

KANGELD RESOURCES LTD.

GEOCHEMICAL ASSESSMENT REPORT ON THE TOP HAT PROPERTY

TOP HAT #1-#4 MINERAL CLAIMS

KAMLOOPS MINING DIVISION, B.C.

NTS 92 I/12E

PART 2 OF 2

BY

R.A. GONZALEZ, M.Sc., F.G.A.C.,

OCTOBER, 1987

FILMED

CLAIMS WORKED

Claim Name	Units	Record No.	Anniversary Date
TOP HAT #1	20	4704	AUGUST 24
TOP HAT #2	20	4705	AUGUST 24
TOP HAT #3	15	4706	AUGUST 24
TOP HAT #4	15	4707	AUGUST 24

LOCATION: 50°38' N, 121° 42' W
 OWNERS: KANGELD RESOURCES LTD.
 OPERATOR: MARK MANAGEMENT LTD.
 CONSULTANT: ARCHEAN ENGINEERING LTD.
 PROJECT GEOLOGIST: R. GONZALEZ AND K. AKHURST

16,352

GEOLOGICAL BRANCH
ASSESSMENT REPORT
Part 2 of 2



**GEOCHEMICAL ASSESSMENT REPORT ON THE TOP HAT PROPERTY
TOP HAT #1-#4 MINERAL CLAIMS
KAMLOOPS MINING DIVISION, B.C.
NTS 92 I/12E**

SUMMARY

The **Top Hat #1-#4 Mineral Claims** are a polymetallic prospect located approximately 20 km (12 miles) east of the town of Lillooet, B.C. Previous work, including geological mapping and geochemical sampling has outlined an area anomalous with respect to Ag, As, Au, Cu, Hg, Mo, Sb, Pb, and Zn. A small programme consisting of confirmation and fill-in geochemical sampling was carried out over the northern portion of the property.

Results of the geochemical sampling have confirmed and better defined an extensive area anomalous in polymetallic mineralization.

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**GEOCHEMICAL AND GEOPHYSICAL REPORT
ON THE GDC, YAM, AND MAY MINERAL CLAIMS
ATLIN MINING DIVISION
NTS 104 N/11W**

1.0 INTRODUCTION

This report is based on 16 man-days of field work done between June 27 and July 24, 1987. The work programme was undertaken with the objective of carrying out a geochemical surveys along grid lines in order to evaluate the mineral potential of the claims and provide a basis for follow-up work if warranted. An area 900 m by 1000 m was selected for detailed soil sampling and approximately 8 line km of grid lines were chain and flagged. The survey was conducted along parallel lines spaced at 50 m with sampling sites at 25 m intervals along the lines. Soil sampling of selected areas was designed to see if a defined geochemical signature existed over an area previously sampled but at a much wider spacing. Geologists in the field were Kent Akhurst of North Vancouver, B.C. and Don Weir of Edmonton, Alberta.

The results of this survey gave sufficiently encouraging results to warrant additional systematic exploration.

1.1 LOCATION AND ACCESS

The property is a polymetallic prospect located approximately 20 km (12 miles) east of Lillooet (Figure 1). The claims cover most of Blustry Mountain and the south slopes of Cairn Peak near the headwaters of Cinquefoil and Pocock Creeks (Figure 2). The Hat Creek Valley lies east, and Fountain Valley is west of the claims. Access to the property can be made by walking along a good horse and cattle trail in Cinquefoil Creek from a ranch in Fountain Valley, but is best made by helicopter to open alpine slopes along the ridge tops. A helicopter is usually available for casual charter at Lillooet.

All claims are located on N.T.S. Quadrangle 92I/12E. Terrestrial coordinates for the centre of the area are as follows:

50° 38' North Latitude
121° 42' West Longitude

KANGELD RESOURCES LTD.

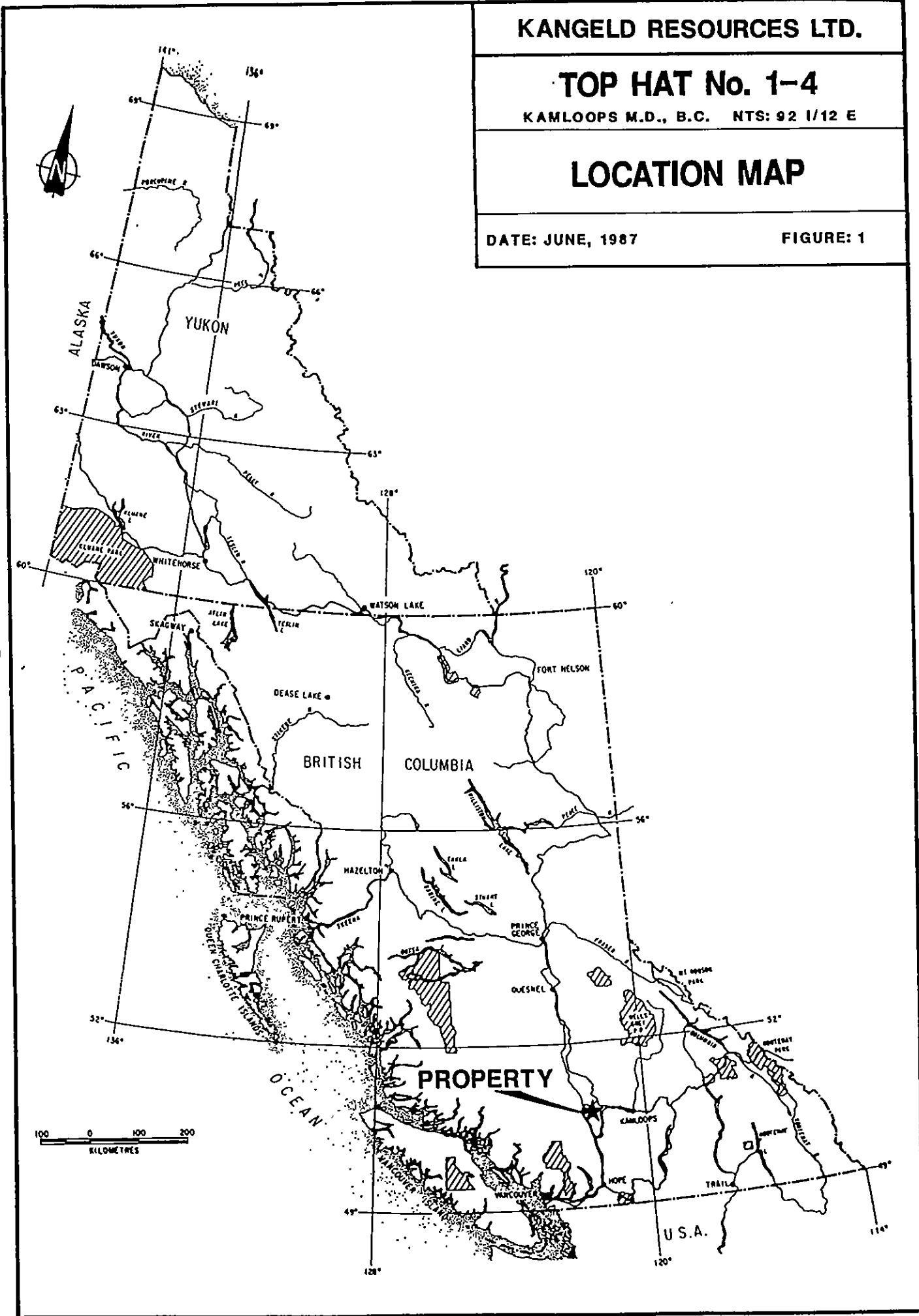
TOP HAT No. 1-4

KAMLOOPS M.D., B.C. NTS: 92 1/12 E

LOCATION MAP

DATE: JUNE, 1987

FIGURE: 1



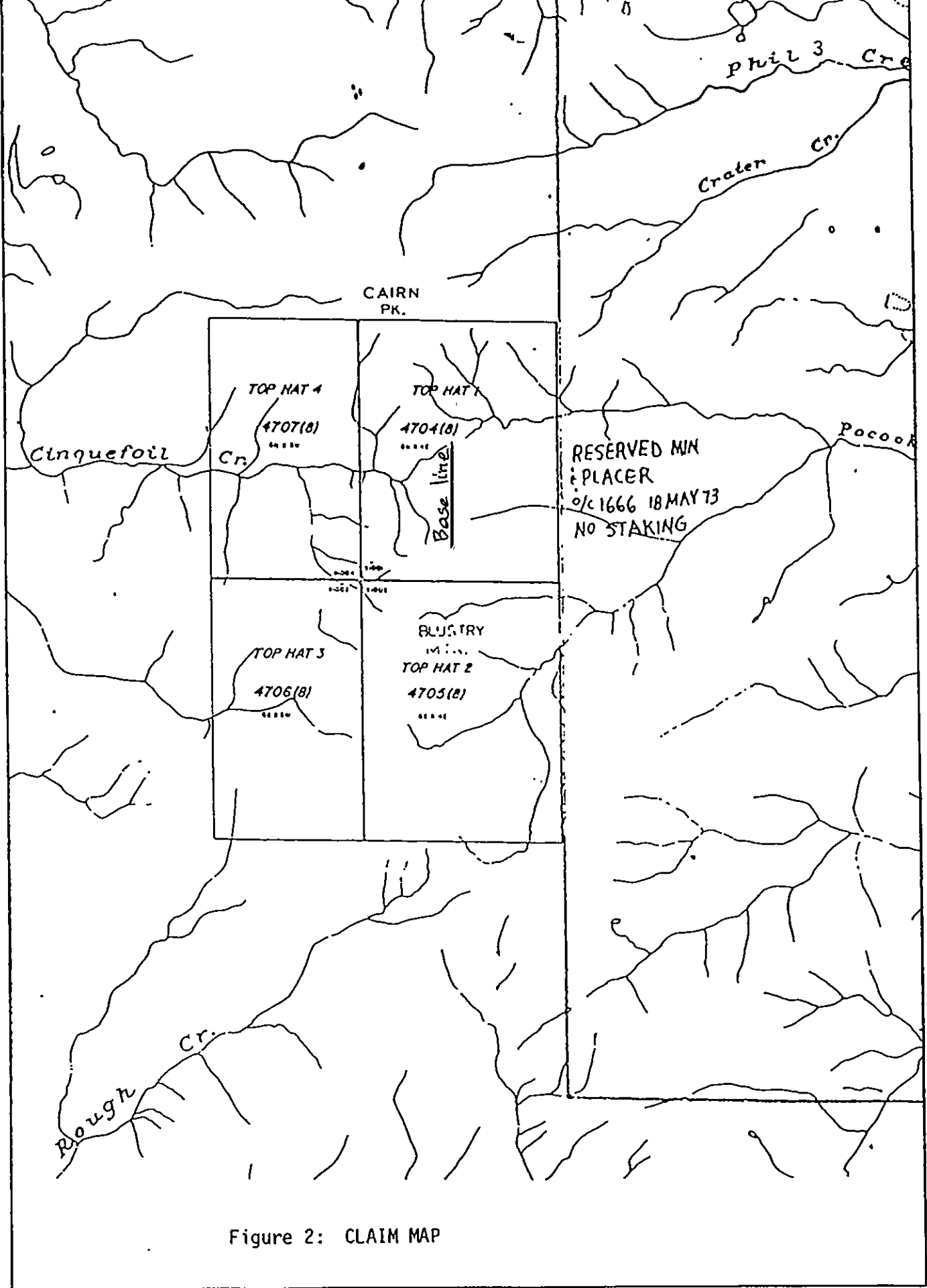


Figure 2: CLAIM MAP

1.2 PHYSIOGRAPHY, VEGETATION AND CLIMATE

The terrain is mountainous with moderately steep slopes easily traversed on foot. Elevations range from 1675 m (5,500 feet) along Cinquefoil Creek to about 2350 m (7,700 feet) on Blustry Mountain and Cairn Peak. The area was covered by ice during Pleistocene time and glacial erratics, although not common are present.

Open grassy hillsides cover about half the property particularly at higher elevations but grade into open pine and spruce forests at lower elevations, particularly in sheltered valleys. The area is grazed by cattle during the summer months, and mule deer are a common site throughout the year.

1.3 CLAIM INFORMATION

The claims are located in the Kamloops Mining Division and consists of four contiguous, Modified Grid Claims (totaling 70 Units). All claims are registered in the name of Gordon Richards of Richmond, B.C. and are optioned to Kangel Resources Ltd. The option agreement includes cash and (or) shares with escalating payments for three years. A buy out clause is also included. Claim information is listed in Table 1, below:

TABLE 1
CLAIM STATUS

CLAIM	UNITS/	RECORD NO.	ANNIVERSARY DATE
TOP HAT #1	20	4704	AUGUST 24
TOP HAT #2	20	4705	AUGUST 24
TOP HAT #3	15	4706	AUGUST 24
TOP HAT #4	15	4707	AUGUST 24

1.4 HISTORY AND PREVIOUS WORK

The TOP HAT #1-#4 Mineral Claims were staked in July 1983 to cover a large colour anomaly at the headwaters of Cinquefoil Creek. This colour anomaly appeared to be the source area for anomalous gold present in a previously conducted reconnaissance sampling survey.

In 1984, a geochemical survey was initiated and designed to provide geochemical data over the area considered to be the best target. A total of 1,076 samples were collected of which 3 were stream sediments, 85 were rock chips, and 988 were soils. Due to budget

restraints, not all samples were analysed for precious metals. However, results indicated several areas of highly anomalous gold and silver values coincident with anomalous values in antimony, arsenic, copper, lead, mercury, molybdenum, silver, and zinc. Subsequent geochemical analyses for precious metals indicated the area was anomalous in gold over a much broader area than previous thought.

In 1987, Kangel Resources commissioned Aerodat Ltd. of Mississauga, Ontario to conduct an airborne geophysical survey over the property. This survey consisted of a low-level, helicopter supported programme which included a three frequency electromagnetic system, a high sensitivity cesium vapour magnetometer, and a two frequency VLF-EM system. Results of this survey were used to control the location of the detailed soil sampling survey detailed in this report.

2.0 GEOLOGY

Regional geologic mapping of this area was undertaken in 1945-47 by S. Duffell and K.C. McTaggart of the Geological Survey of Canada and compiled as Map 1010A, Ashcroft. They originally considered the area to be underlain by Cretaceous Spences Bridge Group volcanics. It now appears that the claim block and surrounding hillsides are underlain by Tertiary volcanics of the Kingsvale Group. Intruding the volcanic sequence are two small plugs and several dyke swarms of feldspar porphyry (Figure 3). A strongly altered zone of clay-sulphide alteration occurs at the headwaters of Cinquefoil Creek within the Top Hat #1 claim. Other smaller zones of clay-sulphide alteration occur adjacent to the dyke swarms shown on Figure 3.

Away from areas of strong alteration, the Tertiary volcanics form repetitive, 3-6 m thick, flat lying andesitic lava flows and pyroclastic beds with a cumulative thickness up to 300 m. Within and near the large zone of clay-sulphide alteration the monotonous andesitic volcanics give way to mixed rhyolitic, dacitic, and andesitic pyroclastics.

A northeast trending dyke swarm of creamy pink, weakly feldspar porphyritic andesite with 2-5% hornblende needles intrudes the volcanic sequence and is spatially related to the northeast trending clay-sulphide alteration zone. A few outcrops of pink feldspar porphyry occurs on strike with the dyke swarm and is shown on Figure 3 as a small plug of syenite although it may represent a deeper level, wider, and coarser-grained equivalent of the dykes.

Several types of silicification occur on the property. Quartz breccia with quartz-crystal lined vugs and intense silicification of included wallrock occur as float over a large area on the northern portion of Top Hat #1. Sulphide content is generally less than 2% but tetrahedrite, galena, and other silver coloured sulphides have been recognized with pyrite in some of the float samples. Another type of silicification occurs as parallel bands of dark grey quartz 1-10 mm wide but usually only 2 mm wide. These veins may represent up to 70%, but average 10%, of rock volume and cover an area some 50-100 m wide and 20-300 m long, on the east facing hillside near the headwaters of Pocock Creek. Host rock in this area is a feldspar rich, porphyritic andesite dyke with 1-3% disseminated pyrite. A third type of silicification occurs in contact with the above zone and extends eastward towards the centre of Top Hat #1. Rhyolite breccia with moderate clay alteration and less than 3% vugs contains local zones of silicification of fragments and some grey quartz partly filling vugs. Silica flooding also occurs locally within the rhyolite accompanied by intense clay alteration.

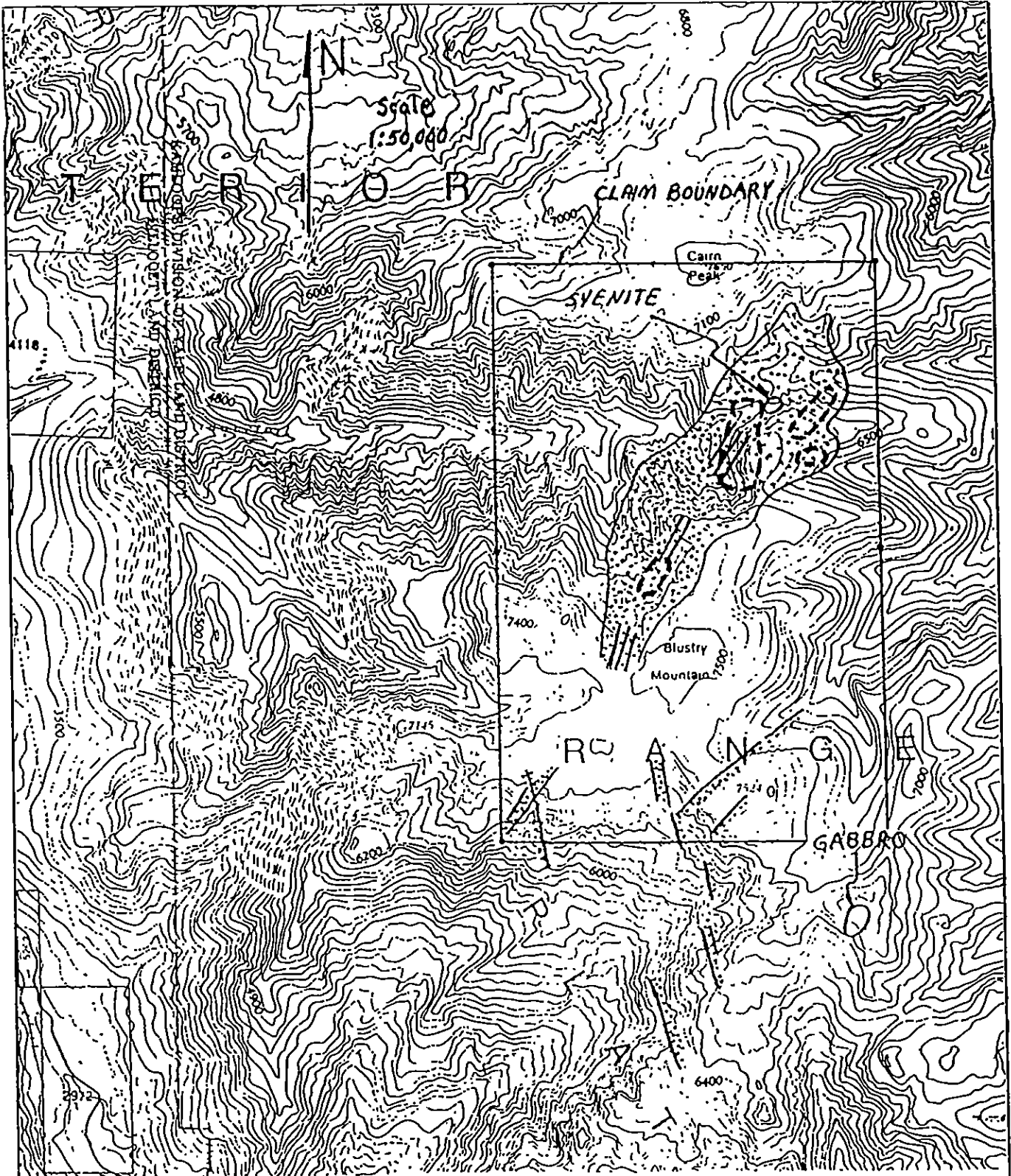


Figure 3: GENERALIZED GEOLOGY AND GEOCHEMISTRY

- // Feldspar porphyritic dykes
- Clay-sulphide alteration
- ◊ Multi-element geochemical anomalies.

3.0 GEOCHEMICAL SURVEY

Geochemical sampling was confined to a grid area 900 m by 1000 m (Figures 4 through 10). Within this area east-west lines were established by compass and chain. Line spacing was set at 50 m and the soil samples were collected at 25 m interval along the lines. Although a few glacial erratics are present, no till deposits or extensive glacial deposits are known anywhere on the property. Well developed residual soils are found everywhere and all samples were collected from an easily recognized 'B' soil horizon.

A total of 349 samples were collected during this programme. Soil samples were collected using either a shovel or prospector's mattock and placed into Kraft wet-strength paper envelopes. After air drying for several days the samples were boxed and shipped to Chemex Labs. Ltd. in North Vancouver, B.C. for analyses.

At Chemex Labs. Ltd. the all samples were analysed for 32 elements using the I.C.P. technique. In addition, gold was analysed by standard atomic absorption after pre-concentration by Fire Assay extraction.

3.1 DISCUSSION OF RESULTS

Results for the soil samples were tabulated for the major elements on Figures 4 through 10 and complete analysis of each sample is summarized in Appendix A. The geochemical results outline a multi-element anomaly located in the central portion of Top Hat #1 claim.

Anomalous gold values, with correspondingly anomalous values in Ag, As, Au, Cu, Hg, Mo, Sb, Pb, and Zn, are outlined in a 650 m north-trending zone which is open to the south. This zone is at least 200 m wide and contains gold values, in soils, up to 470 ppb.

Reported and Supervised by:

R.A. Gonzalez, MSc., F.G.A.C.

4.0 REFERENCES

Duffell, S., and McTaggart, K.C., 1951; Geological Survey of Canada Map 1010A, Ashcroft; Geological Survey of Canada

Gonzalez, R.A., 1987, Geological Report on the Top Hat Property-Top Hat #1-#4 Mineral Claims-Kamloops Mining Division, B.C.-NTS 92I/12E: Engineer's Report dated June 16, 1987.

