TNT CLAIMS
REPORT OF INITIAL TERRASOL GEOCHEMICAL SURVEY

Cariboo Mining Division
NTS 93A 014, 024
Woodjam Creek Area
Lat. 52° 13' Long. 121° 17'

Owned and Operated by
Herb Wahl
and
Jack Brown-John

26,790

Prepared by H. J. Wahl, P.Eng. B.C.
R.R.#10, 1416 Ocean Beach Esplanade
Gibsons, B. C. VON 1V3
September, 2001

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SUMMARY

The TNT Mineral Claims, contiguous to the south with the Megaton Property, are located 16 km southeast of Horsefly Village, central Cariboo District, B.C. The claims were staked in mid-July 2001 and subsequently were subjected to 3 days of field work, related to soils collection along claim location lines for Terrasol analysis.

The TNT 2-post claims (12 ea) cover a field of highly anomalous, but separated gold-in-soil results, initially detected by Circle Resources Ltd., during a 1988 field program.

The current work has identified a Terrasol oxidation anomaly some 1,400 meters long, striking WSW-ENE through the gold-anomalous soils field. A drainage paralleling the trend of the oxidation anomaly shows high values for As, Mo, and Ni.

Given the extensive overburden, a more detailed Terrasol survey grid is required to define drill targets. Costs of the current program are $9,440.02.

