver, B.C. for analysis. They were then analyzed by 30 element ICP method plus Au. The analytical results are listed in Appendix III and the anomalous Cu and Au values are plotted on a 1:5,000 map (see Figure 4 in pocket).

Results :

The purpose of this geochemical survey was to test for the presence of anomalous amounts of copper and gold in the soils.

Copper values greater than 100 ppm are generally considered anomalous. There were 109 samples with greater than 100 ppm Cu, 30 of these were greater than 200 ppm. The values ranged from 19-1229 ppm Cu. The anomalous values cluster in several NW-SE elongate zones developed predominantly along both flanks of the regional magnetic high on the KL claim (Fig. 3) and the west side of the magnetic high in the SE corner of the KL1 claim.



LEGEND

Cu in soils 100 ppm

Au in soils 50 ppb

Airborne Mag High

Klawli Cu-Au Showing

REVISED

KL CLAIMS

Compilation Map

PROJ.No. 230
N.T.S. 93N/7
DWG. No. 3

SURVEY BY: _____ DATE: Jan. 1991
DRAWN BY: P.J.L. SCALE: 1:25,000

NORANDA EXPLORATION
OFFICE: PRINCE GEORGE, B.C.

VANCAL 11927

Gold values greater than 10 ppb are generally considered anomalous. The results ranged up to 478 ppb with 75 samples having greater than 10 ppb Au. Most of these samples are only marginally anomalous but 12 samples ran greater than 50 ppb Au. The anomalous values are almost exclusively restricted to the Cu anomalies on the KL claim and have a similar distribution.

Discussion :

The soil profiles encountered during the survey were generally organic rich and this is reflected in the high manganese and iron values in a good proportion of the samples. Moderate correlation of high Cu values, organics and manganese enrichment suggests metal scavenging is at least partly responsible for the high Cu values. There are however, as many if not more high Cu values that do not correspond with organic/manganese enrichment.

CONCLUSIONS

The 1990 recon. soil geochem survey indicated extensive Cu ± Au, Zn, As anomalies up slope to the east and 2 km SE of the showings. Values range up to 1229 ppm Cu and 478 ppb Au, with the strongest values overlying the NW end of the aeromagnetic high. Prospecting to date in the anomaly areas has noted scattered outcrop of propylitically altered massive augite porphyritic volcanics. Most of the anomalous areas however, are covered.

Although metal scavenging in the organic soils probably accounts for some of the soil anomalies, their large size and spacial association with the aeromagnetic anomalies in the Takla volcanics warrants further investigation.

RECOMMENDATIONS

A program of more detailed prospecting, geochemistry and ground geophysics (IP and Mag) is recommended to investigate the known showings, follow up the recon. soil anomalies and localise the aeromagnetic highs.

REFERENCES

Garnett, J. A., (1978): Geology and Mineral Occurrences of the Southern Hogem Batholith, Bulletin No. 70, MEMPR.

Shaede,E., (1987): Geological and Geochemical Report on the Gold 1-4 Claims. B.C. Assessment Report No. 16865.

APPENDIX I

STATEMENT OF COSTS

STATEMENT OF COSTS

Labour:		
24 Man Days @ $200.00/day	$	4800.00
Transportation:		
Truck - 8 days @ $50.00/day	$	400.00
Helicopter - 2.5 hours @ $700.00/hour	$	1750.00
Analysis:		
Soil Samples - 316 samples @ $15.00/sample	$	4740.00
Silt Samples - 2 samples @ $15.00/sample	$	30.00
Rock Samples - 1 sample @ $15.00/sample	$	15.00
Report Preparation:		
Author - 2 days @ $200.00/day	$	400.00
Drafting & Typing	$	200.00
Total Costs for 1990 :	$	12335.00

APPENDIX II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

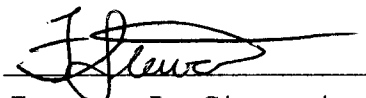
I, FRASER J. STEWART, hereby certify that:

1. *I am a geologist residing at 302-1910 Renwick Crescent, Prince George, B. C.*

2. *I graduated from the University of Alberta in April 1989, with the degree of Bachelor of Science in Geology.*

3. *I have been employed by Noranda Exploration Company, Limited as a geologist since May 1989.*

4. *I personally took part in the surveys described in this report and that this report is based upon a personal knowledge of the property.*



Fraser J. Stewart, (B.Sc.)

APPENDIX III

ANALYTICAL RESULTS

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No.: KL-~~236~~ 286 & R 240 Geol.: D.S.
Material: 267 SOILS, 2 SILTS, 1 ROCK Sheet: 1 of 7
Remarks: 49500E-50300N is a rock.

Date rec'd: JULY 10
Date compl: JULY 23

Copy to Terry

Au – 10.0 g sample digested with aqua-regia and determined by A.A. (D.L. 5 PPB)
ICP – 0.2 g sample digested with 3 ml HClO4/HNO3 (4:1) at 203 deg. C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.
N.B. The major oxide elements and Ba, Be, Ce, Ga, La, Li are rarely dissolved completely from geological materials with acid dissolution methods.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Tl %	V ppm	Zn ppm
2	48500E-50000N	5	0.2	2.43	9	101	0.7	2	0.93	0.2	28	17	79	64	4.26	23	0.32	13	21	1.40	425	2	0.03	40	0.12	10	101	0.33	162	77
3	50050	5	0.2	2.79	8	159	0.7	2	1.19	0.2	37	20	46	93	3.53	21	0.54	15	17	1.10	751	1	0.05	32	0.09	11	112	0.21	130	69
4	50100	10	0.2	5.90	17	406	0.9	2	0.68	0.9	20	29	27	127	5.70	22	1.73	10	24	1.12	864	2	0.04	38	0.08	12	57	0.10	216	96
5	50150	5	0.6	3.44	12	164	0.8	2	1.45	0.6	35	20	58	152	4.00	22	0.43	14	23	0.98	515	2	0.04	36	0.09	11	133	0.21	137	89
6	48500E-50200N	5	0.5	2.61	13	122	0.5	2	0.93	0.8	23	16	39	48	4.22	22	0.22	10	23	0.69	385	2	0.04	18	0.06	9	102	0.38	185	98
7	48500E-50250N	5	0.2	4.06	13	160	0.8	2	1.54	0.6	30	29	53	155	4.92	26	0.32	12	37	1.95	1211	2	0.09	45	0.07	14	113	0.27	193	105
8	50300 *	5	0.6	3.73	15	204	0.8	2	1.41	0.7	36	22	52	121	4.31	23	0.48	17	44	1.38	1489	2	0.05	38	0.10	12	83	0.13	198	103
9	50350	5	0.4	2.95	2	110	0.5	2	1.14	0.2	35	15	60	104	3.72	22	0.27	14	32	1.11	762	2	0.07	28	0.06	8	131	0.24	158	58
10	50400	5	0.2	3.78	11	183	0.6	2	3.02	0.2	21	28	37	44	4.96	21	0.37	10	33	3.05	837	2	0.30	45	0.09	10	105	0.45	202	89
11	48500E-50450N	5	0.5	2.91	8	147	0.3	2	1.61	0.6	32	13	51	72	3.32	24	0.32	14	15	0.95	543	2	0.13	23	0.08	11	138	0.30	152	88
12	48500E-50500N	5	0.2	2.58	9	147	0.7	2	1.19	0.6	37	10	47	43	3.31	22	0.28	15	12	0.66	417	1	0.05	19	0.12	8	164	0.21	126	52
13	50550	5	0.2	3.63	14	151	0.8	2	1.90	0.5	27	25	60	107	4.80	24	0.31	12	26	1.84	638	2	0.13	40	0.19	11	126	0.30	183	86
14	50600	5	0.2	2.61	10	209	0.5	2	1.08	0.2	33	10	53	41	2.82	21	0.33	13	9	0.64	390	1	0.07	19	0.08	10	135	0.22	113	62
15	50650	5	0.2	2.86	9	212	0.5	2	1.30	0.2	27	11	30	37	3.03	20	0.59	11	10	0.71	433	2	0.06	18	0.08	8	150	0.19	129	104
16	48500E-50700N	5	0.2	2.64	11	231	0.7	2	1.37	0.4	40	12	58	67	3.14	22	0.35	17	12	0.67	614	1	0.04	31	0.08	8	202	0.18	114	55
17	48500E-50750N	5	0.2	2.09	10	131	0.5	2	1.02	0.2	34	9	52	32	2.86	20	0.26	14	10	0.48	325	1	0.04	20	0.06	9	154	0.19	111	41
18	50800	85	0.2	3.46	10	235	0.7	2	1.27	0.6	34	14	36	49	3.67	23	0.45	15	18	0.77	470	1	0.04	25	0.10	10	174	0.21	136	70
19	50850	70	0.4	5.28	88	260	0.7	3	2.11	0.6	26	34	21	67	5.01	27	0.63	11	23	1.29	1462	1	0.05	27	0.14	10	209	0.18	168	131
20	50950	5	0.2	3.52	11	279	0.5	2	1.35	0.4	35	15	31	37	3.83	23	0.61	15	17	0.86	567	1	0.04	16	0.05	11	186	0.21	157	68
21	48500E-51000N	15	0.4	3.79	17	295	0.6	2	1.26	0.6	33	15	41	36	3.84	26	0.53	16	24	0.76	534	3	0.04	21	0.21	14	174	0.18	144	80
22	48500E-51050N	5	0.2	3.39	12	183	0.7	2	1.40	0.2	36	12	38	45	3.54	26	0.26	17	15	0.62	481	1	0.04	19	0.15	9	207	0.20	136	70
23	51100	5	0.2	2.93	5	183	0.5	2	1.41	0.2	41	9	53	28	3.02	27	0.24	19	12	0.41	470	1	0.04	13	0.04	12	231	0.23	132	58
24	51150	5	0.2	4.14	18	357	0.8	2	1.41	0.2	41	14	47	93	3.80	27	0.35	20	44	0.73	450	2	0.05	27	0.05	13	183	0.21	132	76
25	51200	5	0.2	3.25	13	186	0.5	2	1.59	0.2	36	12	36	23	3.40	27	0.35	18	18	0.62	575	1	0.04	15	0.08	10	220	0.22	133	71
26	48500E-51250N	5	0.6	3.58	15	204	0.6	2	1.92	0.3	35	16	30	37	3.93	26	0.36	16	14	0.88	544	1	0.04	21	0.22	9	231	0.20	144	81
27	48500E-51350N	5	0.2	3.62	11	641	0.7	2	1.51	0.2	40	16	31	190	3.45	26	0.34	18	18	0.78	1254	1	0.04	19	0.10	13	173	0.20	127	71
28	51400	5	1.4	4.07	13	410	1.1	2	2.14	0.2	39	15	32	1567	3.52	25	0.30	25	28	0.74	972	1	0.05	28	0.13	14	175	0.19	114	82
29	51450	10	0.2	4.05	11	184	0.5	2	1.32	0.2	34	11	28	30	3.53	28	0.32	15	20	0.69	400	1	0.04	15	0.11	12	198	0.25	138	59
30	51500	5	0.2	3.93	17	216	0.6	2	1.31	0.2	36	13	34	47	4.04	30	0.34	16	24	0.78	476	2	0.04	19	0.11	16	185	0.25	151	80
31	48500E-51550N	20	0.2	3.46	11	167	0.5	2	1.19	0.6	37	12	47	36	3.97	31	0.29	17	21	0.70	408	2	0.04	18	0.08	8	180	0.22	154	82
32	48500E-51600N *	5	0.8	4.95	12	299	1.2	2	1.69	0.2	41	18	33	1004	3.97	29	0.37	24	26	1.15	1160	1	0.05	28	0.08	11	182	0.20	142	86
33	51650	5	0.2	3.99	12	240	0.6	2	1.43	0.2	38	17	28	73	3.85	29	0.32	15	25	0.95	507	1	0.05	22	0.06	10	191	0.23	150	89
34	51700	5	0.6	4.21	16	224	0.8	2	1.69	0.5	40	22	32	160	4.02	31	0.36	17	33	1.21	1515	1	0.05	25	0.07	15	172	0.27	146	142
35	51750	5	1.6	5.52	20	336	1.4	2	1.38	1.8	52	26	32	1040	4.71	31	0.37	32	38	1.09	4047	1	0.05	33	0.14	18	135	0.22	149	180
36	48500E-51800N	5	2.0	4.62	8	405	1.3	2	1.98	1.7	47	22	32	254	3.98	29	0.28	20	37	0.79	4195	1	0.05	32	0.14	18	168	0.20	118	154