Richards, G.G., 1984; Geochemical Report on Top Hat #1-#4 Mineral Claims-Kamloops Mining Division: Assessment Report No. 12948 dated November 26, 1984.

5.0 STATEMENT OF PROFESSIONAL QUALIFICATIONS

R.A. GONZALEZ, M.Sc., F.G.A.C., P.Eng.

ACADEMIC

1965	B.Sc. in Geology	The University of New Mexico, U.S.A.
1968	M.Sc. in Geology	The University of New Mexico, U.S.A.

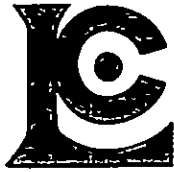
PROFESSIONAL

1983	Archean Engineering Limited	Overseas Manager
1983	Registered Fellow in the Geological Association of Canada	
1980-1983	Placer Development y Cia. Ltd. (Chile)	Ass't Exploration Manager
1977-1980	Consultant attached to the Geological Survey of Malaysia	Ass't Project Manager on a C.I.D.A. supported mineral exploration survey over Peninsular Malaysia
1977	Registered Professional Engineer in the Province of Manitoba	
1975-1977	Province of Manitoba	Resident Geologist for the Manitoba Dept. of Mines.
1971-1975	Giant Mascot Mines Limited	Senior Geologist
1970-1971	New Jersey Zinc (Canada) Ltd.	Exploration Geologist
1968-1970	Anaconda American Brass Ltd.	Research Geologist
1965-1966	Mex-Tex Mining Co.(U.S.A)	Geologist

6.0 COSTS STATEMENT

KANGELD RESOURCES LTD.
TOP HAT #1-#4 MINERAL CLAIMS
GEOCHEMICAL SURVEYS
27 JUNE - 24 JULY 1987

SALARIES & WAGES:		
4 Pers., 16 man-days @ \$88.46/day		\$1,415.40
BENEFITS: @ 20%		283.08
SHIPMENTS:		117.67
FIXED WING:		
Hastings Travel, 3 Pers. Kamloops/return		500.40
HELICOPTER:		
Cariboo Chilcotin 206B, 22-23 July		
1.4 hrs @ \$566.20/hr		792.68
FUEL:		110.06
FOOD & ACCOMMODATION		
16 man-days @ \$34.22/day		547.47
SUPPLIES & SUNDRY:		1,152.59
RENTALS:		
Airways 4WD Blazer 4 days @ \$50/day	\$200.00	
Ezekiel's Field Equipment		
16 man-days @ \$6/day	96.00	
		<hr/> 296.00
ASSAYS & ANALYSES-CHEMEX LABS:		
349 Soils for Au & 32 elem ICP @ 14.50 ea		5,060.50
AIRBORNE GEOPHYSICAL SURVEY (Separate Report):		
Aerodat Limited 180 line km @		
\$80/km	\$14,400.00	
Mark Management planning,		
supervision and reports	2,160.00	
		<hr/> 16,560.00
CONSULTANT FEES:		
Adder Exploration & Dev. Ltd.		250.00
Archean Engineering Ltd.		1,275.00
FIELD TELEPHONE SERVICE:		44.96
REPORT PREPARATION:		2,408.20
		<hr/>
TOTAL COSTS:		\$30,814.01
		=====



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VANCOUVER, B.C.
V6C 2W2

Project: TOP HAT

Comments: ATTN: ART TROUP CC: K AKHURST

Page No. : 1-A
Tot. Pages: 9
Date : 10-AUG-87
Invoice #: I-8718866
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
THEO+50N 0+00W	201 238	< 5	1.62	0.2	30	140	< 0.5	< 2	0.06	< 0.5	6	11	44	3.90	< 10	< 1	0.10	10	0.23	215
THEO+50N 0+25W	201 238	< 5	1.70	0.4	10	150	< 0.5	< 2	0.20	< 0.5	< 1	20	32	3.16	< 10	3	0.11	10	0.33	351
THEO+50N 0+50W	201 238	< 5	1.53	0.4	< 5	150	< 0.5	< 2	0.15	0.5	< 1	15	37	3.55	< 10	< 1	0.12	10	0.24	328
THEO+50N 0+75W	201 238	< 5	1.49	0.2	20	220	< 0.5	< 2	0.18	< 0.5	7	13	64	3.29	< 10	< 1	0.13	10	0.24	435
THEO+50N 1+00W	201 238	< 5	1.05	0.4	5	410	< 0.5	< 2	0.55	1.5	7	8	54	3.61	< 10	1	0.21	10	0.20	1105
THEO+50N 1+25W	201 238	< 5	1.11	0.6	15	240	< 0.5	4	0.17	0.5	18	7	49	4.12	< 10	< 1	0.12	10	0.12	783
THEO+50N 1+50W	201 238	< 5	1.12	0.6	75	210	< 0.5	< 2	0.22	1.0	< 1	10	46	3.35	< 10	< 1	0.19	10	0.20	330
THEO+50N 1+75W	201 238	90	1.21	1.8	215	160	< 0.5	< 2	0.03	1.0	23	1	142	5.42	< 10	< 1	0.27	10	0.08	618
THEO+50N 2+00W	201 238	10	0.89	1.2	130	140	< 0.5	2	0.17	1.0	14	1	94	4.02	< 10	< 1	0.24	10	0.07	505
THEO+50N 2+25W	201 238	200	2.19	1.8	115	240	< 0.5	< 2	0.07	1.5	15	7	126	4.58	< 10	< 1	0.24	10	0.23	375
THEO+50N 2+50W	201 238	15	2.24	2.2	130	170	< 0.5	< 2	0.09	0.5	< 1	12	80	3.62	< 10	2	0.18	10	0.21	217
THEO+50N 2+75W	201 238	5	2.28	1.4	80	180	0.5	< 2	0.20	1.0	7	17	56	3.43	< 10	1	0.15	10	0.30	434
THEO+50N 3+00W	201 238	< 5	2.08	1.2	95	190	0.5	< 2	0.12	1.0	14	11	75	4.03	< 10	3	0.15	10	0.26	468
THEO+50N 3+25W	201 238	< 5	1.46	0.2	15	120	< 0.5	< 2	0.27	< 0.5	24	5	55	4.38	< 10	< 1	0.08	20	0.49	912
THEO+50N 3+50W	201 238	< 5	1.13	0.4	5	130	< 0.5	< 2	0.30	< 0.5	22	4	45	4.05	< 10	< 1	0.05	10	0.42	948
THEO+50N 3+75W	201 238	30	1.60	0.6	100	170	< 0.5	< 2	0.09	< 0.5	7	6	40	4.11	< 10	< 1	0.14	10	0.46	405
THEO+50N 4+00W	201 238	10	1.62	0.2	50	170	< 0.5	2	0.07	< 0.5	< 1	4	37	4.18	< 10	< 1	0.14	10	0.42	304
THEO+50N 4+25W	201 238	< 5	1.26	0.2	< 5	150	< 0.5	< 2	0.06	< 0.5	< 1	8	14	2.54	< 10	< 1	0.08	10	0.24	101
THEO+50N 4+50W	201 238	< 5	1.93	1.0	10	150	< 0.5	< 2	0.09	< 0.5	< 1	12	31	4.51	< 10	< 1	0.05	< 10	0.35	221
THEO+50N 4+75W	201 238	30	1.43	21.6	25	180	< 0.5	< 2	0.06	< 0.5	< 1	8	46	5.43	< 10	< 1	0.10	10	0.39	280
THEO+50N 5+00W	201 238	< 5	1.27	1.2	< 5	80	< 0.5	< 2	0.09	0.5	< 1	12	27	3.10	< 10	< 1	0.03	< 10	0.19	140
THEO+50N 5+25W	201 238	20	1.72	1.0	25	170	< 0.5	< 2	0.06	< 0.5	< 1	12	40	4.23	< 10	< 1	0.08	10	0.31	317
THEO+50N 5+50W	201 238	< 5	1.67	0.2	15	110	< 0.5	< 2	0.07	< 0.5	< 1	11	35	4.12	< 10	< 1	0.06	< 10	0.36	191
THEO+50N 5+75W	201 238	< 5	1.67	0.4	35	120	< 0.5	< 2	0.10	< 0.5	< 1	18	39	3.45	< 10	2	0.09	10	0.30	200
THEO+50N BL	201 238	< 5	1.67	0.4	35	120	< 0.5	< 2	0.10	< 0.5	< 1	18	39	3.45	< 10	2	0.09	10	0.30	200
THEO+50N 0+25W	201 238	60	1.16	0.8	10	120	< 0.5	< 2	0.06	< 0.5	< 1	8	31	3.71	< 10	< 1	0.20	10	0.13	132
THEO+50N 0+50W	201 238	10	2.82	0.4	60	200	1.0	< 2	0.15	< 0.5	17	23	120	7.14	< 10	1	0.09	20	0.13	448
THEO+50N 0+75W	201 238	< 5	1.25	0.2	20	200	< 0.5	< 2	0.04	< 0.5	16	4	58	7.06	< 10	< 1	0.15	20	0.09	257
THEO+50N 1+00W	201 238	< 5	1.18	0.4	20	200	< 0.5	< 2	0.03	< 0.5	< 1	1	48	6.28	< 10	< 1	0.21	10	0.09	126
THEO+50N 1+25W	201 238	135	1.11	1.0	60	250	< 0.5	< 2	0.04	< 0.5	< 1	3	52	5.69	< 10	< 1	0.24	10	0.12	123
THEO+50N 1+50W	201 238	40	1.38	0.8	45	220	0.5	< 2	0.04	< 0.5	< 1	4	59	5.74	< 10	< 1	0.22	10	0.14	170
THEO+50N 1+75W	201 238	130	1.18	11.6	165	220	< 0.5	< 2	0.17	2.0	8	7	120	3.61	< 10	< 1	0.31	10	0.12	655
THEO+50N 2+00W	201 238	110	0.58	1.0	80	110	< 0.5	2	0.11	1.0	36	< 1	237	8.14	< 10	< 1	0.18	10	0.06	1070
THEO+50N 2+25W	201 238	20	1.26	1.0	45	680	< 0.5	< 2	1.63	7.5	28	9	121	4.20	< 10	< 1	0.20	40	0.25	2460
THEO+50N 2+50W	201 238	< 5	0.61	0.2	5	720	< 0.5	< 2	2.01	8.5	17	9	61	1.96	< 10	< 1	0.14	20	0.25	2760
THEO+50N 2+75W	201 238	< 5	1.55	0.4	45	260	< 0.5	< 2	0.52	4.5	16	19	43	3.09	< 10	< 1	0.17	10	0.33	1045
THEO+50N 3+00W	201 238	< 5	1.39	0.2	10	270	< 0.5	< 2	0.49	4.5	15	17	32	2.36	< 10	1	0.11	10	0.32	1365
THEO+50N 3+25W	201 238	< 5	1.78	0.6	< 5	190	< 0.5	< 2	0.43	2.0	< 1	22	20	2.55	< 10	2	0.10	10	0.36	784
THEO+50N 3+50W	201 238	< 5	1.50	0.2	< 5	150	< 0.5	< 2	0.27	1.0	37	4	72	4.30	< 10	1	0.07	10	0.44	1615
THEO+50N 3+75W	201 238	< 5	1.27	0.2	30	100	< 0.5	2	0.28	< 0.5	22	4	42	4.18	< 10	< 1	0.06	10	0.47	689
THEO+50N 4+00W	201 238	25	1.49	0.2	70	140	< 0.5	< 2	0.11	< 0.5	< 1	5	35	3.68	< 10	< 1	0.12	10	0.44	306

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
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Project : TOP HAT

Comments : ATTN: ART TROUP CC: K AKHURST

Page No. : 1-B

Tot. Pages: 9

Date : 10-AUG-87

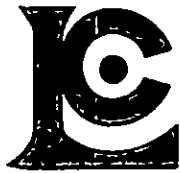
Invoice # : I-8718866

P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
IHO+SON 0+00W	201 238	5	0.08	12	820	16	< 5	< 10	61	0.01	< 10	< 10	27	< 5	76
IHO+SON 0+25W	201 238	1	0.03	22	860	30	< 5	< 20	62	0.03	< 10	< 10	39	< 5	93
IHO+SON 0+50W	201 238	2	0.03	16	1010	22	< 5	< 10	69	0.01	< 10	< 10	36	< 5	84
IHO+SON 0+75W	201 238	< 1	0.03	17	1030	42	< 5	< 10	75	0.02	< 10	< 10	35	< 5	87
IHO+SON 1+00W	201 238	1	0.06	15	2070	38	< 5	< 10	172	0.01	< 10	< 10	25	< 5	129
IHO+SON 1+25W	201 238	< 1	0.08	17	1070	28	< 5	< 10	134	< 0.01	< 10	< 10	23	< 5	87
IHO+SON 1+50W	201 238	2	0.02	15	1030	148	< 5	< 10	109	0.01	< 10	< 10	31	< 5	109
IHO+SON 1+75W	201 238	6	0.03	20	1860	124	< 5	< 10	57	< 0.01	< 10	< 10	20	< 5	283
IHO+SON 2+00W	201 238	4	0.03	12	1580	112	< 5	< 20	111	< 0.01	< 10	< 10	18	< 5	178
IHO+SON 2+25W	201 238	5	0.04	15	1210	270	< 5	< 10	79	< 0.01	< 10	< 10	28	< 5	234
IHO+SON 2+50W	201 238	2	0.02	17	1300	176	< 5	< 10	55	0.02	< 10	< 10	31	< 5	249
IHO+SON 2+75W	201 238	3	0.02	19	1300	86	< 5	< 10	65	0.03	< 10	< 10	36	< 5	298
IHO+SON 3+00W	201 238	4	0.03	20	1300	98	< 5	< 10	69	0.01	< 10	< 10	32	< 5	253
IHO+SON 3+25W	201 238	< 1	0.05	16	1060	14	< 5	< 10	81	< 0.01	< 10	< 10	23	< 5	76
IHO+SON 3+50W	201 238	< 1	0.04	11	1130	12	< 5	< 10	73	< 0.01	< 10	< 10	24	< 5	73
IHO+SON 3+75W	201 238	1	0.08	8	1200	14	< 5	< 10	74	< 0.01	< 10	< 10	24	< 5	49
IHO+SON 4+00W	201 238	1	0.10	9	1190	4	< 5	< 10	95	< 0.01	< 10	< 10	23	< 5	39
IHO+SON 4+25W	201 238	3	0.02	5	790	36	< 5	< 10	36	< 0.01	< 10	< 10	26	< 5	26
IHO+SON 4+50W	201 238	2	0.03	8	1120	64	< 5	< 10	27	0.05	< 10	< 10	34	< 5	41
IHO+SON 4+75W	201 238	5	0.05	11	1470	120	< 5	< 10	60	< 0.01	< 10	< 10	31	< 5	50
IHO+SON 5+00W	201 238	2	0.02	6	480	16	< 5	< 10	14	0.04	< 10	< 10	44	< 5	41
IHO+SON 5+25W	201 238	2	0.02	14	1290	56	< 5	< 10	46	0.01	< 10	< 10	34	< 5	48
IHO+SON 5+50W	201 238	4	0.02	13	1040	12	< 5	< 10	34	0.01	< 10	< 10	28	< 5	42
IHI+OON BL	201 238	< 1	0.05	13	810	38	< 5	< 10	52	0.04	< 10	< 10	38	< 5	100
IHI+OON 0+25W	201 238	1	0.04	10	630	26	< 5	< 10	57	0.01	< 10	< 10	26	< 5	68
IHI+OON 0+50W	201 238	1	0.06	20	1920	2	< 5	< 10	88	< 0.01	< 10	< 10	92	< 5	75
IHI+OON 0+75W	201 238	1	0.28	11	1730	14	< 5	< 10	140	< 0.01	< 10	< 10	26	< 5	76
IHI+OON 1+00W	201 238	2	0.24	9	1630	16	< 5	< 10	255	< 0.01	< 10	< 10	14	< 5	63
IHI+OON 1+25W	201 238	< 1	0.12	9	1340	36	< 5	< 10	118	< 0.01	< 10	< 10	22	< 5	67
IHI+OON 1+50W	201 238	< 1	0.17	9	1630	46	< 5	< 10	146	< 0.01	< 10	< 10	24	< 5	87
IHI+OON 1+75W	201 238	9	0.02	20	2040	362	< 5	< 10	84	< 0.01	< 10	< 10	21	< 5	237
IHI+OON 2+00W	201 238	13	0.02	28	2270	80	< 5	< 10	59	< 0.01	< 10	< 10	33	< 5	381
IHI+OON 2+25W	201 238	2	0.02	30	2830	94	< 5	< 10	99	< 0.01	< 10	< 10	42	< 5	421
IHI+OON 2+50W	201 238	2	0.01	19	2500	26	< 5	< 10	95	< 0.01	< 10	< 10	22	< 5	317
IHI+OON 2+75W	201 238	1	0.02	20	1730	88	< 5	< 10	71	0.04	< 10	< 10	42	< 5	558
IHI+OON 3+00W	201 238	< 1	0.02	16	1600	34	< 5	< 10	69	0.05	< 10	< 10	41	< 5	334
IHI+OON 3+25W	201 238	< 1	0.02	18	1780	24	< 5	< 10	58	0.05	< 10	< 10	40	< 5	351
IHI+OON 3+50W	201 238	< 1	0.05	27	1130	8	< 5	< 10	81	< 0.01	< 10	< 10	21	< 5	100
IHI+OON 3+75W	201 238	< 1	0.04	15	1320	14	< 5	< 10	83	< 0.01	< 10	< 10	24	< 5	101
IHI+OON 4+00W	201 238	< 1	0.08	7	1040	< 2	< 5	< 10	75	< 0.01	< 10	< 10	23	< 5	47

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
 VANCOUVER, B.C.
 V6C 2W2

Project : TOP HAT

Comments: ATTN: ART TROUP CC: K. AKHURST

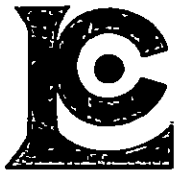
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CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TH1+OON 4+2.5W	201 238	15	2.03	0.6	15	100	< 0.5	< 2	0.13	< 0.5	74	21	23	6.26	< 10	< 1	0.06	10	0.20	5730
TH1+OON 4+5.0W	201 238	10	2.10	1.0	20	270	< 0.5	2	0.11	< 0.5	< 1	20	24	5.85	< 10	< 1	0.08	< 10	0.38	1035
TH1+OON 4+7.5W	201 238	25	1.73	0.4	15	120	< 0.5	< 2	0.25	< 0.5	< 1	26	17	3.40	< 10	< 1	0.06	10	0.32	415
TH1+OON 5+0.0W	201 238	< 5	1.77	0.4	20	130	< 0.5	< 2	0.12	< 0.5	< 1	18	36	3.73	< 10	1	0.06	< 10	0.31	293
TH1+OON 5+2.5W	201 238	15	1.13	0.4	15	150	< 0.5	< 2	0.13	< 0.5	30	11	57	4.04	< 10	< 1	0.11	20	0.26	790
TH1+OON 5+5.0W	201 238	5	1.80	0.2	5	80	< 0.5	< 2	0.08	< 0.5	< 1	23	18	3.77	< 10	< 1	0.05	< 10	0.28	180
TH1+SON 0+0.0	201 238	< 5	2.06	0.4	45	140	< 0.5	< 2	0.22	< 0.5	< 1	21	26	3.36	< 10	< 1	0.09	10	0.29	442
TH1+SON 0+2.5W	201 238	< 5	1.91	1.0	15	220	< 0.5	< 2	0.30	0.5	< 1	18	48	3.80	< 10	< 1	0.14	10	0.30	670
TH1+SON 0+5.0W	201 238	5	1.89	0.6	80	190	2.0	< 2	0.07	< 0.5	< 1	4	129	8.71	< 10	< 1	0.12	20	0.06	167
TH1+SON 0+7.5W	201 238	10	0.83	0.2	40	200	0.5	< 2	0.05	< 0.5	< 1	< 1	51	8.29	< 10	< 1	0.28	20	0.07	199
TH1+SON 1+0.0W	201 238	10	1.25	0.8	80	200	2.0	< 2	0.11	1.0	< 1	9	71	7.75	< 10	< 1	0.27	20	0.13	215
TH1+SON 1+2.5W	201 238	20	1.54	0.2	60	470	0.5	2	0.07	< 0.5	< 1	8	64	7.08	< 10	< 1	0.15	20	0.20	236
TH1+SON 1+5.0W	201 238	105	1.18	6.0	115	240	0.5	4	0.09	< 0.5	< 1	6	216	5.56	< 10	< 1	0.29	10	0.10	290
TH1+SON 1+7.5W	201 238	355	0.54	4.6	200	230	1.0	< 2	0.02	1.0	< 1	< 1	72	7.36	< 10	< 1	0.73	10	0.02	162
TH1+SON 2+0.0W	201 238	60	1.44	0.8	165	260	< 0.5	2	0.37	3.0	< 1	18	53	3.68	< 10	< 1	0.18	10	0.26	736
TH1+SON 2+2.5W	201 238	60	1.71	1.0	235	290	1.5	< 2	0.44	8.0	44	5	203	7.11	< 10	3	0.18	20	0.12	2010
TH1+SON 2+5.0W	201 238	10	1.38	1.0	175	360	1.0	< 2	0.64	4.0	47	6	170	7.32	< 10	< 1	0.15	20	0.17	1760
TH1+SON 2+7.5W	201 238	5	1.30	1.2	120	370	0.5	2	0.88	3.5	34	6	140	5.66	< 10	< 1	0.18	20	0.18	985
TH1+SON 3+0.0W	201 238	< 5	1.34	0.2	15	260	< 0.5	< 2	0.60	3.0	< 1	17	28	2.59	< 10	< 1	0.16	10	0.32	1655
TH1+SON 3+2.5W	201 238	< 5	1.63	0.2	25	220	< 0.5	< 2	0.44	2.0	< 1	19	37	3.70	< 10	< 1	0.18	10	0.37	918
TH1+SON 3+5.0W	201 238	15	1.39	0.2	20	360	< 0.5	< 2	1.03	3.0	< 1	17	30	2.44	< 10	< 1	0.15	10	0.39	1235
TH1+SON 3+7.5W	201 238	10	2.04	0.4	15	200	< 0.5	2	0.49	2.0	< 1	26	32	3.51	< 10	< 1	0.11	10	0.42	477
TH1+SON 4+0.0W	201 238	5	1.22	0.2	< 5	100	< 0.5	2	0.35	0.5	27	5	42	3.76	< 10	< 1	0.08	10	0.45	994
TH1+SON 4+2.5W	201 238	10	1.21	0.2	20	90	< 0.5	< 2	0.30	< 0.5	1	5	42	3.59	< 10	< 1	0.07	10	0.49	970
TH1+SON 4+5.0W	201 238	20	1.37	0.4	70	150	< 0.5	< 2	0.29	< 0.5	1	6	36	3.85	< 10	< 1	0.14	10	0.44	493
TH1+SON 4+7.5W	201 238	35	1.49	0.6	115	110	< 0.5	< 2	0.23	< 0.5	< 1	6	34	3.85	< 10	< 1	0.18	10	0.45	306
TH1+SON 5+0.0W	201 238	15	1.02	1.0	35	240	< 0.5	6	0.23	< 0.5	< 1	10	29	4.37	< 10	< 1	0.10	10	0.29	635
TH1+SON 5+2.5W	201 238	135	1.31	0.8	95	150	< 0.5	< 2	0.21	< 0.5	13	9	44	3.83	< 10	< 1	0.11	10	0.42	875
TH1+SON 5+5.0W	201 238	50	1.54	0.2	70	140	< 0.5	2	0.16	< 0.5	43	9	64	4.46	< 10	< 1	0.12	10	0.47	1655
TH2+OON 0+0.0	201 238	< 5	1.39	1.0	80	100	< 0.5	< 2	0.09	< 0.5	< 1	13	34	3.66	< 10	2	0.08	10	0.22	151
TH2+OON 0+2.5W	201 238	< 5	2.00	0.6	30	90	< 0.5	< 2	0.17	< 0.5	< 1	25	21	3.10	< 10	< 1	0.08	10	0.38	199
TH2+OON 0+5.0W	201 238	< 5	1.09	1.2	55	170	< 0.5	< 2	0.10	< 0.5	< 1	6	30	4.78	< 10	< 1	0.12	10	0.16	216
TH2+OON 0+7.5W	201 238	10	1.76	0.4	15	110	< 0.5	< 2	0.17	1.0	< 1	27	41	2.88	< 10	< 1	0.14	10	0.42	264
TH2+OON 1+0.0W	201 238	170	0.87	1.6	735	280	4.5	2	0.12	< 0.5	< 1	4	54	11.75	< 10	< 1	1.12	20	0.12	295
TH2+OON 1+2.5W	201 238	20	2.22	1.0	165	290	< 0.5	< 2	0.37	1.0	28	21	56	4.66	< 10	< 1	0.22	10	0.37	2560
TH2+OON 1+5.0W	201 238	315	0.76	13.6	400	410	1.0	< 2	0.28	1.0	< 1	9	100	5.99	< 10	< 1	0.80	20	0.14	251
TH2+OON 1+7.5W	201 238	10	1.85	0.8	60	360	< 0.5	< 2	0.70	2.5	< 1	30	44	3.49	< 10	< 1	0.21	10	0.50	1645
TH2+OON 2+0.0W	201 238	< 5	1.75	0.4	100	250	0.5	< 2	0.77	2.0	12	21	56	4.22	< 10	1	0.18	20	0.37	2520
TH2+OON 2+2.5W	201 238	5	1.29	0.2	160	270	0.5	< 2	0.67	3.0	19	15	62	3.95	< 10	< 1	0.24	10	0.29	1245
TH2+OON 2+5.0W	201 238	< 5	1.65	0.6	95	240	< 0.5	< 2	0.44	1.0	20	15	61	4.22	< 10	6	0.19	10	0.47	980