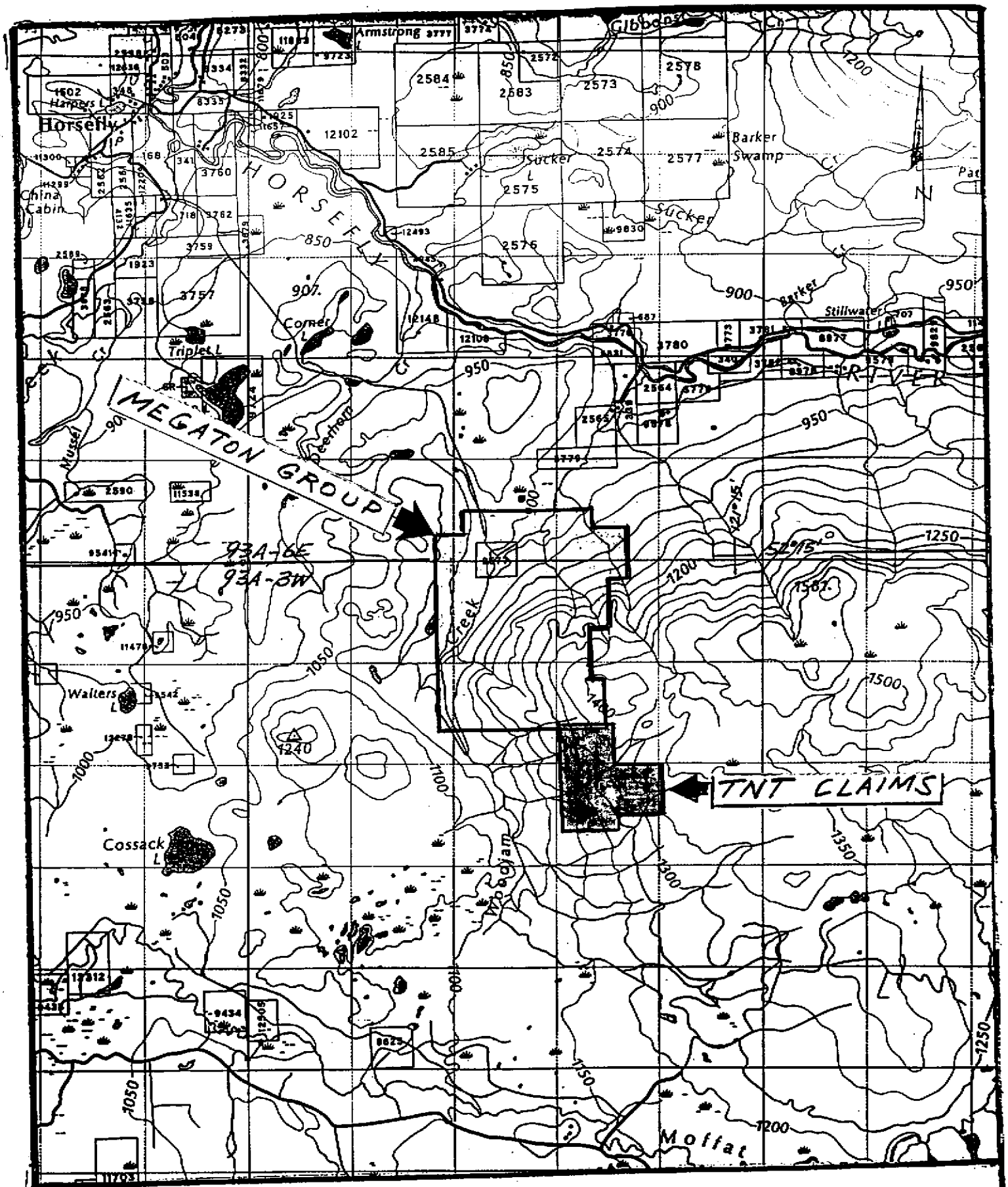
INTRODUCTION

This report documents the results of 3 days field work, July 13,16 and August 31, 2001 conducted subsequent to the staking of the TNT 1-12 Mineral Claims. The claims were staked to cover a field of soil-anomalous gold values ranging from 20-2,800 ppb Au detected by previous work programs completed in 1984 (Ref. 1) and 1988 Ref. 2). The detected values are widely separated, occur within an area measuring some 2,000 X 1,500 meters, and are located at the heavily drift-covered west margin of the Takomkane batholith.

LOCATION AND ACCESS (Fig. 1-3)

The TNT claims are situated 16 km southeast of Horsefly Village just east of Woodjam Creek. Access is via the 108-2300-2500 Weldwood haul road system. Travel time from Horsefly is 1.5-2 hours depending on road conditions. Secondary road conditions are poor during wet periods.

The area supports commercial logging operations conducted by Weldwood Canada Ltd. under forest license A 20017, Moffat T5B.