N.D. = None Detected * – 35 mesh

T.T. No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	F ppm	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
37	48500E-51850N	5	0.2	3.31	11	179	0.5	2	1.65	0.4	36	13	25	31	3.88	30	0.31	16	19	0.84	500	1	0.05	15	0.09	10	216	0.27	155	[illegible]
38	51900	5	[illegible]	3.50	11	202	0.7	2	1.96	0.2	39	16	28	[illegible]	3.54	30	0.31	18	20	1.08	843	1	0.05	21	0.08	10	217	0.26	134	74
39	51950	5	[illegible]	3.26	11	195	0.7	3	2.08	0.6	43	15	30	[illegible]	3.58	29	0.31	21	22	0.94	1011	1	0.05	19	0.10	10	220	0.23	134	97
40	52000	5	[illegible]	3.06	8	175	0.6	2	1.89	0.4	40	13	28	69	3.33	27	0.30	16	16	0.75	928	1	0.05	16	0.10	8	221	0.23	129	83
41	48500E-52050N	10	0.2	3.11	12	149	0.5	2	1.75	0.4	38	13	33	60	3.11	30	0.22	16	17	0.75	662	2	0.04	16	0.05	11	221	0.24	122	76
42	48500E-52100N	5	[illegible]	3.39	10	175	1.0	2	1.76	0.4	53	14	38	[illegible]	3.18	29	0.24	22	16	0.70	838	1	0.08	22	0.08	10	191	0.22	117	91
43	52150	5	[illegible]	3.20	8	164	0.5	2	1.62	0.2	38	10	36	38	2.92	29	0.27	16	15	0.60	437	1	0.04	13	0.05	11	212	0.24	126	66
44	52200	5	0.2	3.25	13	152	0.5	2	1.62	0.2	36	12	31	29	3.97	32	0.32	15	15	0.84	504	1	0.04	15	0.16	11	222	0.26	160	67
45	52250	5	[illegible]	3.35	12	193	0.7	2	1.94	0.2	40	15	36	[illegible]	3.37	29	0.32	17	20	0.92	1060	1	0.05	21	0.07	17	192	0.22	121	79
46	48500E-52300N	5	[illegible]	3.31	5	151	0.6	2	1.88	0.6	40	13	34	79	3.39	30	0.22	17	25	0.70	568	1	0.05	17	0.05	12	212	0.25	126	101
47	48500E-52350N *	5	[illegible]	1.25	5	259	0.6	2	3.89	0.6	20	10	13	[illegible]	1.74	16	0.08	13	5	0.23	2738	3	0.02	13	0.14	7	136	0.06	44	77
48	52400 *	5	[illegible]	1.10	13	813	0.9	2	4.43	4.0	28	28	19	[illegible]	2.14	14	0.09	14	5	0.15	14245	3	0.02	38	0.19	8	144	0.03	59	102
49	52450 *	5	[illegible]	1.30	6	223	0.6	2	4.15	0.6	25	10	18	[illegible]	1.46	15	0.16	11	6	0.30	1039	1	0.07	14	0.15	20	149	0.08	47	72
51	52500 *	5	0.2	0.98	7	196	0.6	2	4.14	0.3	18	8	16	[illegible]	0.90	15	0.09	12	5	0.17	1116	2	0.02	12	0.14	8	133	0.03	26	76
52	48500E-52600N *	5	[illegible]	1.19	4	161	0.6	2	2.89	0.4	66	10	14	[illegible]	1.65	22	0.10	32	8	0.46	1262	1	0.02	12	0.11	16	136	0.22	46	123
53	48500E-52700N *	5	[illegible]	1.26	3	166	0.5	2	3.92	0.2	20	7	16	85	1.29	14	0.12	10	5	0.22	542	1	0.02	9	0.11	4	170	0.09	44	56
54	52750	5	[illegible]	3.09	11	292	0.7	2	1.50	0.2	46	14	43	65	3.52	27	0.44	19	13	0.68	777	1	0.05	19	0.11	9	194	0.19	134	74
55	52800	5	0.2	2.40	4	161	0.5	2	1.28	0.2	38	9	40	46	2.85	24	0.24	15	12	0.48	347	2	0.04	18	0.07	7	194	0.21	110	41
56	52850	5	0.2	3.02	8	130	0.6	2	1.25	0.2	40	8	30	36	3.29	27	0.24	14	11	0.40	345	1	0.08	14	0.11	7	211	0.23	122	54
57	48500E-52900N	5	0.2	0.80	6	301	0.4	2	4.06	0.2	16	6	10	46	0.87	14	0.07	7	3	0.27	1967	1	0.02	10	0.11	4	298	0.04	23	80
58	48500E-52950N	5	0.2	2.70	8	188	0.5	2	1.65	0.2	41	9	24	25	2.23	25	0.23	18	11	0.47	389	1	0.05	11	0.06	7	230	0.23	99	45
59	53000	5	0.2	3.42	11	239	0.6	2	1.58	0.2	39	14	34	55	3.37	28	0.25	16	18	0.74	513	1	0.04	18	0.06	11	209	0.28	137	72
60	53050	10	[illegible]	3.32	10	918	0.7	2	1.62	0.2	46	14	41	66	3.51	28	0.44	19	21	0.79	673	1	0.05	22	0.07	11	194	0.23	124	104
61	53100 *	5	0.4	3.57	8	383	0.7	3	2.11	0.6	85	22	38	74	4.38	35	0.20	37	33	1.68	2975	5	0.03	42	0.26	10	157	0.44	137	137
62	48500E-53150N *	5	[illegible]	3.65	11	945	0.9	2	1.75	0.3	40	20	37	78	3.74	28	0.47	16	19	0.83	825	1	0.05	22	0.09	10	229	0.22	135	87
63	48500E-53200N *	5	[illegible]	0.55	5	342	0.5	2	4.93	0.2	11	4	6	[illegible]	0.51	11	0.05	6	3	0.21	638	1	0.02	10	0.10	5	318	0.02	12	90
64	53300 *	5	[illegible]	2.21	4	379	0.7	2	2.62	0.3	37	10	23	[illegible]	2.50	24	0.21	16	9	0.41	1216	2	0.03	16	0.18	6	310	0.13	77	69
65	53350	10	0.2	4.02	16	365	0.9	2	1.49	0.2	44	13	31	94	3.22	28	0.33	20	19	0.73	538	1	0.05	19	0.09	10	216	0.22	124	70
66	53400	5	[illegible]	3.92	12	364	0.8	2	1.46	0.2	42	17	36	67	3.10	29	0.30	18	19	0.75	753	1	0.05	17	0.09	9	212	0.24	131	83
67	48500E-53450N	5	[illegible]	3.50	13	274	0.7	2	1.33	0.2	43	13	35	52	3.10	28	0.38	19	16	0.61	493	1	0.04	18	0.10	10	200	0.22	124	59
68	48500E-53500N	5	0.2	4.36	30	375	1.0	2	1.24	0.2	51	16	41	90	3.68	29	0.39	24	23	0.69	767	1	0.04	25	0.11	12	178	0.19	135	80
69	49000E-50000N	5	0.2	2.79	14	110	0.5	2	0.73	0.3	28	18	76	67	4.46	27	0.28	11	14	1.52	422	3	0.04	42	0.15	10	71	0.37	178	78
70	50050	5	0.2	3.01	16	166	0.7	2	1.05	0.2	35	17	52	[illegible]	4.09	27	0.31	14	20	1.16	576	2	0.05	32	0.09	10	114	0.29	157	65
71	50100	5	0.2	2.58	12	213	0.7	2	0.99	0.7	33	14	70	79	3.57	29	0.42	16	12	0.84	481	3	0.04	27	0.12	13	113	0.25	141	72
72	49000E-50150N	5	0.2	3.38	20	188	1.0	2	1.43	0.2	37	26	94	[illegible]	4.67	31	0.52	18	27	2.08	1012	3	0.04	58	0.18	15	101	0.31	169	88
73	49000E-50200N	5	0.2	2.67	16	194	0.8	2	1.58	0.2	39	19	58	[illegible]	3.72	27	0.51	17	16	1.07	1132	2	0.04	32	0.16	14	118	0.21	139	77
74	50250	5	0.2	2.37	9	115	0.4	2	1.17	0.2	27	8	47	26	2.84	27	0.27	11	7	0.54	309	1	0.05	15	0.05	7	149	0.25	127	44
75	50300	5	0.2	2.99	15	161	0.5	2	1.40	0.2	33	13	51	41	3.74	30	0.31	14	15	0.68	441	1	0.07	22	0.12	8	153	0.27	142	75
76	50350	5	0.2	4.20	24	231	0.6	4	2.57	0.2	26	24	43	[illegible]	4.65	34	0.27	11	24	2.11	602	2	0.09	37	0.15	14	260	0.33	151	79
77	49000E-50400N *	5	0.2	1.89	19	66	0.4	2	4.01	0.2	12	11	17	93	2.12	17	0.13	6	15	0.93	307	1	0.05	18	0.06	8	187	0.15	87	66
78	49000E-50450N	5	0.2	4.95	39	153	0.7	6	2.89	0.2	24	27	29	[illegible]	4.74	30	0.48	10	27	2.15	969	3	0.03	35	0.11	15	328	0.19	200	77
79	50500	5	[illegible]	2.85	17	201	0.6	2	1.51	0.2	39	14	54	35	4.00	32	0.27	17	18	0.92	573	3	0.05	25	0.12	13	186	0.30	155	98
80	50550	20	0.2	5.01	38	120	1.0	6	3.08	0.5	32	20	46	98	5.18	35	0.37	16	24	1.11	966	4	0.04	40	0.15	20	265	0.32	178	97
81	49000E-50600N	5	[illegible]	2.72	14	187	0.5	2	1.08	0.2	37	13	78	71	2.86	33	0.25	16	16	0.68	480	3	0.06	27	0.11	10	164	0.21	108	94