CERTIFICATION :

BC



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
 VANCOUVER, B.C.
 V6C 2W2

Project: TOP HAT

Comments: ATTN: ART TROUP CC: K AKHURST

Page No. : 2-B
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 Invoice #: I-3718866
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TH1+00N 4+2.5W	201 238	< 1	0.04	52	1100	14	< 5	< 10	31	0.04	< 10	< 10	34	5	225
TH1+00N 4+5.0W	201 238	1	0.06	9	1670	74	< 5	< 10	42	0.05	< 10	< 10	64	5	62
TH1+00N 4+7.5W	201 238	< 1	0.03	15	1160	28	< 5	10	30	0.08	< 10	< 10	60	5	93
TH1+00N 5+0.0W	201 238	< 1	0.03	12	800	24	< 5	< 10	30	0.03	< 10	< 10	44	< 5	65
TH1+00N 5+2.5W	201 238	< 1	0.05	25	990	30	< 5	< 10	60	< 0.01	< 10	< 10	24	< 5	77
TH1+00N 5+5.0W	201 238	< 1	0.02	11	610	4	< 5	< 10	22	0.06	< 10	< 10	56	5	51
TH1+50N 0+0.0	201 238	< 1	0.02	16	830	10	< 5	< 10	46	0.05	< 10	< 10	46	< 5	103
TH1+50N 0+2.5W	201 238	< 1	0.05	17	1480	34	< 5	< 10	105	0.02	< 10	< 10	38	5	123
TH1+50N 0+5.0W	201 238	< 1	0.24	29	2980	18	< 5	< 10	239	< 0.01	< 10	< 10	24	< 5	132
TH1+50N 0+7.5W	201 238	< 1	0.25	14	1890	16	< 5	< 10	117	< 0.01	< 10	< 10	18	< 5	94
TH1+50N 1+0.0W	201 238	< 1	0.12	16	2360	78	< 5	< 10	218	< 0.01	< 10	< 10	48	5	108
TH1+50N 1+2.5W	201 238	< 1	0.29	12	1950	36	< 5	< 10	173	< 0.01	< 10	< 10	31	< 5	99
TH1+50N 1+5.0W	201 238	5	0.05	22	1790	416	55	< 10	129	< 0.01	< 10	< 10	25	5	257
TH1+50N 1+7.5W	201 238	11	0.02	15	1240	1220	25	< 10	108	< 0.01	< 10	< 10	9	5	357
TH1+50N 2+0.0W	201 238	1	0.02	22	1850	124	5	< 10	82	0.02	< 10	< 10	35	5	276
TH1+50N 2+2.5W	201 238	4	0.01	48	1890	226	40	< 10	55	< 0.01	< 10	< 10	45	10	1100
TH1+50N 2+5.0W	201 238	2	0.01	39	2240	90	20	< 10	75	< 0.01	< 10	< 10	51	5	784
TH1+50N 2+7.5W	201 238	< 1	0.01	34	3060	162	20	< 10	91	< 0.01	< 10	< 10	45	5	669
TH1+50N 3+0.0W	201 238	< 1	0.02	18	1390	36	< 5	< 10	72	0.04	< 10	< 10	42	< 5	254
TH1+50N 3+2.5W	201 238	< 1	0.01	24	1490	66	< 5	< 10	67	0.03	< 10	< 10	42	5	388
TH1+50N 3+5.0W	201 238	< 1	0.02	18	2230	34	< 5	< 10	150	0.03	< 10	< 10	35	5	310
TH1+50N 3+7.5W	201 238	< 1	0.02	25	2060	30	< 5	< 10	65	0.04	< 10	< 10	49	< 5	374
TH1+50N 4+0.0W	201 238	< 1	0.03	12	1420	14	< 5	< 10	84	< 0.01	< 10	< 10	22	5	94
TH1+50N 4+2.5W	201 238	1	0.03	18	1000	16	< 5	< 10	73	< 0.01	< 10	< 10	21	5	78
TH1+50N 4+5.0W	201 238	< 1	0.08	8	1310	14	< 5	20	93	< 0.01	< 10	< 10	21	< 5	63
TH1+50N 4+7.5W	201 238	1	0.07	14	1160	24	< 5	< 10	82	< 0.01	< 10	< 10	22	< 5	55
TH1+50N 5+0.0W	201 238	3	0.08	8	1420	112	< 5	< 10	68	0.02	< 10	< 10	35	< 5	56
TH1+50N 5+2.5W	201 238	< 1	0.04	26	940	8	< 5	< 10	61	< 0.01	< 10	< 10	27	< 5	77
TH1+50N 5+5.0W	201 238	< 1	0.03	38	1120	46	< 5	< 10	51	< 0.01	< 10	< 10	32	< 5	105
TH2+00N 0+0.0	201 238	< 1	0.03	14	900	36	< 5	< 10	51	0.02	< 10	< 10	31	< 5	100
TH2+00N 0+2.5W	201 238	< 1	0.02	19	570	20	< 5	< 10	34	0.07	< 10	< 10	47	< 5	102
TH2+00N 0+5.0W	201 238	< 1	0.09	10	1420	20	< 5	< 10	94	< 0.01	< 10	< 10	19	< 5	74
TH2+00N 0+7.5W	201 238	< 1	0.02	21	760	20	< 5	< 10	60	0.05	< 10	< 10	40	5	117
TH2+00N 1+0.0W	201 238	< 1	0.06	8	4630	80	45	< 10	238	< 0.01	< 10	< 10	27	5	66
TH2+00N 1+2.5W	201 238	2	0.01	36	1400	36	< 5	< 10	66	0.03	< 10	< 10	44	5	274
TH2+00N 1+5.0W	201 238	22	0.02	13	1570	1305	140	< 10	219	0.01	< 10	< 10	27	10	131
TH2+00N 1+7.5W	201 238	< 1	0.02	28	2150	92	< 5	< 10	80	0.04	< 10	< 10	50	5	289
TH2+00N 2+0.0W	201 238	< 1	0.01	30	1610	60	< 5	< 10	70	0.03	< 10	< 10	50	< 5	174
TH2+00N 2+2.5W	201 238	2	0.01	21	2330	44	< 5	30	74	0.01	< 10	< 10	36	5	410
TH2+00N 2+5.0W	201 238	4	0.03	23	1480	50	< 5	< 10	85	0.01	< 10	< 10	40	< 5	243

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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PHONE (604) 984-0221

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CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TH2+OON 2+7SW	201 238	55	0.68	1.6	210	160	< 0.5	< 2	0.25	1.5	12	4	65	4.48	< 10	2	0.39	10	0.11	465
TH2+OON 3+00W	201 238	< 5	1.60	< 0.2	70	190	< 0.5	< 2	0.32	2.0	22	15	40	3.74	< 10	5	0.21	10	0.44	1820
TH2+OON 3+2SW	201 238	< 5	1.85	< 0.2	80	100	< 0.5	< 2	0.27	< 0.5	17	16	50	3.82	< 10	1	0.19	10	0.63	487
TH2+OON 3+50W	201 238	105	1.86	< 0.2	40	200	< 0.5	< 2	0.31	1.0	13	19	29	2.90	< 10	< 1	0.16	10	0.52	508
TH2+OON 3+7SW	201 238	20	2.09	0.6	85	340	< 0.5	2	0.46	< 0.5	13	11	55	3.69	< 10	< 1	0.21	20	0.64	515
TH2+OON 4+00W	201 238	25	2.49	1.0	15	630	< 0.5	< 2	0.18	0.5	10	17	67	4.66	< 10	2	0.26	10	0.55	346
TH2+OON 4+2SW	201 238	< 5	2.08	< 0.2	5	220	< 0.5	2	0.44	0.5	13	24	23	3.03	< 10	7	0.10	10	0.50	584
TH2+OON 4+50W	201 238	< 5	0.43	< 0.2	20	70	< 0.5	2	2.31	0.5	18	1	23	3.85	< 10	< 1	0.04	< 10	0.29	1935
TH2+OON 4+7SW	201 238	< 5	1.31	0.2	25	100	< 0.5	4	0.33	0.5	24	4	41	3.86	< 10	3	0.09	10	0.49	1035
TH2+OON 5+00W	201 238	90	1.80	0.4	135	160	< 0.5	< 2	0.14	< 0.5	17	5	45	4.54	< 10	3	0.18	10	0.52	456
TH2+OON 5+2SW	201 238	10	1.44	0.4	115	130	< 0.5	< 2	0.25	< 0.5	10	6	36	3.88	< 10	2	0.17	10	0.45	308
TH2+OON 5+50W	201 238	30	1.52	0.2	35	160	< 0.5	< 2	0.18	< 0.5	30	7	49	4.10	< 10	1	0.16	10	0.44	1255
TH2+SON BL	201 238	5	2.23	1.4	20	320	< 0.5	< 2	0.17	0.5	10	27	31	3.36	< 10	7	0.09	10	0.38	301
TH2+SON 0+2SW	201 238	< 5	1.76	1.8	85	150	< 0.5	< 2	0.09	< 0.5	11	16	57	3.91	< 10	1	0.12	10	0.29	243
TH2+SON 0+50W	201 238	< 5	1.05	0.2	55	500	< 0.5	< 2	0.11	< 0.5	20	3	115	9.63	< 10	< 1	0.14	10	0.13	206
TH2+SON 0+7SW	201 238	< 5	0.74	< 0.2	20	80	< 0.5	< 2	0.12	< 0.5	10	8	13	1.74	< 10	1	0.07	< 10	0.15	1415
TH2+SON 1+00W	201 238	< 5	2.12	1.4	50	170	< 0.5	< 2	0.18	0.5	13	24	26	3.32	< 10	5	0.13	10	0.36	329
TH2+SON 1+2SW	201 238	< 5	1.98	0.4	70	180	< 0.5	< 2	0.27	0.5	15	23	34	3.35	< 10	1	0.21	10	0.41	639
TH2+SON 1+50W	201 238	< 5	1.76	0.6	65	120	< 0.5	< 2	0.24	1.5	14	20	54	3.67	< 10	2	0.17	10	0.36	491
TH2+SON 1+7SW	201 238	135	0.99	0.4	85	40	< 0.5	< 2	0.06	< 0.5	29	4	122	7.73	< 10	< 1	0.16	10	0.12	501
TH2+SON 2+00W	201 238	40	1.52	1.2	105	170	< 0.5	2	1.16	2.0	24	13	199	4.03	< 10	1	0.24	20	0.30	2020
TH2+SON 2+2SW	201 238	< 5	2.21	< 0.2	35	310	< 0.5	< 2	0.70	1.0	19	30	50	3.53	< 10	< 1	0.16	10	0.48	1185
TH2+SON 2+50W	201 238	< 5	1.13	< 0.2	35	320	< 0.5	2	0.59	1.5	13	18	41	2.53	< 10	2	0.18	10	0.31	1640
TH2+SON 2+7SW	201 238	< 5	1.69	0.2	60	490	< 0.5	< 2	1.33	10.0	19	21	58	2.92	< 10	2	0.18	10	0.51	1910
TH2+SON 3+00W	201 238	< 5	1.25	< 0.2	85	180	< 0.5	< 2	0.94	11.5	19	10	64	4.00	< 10	< 1	0.21	10	0.25	1195
TH2+SON 3+2SW	201 238	< 5	1.57	1.2	65	150	< 0.5	< 2	0.27	2.0	19	11	97	4.57	< 10	2	0.22	20	0.54	931
TH2+SON 3+50W	201 238	< 5	1.38	1.2	55	170	< 0.5	< 2	0.12	1.5	14	10	98	4.65	< 10	7	0.24	10	0.47	553
TH2+SON 3+7SW	201 238	20	2.07	0.2	105	300	< 0.5	< 2	0.18	< 0.5	10	12	43	3.61	< 10	< 1	0.22	20	0.69	415
TH2+SON 4+00W	201 238	100	2.74	0.2	25	240	< 0.5	< 2	0.07	< 0.5	11	21	38	4.24	< 10	4	0.21	20	0.70	334
TH2+SON 4+2SW	201 238	5	1.89	< 0.2	20	280	< 0.5	< 2	0.52	1.0	14	24	34	3.21	< 10	3	0.24	20	0.62	1245
TH2+SON 4+50W	201 238	< 5	2.28	0.2	5	180	< 0.5	< 2	0.39	1.0	17	29	24	2.99	< 10	4	0.09	10	0.51	619
TH2+SON 4+7SW	201 238	< 5	0.27	< 0.2	< 5	20	< 0.5	< 2	3.85	2.5	2	3	17	0.62	< 10	< 1	0.02	< 10	0.30	417
TH2+SON 5+00W	201 238	< 5	1.57	0.2	20	140	< 0.5	< 2	0.34	0.5	28	5	57	4.19	< 10	4	0.11	20	0.51	1045
TH2+SON 5+2SW	201 238	< 5	1.32	< 0.2	30	130	< 0.5	< 2	0.31	0.5	23	4	43	3.87	< 10	< 1	0.09	10	0.49	1625
TH2+SON 5+50W	201 238	< 5	1.24	< 0.2	20	90	< 0.5	2	0.24	0.5	21	5	37	3.54	< 10	2	0.07	10	0.51	788
TH3+OON BL	201 238	< 5	2.34	0.2	55	100	< 0.5	4	0.13	< 0.5	15	28	54	3.63	< 10	5	0.09	10	0.42	348
TH3+OON 0+2SW	201 238	< 5	2.02	0.2	50	100	< 0.5	2	0.25	< 0.5	14	25	57	3.47	< 10	3	0.09	10	0.40	311
TH3+OON 0+50W	201 238	330	1.31	0.4	230	60	0.5	< 2	0.38	0.5	28	4	159	6.72	< 10	6	0.23	30	0.16	686
TH3+OON 0+7SW	201 238	< 5	2.61	0.4	60	100	< 0.5	< 2	0.17	< 0.5	14	22	52	3.23	< 10	< 1	0.10	10	0.38	537
TH3+OON 1+00W	201 238	60	1.17	0.4	265	70	< 0.5	< 2	0.07	< 0.5	30	5	318	5.89	< 10	< 1	0.22	10	0.10	1540

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: MARK MANAGEMENT LIMITED

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Project: TOP HAT

Comments: ATTN: ART TROUP CC: K AKHURST

Page No. : 3-B

Tot. Pages: 9

Date : 10-AUG-87

Invoice #: I-8718866

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TH2+OON 2+7.5W	201 238	6	0.02	12	1300	84	25	< 10	103	< 0.01	< 10	< 10	15	< 5	287
TH2+OON 3+0.0W	201 238	4	0.03	21	1270	42	5	< 10	66	0.03	< 10	< 10	40	< 5	356
TH2+OON 3+2.5W	201 238	4	0.03	23	1090	26	< 5	< 10	74	0.03	< 10	< 10	40	< 5	199
TH2+OON 3+5.0W	201 238	< 1	0.04	18	720	28	< 5	10	91	0.05	< 10	< 10	45	< 5	237
TH2+OON 3+7.5W	201 238	5	0.04	18	2270	60	5	20	195	0.01	< 10	< 10	28	< 5	109
TH2+OON 4+0.0W	201 238	11	0.11	15	2200	56	5	< 10	176	0.02	< 10	< 10	39	< 5	59
TH2+OON 4+2.5W	201 238	2	0.03	14	1100	24	5	30	88	0.07	< 10	< 10	52	< 5	96
TH2+OON 4+5.0W	201 238	1	0.02	20	1280	2	5	30	340	< 0.01	< 10	< 10	9	< 5	166
TH2+OON 4+7.5W	201 238	1	0.05	17	1460	8	< 5	< 10	97	< 0.01	< 10	< 10	22	< 5	94
TH2+OON 5+0.0W	201 238	4	0.09	13	1350	4	30	< 10	89	< 0.01	< 10	< 10	25	< 5	61
TH2+OON 5+2.5W	201 238	3	0.08	7	1330	10	10	< 10	94	< 0.01	< 10	< 10	22	< 5	54
TH2+OON 5+5.0W	201 238	4	0.08	25	1620	22	5	< 10	76	< 0.01	< 10	< 10	27	< 5	100
TH2+SON BL	201 238	3	0.02	17	840	30	5	20	35	0.05	< 10	< 10	52	< 5	110
TH2+SON 0+2.5W	201 238	5	0.03	17	820	48	10	< 10	42	0.02	< 10	< 10	37	< 5	145
TH2+SON 0+5.0W	201 238	3	0.29	15	2010	20	5	< 10	147	< 0.01	< 10	< 10	44	< 5	144
TH2+SON 0+7.5W	201 238	2	0.04	7	830	16	< 5	10	22	0.04	< 10	< 10	36	< 5	51
TH2+SON 1+0.0W	201 238	3	0.03	21	620	20	5	< 10	36	0.06	< 10	< 10	54	< 5	184
TH2+SON 1+2.5W	201 238	1	0.03	26	1290	16	< 5	< 10	47	0.06	< 10	< 10	43	< 5	242
TH2+SON 1+5.0W	201 238	2	0.02	24	1000	112	10	< 10	45	0.03	< 10	< 10	46	< 5	249
TH2+SON 1+7.5W	201 238	13	0.01	30	770	30	5	< 10	8	< 0.01	< 10	< 10	52	< 5	179
TH2+SON 2+0.0W	201 238	2	0.02	30	1890	460	20	20	60	0.01	< 10	< 10	40	< 5	291
TH2+SON 2+2.5W	201 238	2	0.02	25	1250	34	5	10	57	0.07	< 10	< 10	63	< 5	281
TH2+SON 2+5.0W	201 238	2	0.03	13	1250	20	< 5	< 10	70	0.03	< 10	< 10	44	< 5	252
TH2+SON 2+7.5W	201 238	2	0.03	27	2290	68	< 5	< 10	162	0.03	< 10	< 10	41	< 5	424
TH2+SON 3+0.0W	201 238	5	0.02	26	1680	34	10	< 10	63	0.01	< 10	< 10	38	< 5	843
TH2+SON 3+2.5W	201 238	8	0.04	21	1250	234	20	< 10	73	< 0.01	< 10	< 10	37	< 5	409
TH2+SON 3+5.0W	201 238	6	0.06	15	1200	412	10	< 10	88	0.01	< 10	< 10	33	< 5	325
TH2+SON 3+7.5W	201 238	6	0.05	13	940	40	5	10	152	< 0.01	< 10	< 10	32	< 5	124
TH2+SON 4+0.0W	201 238	8	0.05	17	1060	18	5	< 10	102	0.02	< 10	< 10	37	< 5	92
TH2+SON 4+2.5W	201 238	3	0.04	20	1140	16	< 5	< 10	154	0.04	< 10	< 10	39	< 5	125
TH2+SON 4+5.0W	201 238	1	0.03	23	840	4	5	< 10	61	0.09	< 10	< 10	55	< 5	192
TH2+SON 4+7.5W	201 238	1	0.02	9	950	< 2	10	< 10	391	< 0.01	< 10	< 10	6	< 5	171
TH2+SON 5+0.0W	201 238	2	0.04	24	1020	12	< 5	< 10	104	< 0.01	< 10	< 10	25	< 5	111
TH2+SON 5+2.5W	201 238	1	0.05	15	1220	12	< 5	10	95	< 0.01	< 10	< 10	23	< 5	96
TH2+SON 5+5.0W	201 238	2	0.05	15	1110	12	5	20	71	< 0.01	< 10	< 10	22	< 5	108
TH3+OON BL	201 238	4	0.02	18	760	22	< 5	20	22	0.06	< 10	< 10	54	< 5	145
TH3+OON 0+2.5W	201 238	3	0.02	22	980	24	< 5	40	33	0.04	< 10	< 10	50	< 5	154
TH3+OON 0+5.0W	201 238	7	0.01	35	1900	20	5	< 10	42	< 0.01	< 10	< 10	49	< 5	200
TH3+OON 0+7.5W	201 238	1	0.03	23	1290	24	< 5	20	25	0.05	< 10	< 10	45	< 5	158
TH3+OON 1+0.0W	201 238	2	0.01	36	790	28	5	< 10	11	< 0.01	< 10	< 10	28	< 5	208