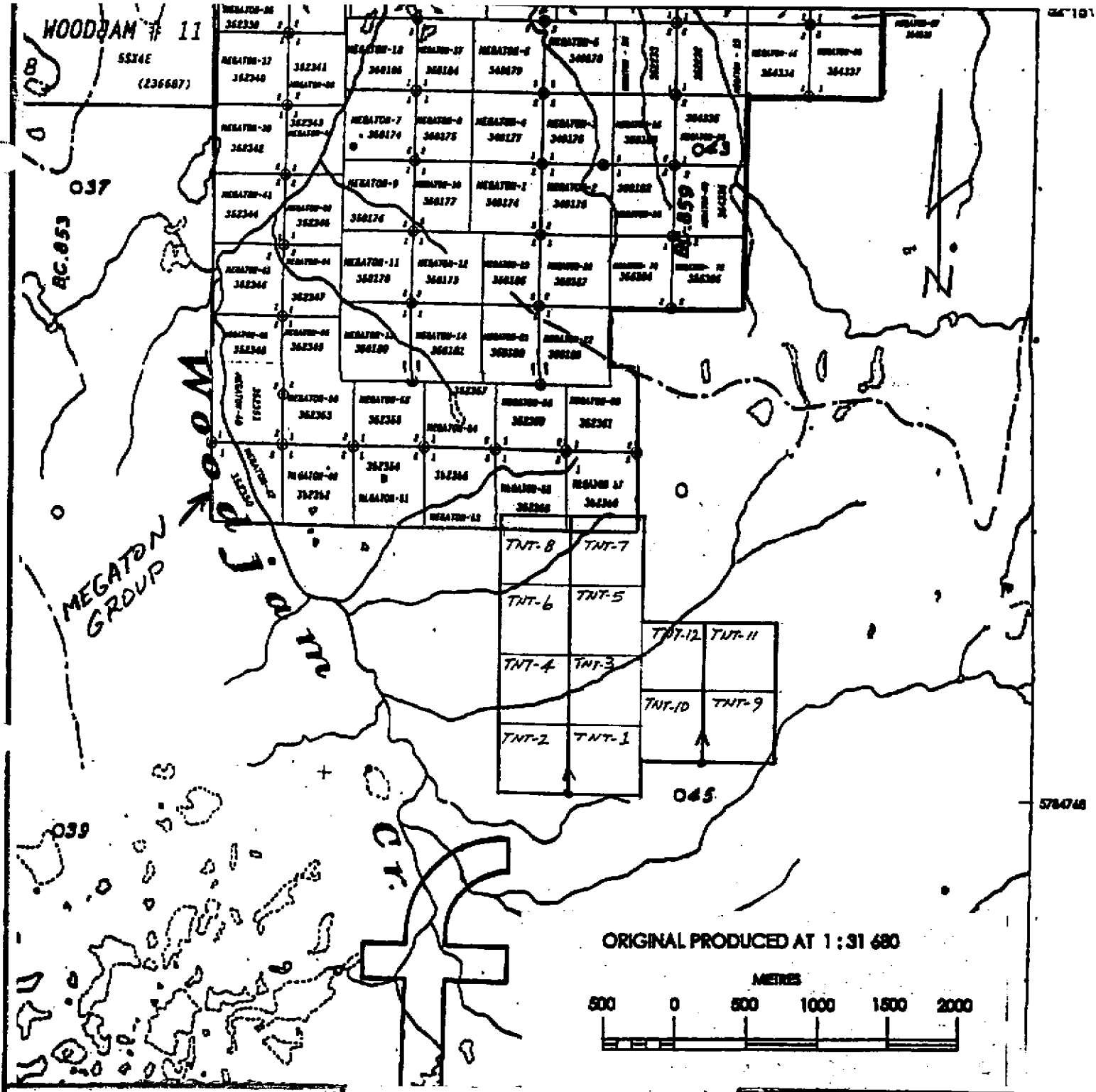
TNT CLAIMS GENERAL LOCATION

CARIBOO MD

1 .0 1 2 3 4 5 KMS.

Scale 1:100,000

FIG. 1



TNT CLAIMS - PROPERTY MAP

H. WAHL, P.ENG. B.C. SEPT. 2001

FIG. 2

PROPERTY (Fig. 2)

The property consists of twelve each, 2-post mineral claims as follows:

Cariboo Mining Division

TNT 1→12, Tenure Nos. 388242→ 388253 incl.

The claims were staked on 11-12 July 2001 and were recorded on 24 July 2001.

The total claimed area amounts to some 300 ha or 750 acres. Units TNT 7/8 overlap and are contiguous with the pre-existing Megaton units Nos. 55 and 57.

TERRAIN/ TOPOGRAPHY (Fig. 1)

The TNT Claims lie along the broad west-facing slope of the Woodjam Creek drainage basin. Elevations range 3,500 feet ASL at Woodjam Creek to 4,500 feet ASL at the height of land. Terrain is rolling to hilly with occasional steep gullies along some secondary streams. The area is entirely drift covered with nil outcrop exposure. Vegetative cover is typical spruce-pine-fir-aspen bush with cedar predominating in wet areas, which are numerous. Foot travel is impeded by dense thickets of windfall and snow-press timber.

WORK PERFORMED

July 13,16 (2 days): Hip chain claim location lines @ 50m intervals and collect soil samples for Terrasol analysis, plus outcrop/float observation as appropriate.

Aug. 31 (1 day): Locate new winter (2000-01) logging road access system, east side of claims and sample saprolitic zone under road bed.

Sample Output:

64 ea. soils @ 50m intervals	- Terrasol
2 ea. grid silts.....	- Terrasol
5 ea. silts (off access road)	- Terrasol
1 only saprolite soil	conventional assay
1 only silt	conventional assay
1 only rock (saprolite zone)	conventional assay

HISTORY (Refs. 1 & 2)

1984: Wide-spaced reconnaissance soil sampling by Placer Dome. Failed to find any values of significance, with exception of one spot high Au (120 ppb) now located on claim TNT-5.

1988: Grid sampling by Circle Resources Ltd. Located 7 anomalous to strongly anomalous soil gold values within an overall area of some 2,000 x 1,500 meters. These values are separated by distances of 200-400 meters and lack flanking support. Additionally, weak, but broadly anomalous zones of Zn-As-Ag in soils were also identified, suggesting sub-surface mineralization, when factors of saprolitic weathering, post-mineral cover, and extensive glacial drift were considered.