* -35 mesh

T.T. No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn
82	49000E-50850N	5	0.4	3.81	4	403	0.7	2	1.01	0.2	37	9	33	36	3.25	32	0.57	16	14	0.40	507	1	0.05	12	0.05	8	166	0.21	141	
83	49000E-50700N	5	0.2	2.74	9	152	0.4	2	1.31	0.2	38	8	40	13	2.78	34	0.31	16	11	0.32	349	1	0.04	9	0.06	8	199	0.23	126	53
84	50800	5	0.2	3.24	12	219	0.6	2	1.39	0.2	37	13	45	40	3.62	33	0.42	15	15	0.76	472	1	0.05	19	0.07	11	194	0.22	145	60
85	50850	5	0.2	2.98	10	210	0.5	2	1.36	0.2	35	10	32	19	3.29	33	0.37	15	13	0.57	442	1	0.04	14	0.05	9	200	0.20	134	54
86	50900	5	0.2	3.11	10	468	0.6	2	1.31	0.2	40	10	56	45	2.86	31	0.27	17	26	0.49	609	1	0.05	21	0.03	7	172	0.20	101	73
87	49000E-50950N	15	0.2	3.39	11	308	0.5	2	1.02	0.2	36	8	41	20	3.04	35	0.52	16	11	0.38	300	1	0.05	11	0.13	8	154	0.22	131	51
88	49000E-51000N	5	0.2	3.52	10	297	0.5	2	0.90	0.2	37	5	34	15	2.84	31	0.47	16	11	0.30	262	1	0.04	9	0.11	6	143	0.19	118	45
89	51050	5	0.2	2.77	8	375	0.4	2	0.55	0.2	26	14	16	39	3.42	28	0.36	11	15	0.65	1696	1	0.05	10	0.09	11	69	0.16	139	97
90	51100	5	0.2	3.20	7	213	0.5	2	0.97	0.2	34	4	34	14	2.72	32	0.39	14	9	0.25	305	1	0.04	7	0.10	8	156	0.19	114	46
91	51150	5	0.2	2.96	10	223	0.5	2	1.35	0.2	35	8	39	23	3.10	36	0.38	16	9	0.36	361	2	0.04	11	0.12	10	197	0.20	135	64
92	49000E-51200N	10	0.2	3.32	6	272	0.6	2	1.17	0.2	34	7	37	21	2.46	31	0.40	14	9	0.49	355	1	0.04	10	0.04	6	182	0.20	117	43
93	49000E-51250N	5	0.4	3.50	5	260	0.6	2	1.13	0.2	34	7	41	35	2.52	30	0.41	14	11	0.52	346	1	0.05	13	0.07	8	169	0.19	112	48
94	51300	20	0.2	3.69	8	342	0.6	2	1.07	0.2	37	7	29	27	2.53	32	0.66	16	9	0.45	290	1	0.05	11	0.06	9	172	0.19	136	42
95	51350	5	0.2	3.68	9	263	0.5	2	0.72	0.2	40	5	33	22	2.98	32	0.63	19	5	0.32	269	1	0.04	8	0.08	9	114	0.20	141	49
96	51400	5	0.2	3.53	9	197	0.5	2	1.12	0.2	37	7	41	18	3.64	36	0.32	17	7	0.31	327	1	0.05	12	0.10	8	181	0.23	157	48
97	49000E-51450N	5	0.2	3.27	13	190	0.4	2	1.17	0.2	32	7	30	26	3.36	34	0.37	13	8	0.41	322	1	0.05	11	0.08	9	183	0.21	149	41
98	49000E-51500N	20	0.4	4.34	16	695	0.7	2	1.38	0.4	32	14	19	66	4.38	33	0.58	13	27	0.62	533	1	0.05	12	0.11	13	168	0.16	158	91
99	51550	5	0.2	3.53	13	168	0.5	2	1.41	0.3	30	13	37	34	4.34	36	0.34	12	21	0.79	467	1	0.05	16	0.07	12	187	0.23	160	74
101	51600	55	0.4	2.78	10	178	0.4	2	1.17	0.2	41	7	43	20	2.67	35	0.31	17	9	0.30	330	2	0.05	11	0.05	8	184	0.20	130	46
102	51650	10	1.0	5.71	14	513	1.3	2	0.96	1.7	40	23	31	215	4.17	31	0.49	22	30	0.94	1804	2	0.05	29	0.09	22	121	0.15	137	319
103	49000E-51700N	5	0.2	2.96	7	197	0.4	2	1.23	0.2	37	5	28	14	2.41	34	0.36	14	6	0.26	328	1	0.04	6	0.04	9	188	0.23	123	36
104	49000E-51750N	6	2.2	1.89	3	315	0.6	2	3.55	2.4	23	9	18	220	1.62	21	0.17	12	10	0.30	860	1	0.04	16	0.18	8	184	0.09	64	87
105	51800	5	1.6	1.10	8	236	0.5	2	3.91	0.4	15	6	12	186	0.98	17	0.12	9	7	0.25	726	1	0.03	13	0.13	4	174	0.06	34	56
106	51850	5	0.6	3.68	14	243	0.7	2	1.94	0.2	38	14	26	104	3.31	32	0.30	17	25	0.82	791	1	0.05	18	0.08	8	199	0.22	127	108
107	51900	10	1.2	0.71	4	161	0.4	2	3.61	0.2	16	3	7	82	0.44	17	0.06	11	3	0.10	593	1	0.02	6	0.14	4	149	0.01	12	46
108	49000E-51950N	5	0.8	1.41	3	208	0.5	2	3.67	0.2	19	6	12	87	1.12	17	0.16	10	8	0.27	635	1	0.03	9	0.11	3	150	0.07	39	65
109	49000E-52000N	5	0.8	0.36	5	93	0.2	2	2.06	0.2	21	2	3	31	0.29	22	0.07	6	2	0.05	66	1	0.02	3	0.07	6	84	0.01	9	39
110	52050	5	0.8	1.68	9	236	0.6	2	3.29	0.2	22	8	19	126	1.38	20	0.18	13	8	0.33	718	1	0.02	13	0.14	4	140	0.07	45	46
111	52100	5	0.6	0.73	6	155	0.6	2	3.24	0.2	18	5	9	110	0.64	18	0.09	7	4	0.18	442	1	0.02	8	0.10	6	133	0.03	25	45
112	52150	5	0.4	0.17	2	131	0.3	2	3.39	0.2	12	2	3	33	0.12	16	0.03	2	2	0.06	12	1	0.01	4	0.03	2	158	0.01	7	32
113	49000E-52200N	5	0.6	0.39	2	155	0.3	2	4.59	0.2	6	3	4	98	0.29	12	0.04	4	3	0.09	571	1	0.02	6	0.07	2	206	0.01	12	17
114	49000E-52250N	5	0.4	3.31	7	192	0.8	2	1.94	0.2	33	12	26	203	2.95	26	0.24	17	16	0.67	546	1	0.06	17	0.14	7	161	0.16	91	68
115	52300	5	0.2	3.79	9	327	0.8	2	1.20	0.2	44	16	37	82	3.67	29	0.48	21	18	0.69	875	1	0.07	20	0.11	7	181	0.18	137	75
116	52350	5	1.8	1.27	5	344	0.8	2	3.89	0.2	22	6	16	128	0.94	14	0.06	16	3	0.15	1862	1	0.02	13	0.25	3	154	0.02	25	28
117	52400	5	0.4	2.92	5	332	0.6	2	1.80	0.2	38	11	27	60	3.11	30	0.28	16	14	0.56	1572	1	0.06	15	0.07	7	192	0.19	109	53
118	49000E-52450N	5	0.6	2.93	6	278	0.6	2	1.67	0.2	37	9	27	85	2.75	31	0.24	17	15	0.56	503	1	0.07	15	0.07	8	201	0.20	105	50
119	49000E-52500N	5	0.8	3.78	9	423	0.9	2	1.45	0.2	44	13	26	177	2.80	32	0.30	23	16	0.57	756	1	0.05	21	0.09	11	181	0.19	100	66
120	52550	25	0.4	2.95	6	278	0.6	2	1.30	0.2	37	10	34	52	2.69	32	0.39	16	11	0.54	520	1	0.05	14	0.09	9	183	0.19	107	55
121	52600	230	0.4	3.24	11	209	0.5	2	1.12	0.2	37	8	39	36	2.61	32	0.44	16	13	0.45	323	1	0.04	12	0.06	10	194	0.19	111	48
122	52650	10	0.4	2.67	6	160	0.6	2	1.33	0.2	35	8	39	30	2.72	31	0.29	14	10	0.48	372	1	0.04	12	0.11	7	205	0.21	110	41
123	49000E-52700N	5	0.2	2.56	6	196	0.5	2	1.30	0.2	39	6	35	19	1.83	32	0.32	16	9	0.38	310	1	0.04	8	0.04	6	207	0.22	88	45
124	49000E-52750N	5	0.6	2.53	8	166	0.4	2	1.24	0.2	34	5	33	22	2.14	31	0.32	13	6	0.26	290	1	0.04	7	0.05	8	205	0.20	102	36
125	49000E-52800N	30	0.2	2.82	13	224	0.7	2	1.21	0.2	44	13	39	96	3.63	31	0.48	19	11	0.62	607	1	0.04	20	0.13	11	170	0.18	130	44