CERTIFICATION :

BC



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: MARK MANAGEMENT LIMITED

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Comments: ATTN: ART TROUP CC: K AKHURST

Page No. :4-A

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CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TH3+OON 1+2.5W	201 238	255	0.91	5.4	335	60	< 0.5	< 2	0.15	0.5	37	< 1	1550	9.35	< 10	2	0.18	20	0.09	1690
TH3+OON 1+5.0W	201 238	470	1.44	4.8	2070	80	< 0.5	< 2	0.10	< 0.5	26	8	697	6.92	< 10	< 1	0.18	10	0.23	1320
TH3+OON 1+7.5W	201 238	40	0.96	1.2	260	90	< 0.5	< 2	0.18	0.5	23	5	237	5.37	< 10	1	0.17	10	0.11	1200
TH3+OON 2+0.0W	201 238	< 5	1.06	0.2	15	70	< 0.5	< 2	0.14	< 0.5	7	11	39	1.89	< 10	< 1	0.06	< 10	0.19	381
TH3+OON 2+2.5W	201 238	< 5	0.94	0.2	50	110	< 0.5	< 2	0.12	< 0.5	19	3	75	5.09	< 10	< 1	0.11	< 10	0.08	388
TH3+OON 2+5.0W	201 238	25	1.09	0.4	20	70	< 0.5	< 2	0.37	0.5	22	14	69	4.53	< 10	< 1	0.10	< 10	0.19	1005
TH3+OON 2+7.5W	201 238	55	1.25	1.8	55	100	< 0.5	< 2	0.58	2.0	29	8	123	5.75	< 10	< 1	0.14	20	0.30	1510
TH3+OON 3+0.0W	201 238	240	1.49	7.2	85	130	< 0.5	< 2	0.14	1.5	19	12	271	7.97	< 10	< 1	0.23	20	0.13	562
TH3+OON 3+2.5W	201 238	10	1.08	3.6	80	140	< 0.5	< 2	0.26	0.5	11	12	83	5.01	< 10	< 1	0.41	10	0.23	370
TH3+OON 3+5.0W	201 238	< 5	1.54	1.4	70	200	< 0.5	< 2	0.31	1.0	13	13	88	5.58	< 10	< 1	0.31	20	0.32	469
TH3+SON BL	201 238	< 5	2.07	0.8	85	100	< 0.5	< 2	0.11	0.5	12	23	67	3.87	< 10	< 1	0.13	10	0.29	379
TH3+SON 0+2.5W	201 238	35	1.42	0.4	135	70	< 0.5	< 2	0.03	0.5	14	9	68	6.88	< 10	< 1	0.18	10	0.11	639
TH3+SON 0+5.0W	201 238	15	0.91	0.6	250	100	< 0.5	< 2	0.09	0.5	19	7	156	5.67	< 10	< 1	0.34	20	0.10	1070
TH3+SON 0+7.5W	201 238	50	1.04	0.4	225	130	0.5	< 2	0.05	0.5	13	10	130	6.10	< 10	< 1	0.28	40	0.07	384
TH3+SON 1+0.0W	201 238	345	1.11	0.8	315	40	0.5	< 2	0.09	0.5	24	8	81	7.61	< 10	< 1	0.19	10	0.06	1575
TH3+SON 1+2.5W	201 238	180	0.80	1.2	100	70	< 0.5	< 2	0.32	0.5	38	6	74	8.44	< 10	< 1	0.19	10	0.10	1495
TH3+SON 1+5.0W	201 238	170	0.81	0.6	460	50	< 0.5	< 2	0.56	0.5	23	6	46	5.46	< 10	< 1	0.25	20	0.15	1275
TH3+SON 1+7.5W	201 238	< 5	1.72	0.2	55	120	< 0.5	< 2	0.82	< 0.5	16	22	62	4.22	< 10	< 1	0.16	10	0.39	787
TH3+SON 2+0.0W	201 238	< 5	1.40	0.6	75	70	< 0.5	< 2	0.27	< 0.5	27	10	90	6.39	< 10	< 1	0.31	30	0.39	509
TH3+SON 2+2.5W	201 238	< 5	1.84	0.4	50	280	< 0.5	< 2	0.70	0.5	23	19	67	4.18	< 10	1	0.19	10	0.58	1535
TH4+OON 0+0.0W	201 238	< 5	2.09	0.4	60	110	< 0.5	< 2	0.15	< 0.5	10	27	26	3.65	< 10	< 1	0.10	10	0.31	349
TH4+OON 0+2.5W	201 238	< 5	2.09	1.2	110	120	0.5	< 2	0.16	0.5	11	28	39	3.66	< 10	1	0.11	10	0.31	752
TH4+OON 0+5.0W	201 238	< 5	2.17	0.6	85	90	< 0.5	< 2	0.25	< 0.5	14	33	41	4.32	< 10	< 1	0.15	10	0.49	519
TH4+OON 0+7.5W	201 238	< 5	1.34	0.6	160	140	< 0.5	< 2	0.16	< 0.5	19	17	52	4.88	< 10	< 1	0.25	10	0.21	1725
TH4+OON 1+0.0W	201 238	395	0.49	1.6	295	100	< 0.5	< 2	0.09	< 0.5	13	1	80	6.82	< 10	< 1	0.48	10	0.04	423
TH4+OON 1+2.5W	201 238	< 5	1.30	0.4	65	80	< 0.5	< 2	0.64	0.5	18	15	54	4.27	< 10	< 1	0.15	20	0.19	1620
TH4+OON 1+5.0W	201 238	< 5	1.23	0.4	100	110	< 0.5	< 2	0.21	< 0.5	21	14	56	5.43	< 10	< 1	0.18	10	0.14	1570
TH4+OON 1+7.5W	201 238	< 5	1.10	0.4	35	110	< 0.5	< 2	0.22	< 0.5	11	14	34	3.05	< 10	< 1	0.15	10	0.18	838
TH4+OON 2+0.0W	201 238	< 5	1.50	0.2	50	80	< 0.5	< 2	0.20	< 0.5	16	17	43	4.11	< 10	< 1	0.12	< 10	0.46	438
TH4+SON 0+0.0	201 238	< 5	1.37	0.2	50	160	< 0.5	< 2	0.14	0.5	32	11	139	8.81	< 10	< 1	0.11	30	0.13	1675
TH4+SON 0+2.5W	201 238	< 5	1.55	0.2	70	90	< 0.5	< 2	0.17	0.5	15	15	47	4.34	< 10	< 1	0.15	10	0.19	927
TH4+SON 0+5.0W	201 238	255	1.17	0.6	255	100	< 0.5	< 2	0.05	0.5	10	11	43	4.19	< 10	< 1	0.21	10	0.15	939
TH4+SON 0+7.5W	201 238	20	1.27	0.4	90	70	< 0.5	< 2	0.23	< 0.5	13	12	48	3.60	< 10	< 1	0.13	10	0.16	725
TH4+SON 1+0.0W	201 238	160	2.08	0.8	130	80	< 0.5	< 2	0.22	< 0.5	20	19	69	4.95	< 10	1	0.18	10	0.19	1125
TH4+SON 1+5.0W	201 238	< 5	1.53	0.2	45	170	< 0.5	< 2	0.35	1.0	25	20	61	4.54	< 10	1	0.17	10	0.30	1575
TH4+SON 1+7.5W	201 238	< 5	2.12	0.4	35	120	< 0.5	< 2	0.17	< 0.5	11	26	39	4.19	< 10	< 1	0.12	< 10	0.60	618
TH5+OON 0+0.0W	201 238	310	1.15	0.9	300	90	< 0.5	< 2	0.03	0.5	12	7	57	4.49	< 10	< 1	0.27	10	0.10	994
TH5+OON 0+2.5W	201 238	< 5	1.38	0.6	30	100	< 0.5	< 2	0.14	0.5	7	15	20	3.97	< 10	< 1	0.12	10	0.16	228
TH5+OON 0+5.0W	201 238	< 5	1.87	1.2	50	80	< 0.5	< 2	0.11	0.5	9	23	30	4.32	< 10	< 1	0.08	< 10	0.28	317
TH5+OON 0+7.5W	201 238	< 5	2.06	0.8	35	70	< 0.5	< 2	0.09	0.5	10	23	31	4.02	< 10	< 1	0.10	< 10	0.36	298

CERTIFICATION :



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
 VANCOUVER, B.C.
 V6C 2W2

Project: TOP HAT

Comments: ATTN: ART TROUP CC: K. AKHURST

Page No. : 4-B
 Tot. Pages: 9
 Date : 10-AUG-87
 Invoice #: I-8718866
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TH3-FOON 1+2.5W	201 238	5	0.01	29	1560	64	20	< 10	10	< 0.01	< 10	< 10	37	< 5	292
TH3-FOON 1+5.0W	201 238	5	0.02	25	1230	148	35	< 10	23	< 0.01	< 10	< 10	32	< 5	311
TH3-FOON 1+7.5W	201 238	4	0.01	21	1990	48	< 5	< 10	23	< 0.01	< 10	< 10	29	< 5	171
TH3-FOON 2+0.0W	201 238	2	0.04	8	660	6	< 5	< 10	17	0.06	< 10	< 10	38	< 5	76
TH3-FOON 2+2.5W	201 238	3	0.02	15	1570	30	< 5	< 10	32	< 0.01	< 10	< 10	33	< 5	101
TH3-FOON 2+5.0W	201 238	7	0.01	30	850	58	< 5	< 10	20	< 0.01	< 10	< 10	59	5	145
TH3-FOON 2+7.5W	201 238	3	0.01	35	1600	98	< 5	< 10	31	< 0.01	10	< 10	48	< 5	288
TH3-FOON 3+0.0W	201 238	8	0.05	36	1670	544	15	< 10	76	< 0.01	10	< 10	41	< 5	380
TH3-FOON 3+2.5W	201 238	8	0.02	17	1760	330	25	< 10	85	< 0.01	< 10	< 10	35	5	229
TH3-FOON 3+5.0W	201 238	10	0.03	21	1390	192	5	< 10	93	< 0.01	< 10	< 10	37	< 5	248
TH3-FOON BL	201 238	1	0.01	16	980	48	< 5	< 10	25	0.03	< 10	< 10	42	< 5	127
TH3-FOON 0+2.5W	201 238	< 1	0.01	21	1300	48	< 5	< 10	15	< 0.01	< 10	< 10	17	< 5	212
TH3-FOON 0+5.0W	201 238	9	0.01	23	1470	72	10	< 10	39	< 0.01	< 10	< 10	22	< 5	268
TH3-FOON 0+7.5W	201 238	2	0.05	14	2580	32	< 5	< 10	119	< 0.01	10	< 10	25	< 5	135
TH3-FOON 1+0.0W	201 238	8	< 0.01	32	1960	12	< 5	< 10	17	< 0.01	10	< 10	23	< 5	263
TH3-FOON 1+2.5W	201 238	9	0.03	37	2980	18	< 5	< 10	65	< 0.01	< 10	< 10	19	< 5	103
TH3-FOON 1+5.0W	201 238	4	0.01	24	1790	8	< 5	< 10	56	< 0.01	10	< 10	20	< 5	105
TH3-FOON 1+7.5W	201 238	1	0.02	27	1930	36	< 5	< 10	56	0.02	< 10	< 10	48	< 5	116
TH3-FOON 2+0.0W	201 238	6	0.02	34	1470	20	< 5	< 10	87	< 0.01	< 10	< 10	32	< 5	62
TH3-FOON 2+2.5W	201 238	3	0.02	25	2310	36	< 5	< 10	69	0.01	< 10	< 10	47	< 5	110
TH4-FOON 0+0.0W	201 238	1	0.01	15	780	10	< 5	< 10	20	0.04	< 10	< 10	51	< 5	91
TH4-FOON 0+2.5W	201 238	< 1	0.02	21	1380	18	< 5	< 10	22	0.05	< 10	< 10	53	< 5	118
TH4-FOON 0+5.0W	201 238	3	0.01	26	1130	16	< 5	< 10	27	0.05	< 10	< 10	55	< 5	100
TH4-FOON 0+7.5W	201 238	11	0.01	20	1370	26	< 5	< 10	28	0.01	< 10	< 10	40	< 5	102
TH4-FOON 1+0.0W	201 238	15	0.02	10	1710	46	< 5	< 10	87	< 0.01	< 10	< 10	10	< 5	83
TH4-FOON 1+2.5W	201 238	2	0.02	19	1940	10	< 5	< 10	33	0.02	< 10	< 10	33	5	81
TH4-FOON 1+5.0W	201 238	1	0.06	23	1570	12	< 5	< 10	50	< 0.01	< 10	< 10	38	< 5	86
TH4-FOON 1+7.5W	201 238	1	0.02	14	1280	8	< 5	< 10	48	0.01	< 10	< 10	31	5	57
TH4-FOON 2+0.0W	201 238	2	0.02	21	730	24	< 5	< 10	38	0.01	< 10	< 10	47	< 5	83
TH4-FOON 0+0.0	201 238	< 1	0.02	23	1920	20	< 5	< 10	23	< 0.01	10	< 10	56	< 5	164
TH4-FOON 0+2.5W	201 238	1	0.02	14	1690	18	< 5	< 10	26	0.01	< 10	< 10	39	< 5	158
TH4-FOON 0+5.0W	201 238	4	0.02	9	1020	18	< 5	< 10	32	0.01	< 10	< 10	30	< 5	73
TH4-FOON 0+7.5W	201 238	4	0.01	13	1090	26	< 5	< 10	26	< 0.01	< 10	< 10	34	< 5	83
TH4-FOON 1+0.0W	201 238	6	0.02	24	1170	22	< 5	< 10	55	< 0.01	< 10	< 10	62	< 5	87
TH4-FOON 1+5.0W	201 238	2	0.01	30	1530	42	< 5	< 10	43	< 0.01	< 10	< 10	43	< 5	148
TH4-FOON 1+7.5W	201 238	1	0.03	16	920	130	< 5	< 10	37	0.03	< 10	< 10	58	< 5	128
TH5-FOON 0+0.0W	201 238	3	< 0.01	13	740	32	10	< 10	46	< 0.01	< 10	< 10	17	< 5	180
TH5-FOON 0+2.5W	201 238	2	0.03	9	860	38	< 5	< 10	28	0.01	< 10	< 10	37	< 5	111
TH5-FOON 0+5.0W	201 238	1	0.02	14	900	44	< 5	< 10	22	0.02	< 10	< 10	51	< 5	118
TH5-FOON 0+7.5W	201 238	1	0.02	13	830	66	< 5	< 10	21	0.02	< 10	< 10	51	< 5	128

CERTIFICATION :



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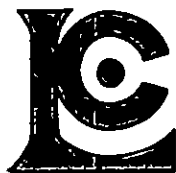
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
IH5+OON 1+00W	201 238	10	1.74	0.6	55	80	< 0.5	2	0.36	1.0	22	22	68	4.45	< 10	< 1	0.14	10	0.55	875
IH5+OON 1+2.5W	201 238	25	2.32	2.0	40	80	< 0.5	< 2	0.08	0.5	11	27	69	4.04	< 10	< 1	0.10	< 10	0.31	573
IH5+OON 1+5.0W	201 238	10	1.95	0.8	40	80	< 0.5	< 2	0.05	1.0	19	17	90	5.38	< 10	< 1	0.10	10	0.21	919
IH5+5QN BL	201 238	< 5	2.03	0.6	35	90	< 0.5	< 2	0.11	0.5	10	27	27	3.73	< 10	< 1	0.09	10	0.40	293
IH5+5QN 0+2.5W	201 238	< 5	1.77	0.8	90	80	< 0.5	2	0.16	< 0.5	10	14	39	3.56	< 10	< 1	0.13	10	0.38	248
IH5+5QN 0+5.0W	201 238	95	1.53	1.2	175	110	< 0.5	< 2	0.39	13.0	15	12	74	3.81	< 10	< 1	0.19	10	0.33	1330
IH5+5QN 0+7.5W	201 238	< 5	1.71	1.8	35	110	< 0.5	2	0.15	0.5	11	22	22	2.89	< 10	< 1	0.09	< 10	0.27	804
IH5+5QN 1+0.0W	201 238	< 5	1.85	0.8	60	70	< 0.5	2	0.08	0.5	10	19	30	3.89	< 10	< 1	0.08	< 10	0.28	349
IH5+5QN 1+2.5W	201 238	< 5	1.64	2.2	150	50	< 0.5	< 2	0.12	< 0.5	14	18	48	4.09	< 10	< 1	0.09	< 10	0.48	323
IH5+5QN 1+5.0W	201 238	< 5	2.03	1.6	25	70	< 0.5	< 2	0.14	0.5	11	24	30	3.82	< 10	< 1	0.08	< 10	0.37	476
IH6+OON BL	201 238	< 5	2.29	0.4	40	180	< 0.5	< 2	0.08	< 0.5	11	20	62	4.68	< 10	< 1	0.13	10	0.43	584
IH6+OON 0+2.5W	201 238	< 5	1.85	0.2	10	160	< 0.5	2	0.35	< 0.5	11	24	22	3.04	< 10	< 1	0.08	< 10	0.35	634
IH6+OON 0+5.0W	201 238	< 5	1.56	1.0	40	90	< 0.5	< 2	0.12	0.5	10	20	40	3.93	< 10	< 1	0.18	< 10	0.30	230
IH6+OON 0+7.5W	201 238	< 5	2.04	0.6	50	110	< 0.5	< 2	0.16	0.5	11	27	27	3.41	< 10	< 1	0.08	10	0.42	301
IH6+OON 1+0.0W	201 238	95	1.18	1.4	105	120	< 0.5	2	0.69	4.0	11	10	65	3.56	< 10	< 1	0.21	10	0.24	1245
IH6+OON 1+2.5W	201 238	5	1.43	0.8	55	100	< 0.5	< 2	0.27	0.5	18	14	52	3.84	< 10	< 1	0.17	10	0.49	870
IH6+OON 1+5.0W	201 238	< 5	1.34	1.4	90	170	< 0.5	< 2	0.34	3.5	15	16	48	3.80	< 10	< 1	0.19	10	0.37	1110
IH6+5QN 1+5.0E	201 238	< 5	1.64	0.2	30	530	< 0.5	< 2	1.29	3.0	22	27	59	3.27	10	< 1	0.19	10	0.55	2480
IH6+5QN BL	201 238	< 5	2.21	0.2	40	160	< 0.5	2	0.09	< 0.5	7	21	30	4.36	< 10	< 1	0.12	10	0.39	219
IH6+5QN 0+2.5W	201 238	< 5	2.20	0.8	15	100	< 0.5	2	0.20	0.5	8	24	19	2.87	< 10	< 1	0.07	< 10	0.35	265
IH6+5QN 0+5.0W	201 238	< 5	3.03	1.0	25	100	< 0.5	2	0.18	< 0.5	11	27	16	2.89	< 10	< 1	0.05	< 10	0.31	490
IH6+5QN 0+7.5W	201 238	< 5	2.08	0.8	35	90	< 0.5	< 2	0.20	0.5	8	27	19	3.26	< 10	< 1	0.06	< 10	0.35	312
IH6+5QN 1+0.0W	201 238	< 5	1.80	0.6	15	150	< 0.5	2	0.80	1.5	11	27	36	3.33	< 10	< 1	0.17	10	0.51	462
IH6+5QN 1+2.5W	201 238	< 5	1.28	0.2	5	760	< 0.5	< 2	1.58	4.0	14	21	47	2.26	< 10	< 1	0.11	10	0.45	2480
IH7+OON 0+0.0E	201 238	< 5	2.47	1.0	30	220	< 0.5	< 2	0.33	0.5	15	32	35	3.68	< 10	< 1	0.07	10	0.52	618
IH7+OON 0+2.5E	201 238	< 5	0.97	0.2	45	80	< 0.5	< 2	0.11	< 0.5	8	12	47	3.12	< 10	< 1	0.09	10	0.22	203
IH7+OON 0+5.0E	201 238	< 5	1.35	0.6	40	170	< 0.5	2	0.11	< 0.5	8	12	45	3.31	< 10	< 1	0.11	10	0.25	211
IH7+OON 0+7.5E	201 238	395	1.49	4.8	865	210	< 0.5	< 2	0.08	1.5	36	6	100	6.44	< 10	< 1	0.35	30	0.09	1610
IH7+OON 1+0.0E	201 238	< 5	2.00	0.6	45	160	< 0.5	2	0.19	< 0.5	10	21	33	3.25	< 10	< 1	0.16	10	0.55	802
IH7+OON 1+2.5E	201 238	< 5	1.44	0.2	30	90	< 0.5	< 2	0.14	< 0.5	8	24	39	2.92	< 10	< 1	0.07	10	0.39	226
IH7+OON 1+5.0E	201 238	< 5	1.74	0.6	25	110	< 0.5	< 2	0.26	< 0.5	8	23	19	3.04	< 10	< 1	0.09	10	0.38	217
IH7+OON 1+7.5E	201 238	< 5	1.46	0.4	25	120	< 0.5	< 2	0.26	1.5	7	22	26	3.56	< 10	< 1	0.07	10	0.29	163
IH7+OON 2+0.0E	201 238	< 5	2.09	0.2	50	180	< 0.5	4	0.37	1.0	12	29	18	3.36	< 10	< 1	0.09	10	0.38	559
IH7+OON 2+2.5E	201 238	< 5	2.58	0.8	45	90	< 0.5	< 2	0.14	< 0.5	10	24	23	3.52	< 10	< 1	0.07	< 10	0.39	289
IH7+OON 2+5.0E	201 238	< 5	1.89	0.4	20	90	< 0.5	2	0.16	< 0.5	9	24	17	3.03	< 10	< 1	0.05	< 10	0.30	245
IH7+OON 0+2.5W	201 238	< 5	2.28	0.2	30	150	< 0.5	< 2	0.45	1.0	12	34	31	3.71	< 10	< 1	0.12	10	0.54	386
IH7+OON 0+5.0W	201 238	< 5	1.94	0.6	55	320	< 0.5	< 2	0.24	0.5	22	18	67	4.66	< 10	< 1	0.22	10	0.47	1760
IH7+OON 0+7.5W	201 238	55	1.03	1.8	90	390	< 0.5	2	0.14	< 0.5	7	9	29	3.05	< 10	< 1	0.32	10	0.13	626
IH7+OON 1+0.0W	201 238	< 5	2.10	0.8	45	280	< 0.5	< 2	0.12	< 0.5	16	21	72	4.70	< 10	< 1	0.20	20	0.39	893
IH7+OON 1+2.5W	201 238	55	1.60	1.0	85	690	< 0.5	< 2	0.08	0.5	17	16	137	8.22	< 10	< 1	0.44	40	0.32	617