REGIONAL GEOLOGY

The TNT claims lie within the Quesnel Trough sub-division of the Intermontane Geological Belt. The dominantly mafic volcanics of the Triassic Trough rocks are cut by both syntectonic and later intrusives, of which the Takomkane batholith is of the latter category. Exploration by the claim owners over many years has determined that the north rim of the Takomkane batholith is a granodioritic phase distinct from the dominant quartz monzonite.

Photo geology and regional aeromagnetics suggest a contact more or less following the course of Woodjam Creek.

A series of NE-trending linears suggests faulting along this trend, which passes through the TNT claims.

PROPERTY GEOLOGY (Fig. 6)

For reasons noted earlier, outcrop abundance is very low Exposures located during sampling were as follows:

Line A @ 1,800N: large outcropping knoll of fresh K-spar abundant granodiorite. Non magnetic, nil sulphide.

Line C @ 300N: Subcrop?? Miocene volcanic

E-W Access Road, 150 m west of Line A: Medium-coarse grained biotite, hornblende quartz monzonite, nil sulphide, moderately magnetic.

East margin TNT 9-11, new road: Sample TNT-SPR 0.5 kg sub-angular rusty float from within saprolitic zone base of new log road. Fine grained grey and white Qtz rock with dism. micro cubes Py and micro clots greyish pyritic aggregates (1-3 mm). Also traces very fine Cpy. Non-magnetic.

Information to date, while sketchy, suggests a series of NE-SW block-faulted slices occurring within Takomkane intrusive rocks.

GEOCHEMISTRY (Fig. 6, Appendix 2)

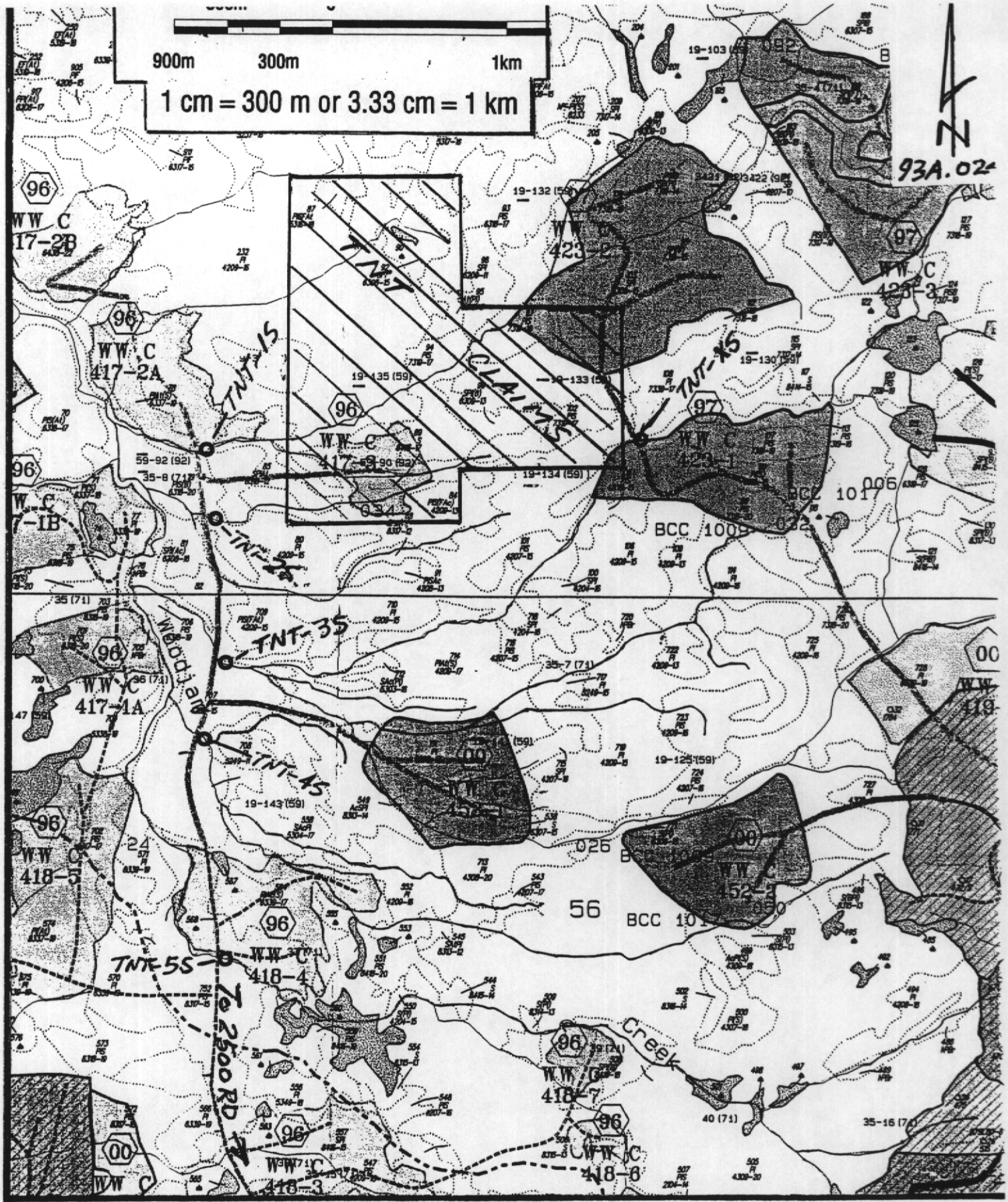
Contoured conventional soil geochemical data shown on Fig. 6 are derived from Ref. 2. The patterns shown are anomalous, but weakly so. The spot high gold values ranging to 2,800 ppb are definitely anomalous, but lack flanking support.