-35 mesh

T.T. No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
126	49000E-52850N	5	1.0	3.18	8	339	0.7	2	2.00	0.2	42	12	40	55	3.14	31	0.24	17	13	0.44	1028	1	0.04	16	0.10	10	198	0.20	118	
127	52900	20	2.0	3.15	10	438	0.6	2	1.62	2.0	37	11	33	87	3.16	31	0.35	18	17	0.81	992	1	0.04	18	0.10	9	204	0.20	111	178
128	49000E-52950N	5	0.6	2.66	10	269	0.6	2	1.80	0.2	40	9	36	83	2.85	31	0.29	18	12	0.51	609	1	0.04	17	0.11	9	208	0.19	107	50
129	49000E-53000N	5	0.2	2.81	11	477	0.6	2	2.13	0.2	36	13	31	91	2.92	30	0.36	16	12	0.57	1336	1	0.05	21	0.10	9	202	0.17	93	63
130	53050	25	0.2	2.99	12	176	0.4	2	1.16	0.2	41	5	26	17	2.52	35	0.39	17	7	0.25	264	1	0.04	7	0.08	9	205	0.24	134	36
131	53100	20	0.6	3.19	6	440	0.5	2	1.75	0.2	39	9	24	70	2.26	32	0.42	17	13	0.41	511	2	0.04	13	0.09	6	197	0.17	103	51
132	53150 *	5	0.8	0.70	10	2149	0.6	5	3.42	2.6	32	12	6	180	2.21	22	0.07	12	3	0.13	26238	98	0.02	36	0.12	6	424	0.01	29	51
133	49000E-53200N *	5	0.6	0.28	3	252	0.3	2	3.72	0.2	14	2	3	87	0.24	18	0.06	6	2	0.11	162	2	0.01	9	0.06	6	465	0.01	9	42
134	49000E-53250N *	5	0.4	0.16	3	178	0.2	2	2.66	1.6	18	2	3	38	0.15	21	0.05	3	2	0.08	43	2	0.01	6	0.05	2	368	0.01	6	67
135	49000E-53300N *	5	0.2	0.28	3	264	0.3	2	3.43	0.6	15	3	4	98	0.20	18	0.06	5	2	0.12	881	2	0.02	10	0.08	3	464	0.01	9	80
136	49500E-50050N	10	1.4	3.08	6	180	0.6	2	1.24	0.2	31	11	57	76	3.52	35	0.32	13	12	0.70	342	1	0.06	19	0.07	6	138	0.33	156	63
137	50100	15	0.4	2.79	6	139	0.5	2	1.04	0.2	32	12	71	86	3.29	32	0.24	14	17	0.80	393	1	0.07	21	0.07	5	111	0.30	133	69
138	49500E-50150N	5	2.0	5.27	9	233	1.5	4	1.05	0.7	32	22	51	1076	4.69	33	0.35	20	45	1.16	840	1	0.06	42	0.09	9	85	0.25	161	83
139	49500E-50200N	5	0.4	2.87	2	120	0.4	2	1.40	0.2	34	7	45	32	2.93	37	0.27	14	6	0.50	325	1	0.08	12	0.05	6	150	0.32	144	50
140	50250 *	5	2.2	3.12	9	107	1.1	5	2.36	0.2	29	22	48	1581	3.93	32	0.23	29	37	1.31	977	1	0.05	33	0.18	7	107	0.25	140	94
141	50350	5	3.6	5.23	16	94	1.1	6	2.44	0.2	23	36	16	1180	5.54	42	0.24	10	85	3.78	932	2	0.27	43	0.06	3	69	0.46	189	147
142	50400	5	1.0	4.37	15	178	1.1	4	2.17	0.2	41	24	43	1678	4.20	37	0.34	18	57	1.55	2358	2	0.11	36	0.08	9	144	0.32	177	151
143	49500E-50450N *	5	0.6	3.85	8	173	0.8	4	2.39	0.2	26	21	33	1739	3.88	30	0.29	13	44	1.31	986	1	0.06	39	0.08	7	161	0.20	141	98
144	49500E-50500N	5	0.4	3.81	10	172	0.7	4	2.45	0.2	31	19	43	1169	4.24	38	0.31	14	30	1.48	545	1	0.10	28	0.06	6	188	0.34	177	80
145	50550	5	0.6	3.69	15	199	0.8	3	2.10	0.4	49	24	50	193	4.24	39	0.29	16	24	1.19	3514	2	0.11	27	0.09	10	190	0.33	172	117
146	50600	6	0.2	3.68	12	289	0.8	2	1.35	0.2	37	11	44	48	3.80	33	0.50	15	15	0.79	476	1	0.06	23	0.11	10	154	0.22	133	75
147	50650	5	0.2	3.73	9	336	0.6	2	1.02	0.2	34	11	35	82	3.21	31	0.53	15	13	0.68	532	1	0.05	20	0.09	10	146	0.20	123	66
148	49500E-50700N	5	0.2	3.06	10	262	0.5	2	1.36	0.2	41	9	41	22	3.03	33	0.47	17	11	0.57	481	1	0.04	13	0.09	12	187	0.21	124	61
149	49500E-50750N	5	0.2	2.53	11	191	0.4	2	1.06	0.2	37	8	62	25	2.55	31	0.33	16	11	0.61	339	1	0.04	20	0.09	10	149	0.20	97	55
151	50800	5	0.2	3.11	9	318	0.8	2	0.84	0.2	37	8	37	14	1.99	30	0.57	16	6	0.34	338	1	0.04	8	0.03	8	157	0.18	98	41
152	50850	5	0.2	3.70	9	321	0.6	2	0.92	0.2	35	8	29	29	2.46	29	0.48	16	12	0.55	389	1	0.05	12	0.05	8	151	0.16	102	52
153	50900	5	0.4	3.94	12	305	0.5	2	1.25	0.2	30	9	39	24	2.74	32	0.55	13	9	0.69	407	1	0.06	14	0.05	7	170	0.22	127	64
154	49500E-50950N	100	0.2	3.06	4	203	0.4	2	1.28	0.2	35	4	41	14	1.81	30	0.34	14	6	0.33	301	1	0.04	7	0.03	5	203	0.21	96	30
155	49500E-51000N	5	0.2	3.33	14	233	0.5	2	0.99	0.2	34	8	46	32	2.68	27	0.41	15	12	0.67	375	1	0.05	17	0.08	8	149	0.20	111	58
156	51050	5	1.4	5.83	7	527	1.3	2	0.63	0.2	31	11	46	138	3.19	30	0.51	17	22	0.85	323	1	0.05	25	0.11	17	108	0.21	116	102
157	51100	5	0.2	2.97	13	160	0.5	2	1.09	0.2	34	8	48	29	3.03	30	0.30	14	13	0.49	354	1	0.04	16	0.12	8	155	0.20	115	58
158	51150	5	0.4	3.45	10	210	0.5	2	1.37	0.2	38	7	34	25	2.64	31	0.38	15	10	0.52	365	1	0.05	11	0.05	8	201	0.21	114	48
159	49500E-51200N	15	0.4	3.77	14	246	0.6	2	1.34	0.2	33	10	34	39	3.34	32	0.44	14	15	0.76	438	1	0.04	16	0.09	10	186	0.20	128	72
160	49500E-51250N	5	0.2	3.91	22	273	0.6	2	1.63	0.2	38	11	43	38	3.62	35	0.50	15	15	0.79	497	1	0.05	16	0.12	12	203	0.20	137	69
162	51350	5	0.4	3.48	11	202	0.5	2	1.39	0.2	36	9	34	25	3.42	36	0.39	14	12	0.61	482	1	0.05	13	0.10	7	197	0.21	136	63
163	51400	5	0.2	3.30	5	186	0.5	2	1.61	0.2	36	5	27	16	2.57	36	0.38	16	7	0.38	367	1	0.04	8	0.07	9	218	0.23	123	42
164	51450	10	0.2	4.30	10	242	0.6	2	1.65	0.2	32	15	28	40	4.08	39	0.52	14	17	1.17	694	1	0.05	18	0.12	11	207	0.24	164	78
165	49500E-51500N	5	0.6	3.47	7	232	0.6	2	1.07	0.2	34	10	27	30	3.93	35	0.40	16	14	0.49	371	1	0.05	11	0.22	9	160	0.22	146	78
166	49500E-51550N	5	0.2	3.69	8	329	0.6	2	1.37	0.2	33	7	32	43	2.37	34	0.60	13	11	0.48	408	1	0.05	11	0.08	10	194	0.21	115	66
167	51600	5	0.4	4.49	11	310	0.7	2	1.31	0.2	35	13	30	58	3.81	37	0.55	14	21	0.95	510	1	0.05	21	0.13	11	186	0.20	137	82
168	51650	5	0.2	3.25	12	230	0.5	2	1.39	0.2	38	9	38	23	3.45	38	0.39	17	16	0.60	389	1	0.05	13	0.07	10	196	0.23	164	63
169	51700	5	0.4	3.82	18	306	0.6	3	1.31	0.4	30	14	35	51	4.60	39	0.50	12	19	0.77	697	1	0.05	17	0.21	12	172	0.22	168	81
170	49500E-51750N	5	0.2	4.17	8	407	0.6	2	1.37	0.2	29	11	29	30	3.39	40	0.66	12	13	0.71	445	1	0.06	12	0.08	15	187	0.24	165	74
171	49500E-51800N	5	0.4	3.31	11	374	0.7	2	1.42	0.2	33	12	21	54	2.82	35	0.44	16	17	0.69	1230	2	0.06	16	0.07	14	161	0.15	104	117