CERTIFICATION :

BCJ



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1900 - 999 W. HASTINGS ST.
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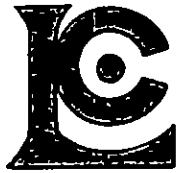
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SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
IH5+OON 1+00W	201 238	1	0.06	25	910	56	5	< 10	91	0.01	< 10	< 10	67	5	158
IH5+OON 1+25W	201 238	2	0.01	16	900	106	< 5	< 10	17	0.03	< 10	< 10	47	< 5	259
IH5+OON 1+50W	201 238	1	< 0.01	25	920	176	5	< 10	17	< 0.01	< 10	< 10	59	< 5	357
IH5+SON BL	201 238	1	0.02	16	640	40	< 5	< 10	22	0.04	< 10	< 10	59	5	133
IH5+SON 0+25W	201 238	2	0.02	14	810	52	< 5	< 10	40	0.01	< 10	< 10	40	< 5	119
IH5+SON 0+50W	201 238	1	0.02	61	1100	64	< 5	< 10	42	< 0.01	< 10	< 10	31	< 5	377
IH5+SON 0+75W	201 238	1	0.02	15	660	30	< 5	< 10	19	0.04	< 10	< 10	49	< 5	158
IH5+SON 1+00W	201 238	< 1	0.02	16	810	66	< 5	< 10	16	0.02	< 10	< 10	47	< 5	137
IH5+SON 1+25W	201 238	2	0.01	17	530	52	5	< 10	22	< 0.01	< 10	< 10	47	< 5	146
IH5+SON 1+50W	201 238	2	0.02	14	890	58	< 5	< 10	23	0.03	< 10	< 10	54	< 5	164
IH6+OON BL	201 238	2	0.06	11	1020	34	< 5	< 10	53	0.01	< 10	< 10	39	5	88
IH6+OON 0+25W	201 238	< 1	0.02	13	660	20	< 5	< 10	51	0.08	< 10	< 10	57	< 5	125
IH6+OON 0+50W	201 238	1	0.02	13	760	70	5	< 10	33	0.02	< 10	< 10	51	< 5	144
IH6+OON 0+75W	201 238	< 1	0.02	18	910	26	< 5	< 10	27	0.04	< 10	< 10	49	< 5	166
IH6+OON 1+00W	201 238	2	0.02	16	1290	42	5	< 10	52	< 0.01	< 10	< 10	23	< 5	292
IH6+OON 1+25W	201 238	1	0.04	20	1550	44	< 5	< 10	51	< 0.01	< 10	< 10	39	< 5	159
IH6+OON 1+50W	201 238	2	0.03	21	1340	44	< 5	< 10	57	0.01	< 10	< 10	37	< 5	179
IH6+SON 1+50E	201 238	< 1	0.02	22	3270	18	< 5	< 10	146	0.02	< 10	< 10	42	5	242
IH6+SON BL	201 238	2	0.03	11	780	28	< 5	< 10	50	0.03	< 10	< 10	56	< 5	95
IH6+SON 0+25W	201 238	< 1	0.03	10	770	10	< 5	< 10	30	0.08	< 10	< 10	46	< 5	110
IH6+SON 0+50W	201 238	< 1	0.03	13	1520	12	< 5	< 10	20	0.08	< 10	< 10	47	< 5	154
IH6+SON 0+75W	201 238	< 1	0.02	13	910	22	< 5	< 10	26	0.07	< 10	< 10	53	< 5	134
IH6+SON 1+00W	201 238	< 1	0.02	21	1750	26	< 5	< 10	76	0.03	< 10	< 10	48	< 5	197
IH6+SON 1+25W	201 238	1	0.02	20	2310	12	< 5	< 10	187	0.03	< 10	< 10	37	5	244
IH7+OON 0+00E	201 238	< 1	0.01	28	890	36	< 5	< 10	48	0.06	< 10	< 10	59	5	178
IH7+OON 0+25E	201 238	2	0.02	8	510	24	5	< 10	35	0.01	< 10	< 10	31	< 5	70
IH7+OON 0+50E	201 238	4	0.04	10	610	38	5	< 10	57	0.01	< 10	< 10	34	< 5	73
IH7+OON 0+75E	201 238	8	0.03	30	1120	20	15	< 10	89	< 0.01	< 10	< 10	11	< 5	229
IH7+OON 1+00E	201 238	1	0.02	13	1050	20	< 5	< 10	57	0.02	< 10	< 10	38	< 5	101
IH7+OON 1+25E	201 238	1	0.02	13	380	16	< 5	< 10	33	0.05	< 10	< 10	44	< 5	67
IH7+OON 1+50E	201 238	1	0.02	13	520	20	< 5	< 10	36	0.04	< 10	< 10	49	< 5	121
IH7+OON 1+75E	201 238	1	0.02	12	720	28	< 5	< 10	36	0.03	< 10	< 10	45	< 5	123
IH7+OON 2+00E	201 238	< 1	0.02	15	870	22	< 5	< 10	38	0.07	< 10	< 10	58	< 5	231
IH7+OON 2+25E	201 238	3	0.03	12	450	12	< 5	< 10	18	0.08	< 10	< 10	67	< 5	114
IH7+OON 2+50E	201 238	1	0.02	12	390	10	< 5	< 10	16	0.10	< 10	< 10	64	< 5	121
IH7+OON 0+25W	201 238	< 1	0.02	20	1360	24	< 5	< 10	51	0.05	< 10	< 10	59	< 5	208
IH7+OON 0+50W	201 238	2	0.02	24	1530	84	5	< 10	61	0.01	< 10	< 10	41	< 5	179
IH7+OON 0+75W	201 238	< 1	0.01	9	880	86	5	< 10	45	< 0.01	< 10	< 10	22	< 5	76
IH7+OON 1+00W	201 238	3	0.04	19	1340	48	5	< 10	50	0.02	< 10	< 10	42	< 5	162
IH7+OON 1+25W	201 238	1	0.14	15	2630	86	10	< 10	92	< 0.01	10	< 10	35	< 5	237

CERTIFICATION :

BCD



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
 VANCOUVER, B.C.
 V6C 2W2

Project : TOP HAT

Comments : ATTN: ART TROUP CC: K AKHURST

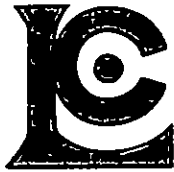
Page No. : 6-A
 Tot. Pages: 9
 Date : 10-AUG-87
 Invoice # : I-8718866
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TH7+OQN 1+50W	201 238	305	1.26	2.2	100	630	< 0.5	< 2	0.21	1.5	19	11	123	5.79	< 10	< 1	0.58	20	0.15	1290
TH7+OQN 1+75W	201 238	115	0.96	3.0	90	320	< 0.5	< 2	0.06	0.5	10	8	49	4.94	< 10	< 1	0.54	10	0.10	662
TH7+OQN 2+00W	201 238	90	1.45	1.0	110	330	< 0.5	< 2	0.22	0.5	49	21	196	8.15	< 10	< 1	0.17	30	0.19	2300
TH7+OQN 2+25W	201 238	< 5	1.50	0.4	75	140	< 0.5	< 2	0.53	0.5	13	20	49	3.37	< 10	< 1	0.22	10	0.42	484
TH7+OQN 2+50W	201 238	< 5	1.76	0.2	40	210	< 0.5	< 2	0.48	0.5	13	26	35	3.17	< 10	< 1	0.17	10	0.46	539
TH7+OQN 2+75W	201 238	< 5	1.49	0.4	60	200	< 0.5	< 2	0.73	0.5	14	20	63	3.30	< 10	< 1	0.21	10	0.39	900
TH7+OQN 3+00W	201 238	15	1.59	0.8	135	120	< 0.5	< 2	0.44	0.5	14	15	61	3.86	< 10	< 1	0.25	10	0.35	528
TH7+OQN 3+25W	201 238	25	1.70	1.0	90	180	< 0.5	< 2	0.38	0.5	16	18	69	3.76	< 10	< 1	0.27	10	0.36	932
TH7+OQN 3+50W	201 238	< 5	1.50	0.4	50	190	< 0.5	2	0.80	1.0	14	19	60	3.71	< 10	< 1	0.21	10	0.38	1035
TH7+SQN 0+00	201 238	< 5	2.19	0.8	15	110	< 0.5	< 2	0.30	0.5	12	34	22	3.06	< 10	1	0.07	10	0.51	243
TH7+SQN 0+25E	201 238	< 5	2.05	0.6	5	150	< 0.5	2	0.16	0.5	9	27	19	3.12	< 10	< 1	0.08	< 10	0.39	438
TH7+SQN 0+50E	201 238	< 5	2.16	0.2	20	160	< 0.5	< 2	0.40	< 0.5	11	29	20	2.78	< 10	1	0.14	10	0.47	804
TH7+SQN 0+75E	201 238	< 5	1.78	0.6	80	200	< 0.5	< 2	0.24	< 0.5	11	26	24	3.63	< 10	< 1	0.14	10	0.36	376
TH7+SQN 1+00E	201 238	< 5	1.89	1.6	120	160	< 0.5	< 2	0.17	1.0	15	23	46	4.32	< 10	< 1	0.14	10	0.32	775
TH7+SQN 1+25E	201 238	< 5	2.00	0.6	45	130	< 0.5	< 2	0.18	< 0.5	10	20	37	3.36	< 10	< 1	0.11	10	0.41	215
TH7+SQN 1+50E	201 238	< 5	1.40	0.4	10	150	< 0.5	< 2	0.20	< 0.5	6	19	11	2.06	< 10	1	0.08	< 10	0.30	171
TH7+SQN 1+75E	201 238	< 5	1.74	0.6	20	120	< 0.5	< 2	0.12	< 0.5	7	21	25	2.95	< 10	< 1	0.07	< 10	0.30	253
TH7+SQN 2+00E	201 238	< 5	2.69	9.4	35	110	< 0.5	< 2	0.14	< 0.5	7	25	21	3.22	< 10	1	0.06	10	0.28	319
TH7+SQN 0+25W	201 238	< 5	1.99	0.4	30	250	< 0.5	< 2	0.49	1.5	13	25	42	3.42	< 10	< 1	0.12	10	0.46	661
TH7+SQN 0+50W	201 238	< 5	1.69	0.2	20	170	< 0.5	< 2	0.52	1.5	12	25	29	3.20	< 10	< 1	0.15	< 10	0.38	572
TH7+SQN 0+75W	201 238	< 5	1.57	0.6	45	220	< 0.5	2	0.15	< 0.5	12	18	61	4.07	< 10	< 1	0.14	10	0.32	385
TH7+SQN 1+00W	201 238	< 5	1.26	1.0	55	130	< 0.5	< 2	0.16	< 0.5	9	16	49	3.54	< 10	< 1	0.16	10	0.26	305
TH7+SQN 1+25W	201 238	< 5	2.40	0.2	30	190	< 0.5	2	0.21	< 0.5	11	24	29	3.28	< 10	< 1	0.12	10	0.35	332
TH7+SQN 1+50W	201 238	15	0.69	0.8	115	240	< 0.5	< 2	0.24	< 0.5	9	12	52	4.12	< 10	< 1	0.27	10	0.18	223
TH7+SQN 1+75W	201 238	< 5	0.99	0.2	85	150	< 0.5	< 2	0.26	< 0.5	12	17	57	3.83	< 10	< 1	0.09	10	0.25	387
TH7+SQN 2+00W	201 238	< 5	1.32	0.6	95	110	< 0.5	< 2	0.42	0.5	11	17	58	3.48	< 10	< 1	0.17	10	0.35	298
TH7+SQN 2+25W	201 238	< 5	1.91	0.6	85	130	< 0.5	< 2	0.26	0.5	17	21	47	3.85	< 10	< 1	0.21	10	0.32	514
TH7+SQN 2+50W	201 238	< 5	2.03	0.2	35	160	< 0.5	2	0.34	0.5	14	31	35	3.62	< 10	< 1	0.16	10	0.46	645
TH7+SQN 2+75W	201 238	< 5	1.55	0.2	25	230	< 0.5	< 2	1.20	1.0	11	27	45	2.63	< 10	< 1	0.20	10	0.49	823
TH7+SQN 3+00W	201 238	< 5	1.14	0.2	65	160	< 0.5	< 2	0.63	0.5	11	14	87	3.09	< 10	< 1	0.21	10	0.29	473
TH8+OQN 3+25W	201 238	20	0.98	0.2	75	90	< 0.5	< 2	0.45	< 0.5	10	8	248	4.02	< 10	< 1	0.18	< 10	0.17	212
TH8+OQN 3+50W	201 238	345	0.92	1.0	110	140	< 0.5	< 2	0.49	< 0.5	12	7	311	4.55	< 10	< 1	0.21	10	0.12	466
TH8+OQN 0+00E	201 238	< 5	2.00	1.0	30	160	< 0.5	< 2	0.15	< 0.5	12	25	26	3.36	< 10	1	0.08	10	0.31	529
TH8+OQN 0+25E	201 238	< 5	2.34	0.8	25	180	< 0.5	2	0.19	0.5	10	25	26	3.30	< 10	< 1	0.10	10	0.35	199
TH8+OQN 0+50E	201 238	< 5	1.92	0.4	50	210	< 0.5	< 2	0.37	0.5	12	17	53	3.56	< 10	< 1	0.15	10	0.34	860
TH8+OQN 0+75E	201 238	< 5	2.05	0.8	35	150	< 0.5	< 2	0.15	< 0.5	10	27	29	3.31	< 10	< 1	0.07	< 10	0.34	322
TH8+OQN 1+00E	201 238	< 5	1.55	0.4	55	130	< 0.5	2	0.23	< 0.5	9	14	40	3.41	< 10	< 1	0.16	10	0.33	252
TH8+OQN 1+25E	201 238	10	1.79	0.6	65	140	< 0.5	< 2	0.32	< 0.5	12	28	43	3.59	< 10	< 1	0.19	10	0.47	409
TH8+OQN 1+50E	201 238	80	2.24	2.8	65	130	< 0.5	< 2	0.17	0.5	18	24	45	4.90	< 10	< 1	0.11	10	0.32	833
TH8+OQN 1+75E	201 238	< 5	1.95	0.6	10	130	< 0.5	< 2	0.25	0.5	9	23	31	3.19	< 10	1	0.08	10	0.32	235

CERTIFICATION :

BCO



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
 VANCOUVER, B.C.
 V6C 2W2

Project : TOP HAT

Comments: ATTN: ART TROUP CC: K AKHURST

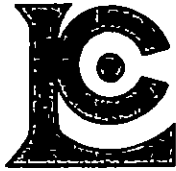
Page No. : 6-B
 Tot. Pages: 9
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 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TH7+OQN 1+50W	201 238	2	0.03	20	1210	126	15	< 10	47	< 0.01	< 10	< 10	28	< 5	212
TH7+OQN 1+75W	201 238	9	0.02	12	1270	142	10	< 10	51	< 0.01	< 10	< 10	20	< 5	149
TH7+OQN 2+00W	201 238	5	0.01	44	1280	42	10	< 10	25	< 0.01	10	< 10	63	5	306
TH7+OQN 2+25W	201 238	2	0.02	19	1250	20	5	< 10	51	0.03	< 10	< 10	41	< 5	107
TH7+OQN 2+50W	201 238	< 1	0.01	24	1520	24	< 5	< 10	43	0.04	< 10	< 10	43	< 5	155
TH7+OQN 2+75W	201 238	1	0.01	22	1700	20	< 5	< 10	49	0.03	< 10	< 10	38	< 5	124
TH7+OQN 3+00W	201 238	4	0.02	24	1190	32	5	< 10	39	0.03	< 10	< 10	37	< 5	135
TH7+OQN 3+25W	201 238	3	0.01	22	1400	30	5	< 10	38	0.03	< 10	< 10	36	< 5	138
TH7+OQN 3+50W	201 238	4	0.02	22	1990	28	5	< 10	56	0.02	< 10	< 10	41	< 5	162
TH7+5QN 0+00	201 238	< 1	0.02	24	430	10	< 5	< 10	39	0.09	< 10	< 10	65	< 5	122
TH7+5QN 0+25E	201 238	2	0.01	15	890	18	< 5	< 10	23	0.03	< 10	< 10	45	< 5	126
TH7+5QN 0+50E	201 238	1	0.01	18	1100	10	< 5	< 10	54	0.05	< 10	< 10	50	< 5	130
TH7+5QN 0+75E	201 238	1	0.02	15	820	34	5	< 10	48	0.04	< 10	< 10	48	5	152
TH7+5QN 1+00E	201 238	< 1	0.01	22	1280	28	5	< 10	31	0.02	< 10	< 10	38	< 5	263
TH7+5QN 1+25E	201 238	1	0.02	12	840	42	< 5	< 10	46	0.03	< 10	< 10	40	< 5	93
TH7+5QN 1+50E	201 238	1	0.02	9	270	20	< 5	< 10	35	0.06	< 10	< 10	47	< 5	67
TH7+5QN 1+75E	201 238	2	0.02	10	820	22	< 5	< 10	25	0.04	< 10	< 10	45	< 5	75
TH7+5QN 2+00E	201 238	1	0.02	9	1080	16	< 5	< 10	24	0.06	< 10	< 10	44	5	88
TH7+5QN 0+25W	201 238	1	0.02	26	1130	22	< 5	< 10	72	0.04	< 10	< 10	48	< 5	201
TH7+5QN 0+50W	201 238	< 1	0.02	17	1110	22	< 5	< 10	87	0.04	< 10	< 10	58	< 5	173
TH7+5QN 0+75W	201 238	3	0.04	20	990	38	< 5	< 10	47	0.02	< 10	< 10	39	< 5	140
TH7+5QN 1+00W	201 238	3	0.02	15	900	48	< 5	< 10	31	0.01	< 10	< 10	37	< 5	149
TH7+5QN 1+25W	201 238	< 1	0.02	19	850	24	< 5	< 10	31	0.05	< 10	< 10	46	5	166
TH7+5QN 1+50W	201 238	4	0.02	7	940	38	10	< 10	50	0.01	< 10	< 10	33	< 5	88
TH7+5QN 1+75W	201 238	2	0.01	16	660	14	5	< 10	28	0.01	< 10	< 10	39	< 5	76
TH7+5QN 2+00W	201 238	4	0.01	16	860	46	< 5	< 10	37	0.02	< 10	< 10	39	< 5	114
TH7+5QN 2+25W	201 238	1	0.01	30	840	26	< 5	< 10	28	0.03	< 10	< 10	42	< 5	127
TH7+5QN 2+50W	201 238	< 1	0.01	18	1610	16	< 5	< 10	31	0.04	< 10	< 10	57	< 5	184
TH7+5QN 2+75W	201 238	1	0.01	20	1630	12	< 5	< 10	70	0.04	< 10	< 10	46	< 5	137
TH7+5QN 3+00W	201 238	2	0.01	16	1490	16	5	< 10	48	0.01	< 10	< 10	34	< 5	113
TH7+5QN 3+25W	201 238	5	0.01	14	1020	26	5	< 10	31	< 0.01	< 10	< 10	30	< 5	99
TH7+5QN 3+50W	201 238	3	0.01	16	800	36	15	< 10	33	< 0.01	< 10	< 10	28	< 5	130
TH8+OQN 0+00E	201 238	< 1	0.02	13	530	26	< 5	< 10	23	0.05	< 10	< 10	58	5	136
TH8+OQN 0+25E	201 238	< 1	0.02	18	550	28	< 5	< 10	31	0.05	< 10	< 10	53	< 5	161
TH8+OQN 0+50E	201 238	1	0.03	13	1600	28	< 5	< 10	84	0.02	< 10	< 10	39	5	118
TH8+OQN 0+75E	201 238	1	0.02	11	660	26	5	< 10	25	0.05	< 10	< 10	52	< 5	121
TH8+OQN 1+00E	201 238	3	0.02	11	1190	42	5	< 10	55	0.01	< 10	< 10	38	< 5	105
TH8+OQN 1+25E	201 238	2	0.02	18	600	30	5	< 10	59	0.04	< 10	< 10	51	5	83
TH8+OQN 1+50E	201 238	2	0.02	17	1190	24	< 5	< 10	40	0.03	< 10	< 10	50	< 5	135
TH8+OQN 1+75E	201 238	3	0.02	10	960	10	< 5	< 10	41	0.06	< 10	< 10	56	< 5	81