Terrasol Survey (Appendix 2):

A total of 64 soils and 2 silt samples were collected along the claim location lines, et al, at 50 meter intervals using industry standard procedures, i.e. intrenching tool/ Kraft bags. Average sample depth was 25 cm. The great majority of samples would classify as silty, rocky glacial drift with no superposed soil development.

In addition, 5 silt samples were collected from west-flowing tributaries of Woodjam Creek, where these intersected the access road (Fig. 3). These were also tested by the Terrasol technique.

One silt was collected on 31 August (TNT-X5) near the southeast corner of the claims for conventional assay. Additionally, a soil sample (TNT-1SP) was collected from the rusty saprolitic zone in the same sector.



TNT CLAIMS: LOCATION EXTRANEOUS SILT SITES

o —— SILT SITE & I.D.

FIG. 3

RESULTS

Conventional Silt TNT-XS: No significant metal values detected.

Conventional Soil TNT-1SP: No significant values indicated for the rusty saprolitic zone.

Terrasol Silt Results (Appendix 1):

Of the 5 reconnaissance-style silt samples TNT-25 is the most interesting showing survey high values of As 2,700, Mo 1,450, and Ni 47,600 (all ppb). Of significance, is the fact that the sample stream drains the oxidation anomaly detected by soil analysis.

Terrasol Soil Results: (Fig. 6, Appendix 2):

Evaluation of the Terrasol soil data by consultant Greg Hill indicates a WSW-ENE striking oxidation anomaly some 1,400 meters long trending through the field of previously detected spot high gold soil anomalies. As the area is entirely drift covered, only drilling can resolve the sub-surface cause of this feature.

CONCLUSIONS & RECOMMENDATIONS

High tech Terrasol soil survey has identified an oxidation anomaly trending through an earlier detected (conventional soils assay) field of spot high, separated gold values, exceptionally anomalous for the region.

To refine the target for drilling, a 2,000 meter base line should be cut along the trace of the oxidation anomaly zone, with wing lines @ 200m intervals. A more detailed Terrasol survey should be completed to refine the zone for test drilling.

Prepared by

Herb Wahl, P.Eng. B.C.

STATEMENT OF COSTS

Work on the TNT claims was performed by:

H.J. Wahl, P.Eng. B.C.
RR 10, 1416 Ocean Beach Esplanade,
Gibsons, B.C. VON 1V3

Jack Brown-John
Ste. 204, 383 Oliver Street
Williams Lake, B.C. V2G 1M4

Duane Smith, Horsefly, B.C. - casual labour

H. Wahl, 3 days @ $600/day - field work & supervision	$1,800.00
H. Wahl, 4 days @ $400/day - reporting, pre-field and wrap up	1,600.00
Jack Brown-John - experienced prospector, assistant and sampling	900.00
Duane Smith - casual labor, chaining and sampling	200.00
Sub Total:	$4,500.00
Field vehicle, 2001 Dodge diesel quad cab, Lic.No. BC5181EY, 3 days @$140/day	$420.00
Travel expenses	486.02
Maps, prints and photocopies	60.00
Postage, freight and communications	19.53
Field equipment and supplies	511.13
Permits, fees, licences	120.00
Assaying, including consulting charges	3,323.34
Sub Total:	$4,940.02
Grand Total:	**$9,440.02**

Certified True and Correct

H. Wahl, P.Eng. B.C.

REFERENCES

(1) Assessment Report No. 12, 479, Placer Dome, 1984.