* -35 mesh

T.T. No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	
172	49500E-51850N	5	0.4	3.67	6	375	0.6	2	1.30	0.2	38	10	23	32	3.36	37	0.53	18	12	0.66	409	1	0.06	13	0.09	9	185	0.25	145	
173	51900	5	0.4	4.75	7	357	0.7	2	1.38	0.2	34	10	23	27	3.88	42	0.60	14	17	0.61	441	1	0.11	11	0.17	13	239	0.25	160	94
174	51950	5	0.4	4.12	12	397	0.6	2	1.03	0.2	40	8	28	22	3.39	41	0.67	16	10	0.42	332	1	0.10	10	0.05	11	180	0.26	159	69
176	49500E-52000N	5	0.2	3.26	15	238	0.6	2	1.70	0.2	42	15	28	57	3.66	39	0.44	17	13	0.80	746	1	0.05	16	0.13	9	225	0.23	144	64
176	49500E-52050N	5	0.2	3.82	11	285	0.8	3	1.28	0.2	44	16	39	71	3.97	38	0.43	19	18	0.70	800	1	0.06	20	0.13	10	190	0.20	144	72
177	52100	15	0.4	3.15	14	420	0.7	2	1.85	0.2	43	13	34	77	3.34	38	0.36	19	16	0.73	750	1	0.05	20	0.06	11	242	0.20	123	62
178	52150	10	0.8	3.51	16	721	0.9	5	2.77	0.5	38	16	30	170	3.51	38	0.48	19	16	0.78	1136	1	0.05	22	0.17	11	286	0.18	121	83
179	52250 *	5	1.4	0.93	3	569	0.7	2	5.28	0.2	11	7	12	276	0.72	16	0.08	10	4	0.13	1578	1	0.02	14	0.24	5	356	0.03	23	54
180	49500E-52300N *	5	1.4	0.62	2	434	0.5	2	5.54	0.2	4	5	10	188	0.40	11	0.06	7	4	0.11	1258	1	0.02	12	0.20	3	307	0.02	17	51
181	49500N-52350E *	5	1.6	0.84	5	430	0.9	2	4.96	0.2	11	8	15	416	0.64	13	0.07	13	4	0.13	1920	1	0.02	17	0.22	4	271	0.03	22	42
182	52400 *	5	1.0	3.17	8	429	0.9	2	2.23	0.2	36	13	37	180	3.05	32	0.26	18	20	0.59	903	1	0.05	21	0.08	10	194	0.16	104	81
183	52450	25	1.4	4.70	18	598	1.1	2	1.58	0.2	42	17	37	208	4.24	37	0.54	23	21	0.78	854	2	0.07	34	0.12	12	173	0.17	134	82
184	52500	20	0.6	3.46	15	330	0.7	2	1.26	0.2	37	14	31	76	3.67	37	0.47	18	18	0.64	585	1	0.06	17	0.05	13	188	0.19	137	67
185	49500E-52550N	5	0.2	3.22	8	237	0.5	2	1.27	0.2	41	10	34	46	3.11	39	0.40	17	15	0.60	488	1	0.06	13	0.05	12	189	0.23	135	72
186	49500E-52600N	5	2.6	1.93	12	437	0.7	3	2.27	0.7	41	10	23	107	2.18	34	0.23	24	10	0.32	432	2	0.05	17	0.17	13	165	0.11	88	65
187	52650	30	0.4	2.59	10	262	0.5	2	1.37	0.2	42	7	28	36	2.42	37	0.41	16	7	0.30	324	1	0.06	10	0.05	12	202	0.19	112	50
188	52700	5	1.2	0.69	8	232	0.3	2	2.84	0.6	23	5	9	53	0.70	26	0.13	6	4	0.13	299	2	0.02	9	0.10	8	202	0.03	23	63
189	52750	10	2.2	3.45	13	534	0.9	4	2.24	0.7	42	14	31	177	3.25	36	0.45	21	14	0.46	840	2	0.04	25	0.19	13	185	0.13	109	77
190	49500E-52800N	340	2.2	4.76	58	687	1.2	12	1.27	2.4	69	36	31	1229	7.50	51	0.50	62	21	0.76	1708	7	0.04	33	0.21	20	147	0.10	163	118
191	49500E-52850N *	5	0.6	4.22	20	385	1.0	5	0.96	1.2	45	35	31	189	5.35	36	0.61	21	28	0.76	1874	6	0.04	24	0.16	15	131	0.13	162	164
192	52900	10	0.8	4.36	20	564	0.9	4	0.92	0.6	45	19	34	176	5.02	39	0.68	19	21	0.64	798	3	0.04	16	0.14	9	131	0.16	193	105
193	52950	5	0.4	3.53	9	289	0.7	2	1.30	0.2	37	14	31	84	4.38	40	0.45	16	16	0.66	464	1	0.04	15	0.09	8	188	0.22	174	70
194	53000	5	0.6	3.78	9	249	0.8	3	1.08	0.6	44	13	33	46	4.48	42	0.53	20	16	0.63	473	1	0.07	15	0.22	6	148	0.27	169	96
195	49500E-53050N	5	0.2	3.38	12	162	0.7	2	1.34	0.4	47	16	36	153	4.62	38	0.44	21	12	0.64	493	2	0.06	19	0.13	8	189	0.19	157	56
196	49500E-53100N	30	2.2	3.88	14	296	2.3	2	2.12	1.9	62	50	28	1183	4.37	41	0.23	136	15	0.39	2284	3	0.06	39	0.20	14	199	0.15	110	87
197	53150	20	0.2	3.21	8	219	0.5	2	1.09	0.2	42	9	42	55	3.51	38	0.40	19	10	0.52	424	1	0.07	15	0.07	7	187	0.21	147	60
198	53200 *	5	2.0	0.78	3	315	0.4	2	3.42	0.2	20	4	7	96	0.60	21	0.08	9	3	0.13	434	1	0.02	18	0.13	3	235	0.03	17	63
199	53250	5	0.8	5.19	5	637	0.9	3	1.56	0.4	37	25	33	151	4.64	42	0.49	16	29	0.81	1263	2	0.08	30	0.11	14	177	0.19	139	131
200	49500E-53350N *	5	0.2	0.15	2	100	0.2	2	3.20	0.3	16	2	2	39	0.11	20	0.05	2	2	0.06	135	1	0.03	12	0.07	3	219	0.01	10	62
201	49500E-53450N *	5	0.2	0.15	2	159	0.5	2	4.29	0.2	12	2	2	56	0.10	14	0.05	4	2	0.08	227	3	0.03	7	0.07	4	246	0.01	12	57
202	49500E-53500N *	5	0.2	0.07	2	80	0.3	2	2.08	0.2	23	1	1	13	0.05	18	0.03	2	1	0.06	12	1	0.03	3	0.04	3	143	0.01	6	65
203	50000E-50000N	5	0.2	3.41	2	196	0.8	2	1.46	0.2	31	15	50	144	3.57	31	0.38	15	18	1.13	709	1	0.06	27	0.13	6	164	0.26	139	81
204	50050	5	0.2	4.10	11	264	1.1	2	1.14	0.2	32	23	55	231	4.21	34	0.37	16	23	1.39	1409	2	0.05	37	0.18	10	130	0.25	149	107
205	50000E-50100N	15	0.2	3.85	8	207	0.9	2	1.41	0.2	36	20	42	167	4.03	33	0.38	14	22	1.51	823	1	0.08	34	0.14	7	146	0.26	145	90
206	50000E-50150N	10	0.2	3.43	9	206	0.9	2	1.29	0.2	31	20	49	184	3.69	30	0.35	16	19	1.23	955	1	0.05	32	0.14	8	138	0.20	127	88
207	50200	5	0.2	4.07	11	239	0.9	3	1.27	0.2	28	24	46	189	4.41	34	0.43	13	23	1.56	1283	1	0.05	38	0.16	8	132	0.24	152	100
208	50250	5	0.2	3.82	13	207	0.9	3	1.58	0.2	35	21	44	160	4.15	35	0.41	14	21	1.53	942	1	0.08	35	0.13	10	157	0.26	146	86
209	50300	5	0.2	4.06	10	224	0.8	3	1.68	0.2	35	23	50	161	4.40	36	0.45	14	22	1.69	1070	1	0.09	38	0.14	9	162	0.28	154	99
211	50000E-50350N	5	0.2	4.11	15	243	0.8	4	1.61	0.2	45	21	52	103	3.80	41	0.44	16	23	1.28	813	2	0.08	33	0.13	11	165	0.26	141	81
212	50000E-50400N	5	0.4	3.89	13	227	1.1	2	1.47	0.2	39	22	46	119	3.96	40	0.41	18	22	1.31	1236	1	0.07	33	0.12	8	145	0.25	132	84
213	50450	5	0.6	3.48	12	262	0.9	2	1.32	0.2	44	19	34	84	2.87	35	0.31	18	17	0.78	909	1	0.06	24	0.12	9	135	0.20	101	87
214	50500	5	0.6	5.21	13	367	1.0	6	1.08	0.2	30	29	42	141	4.90	38	0.54	15	25	1.22	1573	2	0.06	34	0.20	11	108	0.21	148	111
215	50550	5	0.6	4.92	15	318	0.9	6	1.15	0.2	30	38	42	132	5.55	40	0.51	14	25	1.22	3401	2	0.06	34	0.15	11	109	0.22	160	105
216	50000E-50600N	5	0.2	3.64	11	214	0.7	2	1.55	0.2	38	13	37	87	2.93	38	0.36	15	18	0.91	483	1	0.07	22	0.11	10	161	0.23	116	73