CERTIFICATION :

BCOB



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To : MARK MANAGEMENT LIMITED

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Comments: ATTN: ART TROUP CC: K AKHURST

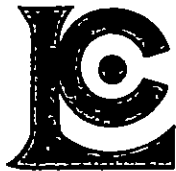
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CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TH8+OON 2+00E	201 238	< 5	2.29	0.6	25	140	< 0.5	2	0.17	< 0.5	11	21	39	3.12	< 10	< 1	0.08	10	0.44	204
TH8+OON 0+2.5W	201 238	< 5	2.20	0.2	30	160	< 0.5	2	0.32	< 0.5	12	38	27	3.77	< 10	< 1	0.12	10	0.51	286
TH8+OON 0+5.0W	201 238	< 5	2.50	0.4	25	110	< 0.5	< 2	0.28	< 0.5	10	30	25	2.98	< 10	< 1	0.11	< 10	0.44	215
TH8+OON 0+7.5W	201 238	< 5	2.00	1.2	20	210	< 0.5	2	0.12	< 0.5	6	16	35	3.42	< 10	< 1	0.14	10	0.23	246
TH8+OON 1+0.0W	201 238	< 5	2.12	0.8	45	210	< 0.5	2	0.10	< 0.5	7	20	39	3.97	< 10	< 1	0.14	10	0.26	175
TH8+OON 1+2.5W	201 238	< 5	2.25	0.4	10	130	< 0.5	< 2	0.13	0.5	7	21	25	3.23	< 10	< 1	0.07	< 10	0.27	204
TH8+OON 1+5.0W	201 238	< 5	2.30	0.4	10	180	< 0.5	2	0.29	0.5	11	33	22	3.23	< 10	< 1	0.09	10	0.44	388
TH8+OON 1+7.5W	201 238	< 5	2.15	0.2	15	150	< 0.5	< 2	0.40	< 0.5	13	35	28	3.18	< 10	< 1	0.09	< 10	0.58	494
TH8+OON 2+0.0W	201 238	25	2.08	0.2	25	110	< 0.5	< 2	0.27	< 0.5	9	25	44	2.33	< 10	< 1	0.09	10	0.52	235
TH8+OON 2+2.5W	201 238	15	2.11	0.8	65	120	< 0.5	< 2	0.17	< 0.5	10	26	49	3.69	< 10	< 1	0.11	< 10	0.40	348
TH8+OON 2+5.0W	201 238	< 5	1.98	0.2	15	120	< 0.5	< 2	0.35	< 0.5	10	33	26	2.93	< 10	< 1	0.07	< 10	0.57	310
TH8+SON 0+0.0	201 238	< 5	3.73	0.4	25	90	< 0.5	2	0.16	< 0.5	17	35	48	4.02	< 10	< 1	0.05	< 10	0.56	230
TH8+SON 0+2.5E	201 238	< 5	3.01	1.2	15	140	< 0.5	< 2	0.28	< 0.5	12	37	27	3.30	< 10	< 1	0.11	10	0.57	244
TH8+SON 0+5.0E	201 238	< 5	2.92	0.6	25	100	< 0.5	< 2	0.18	< 0.5	11	36	27	3.48	< 10	< 1	0.08	10	0.50	220
TH8+SON 0+7.5E	201 238	< 5	1.92	0.4	10	110	< 0.5	< 2	0.17	< 0.5	6	27	16	2.54	< 10	< 1	0.06	10	0.31	163
TH8+SON 1+0.0E	201 238	< 5	1.76	0.4	35	210	< 0.5	< 2	0.30	0.5	10	19	40	3.35	< 10	< 1	0.13	10	0.41	355
TH8+SON 1+2.5E	201 238	< 5	1.21	0.6	55	130	< 0.5	< 2	0.11	0.5	8	13	45	3.48	< 10	1	0.12	< 10	0.28	233
TH8+SON 1+5.0E	201 238	< 5	1.48	0.4	25	250	< 0.5	< 2	0.45	0.5	10	24	26	2.73	< 10	< 1	0.07	< 10	0.35	893
TH8+SON 1+7.5E	201 238	< 5	1.88	0.6	25	190	< 0.5	< 2	0.38	0.5	11	21	24	3.13	< 10	< 1	0.13	< 10	0.39	449
TH8+SON 2+0.0E	201 238	< 5	2.34	0.6	35	140	< 0.5	< 2	0.23	< 0.5	10	28	26	3.21	10	< 1	0.11	10	0.43	203
TH8+SON 2+2.5E	201 238	< 5	2.77	0.4	35	100	< 0.5	< 2	0.18	< 0.5	10	24	19	2.98	10	< 1	0.08	10	0.36	173
TH8+SON 2+5.0E	201 238	< 5	2.56	0.8	20	110	< 0.5	2	0.37	< 0.5	12	27	31	3.15	10	< 1	0.08	10	0.46	216
TH8+SON 2+7.5E	201 238	< 5	2.22	1.2	40	120	< 0.5	< 2	0.16	< 0.5	11	27	36	3.73	< 10	< 1	0.10	10	0.42	514
TH8+SON 3+0.0E	201 238	5	1.75	1.4	50	150	< 0.5	< 2	0.09	< 0.5	8	20	34	4.20	< 10	< 1	0.13	10	0.42	196
TH8+SON 3+2.5E	201 238	< 5	2.03	1.4	35	150	< 0.5	2	0.13	< 0.5	10	32	37	4.16	< 10	< 1	0.09	< 10	0.42	208
TH8+SON 3+5.0E	201 238	< 5	2.14	2.4	25	110	< 0.5	2	0.16	< 0.5	9	28	32	3.27	< 10	< 1	0.09	10	0.43	191
TH8+SON 0+2.5W	201 238	< 5	2.23	0.2	10	130	< 0.5	2	0.30	0.5	11	33	20	2.93	10	< 1	0.14	< 10	0.46	333
TH8+SON 0+5.0W	201 238	< 5	1.86	0.4	25	160	< 0.5	2	0.45	< 0.5	8	29	41	2.65	10	< 1	0.08	10	0.37	423
TH8+SON 0+7.5W	201 238	< 5	1.92	0.2	25	100	< 0.5	4	0.48	< 0.5	11	32	30	3.01	10	< 1	0.09	10	0.50	251
TH8+SON 1+0.0W	201 238	< 5	2.09	0.4	25	190	< 0.5	2	0.56	< 0.5	10	36	20	3.04	10	< 1	0.13	10	0.50	328
TH8+SON 1+2.5W	201 238	< 5	2.10	0.4	35	120	< 0.5	4	0.31	< 0.5	10	33	21	3.31	10	< 1	0.10	10	0.47	243
TH8+SON 1+5.0W	201 238	< 5	2.12	0.2	40	100	< 0.5	< 2	0.34	< 0.5	11	31	23	3.04	10	< 1	0.09	< 10	0.45	359
TH8+SON 1+7.5W	201 238	< 5	2.02	0.2	35	210	< 0.5	< 2	0.47	< 0.5	13	34	32	3.22	10	< 1	0.09	10	0.56	391
TH8+SON 2+0.0W	201 238	< 5	1.83	0.2	25	160	< 0.5	< 2	0.33	< 0.5	15	35	26	3.02	10	< 1	0.09	10	0.47	1325
TH8+SON 2+2.5W	201 238	< 5	2.47	0.2	20	150	< 0.5	< 2	0.22	< 0.5	13	31	28	2.81	10	1	0.06	10	0.39	1110
TH8+SON 2+5.0W	201 238	< 5	2.09	0.2	45	130	< 0.5	2	0.27	< 0.5	11	31	39	3.31	10	1	0.10	< 10	0.47	312
TH8+SON 2+7.5W	201 238	< 5	2.80	0.2	35	130	< 0.5	< 2	0.20	< 0.5	12	36	48	3.86	10	< 1	0.10	10	0.52	633
TH8+SON 3+0.0W	201 238	< 5	3.03	0.2	30	160	< 0.5	< 2	0.30	< 0.5	13	32	40	3.25	10	< 1	0.12	10	0.46	1320
TH8+SON 3+2.5W	201 238	< 5	1.64	0.2	55	140	< 0.5	2	0.58	0.5	14	20	78	3.78	10	< 1	0.16	10	0.49	744
TH8+SON 3+5.0W	201 238	< 5	1.87	0.4	95	120	< 0.5	< 2	0.33	< 0.5	20	16	70	4.18	< 10	< 1	0.15	10	0.51	995

CERTIFICATION :

BCO



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 2W2

Project: TOP HAT

Comments: ATTN: ART TROUP CC: K AKHURST

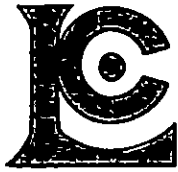
Page No. 7-B
Tot. Pages. 9
Date: 10-AUG-87
Invoice #: I-8718866
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
IHS+OON 2+0OE	201 238	2	0.01	16	500	16	< 5	< 10	48	0.03	< 10	< 10	42	< 5	67
IHS+OON 0+2SW	201 238	1	0.01	20	1430	16	< 5	< 10	36	0.06	< 10	< 10	65	< 5	128
IHS+OON 0+5OW	201 238	< 1	0.02	18	1510	12	< 5	< 10	33	0.06	< 10	< 10	55	< 5	93
IHS+OON 0+7SW	201 238	2	0.04	7	950	44	5	< 10	39	0.02	< 10	< 10	41	< 5	89
IHS+OON 1+0OW	201 238	2	0.04	8	1030	26	15	< 10	47	0.02	< 10	< 10	45	< 5	86
IHS+OON 1+2SW	201 238	1	0.02	9	660	18	5	< 10	27	0.06	< 10	< 10	50	< 5	82
IHS+OON 1+5OW	201 238	< 1	0.01	16	890	30	< 5	< 10	31	0.08	< 10	< 10	61	5	196
IHS+OON 1+7SW	201 238	< 1	0.01	18	1620	4	< 5	< 10	55	0.04	< 10	< 10	62	5	101
IHS+OON 2+0OW	201 238	1	0.01	13	1340	20	< 5	< 10	24	0.03	< 10	< 10	48	< 5	92
IHS+OON 2+2SW	201 238	1	0.01	13	850	50	< 5	< 10	20	0.03	< 10	< 10	49	< 5	113
IHS+OON 2+5OW	201 238	< 1	0.01	18	1470	< 2	< 5	< 10	41	0.05	< 10	< 10	56	5	69
IHS+SON 0+0O	201 238	< 1	0.04	26	1220	14	< 5	< 10	29	0.04	< 10	< 10	86	5	169
IHS+SON 0+2SE	201 238	< 1	0.01	22	930	14	< 5	< 10	43	0.08	< 10	< 10	64	5	106
IHS+SON 0+5OE	201 238	< 1	0.01	15	480	12	< 5	< 10	33	0.08	< 10	< 10	68	5	85
IHS+SON 0+7SE	201 238	< 1	0.02	9	550	14	< 5	< 10	23	0.08	< 10	< 10	55	< 5	67
IHS+SON 1+0OE	201 238	1	0.02	12	1220	40	5	< 10	72	0.01	< 10	< 10	40	5	138
IHS+SON 1+2SE	201 238	1	0.02	11	880	60	5	< 10	37	0.01	< 10	< 10	37	5	153
IHS+SON 1+5OE	201 238	< 1	0.02	15	1360	18	< 5	< 10	61	0.05	< 10	< 10	41	5	154
IHS+SON 1+7SE	201 238	< 1	0.02	18	1070	30	5	< 10	73	0.03	< 10	< 10	40	5	123
IHS+SON 2+0OE	201 238	< 1	0.02	19	620	24	< 5	< 10	45	0.04	< 10	< 10	47	< 5	107
IHS+SON 2+2SE	201 238	< 1	0.02	16	610	22	< 5	< 10	32	0.06	< 10	< 10	45	< 5	109
IHS+SON 2+5OE	201 238	< 1	0.02	18	570	16	< 5	< 10	56	0.05	< 10	< 10	49	< 5	82
IHS+SON 2+7SE	201 238	< 1	0.02	15	1430	18	< 5	< 10	37	0.03	< 10	< 10	48	< 5	98
IHS+SON 3+0OE	201 238	1	0.03	12	940	34	10	< 10	53	0.01	< 10	< 10	40	< 5	57
IHS+SON 3+2SE	201 238	< 1	0.02	17	1060	16	5	< 10	47	0.03	< 10	< 10	49	< 5	73
IHS+SON 3+5OE	201 238	1	0.01	13	780	32	5	< 10	32	0.04	< 10	< 10	44	< 5	120
IHS+SON 0+2SW	201 238	< 1	0.02	16	1420	18	< 5	< 10	38	0.06	< 10	< 10	59	< 5	106
IHS+SON 0+5OW	201 238	< 1	0.03	14	1050	26	5	< 10	55	0.06	< 10	< 10	45	< 5	105
IHS+SON 0+7SW	201 238	< 1	0.01	18	1290	6	< 5	< 10	48	0.05	< 10	< 10	61	< 5	66
IHS+SON 1+0OW	201 238	< 1	0.02	17	1820	14	< 5	< 10	59	0.08	< 10	< 10	62	< 5	124
IHS+SON 1+2SW	201 238	< 1	0.02	17	830	16	< 5	< 10	35	0.07	< 10	< 10	62	< 5	101
IHS+SON 1+5OW	201 238	< 1	0.02	18	880	18	< 5	< 10	43	0.05	< 10	< 10	59	< 5	94
IHS+SON 1+7SW	201 238	< 1	0.02	22	1110	12	< 5	< 10	57	0.05	< 10	< 10	62	< 5	75
IHS+SON 2+0OW	201 238	< 1	0.02	22	790	10	< 5	< 10	38	0.07	< 10	< 10	64	< 5	99
IHS+SON 2+2SW	201 238	1	0.02	17	800	8	< 5	< 10	23	0.06	< 10	< 10	53	< 5	93
IHS+SON 2+5OW	201 238	1	0.02	18	880	12	5	< 10	46	0.05	< 10	< 10	61	< 5	91
IHS+SON 2+7SW	201 238	1	0.02	19	1070	14	< 5	< 10	19	0.06	< 10	< 10	64	< 5	173
IHS+SON 3+0OW	201 238	1	0.03	23	1720	8	< 5	< 10	25	0.08	< 10	< 10	53	< 5	167
IHS+SON 3+2SW	201 238	2	0.02	20	1480	16	< 5	< 10	50	0.01	< 10	< 10	45	< 5	113
IHS+SON 3+5OW	201 238	4	0.02	22	1310	38	< 5	< 10	36	0.01	< 10	< 10	35	< 5	125

CERTIFICATION :

BCof



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 2W2

Project: TOP HAT

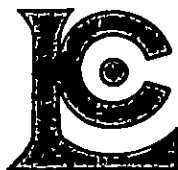
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Page No. 8-A
Tot. Pages: 9
Date: 10-AUG-87
Invoice #: I-8718866
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA-AA	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TH9+OON 0+00	201 238	< 5	1.79	0.4	50	150	< 0.5	2	0.26	< 0.5	10	19	47	3.52	10	< 1	0.13	< 10	0.34	292
TH9+OON 0+25E	201 238	< 5	2.16	0.4	25	160	< 0.5	< 2	0.40	< 0.5	11	33	16	2.80	10	< 1	0.09	10	0.42	236
TH9+OON 0+50E	201 238	< 5	1.92	0.4	25	180	< 0.5	< 2	0.54	0.5	10	32	33	3.20	10	< 1	0.09	< 10	0.46	248
TH9+OON 0+75E	201 238	< 5	1.52	0.8	20	240	< 0.5	< 2	0.39	0.5	8	19	37	1.90	< 10	< 1	0.10	< 10	0.32	586
TH9+OON 1+00E	201 238	< 5	1.61	1.2	45	300	< 0.5	< 2	0.19	0.5	13	19	51	3.58	< 10	< 1	0.11	10	0.33	1725
TH9+OON 1+25E	201 238	< 5	1.86	1.0	45	140	< 0.5	< 2	0.15	< 0.5	9	21	39	3.46	< 10	< 1	0.09	10	0.33	254
TH9+OON 1+50E	201 238	< 5	2.13	1.0	30	130	< 0.5	< 2	0.18	< 0.5	10	26	19	2.82	< 10	< 1	0.09	< 10	0.38	341
TH9+OON 1+75E	201 238	< 5	1.61	0.4	10	280	< 0.5	< 2	0.30	1.0	11	20	35	1.95	< 10	< 1	0.17	< 10	0.25	3070
TH9+OON 2+00E	201 238	< 5	2.40	0.4	15	170	< 0.5	< 2	0.29	0.5	12	33	18	2.93	10	1	0.09	10	0.40	863
TH9+OON 0+25W	201 238	< 5	2.46	0.6	25	120	< 0.5	< 2	0.27	< 0.5	9	35	34	2.69	10	< 1	0.07	10	0.49	224
TH9+OON 0+50W	201 238	< 5	1.71	0.2	15	270	< 0.5	< 2	0.38	1.0	13	30	37	2.63	< 10	< 1	0.12	10	0.38	1430
TH9+OON 0+75W	201 238	< 5	2.00	0.8	5	130	< 0.5	< 2	0.30	< 0.5	7	27	15	2.63	10	1	0.04	< 10	0.25	375
TH9+OON 1+00W	201 238	< 5	2.37	0.8	20	100	< 0.5	< 2	0.34	< 0.5	11	34	21	3.09	< 10	< 1	0.05	10	0.43	214
TH9+OON 1+25W	201 238	< 5	1.54	1.0	70	90	< 0.5	2	0.27	< 0.5	8	15	54	3.09	< 10	< 1	0.09	< 10	0.29	191
TH9+OON 1+50W	201 238	< 5	2.63	0.8	5	160	< 0.5	< 2	0.24	< 0.5	10	32	18	2.63	10	< 1	0.06	10	0.39	233
TH9+OON 1+75W	201 238	< 5	2.27	0.6	75	120	< 0.5	< 2	0.11	< 0.5	7	20	19	2.36	< 10	< 1	0.08	< 10	0.18	338
TH9+OON 2+00W	201 238	< 5	1.76	0.4	105	110	< 0.5	< 2	0.21	< 0.5	12	22	42	3.33	< 10	< 1	0.09	< 10	0.43	270
TH9+OON 2+25W	201 238	< 5	1.91	0.8	30	120	< 0.5	< 2	0.34	< 0.5	10	31	21	2.77	< 10	< 1	0.06	10	0.41	286
TH9+OON 2+50W	201 238	< 5	2.21	0.6	100	250	< 0.5	< 2	0.35	< 0.5	13	21	43	3.58	< 10	< 1	0.17	10	0.35	368
TH9+OON 2+75W	201 238	< 5	1.75	0.6	10	200	< 0.5	< 2	0.49	0.5	12	37	21	2.84	10	< 1	0.09	10	0.49	612
TH9+OON 3+00W	201 238	< 5	0.98	0.2	90	80	< 0.5	< 2	0.15	< 0.5	13	16	60	4.17	< 10	< 1	0.16	< 10	0.17	289
TH9+OON 3+25W	201 238	< 5	2.33	0.6	25	210	< 0.5	< 2	0.29	0.5	17	28	38	3.05	10	< 1	0.15	10	0.41	2800
TH9+OON 3+50W	201 238	< 5	2.01	0.2	10	110	< 0.5	< 2	0.31	< 0.5	8	27	19	2.61	10	< 1	0.08	10	0.34	405
TH9+SON 0+00	201 238	< 5	1.42	0.2	55	130	< 0.5	< 2	0.23	< 0.5	8	15	37	2.85	< 10	< 1	0.13	< 10	0.30	250
TH9+SON 0+25E	201 238	< 5	1.90	0.6	50	110	< 0.5	< 2	0.15	< 0.5	12	21	37	3.52	< 10	< 1	0.09	< 10	0.42	274
TH9+SON 0+50E	201 238	< 5	1.30	0.4	65	140	< 0.5	< 2	0.31	< 0.5	11	16	52	3.15	< 10	< 1	0.11	< 10	0.36	313
TH9+SON 0+75E	201 238	< 5	1.54	0.4	50	170	< 0.5	< 2	0.32	< 0.5	9	20	24	2.89	< 10	< 1	0.11	< 10	0.34	319
TH9+SON 1+00E	201 238	< 5	1.57	1.2	70	140	< 0.5	< 2	0.29	< 0.5	10	13	62	3.90	< 10	< 1	0.13	10	0.35	299
TH9+SON 1+25E	201 238	< 5	2.03	0.4	50	200	< 0.5	< 2	0.47	0.5	12	21	43	4.05	< 10	< 1	0.12	10	0.47	344
TH9+SON 1+50E	201 238	< 5	2.47	0.4	20	190	< 0.5	< 2	0.36	0.5	15	32	32	3.53	< 10	< 1	0.14	10	0.50	568
TH9+SON 1+75E	201 238	< 5	2.02	1.4	30	230	< 0.5	< 2	0.43	0.5	12	25	28	3.13	< 10	< 1	0.17	10	0.47	506
TH9+SON 2+00E	201 238	< 5	2.76	0.6	45	150	< 0.5	< 2	0.33	< 0.5	13	25	24	3.15	< 10	< 1	0.09	10	0.39	331
TH9+SON 0+25W	201 238	< 5	2.09	0.6	50	170	< 0.5	< 2	0.20	< 0.5	10	21	36	3.41	< 10	< 1	0.11	10	0.39	245
TH9+SON 0+50W	201 238	< 5	2.71	0.4	10	110	< 0.5	< 2	0.19	< 0.5	9	30	18	2.80	< 10	< 1	0.05	< 10	0.35	156
TH9+SON 0+75W	201 238	< 5	1.87	0.8	30	110	< 0.5	< 2	0.18	< 0.5	8	22	27	2.80	< 10	< 1	0.05	< 10	0.36	158
TH9+SON 1+00W	201 238	< 5	2.40	0.8	15	120	< 0.5	< 2	0.32	< 0.5	9	29	18	2.78	< 10	< 1	0.07	10	0.38	382
TH9+SON 1+25W	201 238	< 5	1.66	0.8	20	120	< 0.5	< 2	0.19	< 0.5	8	23	27	2.78	< 10	< 1	0.06	< 10	0.32	170
TH9+SON 1+50W	201 238	< 5	1.76	0.4	40	120	< 0.5	< 2	0.40	< 0.5	12	27	32	3.31	< 10	< 1	0.10	10	0.40	396
TH9+SON 1+75W	201 238	< 5	1.81	0.2	< 5	220	< 0.5	< 2	0.37	0.5	10	27	19	2.44	< 10	< 1	0.12	< 10	0.41	520
TH9+SON 2+00W	201 238	< 5	1.14	0.4	40	170	< 0.5	< 2	0.28	< 0.5	9	20	41	3.13	< 10	< 1	0.11	< 10	0.34	270