(2) Assessment Report No. 17,480, Circle Resources Ltd., 1988.

(3) Wahl, H.J. P.Eng. B.C., 1996, *Master Report: Preliminary Exploration Including Trenching on the Megaton Claim Group.*

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Wahl, Herb PROJECT TNT File # A103081
R.R. 10, 1416 Ocean Beach, Gibson BC V0N 1V3 Submitted by: Herb Wahl

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au* ppb
TNT-SPR	2	203	16	52	<.3	9	18	318	1.96	<2	<8	<2	<2	64	.2	<3	<3	64	2.73	.092	2	8	.53	163	.09	7	2.38	.09	.06	<2	<5	<1	2.3
RE TNT-SPR	1	198	18	51	<.3	10	17	308	1.91	<2	<8	<2	<2	62	.2	<3	<3	62	2.62	.090	2	9	.51	151	.09	6	2.29	.09	.05	2	<5	<1	5.3

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 AU* BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 10 2001 **DATE REPORT MAILED:** Sept 20/01 **SIGNED BY:** C. Toye D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 'A'

Data 1 FA ___

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Wahl, Herb PROJECT TNT File # A103082

R.R. 10, 1416 Ocean Beach, Gibson BC V0N 1V3 Submitted by: Herb Wahl

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au* ppb
TNT-1SP	1	36	9	59	<.3	56	18	782	3.26	4	<8	<2	6	140	<.5	<3	<3	95	.54	.136	24	71	.77	403	.15	<3	2.21	.01	.13	<2	<5	<1	.9
RE TNT-1SP	1	37	9	60	<.3	54	19	774	3.35	4	<8	<2	6	145	<.5	<3	<3	93	.59	.130	24	69	.74	404	.14	<3	2.09	.01	.13	<2	<5	<1	.6
STANDARD DS3	9	122	34	156	.3	36	12	833	3.17	30	<8	<2	4	29	5.8	6	5	76	.58	.091	18	194	.62	159	.09	<3	1.77	.03	.17	4	<5	<1	22.1

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AU* BY ACID LEACHED, ANALYSIS BY ICP-MS. (10 gm)
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 10 2001 **DATE REPORT MAILED:** Sept 19/01 **SIGNED BY.** C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 'A'

Data ___ FA ___

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Wahl, Herb PROJECT TNT File # A103083
R.R. 10, 1416 Ocean Beach, Gibson BC V0N 1V3 Submitted by: Herb Wahl

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au* ppb
TNT-XS	<1	18	7	45	<.3	37	9	277	1.98	2	<8	<2	<2	148	<.5	<3	<3	57	.44	.099	18	59	.55	331	.10	<3	1.83	.02	.08	<2	<5	<1	.8
RE TNT-XS	<1	18	6	41	<.3	33	8	240	1.79	<2	<8	<2	<2	142	<.5	<3	<3	52	.43	.099	17	55	.50	311	.10	<3	1.72	.01	.07	<2	<5	<1	<.2
STANDARD DS3	9	122	34	156	.3	36	12	833	3.17	30	<8	<2	4	29	5.8	6	5	76	.58	.091	18	194	.62	159	.09	<3	1.77	.03	.17	4	<5	<1	22.1

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
AU* BY ACID LEACHED, ANALYSIS BY ICP-MS. (10 gm)
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 10 2001 **DATE REPORT MAILED:** Sept 19/01 **SIGNED BY** C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 'A'

Data / FA ___

Invoice No.: 22517
Work Order: 22805
Invoice Date: 13-AUG-01
Date Submitted: 03-AUG-01
Your Reference: A102381/102352
Account Number: 477

ACME ANALYTICAL LABORATORIES LTD
852 EAST HASTINGS
VANCOUVER, B.C.
V6A 1R6
ATT: CLARENCE LEONG

CERTIFICATE OF ANALYSIS

77 PULPS were submitted for analysis.

The following analytical packages were requested. Please see current fee schedule for elements and detection limits.