* -35 mesh

T.T. No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Th %	V ppm	Zn ppm
217	50000E-50650N	5	0.2	3.95	16	226	0.7	4	1.74	0.2	37	25	37	123	4.71	41	0.33	15	22	1.02	1676	2	0.08	25	0.12	9	160	0.26	162	
218	50700	5	0.2	3.41	12	238	0.7	2	1.76	0.2	39	14	38	130	2.76	38	0.35	15	18	0.76	742	1	0.06	21	0.11	8	162	0.22	137	78
219	50750	5	0.2	3.63	18	244	0.7	4	1.64	0.2	42	18	37	112	4.71	41	0.39	17	19	0.82	867	2	0.07	21	0.14	10	158	0.23	152	70
220	50800	5	0.2	2.37	7	143	0.5	2	1.38	0.2	36	7	43	42	2.30	35	0.24	14	10	0.49	325	1	0.04	14	0.08	8	175	0.18	99	37
221	50000E-50850N	5	0.4	3.28	12	277	0.7	2	1.34	0.2	41	14	56	77	3.03	33	0.31	16	15	0.62	796	2	0.05	23	0.14	8	170	0.19	112	69
222	50000E-50900N	5	0.4	3.01	7	213	0.7	2	1.33	0.2	38	9	58	61	3.03	33	0.34	16	14	0.64	485	1	0.05	17	0.10	8	184	0.21	104	56
223	50950	5	0.2	3.36	13	255	0.7	2	1.30	0.2	38	9	42	47	2.51	34	0.39	15	13	0.65	415	1	0.06	15	0.10	8	185	0.21	105	59
224	51000	5	0.2	2.92	10	199	0.5	2	1.51	0.2	42	8	48	38	2.32	34	0.33	17	12	0.57	371	1	0.05	13	0.10	8	199	0.21	99	46
225	51050	5	0.2	3.27	14	229	0.6	2	1.38	0.2	41	9	37	41	2.65	35	0.26	17	18	0.57	350	1	0.06	18	0.09	10	184	0.22	102	70
226	50000E-51100N	5	0.2	3.29	12	237	0.6	2	1.34	0.2	40	10	41	44	2.66	34	0.37	16	15	0.68	422	1	0.05	19	0.11	9	177	0.21	108	65
227	50000E-51150N	5	0.6	3.49	17	296	0.7	2	1.33	0.2	36	35	37	61	3.47	34	0.38	18	14	0.68	1548	1	0.05	20	0.17	12	163	0.20	135	78
228	51200	5	0.4	3.22	15	186	0.5	2	1.58	0.2	40	9	32	28	3.43	33	0.30	16	12	0.54	387	1	0.05	13	0.07	9	206	0.23	139	59
229	51250	5	0.2	3.13	11	253	0.6	2	1.40	0.2	41	12	36	45	2.54	35	0.29	17	13	0.62	577	1	0.06	16	0.08	10	185	0.21	105	61
230	51300	5	0.2	3.34	17	231	0.6	2	1.60	0.2	44	11	44	53	3.08	37	0.40	18	15	0.80	467	1	0.05	20	0.11	12	192	0.21	119	83
231	50000E-51350N	5	0.2	3.46	13	177	0.7	2	1.33	0.2	45	8	47	39	2.78	35	0.29	18	16	0.49	361	1	0.05	14	0.09	10	192	0.20	107	59
232	50000E-51400N	5	0.2	3.26	14	162	0.8	2	1.21	0.2	38	8	47	29	3.13	34	0.28	17	14	0.49	355	1	0.05	14	0.09	10	196	0.23	117	55
233	51450	5	0.2	3.75	11	268	0.7	2	1.30	0.2	35	13	40	60	3.56	36	0.37	16	17	0.65	682	1	0.04	19	0.07	10	189	0.22	133	75
234	51500	5	0.2	3.02	11	219	0.6	2	1.52	0.2	43	9	41	44	2.87	35	0.33	18	13	0.66	424	1	0.06	18	0.13	10	204	0.23	114	59
235	51550	90	0.2	3.39	9	229	0.4	2	1.48	0.2	34	8	43	21	2.06	37	0.39	13	11	0.44	320	1	0.05	10	0.04	11	198	0.24	110	56
236	50000E-51600N	5	0.2	3.46	11	284	0.5	2	1.48	0.2	34	9	29	45	2.52	36	0.39	15	13	0.59	441	1	0.05	16	0.09	11	196	0.23	111	65
237	50000E-51650N	5	0.2	2.89	9	216	0.6	2	1.46	0.2	41	9	40	45	2.79	35	0.35	17	11	0.63	430	1	0.05	18	0.11	10	193	0.22	116	53
238	51700	5	0.2	2.76	10	169	0.5	2	1.50	0.2	39	8	46	25	2.60	36	0.31	16	11	0.60	409	1	0.04	14	0.09	10	206	0.24	114	47
239	51750	5	0.2	3.16	19	298	0.7	2	1.59	0.2	47	14	33	58	3.72	36	0.49	21	14	0.71	843	1	0.06	20	0.14	13	195	0.19	143	73
240	51800	5	0.2	4.25	21	536	1.0	5	1.52	0.3	45	18	36	127	4.27	39	0.40	23	22	0.83	1139	2	0.06	33	0.10	17	178	0.20	132	86
241	50000E-51850N	5	0.4	2.80	11	399	0.6	2	1.82	0.2	35	13	32	82	2.77	34	0.35	17	14	0.64	751	2	0.04	21	0.10	10	191	0.16	100	59
242	50000E-51900N	5	0.2	3.41	10	489	0.9	3	1.89	0.2	35	14	39	78	3.38	35	0.36	15	19	0.78	698	1	0.04	22	0.08	11	205	0.20	117	78
243	51950	5	0.4	4.03	12	554	0.9	2	1.69	0.2	38	16	35	161	3.90	36	0.48	18	20	0.79	1074	1	0.05	27	0.12	10	194	0.19	129	82
244	52000	5	0.2	2.26	11	572	0.6	2	2.52	0.2	32	11	28	66	2.63	32	0.26	14	11	0.43	885	1	0.04	13	0.11	8	238	0.17	95	51
245	52050	5	0.2	2.46	6	643	0.8	2	2.51	0.2	34	11	30	75	2.82	33	0.28	16	12	0.50	840	1	0.04	15	0.14	7	229	0.16	102	62
246	50000E-52100N	5	0.2	2.97	15	365	0.6	3	2.02	0.2	41	14	46	50	3.60	38	0.38	17	13	0.88	716	1	0.05	17	0.14	21	222	0.23	128	72
247	50000E-52150N	5	0.2	2.06	7	616	0.6	2	3.08	0.2	28	9	23	64	2.12	28	0.41	13	8	0.46	704	1	0.03	12	0.11	6	227	0.13	78	74
248	52200	5	0.4	3.02	15	538	0.8	4	1.73	0.2	48	14	44	79	3.65	37	0.62	21	12	0.66	1355	2	0.04	18	0.13	10	195	0.19	130	68
249	52250	5	0.6	2.17	9	612	0.7	3	3.16	0.4	30	12	32	216	2.47	31	0.29	15	9	0.47	1193	1	0.04	22	0.18	9	294	0.14	87	70
250	52300	5	1.0	4.51	15	682	1.2	6	1.76	0.2	48	18	45	190	4.03	39	0.53	22	21	0.83	1383	1	0.05	31	0.10	13	186	0.17	135	115
251	50000E-52350N	5	0.2	3.41	12	297	0.6	2	1.23	0.4	36	14	37	44	3.80	40	0.43	17	21	0.65	519	2	0.04	16	0.15	9	190	0.21	137	99
252	50000E-52400N	5	0.4	3.14	10	321	0.7	2	1.29	0.2	39	12	36	44	3.41	38	0.47	17	14	0.54	629	1	0.04	13	0.09	10	194	0.21	131	77
253	52450	5	0.2	3.42	5	408	0.6	2	1.00	0.2	39	8	28	21	3.09	34	0.79	18	11	0.35	386	1	0.03	8	0.09	8	163	0.18	127	69
254	52500	5	0.4	4.03	8	517	0.8	2	0.70	0.2	39	10	24	40	3.49	33	0.75	18	25	0.62	399	1	0.04	15	0.19	11	100	0.16	110	94
255	52550	5	0.4	3.03	6	312	0.5	2	1.06	0.2	37	8	28	19	2.95	35	0.38	16	14	0.38	392	1	0.04	9	0.08	9	167	0.20	119	81
256	50000E-52600N	5	0.6	2.92	8	399	0.5	2	1.10	0.2	45	7	36	26	2.37	38	0.34	19	13	0.29	689	1	0.04	6	0.04	12	211	0.25	114	95
257	50000E-52650N	5	0.2	5.05	9	956	0.9	3	0.91	0.2	49	12	22	559	3.55	36	0.80	26	22	0.80	585	1	0.04	13	0.07	14	124	0.17	126	98
258	52700	5	0.2	7.10	6	1859	1.0	2	0.51	0.2	22	11	4	49	3.20	30	2.49	11	9	0.42	1581	1	0.04	7	0.11	86	42	0.10	151	139
259	52750	5	0.2	4.00	16	493	0.6	2	0.93	0.2	31	14	20	55	3.50	34	0.60	13	18	0.40	1024	1	0.04	8	0.08	11	184	0.17	148	106
261	50000E-52800N	50	0.4	4.71	3	747	0.8	2	0.78	0.2	35	18	18	296	3.03	34	1.09	17	21	0.53	1438	1	0.04	10	0.15	12	122	0.14	123	110

T.T. No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm		Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn	9007-033 Pg. 7 of 7
262	50000E-52850N	5	0.2	4.20	7	424	0.7	2	0.69	0.2	32	6	32	32	2.80	31	0.85	15	16	0.23	287	1	0.03	8	0.09	5	136	0.14	131		
263	50000E-52950N	5	[illegible]	4.05	6	721	0.7	2	0.78	0.2	35	10	19	[illegible]	3.14	33	0.83	16	11	0.37	1050	1	0.04	8	0.13	13	139	0.15	124	95	
264	53000	5	[illegible]	4.09	9	427	0.6	2	0.71	0.2	32	8	26	37	3.08	34	0.72	14	12	0.40	406	1	0.04	8	0.11	9	124	0.17	136	77	
265	53050	5	[illegible]	3.83	4	412	0.7	2	0.96	0.2	34	11	30	57	4.26	41	0.58	14	24	0.64	494	1	0.04	14	0.10	9	148	0.23	154	82	
266	53100 *	5	[illegible]	4.73	4	1583	3.3	3	1.80	0.6	119	18	20	[illegible]	2.94	38	0.23	114	52	0.28	5300	1	0.04	17	0.13	19	88	0.11	69	139	
267	50000E-53150N *	5	[illegible]	3.26	7	1710	0.8	2	1.49	0.2	42	11	5	[illegible]	1.96	34	0.65	29	10	0.31	4033	1	0.03	7	0.10	7	90	0.10	53	101	
268	50000E-53200N *	5	[illegible]	4.76	16	706	0.8	2	0.39	0.2	25	18	4	38	4.06	29	0.73	12	29	0.26	1416	1	0.02	7	0.11	12	25	0.07	119	176	
269	53250	5	0.2	5.96	15	479	0.8	2	0.42	0.2	25	9	4	[illegible]	3.98	33	1.37	12	10	0.30	371	1	0.02	6	0.06	9	69	0.13	147	85	
270	53300	5	0.2	3.08	12	186	0.4	2	1.25	0.2	37	5	24	20	2.52	41	0.40	14	5	0.24	269	1	0.03	6	0.05	8	168	0.23	129	36	
271	53350	5	[illegible]	3.56	8	420	1.0	2	0.86	0.2	46	17	36	[illegible]	3.20	34	0.32	23	16	0.40	1508	2	0.04	13	0.09	11	135	0.17	116	84	
272	50000E-53400N	5	[illegible]	2.83	8	257	0.7	2	1.38	0.2	32	8	31	30	2.96	37	0.35	15	10	0.47	386	1	0.04	10	0.11	5	208	0.21	118	56	
273	50000E-53450N	5	[illegible]	3.37	9	476	0.7	2	1.28	0.2	38	12	36	68	3.24	38	0.50	18	12	0.56	958	1	0.05	14	0.10	6	195	0.21	124	72	
274	50000E-53500N	5	[illegible]	3.72	10	473	0.8	2	1.24	0.2	35	12	32	69	3.43	39	0.49	18	17	0.62	777	1	0.04	15	0.09	7	185	0.22	130	81	
275	SILT 108676	5	0.2	4.54	14	1156	0.9	2	1.04	0.2	34	15	11	51	3.30	31	0.98	16	17	0.96	1230	1	0.06	12	0.09	8	156	0.10	97	81	
276	SILT 33252	10	[illegible]	3.85	9	116	1.1	6	3.07	0.2	29	21	11	[illegible]	4.28	47	0.33	16	23	1.37	1300	1	0.05	15	0.20	9	448	0.29	212	118	
277	49500E-50300N	5	0.2	5.58	9	190	0.6	9	4.64	0.2	8	26	11	[illegible]	4.37	42	0.58	7	19	1.92	702	1	0.24	24	0.09	2	305	0.37	137	51	

* -35 mesh (either high organic fraction or little -80 mesh fraction or both.)

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No.: WITCH NORTH - 266 Geol.: T.W. Date rec'd: SEP. 12 LAB CODE: 9009-034

Material: 49 SOILS Sheet: 1 of 2 Date compl: OCT. 04

Remarks: • Sample screened @ -35 MESH (0.5 mm).