CERTIFICATION :



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Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

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V6C 2W2

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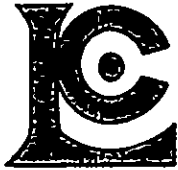
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CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mb ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TH9+00N 0+00	201 238	< 1	0.02	13	1200	64	120	< 10	44	0.02	< 10	< 10	42	< 5	120
TH9+00N 0+25E	201 238	< 1	0.02	18	1370	12	< 5	< 10	48	0.09	< 10	< 10	56	< 5	153
TH9+00N 0+50E	201 238	< 1	0.02	17	790	14	< 5	< 10	82	0.03	< 10	< 10	55	< 5	93
TH9+00N 0+75E	201 238	< 1	0.03	14	670	38	5	< 10	54	0.03	< 10	< 10	36	< 5	93
TH9+00N 1+00E	201 238	< 1	0.02	17	1250	36	< 5	< 10	46	0.01	< 10	< 10	44	< 5	210
TH9+00N 1+25E	201 238	< 1	0.02	13	820	40	10	< 10	38	0.02	< 10	< 10	46	< 5	121
TH9+00N 1+50E	201 238	< 1	0.02	15	580	14	< 5	< 10	29	0.04	< 10	< 10	49	< 5	134
TH9+00N 1+75E	201 238	< 1	0.03	13	2260	6	< 5	< 10	34	0.04	< 10	< 10	43	< 5	290
TH9+00N 2+00E	201 238	< 1	0.03	17	1390	8	< 5	< 10	36	0.08	< 10	< 10	61	< 5	140
TH9+00N 0+25W	201 238	< 1	0.02	15	770	8	< 5	< 10	37	0.07	< 10	< 10	52	< 5	82
TH9+00N 0+50W	201 238	< 1	0.02	19	760	14	5	< 10	50	0.06	< 10	< 10	52	< 5	142
TH9+00N 0+75W	201 238	< 1	0.02	13	1270	10	< 5	< 10	29	0.06	< 10	< 10	53	< 5	78
TH9+00N 1+00W	201 238	< 1	0.02	20	770	6	< 5	< 10	39	0.06	< 10	< 10	56	< 5	116
TH9+00N 1+25W	201 238	2	0.02	10	750	24	5	< 10	32	0.01	< 10	< 10	38	< 5	86
TH9+00N 1+50W	201 238	< 1	0.02	18	550	10	5	< 10	41	0.07	< 10	< 10	56	< 5	80
TH9+00N 1+75W	201 238	1	0.04	7	2440	4	< 5	< 10	18	0.04	< 10	< 10	30	< 5	51
TH9+00N 2+00W	201 238	< 1	0.02	16	690	16	5	< 10	23	0.02	< 10	< 10	48	< 5	70
TH9+00N 2+25W	201 238	< 1	0.02	16	650	12	< 5	< 10	29	0.07	< 10	< 10	59	< 5	69
TH9+00N 2+50W	201 238	< 1	0.02	24	1110	18	5	< 10	29	0.04	< 10	< 10	48	< 5	96
TH9+00N 2+75W	201 238	< 1	0.02	22	640	6	< 5	< 10	38	0.11	< 10	< 10	65	< 5	108
TH9+00N 3+00W	201 238	1	0.02	13	950	18	5	< 10	15	0.01	< 10	< 10	46	< 5	85
TH9+00N 3+25W	201 238	< 1	0.02	24	1500	12	< 5	< 10	25	0.05	< 10	< 10	52	< 5	145
TH9+00N 3+50W	201 238	< 1	0.02	13	1000	2	5	< 10	24	0.07	< 10	< 10	51	< 5	94
TH9+50N 0+00	201 238	1	0.01	11	640	12	< 5	< 10	31	0.01	< 10	< 10	41	< 5	70
TH9+50N 0+25E	201 238	< 1	0.02	14	730	14	< 5	< 10	27	0.02	< 10	< 10	46	< 5	89
TH9+50N 0+50E	201 238	1	0.02	12	870	8	5	< 10	36	0.01	< 10	< 10	39	< 5	72
TH9+50N 0+75E	201 238	< 1	0.01	15	940	12	5	< 10	40	0.02	< 10	< 10	44	< 5	91
TH9+50N 1+00E	201 238	1	0.02	14	1380	56	25	< 10	54	< 0.01	< 10	< 10	38	< 5	139
TH9+50N 1+25E	201 238	< 1	0.02	18	1240	18	< 5	< 10	67	0.01	< 10	< 10	52	< 5	129
TH9+50N 1+50E	201 238	< 1	0.02	26	890	14	5	< 10	46	0.06	< 10	< 10	57	< 5	150
TH9+50N 1+75E	201 238	< 1	0.02	23	1300	14	< 5	< 10	61	0.04	< 10	< 10	48	< 5	158
TH9+50N 2+00E	201 238	< 1	0.02	18	1060	16	< 5	< 10	46	0.05	< 10	< 10	50	< 5	121
TH9+50N 0+25W	201 238	< 1	0.02	13	740	22	10	< 10	35	0.03	< 10	< 10	47	< 5	108
TH9+50N 0+50W	201 238	< 1	0.02	13	430	12	< 5	< 10	31	0.08	< 10	< 10	58	< 5	79
TH9+50N 0+75W	201 238	< 1	0.02	10	620	2	< 5	< 10	26	0.03	< 10	< 10	56	< 5	62
TH9+50N 1+00W	201 238	< 1	0.02	13	990	8	< 5	< 10	32	0.08	< 10	< 10	56	< 5	85
TH9+50N 1+25W	201 238	< 1	0.02	12	590	6	< 5	< 10	25	0.03	< 10	< 10	55	< 5	63
TH9+50N 1+50W	201 238	< 1	0.01	16	670	12	< 5	< 10	37	0.03	< 10	< 10	49	< 5	85
TH9+50N 1+75W	201 238	< 1	0.02	16	1400	8	< 5	< 10	35	0.05	< 10	< 10	48	< 5	88
TH9+50N 2+00W	201 238	1	0.01	14	660	14	< 5	< 10	28	0.02	< 10	< 10	50	< 5	76

CERTIFICATION :

BCA



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 2W2

Project : TOP HAT

Comments: ATTN: ART TROUP CC: K AKHURST

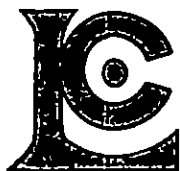
Page No. : 9-A
Tot. Pages: 9
Date : 10-AUG-87
Invoice #: I-8718866
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
TH9+50N 2+25W	201 238	25	1.93	1.0	30	270	< 0.5	< 2	0.29	< 0.5	7	27	42	3.18	< 10	< 1	0.05	20	0.30	228
TH9+50N 2+50W	201 238	< 5	2.04	0.6	65	190	< 0.5	< 2	0.41	< 0.5	14	26	30	3.93	< 10	< 1	0.09	10	0.34	673
TH10+00N 0+00E	201 238	< 5	0.93	0.2	50	90	< 0.5	< 2	0.44	< 0.5	9	19	38	2.93	< 10	< 1	0.10	< 10	0.31	367
TH10+00N 0+25E	201 238	< 5	1.42	0.2	25	140	< 0.5	< 2	0.46	< 0.5	10	27	26	2.83	< 10	< 1	0.15	10	0.41	354
TH10+00N 0+50E	201 238	< 5	1.84	0.2	25	170	< 0.5	< 2	0.34	< 0.5	12	30	29	2.79	< 10	< 1	0.12	10	0.45	592
TH10+00N 0+75E	201 238	20	2.21	0.8	40	130	< 0.5	< 2	0.14	< 0.5	10	22	53	3.30	< 10	< 1	0.13	10	0.37	297
TH10+00N 1+00E	201 238	< 5	1.53	0.4	40	50	< 0.5	< 2	0.13	< 0.5	10	19	44	3.33	< 10	< 1	0.08	< 10	0.32	231
TH10+00N 1+25E	201 238	< 5	2.02	0.6	15	130	< 0.5	< 2	0.22	< 0.5	13	27	26	2.80	< 10	< 1	0.10	10	0.36	673
TH10+00N 1+50E	201 238	< 5	1.93	0.2	20	120	< 0.5	< 2	0.32	< 0.5	12	29	19	2.89	< 10	< 1	0.10	< 10	0.42	287
TH10+00N 1+75E	201 238	< 5	2.14	0.4	25	150	< 0.5	< 2	0.39	< 0.5	12	26	21	2.71	< 10	< 1	0.10	< 10	0.37	329
TH10+00N 2+00E	201 238	< 5	2.36	0.2	10	270	< 0.5	< 2	0.38	< 0.5	16	29	27	3.22	< 10	< 1	0.12	10	0.44	1225
TH10+00N 2+25E	201 238	< 5	1.98	0.2	45	270	< 0.5	< 2	0.49	< 0.5	11	22	23	2.73	< 10	< 1	0.17	10	0.41	505
TH10+00N 2+50E	201 238	< 5	1.68	0.2	45	220	< 0.5	< 2	0.36	< 0.5	10	18	32	2.92	< 10	< 1	0.12	10	0.39	354
TH10+00N 2+75E	201 238	< 5	2.42	0.2	15	150	< 0.5	< 2	0.32	< 0.5	11	26	18	2.62	< 10	< 1	0.10	< 10	0.35	429
TH10+00N 3+00E	201 238	< 5	1.09	0.4	45	180	< 0.5	< 2	0.29	< 0.5	5	18	25	2.41	< 10	< 1	0.13	< 10	0.28	255
TH10+00N 3+25E	201 238	< 5	1.86	0.8	5	530	< 0.5	< 2	0.59	< 0.5	12	25	39	2.33	< 10	< 1	0.20	< 10	0.31	1305
TH10+00N 3+50E	201 238	< 5	1.86	0.2	90	170	< 0.5	< 2	0.24	< 0.5	10	22	40	3.46	< 10	< 1	0.13	< 10	0.40	245

CERTIFICATION :

BCD



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.
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V6C 2W2

Project: TOP HAT

Comments: ATTN: ART TROUP CC: K AKHURST

Page No. :9-B

Tot. Pages:9

Date :10-AUG-87

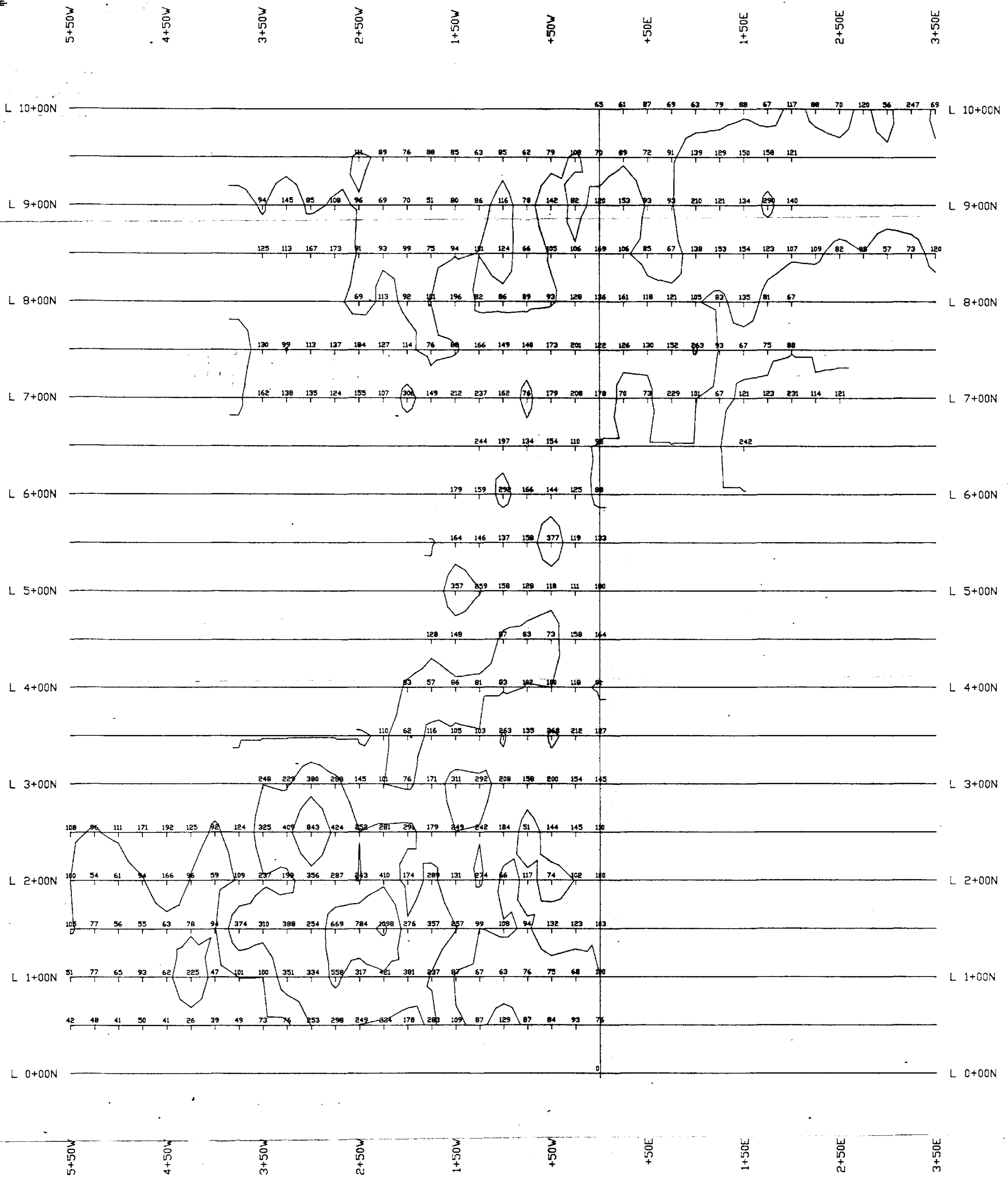
Invoice #:I-8718866

P.O. # NONE

CERTIFICATE OF ANALYSIS A8718866

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
TH9+50N 2+25W	201 238	< 1	0.02	13	1140	16	< 5	< 10	24	0.03	10	< 10	46	< 5	89
TH9+50N 2+50W	201 238	< 1	0.02	13	1470	14	5	< 10	25	0.04	10	< 10	50	< 5	111
TH10+00N 0+00E	201 238	< 1	0.01	17	530	2	5	< 10	43	0.03	< 10	< 10	45	< 5	65
TH10+00N 0+25E	201 238	< 1	0.01	20	960	8	5	< 10	43	0.04	< 10	< 10	53	< 5	61
TH10+00N 0+50E	201 238	< 1	0.02	22	980	12	< 5	< 10	42	0.04	10	< 10	50	< 5	87
TH10+00N 0+75E	201 238	< 1	0.01	18	790	16	< 5	< 10	29	0.01	10	< 10	45	< 5	69
TH10+00N 1+00E	201 238	< 1	0.02	14	370	10	< 5	< 10	25	0.02	< 10	< 10	49	< 5	63
TH10+00N 1+25E	201 238	< 1	0.02	18	930	10	< 5	< 10	35	0.05	10	< 10	49	< 5	79
TH10+00N 1+50E	201 238	< 1	0.02	22	810	4	< 5	< 10	50	0.05	< 10	< 10	51	< 5	88
TH10+00N 1+75E	201 238	< 1	0.02	21	730	6	< 5	< 10	56	0.06	< 10	< 10	50	< 5	67
TH10+00N 2+00E	201 238	< 1	0.02	22	1270	14	< 5	< 10	59	0.04	10	< 10	55	< 5	117
TH10+00N 2+25E	201 238	< 1	0.02	19	1410	6	5	< 10	74	0.02	10	< 10	42	< 5	88
TH10+00N 2+50E	201 238	< 1	0.03	14	1020	8	5	< 10	66	0.01	< 10	< 10	41	< 5	70
TH10+00N 2+75E	201 238	< 1	0.02	19	1320	12	< 5	< 10	37	0.04	< 10	< 10	47	< 5	120
TH10+00N 3+00E	201 238	< 1	0.02	9	1230	4	5	< 10	49	0.01	< 10	< 10	36	< 5	56
TH10+00N 3+25E	201 238	< 1	0.02	17	4280	8	< 5	< 10	72	0.02	< 10	< 10	42	< 5	247
TH10+00N 3+50E	201 238	< 1	0.01	15	1160	16	10	< 10	38	0.01	< 10	< 10	45	< 5	69

CERTIFICATION :



GEOLOGICAL BRANCH
ASSESSMENT REPORT
Part 2 of 2

16,352

KANGELD RESOURCES LTD.

TOPHAT PROPERTY

KAMLOOPS MINING DIVISION, B.C.

NTS: 911/12E

SOIL GEOCHEMISTRY
Zn RESULTS

0 50 100 150 200

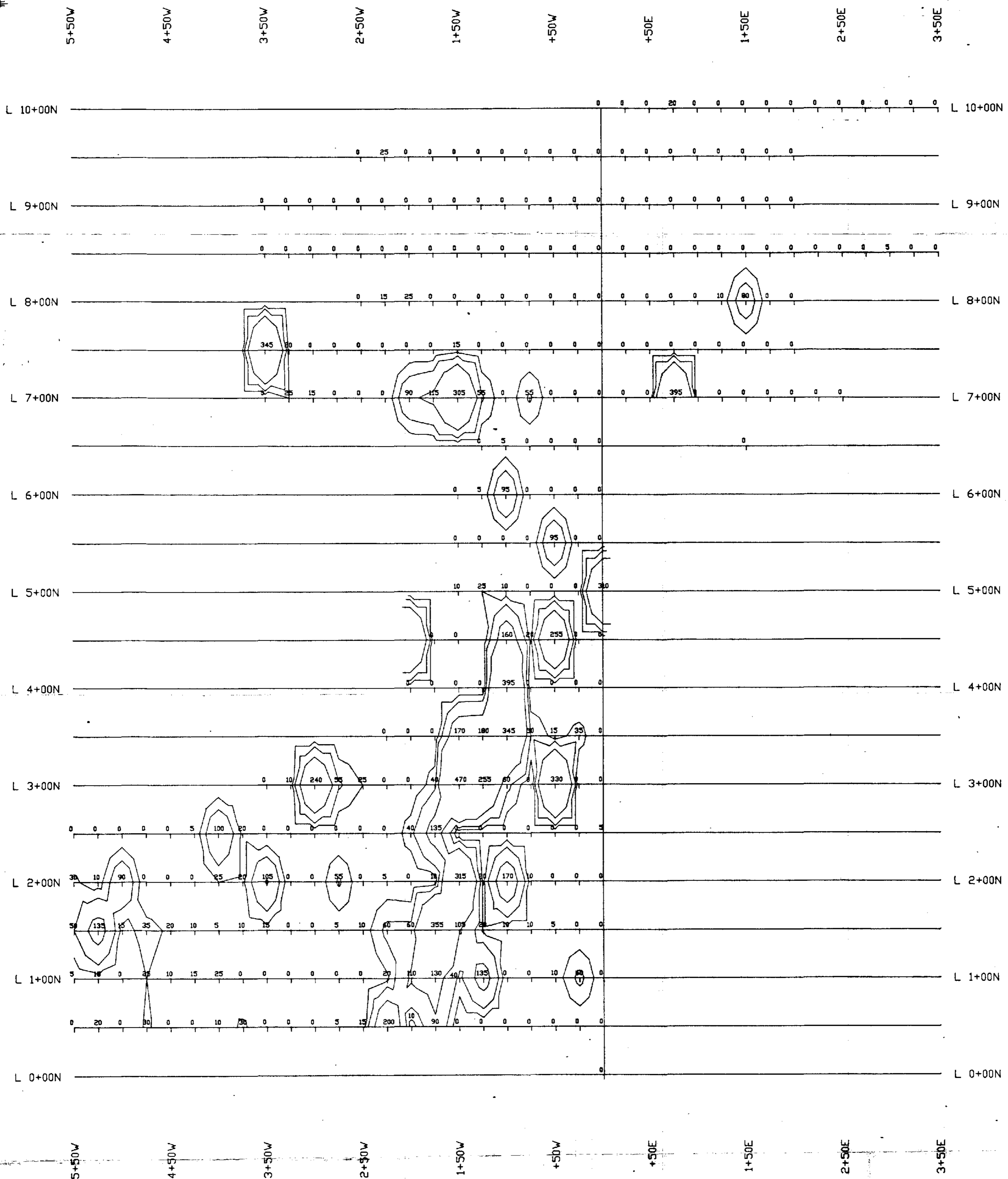
SCALE 1:2500

DATE: AUGUST, 1987

BY:

FIGURE No. 10

Prepared by: RWR MINERAL GRAPHICS LTD.



LEGEND:



GOLD VALUE IN PPB

CONTOUR INTERVAL = 25, 50, 100 PPB GOLD

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Rt+2of2

16,352

KANGELD RESOURCES LTD.

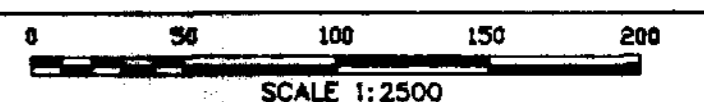
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JTS. No.