REPORT 22517 RPT.XLS CODE 7 TS-TERRASOL LEACH ICP/MS

CERTIFIED BY :

DR E.HOFFMAN/GENERAL MANAGER

Terasol Leach Job #: 22805 Report#: 22517 **Customer: Acme Labs** **Geologist: H. Wahl** **Customer's Job #: A1023518 A102352**

Trace element values are in parts per billion. Negative values equal NOT DETECTED at that lower limit. Elements arranged by suite and by atomic mass.
Values = 999999 are greater than the working range of the instrument. S.Q. = That element is determined SEMIQUANTITATIVELY.

Regular Package: ***Oxidation Suite:*** ***Base Metals:*** ***Base Metal - Chalcophile Associa***

Sample ID	S.Q. Cl	V	As	Se	Mo	Sb	Te	W	Re	Au	S.Q. Hg	Th	U	Co	Ni	Cu	Zn	Pb	Ga	Ge	Ag	Cd	In	Sn	Tl
LA 2000N	-150000	1160	65	-200	25	11	-100	-100	-0.5	-5	-3	261	207	342	702	857	325	64	33	-10	-250	29	-2	-100	-5
LA 1950N	-150000	3340	228	-200	34	-10	-100	-100	-0.5	-5	-3	249	105	200	584	487	589	253	138	-10	-250	26	2	-100	10
LA 1900N	-150000	1690	111	-200	15	-10	-100	-100	-0.5	-5	-3	310	97.5	388	694	439	1090	179	72	-10	-250	27	-2	-100	-5
LA 1850N	-150000	1060	82	-200	46	-10	-100	-100	-0.5	-5	-3	149	60.5	606	488	307	2380	162	108	-10	-250	27	-2	-100	-5
LA 1800N	-150000	1260	91	-200	47	-10	-100	-100	-0.5	-5	-3	189	82.6	332	556	685	1070	219	53	-10	-250	9	-2	-100	-5
LA 1750N	-150000	1750	146	-200	16	-10	-100	-100	-0.5	-5	-3	252	135	173	1120	761	708	234	118	-10	-250	12	2	-100	-5
LA 1700N	-150000	1500	51	-200	-10	-10	-100	-100	-0.5	-5	-3	158	203	581	472	518	-200	72	22	-10	-250	13	-2	-100	-5
LA 1650N	-150000	1320	-50	-200	-10	-10	-100	-100	-0.5	-5	-3	480	535	529	1280	734	329	-50	45	-10	-250	17	-2	-100	-5
LA 1600N	-150000	1040	138	-200	59	-10	-100	-100	-0.5	-5	-3	155	56.5	284	520	220	1490	336	224	-10	-250	40	2	-100	8
LA 1550N	-150000	1660	112	-200	27	-10	-100	-100	-0.5	-5	-3	173	72.7	113	239	268	466	91	203	-10	-250	14	3	-100	15
LA 1500N	-150000	894	133	-200	54	-10	-100	-100	-0.5	-5	-3	216	79.6	566	1140	419	3290	204	302	-10	-250	36	4	-100	-5
LA 1450N	-150000	1510	59	-200	13	-10	-100	-100	-0.5	-5	-3	184	62.3	202	213	284	-200	141	139	-10	-250	11	-2	-100	8
LA 1400N	-150000	1960	103	-200	65	25	-100	-100	-0.5	-5	-3	250	654	1400	5110	1010	1550	-50	64	16	-250	46	-2	-100	-5
LA 1350N	-150000	1340	-50	-200	-10	-10	-100	-100	-0.5	-5	-3	101	82.2	497	648	473	510	-50	40	-10	-250	11	-2	-100	5
LA 1300N	-150000	1480	150	-200	40	-10	-100	-100	-0.5	-5	-3	394	119	817	946	598	900	245	265	-10	-250	39	4	-100	-5
LA 1250N	-150000	2070	51	-200	22	-10	-100	-100	-0.5	-5	-3	301	711	1020	2940	605	587	-50	57	14	-250	26	-2	-100	-5
LA 1200N	-150000	2000	54	-200	13	-10	-100	-100	-0.5	-5	-3	137	108	1120	816	415	212	-50	64	-10	-250	15	-2	-100	-5