¤ Organic

Au - 10.0 g sample digested with aqua-regia and determined by A.A. (D.L. 5 PPB)

Copy to Terry

ICP - 0.2 g sample digested with 3 ml HClO4/HNO3 (4:1) at 203 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, Ga, La, Li are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
81	49250E-52000N		30	0.2	2.69	7	306	0.6	2	2.17	0.4	49	13	39	53	3.57	0.33	17	14	0.88	3366	2	0.04	15	0.14	8	225	0.22	144	61
82	52100		15	0.2	3.21	7	320	0.7	2	1.56	0.2	51	12	35	66	3.80	0.50	20	18	0.77	682	1	0.05	17	0.13	9	188	0.19	147	79
83	52150		30	0.4	3.38	2	241	0.8	2	1.17	0.2	44	13	35	114	4.18	0.45	16	15	0.66	463	1	0.04	19	0.09	16	163	0.18	138	76
84	52200		15	0.2	2.79	3	186	0.5	2	1.53	0.2	44	8	42	23	2.58	0.31	16	14	0.66	385	1	0.05	10	0.05	10	211	0.22	111	64
85	49250E-52250N		470	0.2	3.19	9	192	0.5	2	1.74	0.2	44	11	32	39	3.41	0.36	15	17	0.88	507	1	0.04	13	0.07	11	220	0.22	141	63
86	49250E-52300N		10	0.2	2.62	4	150	0.4	2	1.56	0.2	44	8	33	20	2.67	0.28	15	11	0.66	370	1	0.04	11	0.08	9	206	0.23	119	52
87	52350		5	0.2	2.55	8	153	0.5	2	1.44	0.2	40	7	35	25	2.87	0.28	13	12	0.53	345	1	0.04	10	0.07	11	200	0.20	127	52
88	52400		10	0.4	2.84	5	280	0.5	2	1.59	0.2	47	11	39	55	3.01	0.31	17	12	0.68	627	1	0.04	11	0.05	9	201	0.24	132	61
89	52450		5	0.4	3.04	11	273	0.6	2	1.65	0.3	45	12	35	95	3.37	0.32	16	16	0.62	530	1	0.04	14	0.08	9	209	0.21	136	64
90	49250E-52500N		10	0.2	3.13	3	290	0.6	2	1.42	0.2	46	12	37	100	3.11	0.33	17	18	0.76	460	1	0.04	15	0.07	11	185	0.18	118	58
91	49250E-52550N		20	0.8	3.66	9	458	0.7	2	1.45	0.2	45	14	30	128	3.82	0.52	17	20	0.84	944	1	0.05	20	0.08	16	174	0.18	134	61
92	52600	¤	10	0.2	2.90	6	382	0.5	2	2.19	0.6	40	17	23	48	3.26	0.31	14	16	0.78	946	1	0.04	10	0.08	9	250	0.22	131	77
93	52650		30	1.0	3.15	8	362	0.6	2	1.87	0.2	49	11	28	102	3.64	0.34	18	18	0.64	439	1	0.05	14	0.08	8	220	0.21	140	79
94	52700		25	1.0	4.13	6	504	0.7	2	1.93	0.4	56	16	21	120	3.69	0.46	25	21	0.66	1080	1	0.05	14	0.09	10	202	0.21	125	140
95	49250E-52750N		10	0.2	4.44	13	237	0.6	2	0.88	0.2	46	12	25	45	5.08	0.61	19	22	0.59	372	1	0.05	12	0.20	8	130	0.22	176	137
96	49250E-52800N		40	0.8	3.81	14	422	0.8	2	1.21	0.2	52	15	39	177	4.91	0.59	22	19	0.69	449	1	0.04	16	0.11	7	186	0.19	162	69
97	52850		20	0.2	3.23	10	159	0.6	2	1.23	0.3	43	10	31	42	4.46	0.38	16	19	0.52	399	1	0.04	11	0.15	10	197	0.19	147	75
98	52900		30	0.2	3.08	6	303	0.6	2	1.29	0.2	49	11	35	91	4.10	0.33	21	15	0.46	506	1	0.04	10	0.07	11	201	0.19	149	63
99	52950		35	0.2	3.30	15	185	0.6	2	1.16	0.2	47	16	41	66	4.27	0.50	18	14	0.62	470	1	0.04	17	0.11	8	179	0.18	151	63
101	49250E-53000N		60	0.2	2.99	14	310	0.9	2	1.65	0.6	55	14	34	106	3.94	0.58	24	14	0.64	672	1	0.04	18	0.16	13	219	0.17	146	56
102	49250E-53050N	¤	20	1.2	2.73	13	389	0.9	2	1.78	1.0	54	15	29	158	3.30	0.23	26	11	0.50	1002	1	0.04	18	0.19	10	314	0.18	104	67
103	53100	¤	10	1.4	2.60	10	335	0.8	2	2.10	1.2	52	17	29	382	3.28	0.30	24	13	0.54	1141	1	0.04	26	0.19	11	286	0.17	107	71
104	53150		50	1.0	2.94	8	272	0.7	2	1.90	0.5	53	13	25	182	3.58	0.36	24	13	0.79	643	1	0.05	18	0.14	11	260	0.21	128	57
105	49250E-53200N	¤	60	1.2	3.87	9	469	0.9	2	1.75	0.6	62	24	27	244	3.96	0.41	31	20	0.75	3174	2	0.05	31	0.23	12	265	0.18	120	88
106	49750E-52000N	¤	5	0.4	2.74	10	571	0.7	2	2.53	0.8	44	12	24	108	3.01	0.34	18	15	0.71	680	1	0.05	18	0.12	10	242	0.17	105	80
107	49750E-52050N		10	0.2	3.24	12	313	0.6	2	1.89	0.5	50	14	28	86	3.84	0.41	17	19	1.01	618	1	0.05	18	0.08	12	220	0.22	144	69
108	52100	¤	10	0.6	4.77	14	633	1.1	2	1.65	0.9	50	19	35	221	4.87	0.81	21	24	1.14	1121	1	0.06	35	0.11	16	175	0.17	142	113
109	52150		10	0.2	3.96	12	547	0.7	2	1.81	0.6	47	17	36	75	4.31	0.49	17	32	1.20	668	1	0.06	22	0.07	12	193	0.23	148	101
110	52200		5	0.2	4.28	17	675	1.0	2	1.79	1.0	51	18	40	166	4.22	0.64	20	24	1.11	1081	1	0.06	30	0.11	10	185	0.18	133	124
111	49750E-52250N		5	0.4	3.56	12	643	0.9	2	1.90	0.8	46	16	37	142	3.89	0.49	17	23	0.86	915	1	0.05	29	0.09	9	203	0.17	122	94
112	49750E-52300N	•¤	5	0.6	0.84	10	759	0.4	2	4.91	1.6	17	6	11	144	0.77	0.09	7	5	0.20	790	1	0.02	13	0.17	7	380	0.04	28	60
113	52350		10	0.2	3.69	17	656	0.8	2	1.93	0.6	46	14	26	108	4.28	0.58	18	20	0.79	1670	1	0.05	20	0.13	5	221	0.16	130	73
114	52400		10	0.6	3.60	17	878	0.8	2	2.31	0.7	47	15	28	125	3.92	0.47	18	23	0.73	2035	1	0.05	25	0.14	7	241	0.16	119	79
115	52450		10	0.2	2.83	10	522	0.6	2	2.26	0.5	47	12	28	82	3.08	0.44	17	18	0.70	559	1	0.05	14	0.11	7	246	0.19	109	81
116	49750E-52500N		5	0.2	3.35	8	377	0.7	2	1.55	0.5	48	14	30	44	3.81	0.28	17	16	0.61	496	1	0.05	14	0.06	6	207	0.22	138	110

T.T. No.	Sample No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	[illegible] ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zr ppm
117	49750E-52550N	5	0.2	3.99	7	567	0.7	2	0.86	1.3	58	14	25	55	3.95	0.61	25	23	0.54	774	1	0.04	13	0.06	8	96	0.16	140	226
118	52600	10	0.2	3.94	9	399	0.7	2	0.79	0.2	46	11	29	97	4.58	0.68	19	17	0.53	623	2	0.04	11	0.08	6	115	0.17	162	90
119	52650	5	0.4	2.83	4	219	0.5	2	1.00	0.2	42	6	34	18	2.92	0.46	17	7	0.35	398	1	0.04	7	0.09	5	151	0.18	116	51
120	52700	5	0.2	3.35	10	309	0.5	2	0.94	0.3	38	7	23	20	3.01	0.71	14	9	0.38	635	1	0.04	7	0.09	4	130	0.16	113	63
121	49750E-52750N	5	0.2	3.67	2	225	0.5	2	0.58	0.2	30	8	21	61	3.85	0.41	11	19	0.40	466	1	0.02	8	0.06	7	76	0.11	136	82
122	49750E-52800N	5	0.2	3.20	7	227	0.5	2	1.03	0.2	43	9	26	46	3.72	0.33	15	14	0.46	514	1	0.04	10	0.08	8	162	0.19	139	62
123	52850	5	0.2	6.25	9	471	1.2	2	0.60	0.2	32	10	17	140	4.20	1.42	11	21	0.44	337	1	0.04	13	0.08	8	108	0.13	137	53
124	52900	5	0.2	3.25	2	227	0.5	2	1.03	0.2	39	6	27	22	3.49	0.45	14	11	0.38	346	1	0.04	8	0.07	9	154	0.21	145	56
125	52950	15	0.2	3.53	8	218	0.5	2	1.50	0.2	39	8	25	23	3.68	0.47	13	14	0.50	417	1	0.04	11	0.06	6	173	0.20	147	61
126	49750E-53000N	5	0.2	3.43	8	190	0.6	2	1.35	0.2	43	12	40	44	4.45	0.39	15	18	0.71	568	1	0.04	14	0.11	38	189	0.22	152	65
127	49750E-53050N	5	0.2	2.94	6	157	0.4	2	1.29	0.2	45	4	24	13	2.72	0.29	16	5	0.21	290	1	0.04	5	0.03	20	194	0.24	134	46
128	53100	5	0.6	3.92	17	271	0.8	2	1.20	0.7	59	19	32	285	4.51	0.46	22	46	0.63	982	1	0.04	20	0.05	36	150	0.20	137	107
129	53150	20	2.0	4.14	18	527	1.3	2	1.80	2.0	88	30	32	288	4.89	0.37	54	43	0.68	3404	1	0.04	24	0.15	22	205	0.16	122	132
130	49750E-53200N	5	1.2	3.79	12	396	1.0	2	1.58	0.3	59	14	34	135	3.86	0.33	39	16	0.68	1321	1	0.05	19	0.07	12	196	0.21	129	69

ACME A TICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX( )253-1716

GEOCHEMCIAL/ASSAY CERTIFICATE Witch North (TW)

Noranda Exploration Co. Ltd. PROJECT 9009-034 286 File # 90-4364

P.O. Box 2380, 1050 Davie, Vancouver BC V6B 3T5

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag oz/t	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au oz/t	Au* ppb
46499	.001	.33	30.18	.14	207.58	.01	.01	.01	4.12	1.60	.01	.01	.01	.79	.01	.305	10470
125769	.001	.02	.13	.01	.78	.01	.01	.04	5.92	.01	.01	.01	.01	.01	.01	.001	75

- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 12 1990 DATE REPORT MAILED: Sept 18/90 SIGNED BY..D. Toye.D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA VANCOUV LABORATORY

Geochemical Analysis

Project Name & No.: [illegible] 2nd Geol.: T.W. Date rec'd: SEP. 12 LAB CODE: 9009-034

Material: 49 SOILS Sheet: 1 of 2 Date compl: OCT. 04

Remarks: * Sample screened @ –35 MESH (0.5 mm).