SOIL GEOCHEMISTRY

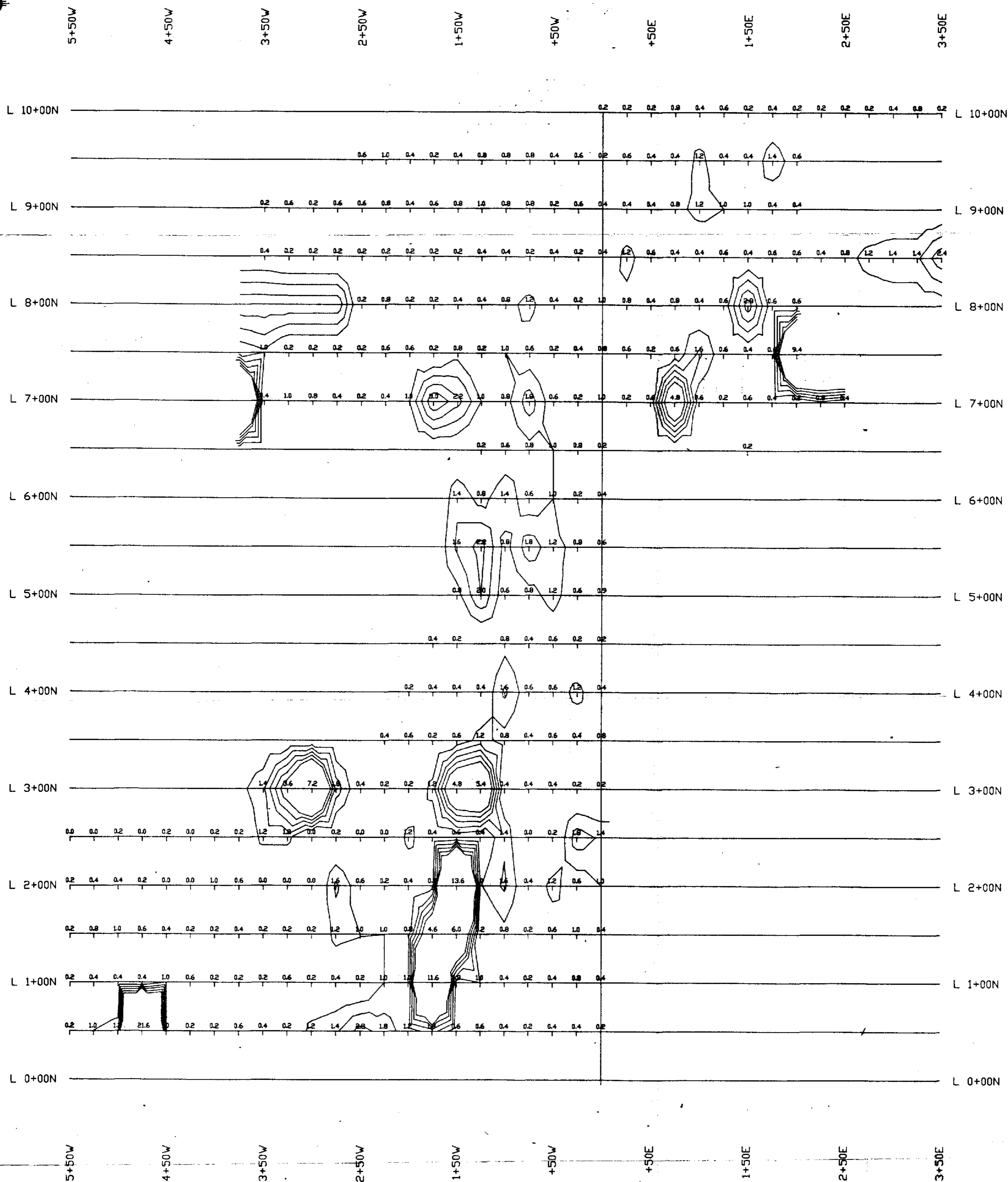
Au RESULTS



DATE:
BY:

FIGURE No. 4

Prepared by: RWR MINERAL GRAPHICS LTD.



LEGEND:

0.2 0.4 SILVER VALUE IN PPM
 CONTOUR INTERVAL = 1.0, 1.5, 2.0, 2.5, 3.0

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 Part 2 of 2

16,352

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NTS: 911/12E

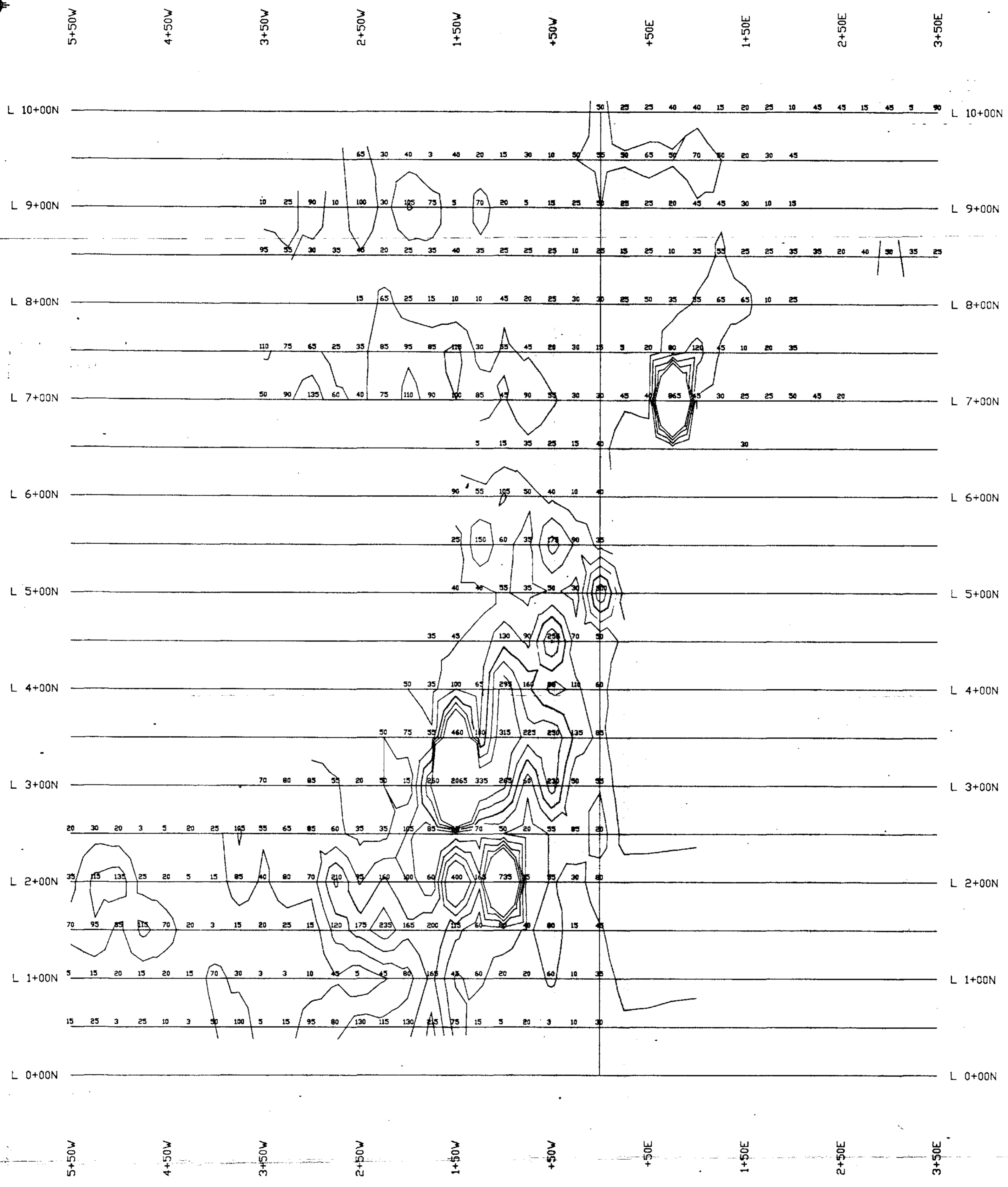
SOIL GEOCHEMISTRY
 Ag RESULTS

0 50 100 150 200
 SCALE 1:2500

DATE: AUGUST, 1987

FIGURE No. 5

Prepared by: RWR MINERAL GRAPHICS LTD.



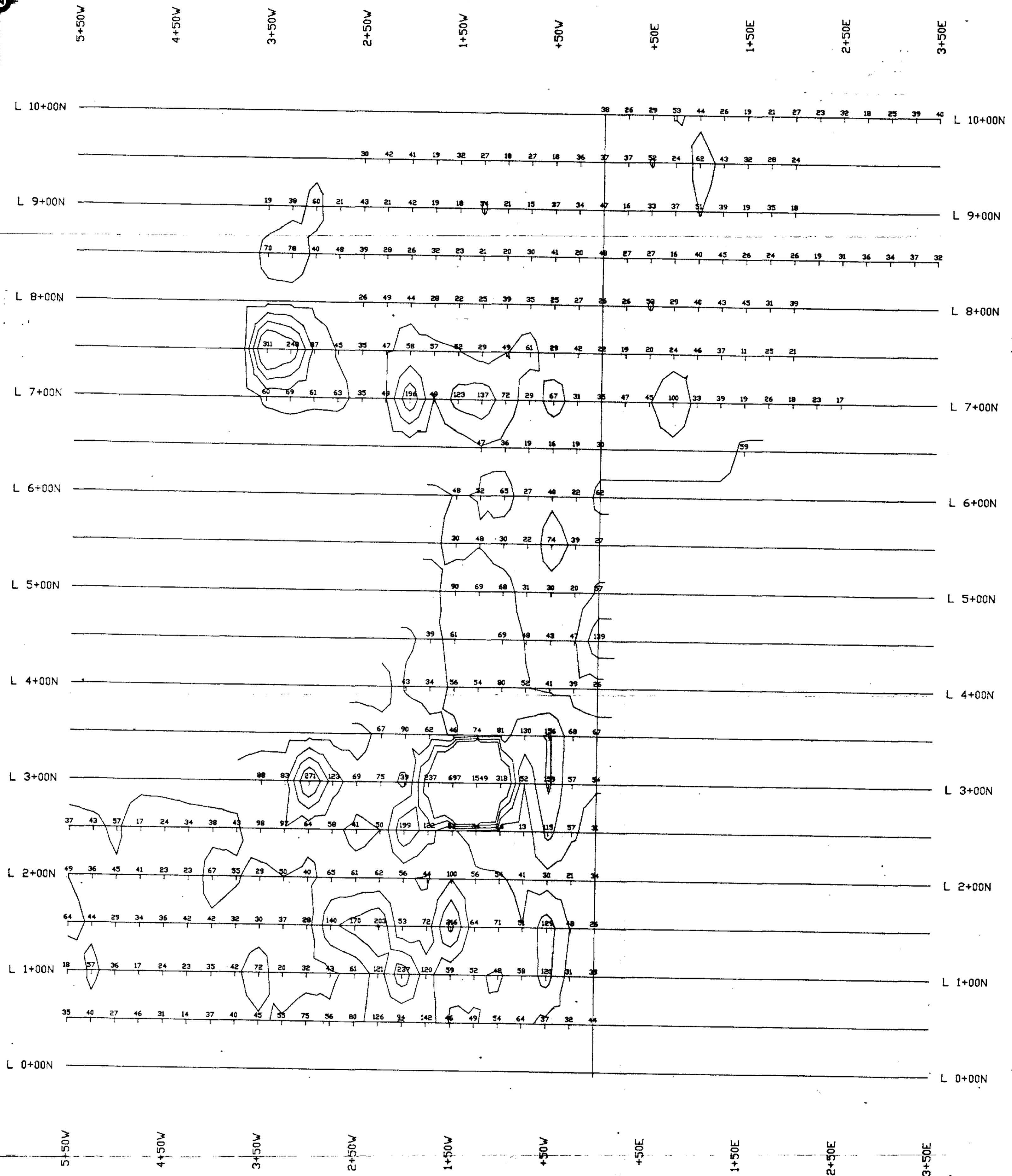
LEGEND:

200 10 ARSENIC VALUE IN PPM
 CONTOUR INTERVAL = 50, 100, 150, 200, 250 PPM As

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
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16,352

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TOPHAT PROPERTY	
KAMLOOPS MINING DIVISION, B.C.	NTS: 92/12E
SOIL GEOCHEMISTRY As RESULTS	
 SCALE 1:2500	
DATE: AUGUST, 1987	FIGURE No. 6
BY:	



LEGEND:



COPPER VALUE IN PPM

CONTOUR INTERVAL = 50, 100, 150, 200 PPM

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Part 2 of 2

16,352

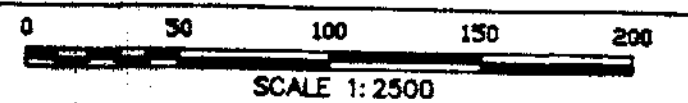
KANGELD RESOURCES LTD.

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KAMLOOPS MINING DIVISION, B.C.

NTS: 92/12E

SOIL GEOCHEMISTRY
Cu RESULTS

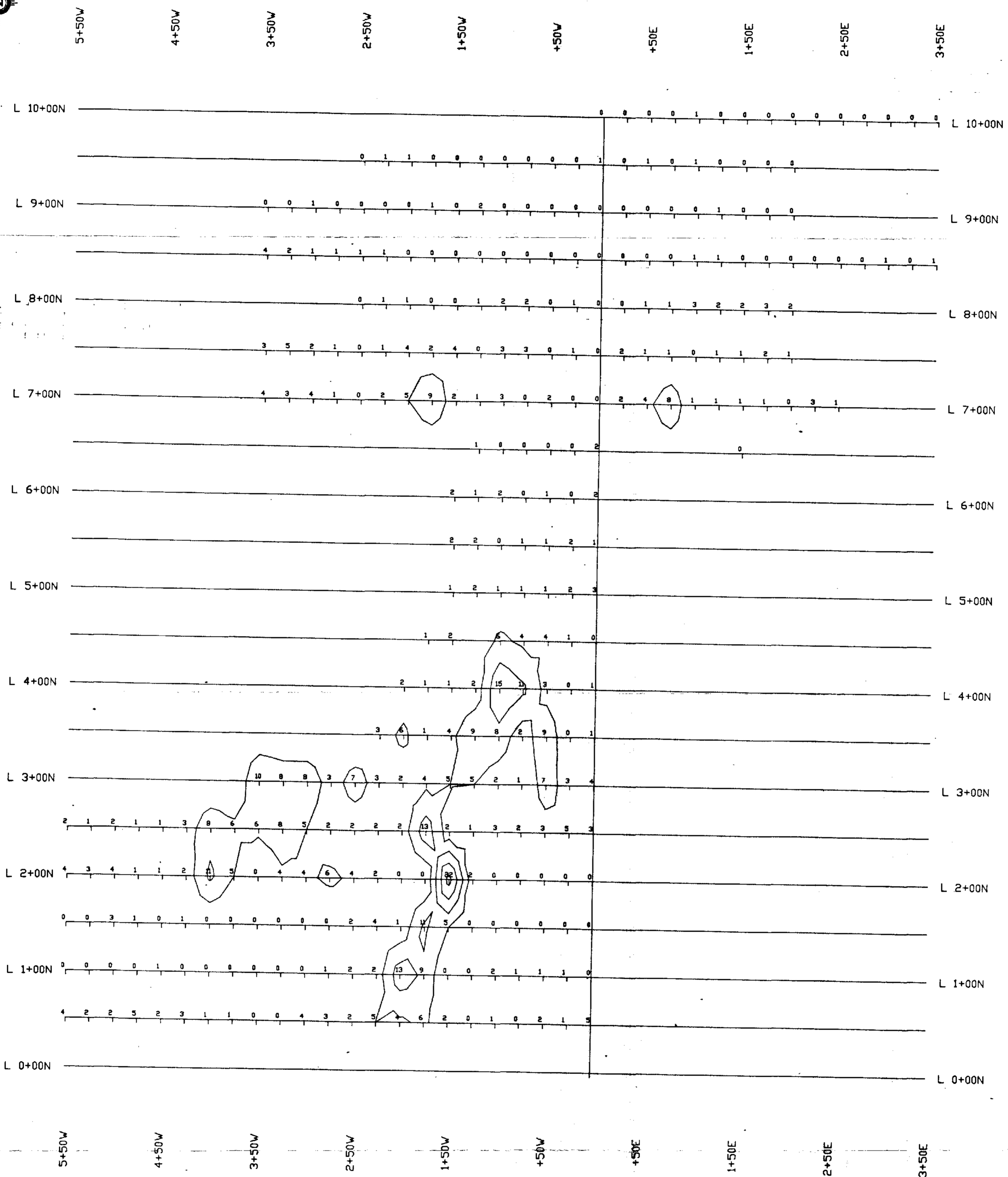


DATE: AUGUST, 1987

BY:

FIGURE No. 7

Prepared by: RWR MINERAL GRAPHICS LTD.



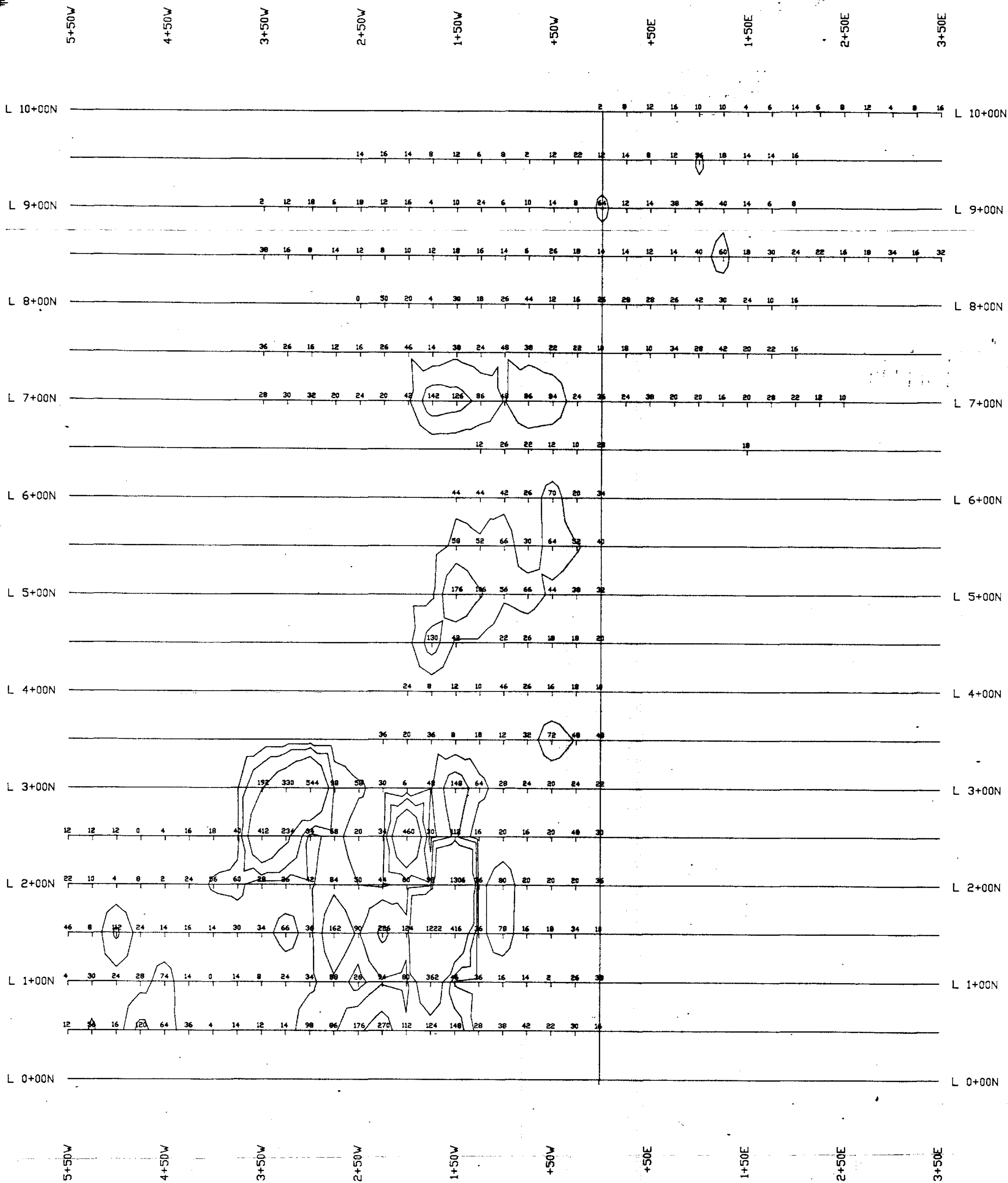
LEGEND:

Mo VALUE IN PPM

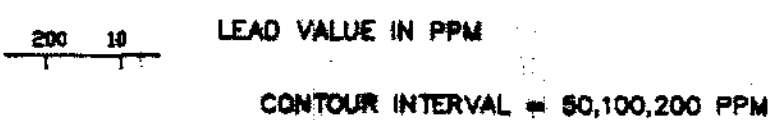
CONTOUR INTERVAL = 5, 10, 15, 20 PPM

GEOLOGICAL BRANCH
ASSESSMENT REPORT
Part 2 of 2
16,352

KANGELD RESOURCES LTD.	
TOPHAT PROPERTY	
KAMLOOPS MINING DIVISION, B.C.	NTS: 911/12E
SOIL GEOCHEMISTRY	
Mo RESULTS	
SCALE 1:2500	
DATE: AUGUST, 1987	FIGURE No. 8



LEGEND:



GEOLOGICAL BRANCH
ASSESSMENT REPORT
Part 2 of 2

16,352

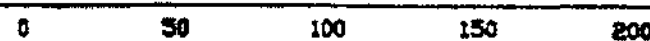
KANGELD RESOURCES LTD.

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NTS: 91/12E

SOIL GEOCHEMISTRY
Pb RESULTS



SCALE 1:2500

DATE: AUGUST, 1987

FIGURE No. 9

Prepared by: RWR MINERAL GRAPHICS LTD.