¤ Organic

Au – 10.0 g sample digested with aqua-regia and determined by A.A. (D.L. 5 PPB)

ICP – 0.2 g sample digested with 3 ml HClO4/HNO3 (4:1) at 203 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, Ga, La, Li are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
81	49250E-52000N		30	0.2	2.69	7	305	0.6	2	2.17	0.4	49	13	39	53	3.57	0.33	17	14	0.88	3366	2	0.04	15	0.14	8	225	0.22	144	51
82	52100		15	0.2	3.21	7	320	0.7	2	1.56	0.2	51	12	35	66	3.80	0.50	20	16	0.77	682	1	0.05	17	0.13	9	188	0.19	147	79
83	52150		30	0.4	3.38	2	241	0.8	2	1.17	0.2	44	13	35	114	4.18	0.45	16	15	0.66	453	1	0.04	19	0.09	16	163	0.18	138	76
84	52200		15	0.2	2.79	3	165	0.5	2	1.53	0.2	44	8	42	23	2.58	0.31	16	14	0.66	385	1	0.05	10	0.05	10	211	0.22	111	64
85	49250E-52250N		470	0.2	3.19	9	192	0.5	2	1.74	0.2	44	11	32	39	3.41	0.36	15	17	0.88	607	1	0.04	13	0.07	11	220	0.22	141	63
86	49250E-52300N		10	0.2	2.62	4	150	0.4	2	1.56	0.2	44	8	33	20	2.67	0.28	15	11	0.66	370	1	0.04	11	0.06	9	206	0.23	119	52
87	52350		5	0.2	2.55	8	153	0.5	2	1.44	0.2	40	7	35	25	2.87	0.28	13	12	0.53	345	1	0.04	10	0.07	11	200	0.20	127	52
88	52400		10	0.4	2.84	5	280	0.5	2	1.59	0.2	47	11	39	55	3.01	0.31	17	12	0.68	627	1	0.04	11	0.05	9	201	0.24	132	61
89	52450		5	0.4	3.04	11	273	0.6	2	1.65	0.3	45	12	35	95	3.37	0.32	16	16	0.82	530	1	0.04	14	0.08	9	209	0.21	136	64
90	49250E-52500N		10	0.2	3.13	3	290	0.6	2	1.42	0.2	46	12	37	100	3.11	0.33	17	18	0.76	460	1	0.04	15	0.07	11	185	0.18	118	58
91	49250E-52550N		20	0.8	3.66	9	458	0.7	2	1.45	0.2	45	14	30	128	3.82	0.52	17	20	0.84	944	1	0.05	20	0.08	16	174	0.18	134	61
92	52600	¤	10	0.2	2.90	6	382	0.5	2	2.19	0.8	40	17	23	48	3.28	0.31	14	16	0.78	946	1	0.04	10	0.08	9	250	0.22	131	77
93	52650		30	1.0	3.15	8	362	0.6	2	1.87	0.2	49	11	28	102	3.64	0.34	18	18	0.64	439	1	0.05	14	0.08	8	220	0.21	140	79
94	52700		25	1.0	4.13	6	504	0.7	2	1.93	0.4	56	16	21	120	3.69	0.46	25	21	0.66	1080	1	0.05	14	0.09	10	202	0.21	125	140
95	49250E-52750N		10	0.2	4.44	13	237	0.6	2	0.88	0.2	46	12	25	45	5.08	0.61	19	22	0.59	372	1	0.05	12	0.20	8	130	0.22	176	137
96	49250E-52800N		40	0.8	3.81	14	422	0.8	2	1.21	0.2	52	15	39	177	4.91	0.59	22	19	0.69	449	1	0.04	16	0.11	7	186	0.19	162	69
97	52850		20	0.2	3.23	10	159	0.6	2	1.23	0.3	43	10	31	42	4.46	0.38	16	19	0.52	399	1	0.04	11	0.15	10	197	0.19	147	76
98	52900		30	0.2	3.08	8	303	0.6	2	1.29	0.2	49	11	35	91	4.10	0.33	21	15	0.46	506	1	0.04	10	0.07	11	201	0.19	149	53
99	52950		35	0.2	3.30	15	185	0.6	2	1.18	0.2	47	16	41	66	4.27	0.50	18	14	0.62	470	1	0.04	17	0.11	8	179	0.18	151	63
101	49250E-53000N		60	0.2	2.99	14	310	0.9	2	1.65	0.6	55	14	34	106	3.94	0.58	24	14	0.64	672	1	0.04	18	0.16	13	219	0.17	146	56
102	49250E-53050N	¤	20	1.2	2.73	13	389	0.9	2	1.78	1.0	54	15	29	158	3.30	0.23	26	11	0.50	1002	1	0.04	18	0.19	10	314	0.18	104	67
103	53100	¤	10	1.4	2.60	10	335	0.8	2	2.10	1.2	52	17	29	382	3.28	0.30	24	13	0.54	1141	1	0.04	26	0.19	11	286	0.17	107	71
104	53150		50	1.0	2.94	8	272	0.7	2	1.90	0.5	53	13	25	182	3.58	0.36	24	13	0.79	643	1	0.05	18	0.14	11	260	0.21	128	57
105	49250E-53200N	¤	60	1.2	3.87	9	489	0.9	2	1.75	0.6	62	24	27	244	3.96	0.41	31	20	0.75	3174	2	0.05	31	0.23	12	265	0.18	120	68
106	49750E-52000N	¤	5	0.4	2.74	10	571	0.7	2	2.53	0.6	44	12	24	108	3.01	0.34	18	15	0.71	680	1	0.05	18	0.12	10	242	0.17	105	60
107	49750E-52050N		10	0.2	3.24	12	313	0.6	2	1.89	0.5	50	14	28	86	3.84	0.41	17	19	1.01	618	1	0.05	18	0.08	12	220	0.22	144	69
108	52100	¤	10	0.6	4.77	14	633	1.1	2	1.65	0.9	50	19	35	221	4.67	0.61	21	24	1.14	1121	1	0.06	35	0.11	16	175	0.17	142	113
109	52150		10	0.2	3.96	12	547	0.7	2	1.81	0.6	47	17	36	75	4.31	0.49	17	32	1.20	668	1	0.06	22	0.07	12	193	0.23	148	101
110	52200		5	0.2	4.28	17	675	1.0	2	1.79	1.0	51	18	40	166	4.22	0.64	20	24	1.11	1081	1	0.06	30	0.11	10	185	0.18	133	124
111	49750E-52250N		5	0.4	3.56	12	643	0.9	2	1.90	0.8	46	16	37	142	3.89	0.49	17	23	0.86	915	1	0.05	29	0.09	9	203	0.17	122	94
112	49750E-52300N	*¤	5	0.6	0.84	10	759	0.4	2	4.91	1.6	17	6	11	144	0.77	0.09	7	5	0.20	790	1	0.02	13	0.17	7	380	0.04	28	60
113	52350		10	0.2	3.69	17	656	0.8	2	1.93	0.6	46	14	26	108	4.28	0.58	16	20	0.79	1670	1	0.05	20	0.13	5	221	0.18	130	73
114	52400		10	0.6	3.80	17	878	0.8	2	2.31	0.7	47	15	28	125	3.92	0.47	18	23	0.73	2035	1	0.05	25	0.14	7	241	0.16	119	79
115	52450		10	0.2	2.83	10	522	0.6	2	2.26	0.5	47	12	28	62	3.08	0.44	17	18	0.70	559	1	0.05	14	0.11	7	246	0.19	109	81
116	49750E-52500N		5	0.2	3.35	8	377	0.7	2	1.55	0.5	48	14	30	44	3.81	0.28	17	16	0.61	496	1	0.05	14	0.06	6	207	0.22	138	110

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm	9009-034 Pg. 2 of 2
117	49750E-52550N	5	0.2	3.99	7	367	0.7	2	0.86	1.3	58	14	25	56	3.95	0.61	25	23	0.54	774	1	0.04	13	0.06	8	96	0.16	140	2[illegible]	
118	52600	10	0.2	3.94	9	399	0.7	2	0.79	0.2	46	11	29	97	4.58	0.66	19	17	0.53	623	2	0.04	11	0.08	6	115	0.17	162	90	
119	52650	5	0.4	2.83	4	218	0.5	2	1.00	0.2	42	6	84	19	2.92	0.46	17	7	0.35	398	1	0.04	7	0.09	5	151	0.18	116	61	
120	52700	5	0.2	3.35	10	309	0.5	2	0.94	0.3	38	7	23	20	3.01	0.71	14	9	0.38	635	1	0.04	7	0.09	4	130	0.16	113	63	
121	49750E-52750N	6	0.2	3.67	2	225	0.5	2	0.58	0.2	30	8	21	61	3.85	0.41	11	19	0.40	466	1	0.02	8	0.06	7	76	0.11	136	82	
122	49750E-52800N	5	0.2	3.20	7	227	0.5	2	1.03	0.2	43	9	26	46	3.72	0.33	15	14	0.46	514	1	0.04	10	0.08	8	162	0.19	139	62	
123	52850	5	0.2	6.25	9	471	1.2	2	0.60	0.2	32	10	17	140	4.20	1.42	11	21	0.44	337	1	0.04	13	0.08	8	106	0.13	137	53	
124	52900	5	0.2	3.25	2	227	0.5	2	1.03	0.2	39	6	27	22	3.49	0.45	14	11	0.38	346	1	0.04	8	0.07	9	154	0.21	145	56	
125	52950	15	0.2	3.53	8	218	0.5	2	1.50	0.2	39	8	25	23	3.68	0.47	13	14	0.50	417	1	0.04	11	0.06	6	173	0.20	147	61	
126	49750E-53000N	5	0.2	3.43	8	190	0.6	2	1.35	0.2	43	12	40	44	4.45	0.39	15	18	0.71	568	1	0.04	14	0.11	38	189	0.22	152	65	
127	49750E-53050N	5	0.2	2.94	6	157	0.4	2	1.29	0.2	45	4	24	13	2.72	0.29	16	5	0.21	290	1	0.04	5	0.03	20	194	0.24	134	46	
128	53100	5	0.6	3.92	17	271	0.8	2	1.20	0.7	59	19	32	285	4.51	0.46	22	49	0.63	982	1	0.04	20	0.05	36	150	0.20	137	107	
129	53150	20	2.0	4.14	18	527	1.3	2	1.80	2.0	88	30	32	288	4.89	0.37	54	43	0.68	3404	1	0.04	24	0.15	22	205	0.16	122	132	
130	49750E-53200N	5	1.2	3.79	12	396	1.0	2	1.58	0.3	59	14	34	135	3.86	0.33	39	16	0.68	1321	1	0.05	19	0.07	12	196	0.21	129	68	

APPENDIX IV

ANALYTICAL PROCEDURE

ANALYTICAL PROCEDURE

Soils, Silts, Rocks

The samples are dried and screened to -80 mesh. Rock samples are pulverized to -120 mesh. A 0.2 gram sample is digested with 3 ml of $HClO_4/HNO_3$ (4 to 1 ratio) at 203° C for four hours, and diluted to 11 ml with water. A Leeman PS 3000 is used to determine elemental contents by I.C.P. Note that the major oxide elements and Ba, Be, Ce, Ga, La and Li are rarely dissolved completely from geological materials with this acid dissolution method.

For Au analyses, a 10.0 gram sample of -80 mesh material is digested with aqua regia and determination made by A.A.

Heavy Mineral Concentrates

The entire concentrate is digested in aqua regia solution, and elemental concentrations of Au, Ag, Cu, Pb, and Zn are determined by A.A.