LA 1150N	-150000	2020	57	-200	13	-10	-100	-100	-0.5	-5	-3	150	159	940	1270	812	449	-50	68	-10	-250	28	-2	-100	-5
LA 1100N	-150000	2590	70	-200	21	10	-100	-100	-0.5	-5	-3	266	412	1410	3670	757	572	-50	71	13	-250	39	-2	-100	-5
LA 1050N	-150000	2760	72	-200	-10	-10	-100	-100	-0.5	-5	-3	190	162	1550	1180	480	339	-50	48	-10	-250	15	-2	-100	-5
LA 1000N	-150000	2600	51	-200	20	-10	-100	-100	-0.5	-5	-3	234	250	1430	2510	734	532	-50	75	-10	-250	29	-2	-100	5
LA 950N	-150000	2220	53	-200	-10	-10	-100	-100	-0.5	-5	-3	131	91.9	818	1430	531	541	-50	75	-10	-250	18	-2	-100	-5
LA 900N	-150000	1940	57	-200	11	-10	-100	-100	-0.5	-5	-3	154	134	455	1620	775	377	-50	71	-10	-250	15	-2	-100	-5
LA 850N	-150000	2750	67	-200	11	-10	-100	-100	-0.5	-5	-3	237	183	843	1870	780	533	-50	58	-10	-250	18	-2	-100	-5
LA 800N	-150000	1980	116	-200	59	-10	-100	-100	-0.5	-5	-3	200	63.4	737	1270	619	1400	207	465	-10	-250	31	4	-100	12
LA 750N	-150000	2540	61	-200	20	15	-100	-100	-0.5	-5	-3	185	154	836	2590	858	638	-50	62	13	-250	22	-2	-100	-5
LA 700N	-150000	5540	129	-200	16	-10	-100	-100	-0.5	-5	-3	120	69.3	451	1210	694	525	-50	71	-10	-250	15	-2	-100	-5
LA 650ST	-150000	2490	160	-200	37	-10	-100	-100	-0.5	-5	-3	175	377	1850	3470	1320	3640	88	68	17	-250	59	-2	-100	-5
LA 600N	-150000	2870	124	-200	42	-10	-100	-100	-0.5	-5	-3	236	120	1760	1540	883	1220	194	186	-10	-250	20	2	-100	-5
LA 550N	-150000	2440	70	-200	27	-10	-100	-100	-0.5	-5	-3	275	170	1380	3180	901	876	70	131	13	-250	45	-2	-100	5
LA 500N	-150000	1920	72	-200	19	-10	-100	-100	-0.5	-5	-3	214	258	395	2140	625	783	-50	79	11	-250	38	-2	-100	-5
LA 450N	-150000	8770	-50	-200	592	25	-100	-100	-0.5	-5	-3	73.4	306	688	9640	187	2400	67	240	29	-250	84	-2	-100	-5
LA 400N	-150000	4680	106	226	107	11	-100	-100	-0.5	-5	-3	230	326	3340	13100	782	8080	54	231	48	-250	122	-2	-100	-5
LA 350N	-150000	8420	214	242	54	14	-100	-100	-0.5	-5	-3	310	353	2870	19100	1440	1910	58	416	47	-250	186	2	-100	-5
LA 0+250N	-150000	12100	187	268	448	56	-100	-100	-0.5	-5	-3	143	799	1340	26700	1080	2760	-50	279	83	-250	226	-2	-100	-5
LA 0+200N	338000	25500	331	222	388	66	-100	-100	-0.5	-5	-3	38.6	229	1070	29300	439	2490	73	182	80	-250	56	-2	-100	-5
LA 0+150N	161000	15300	671	325	422	51	-100	-100	-0.5	-5	-3	263	967	10100	33700	1250	2540	-50	268	80	-250	78	-2	-100	-5
LA 0+100N	-150000	8120	258	304	100	-10	-100	-100	-0.5	-5	-3	273	437	9330	14300	1920	1710	-50	249	44	-250	78	-2	-100	-5
LA 0+50N	-150000	9210	268	310	138	17	-100	-100	-0.5	-5	-3	392	592	11000	21400	3190	3210	-50	370	60	-250	89	-2	-100	-5
LA 0+00	-150000	11900	268	-200	191	23	-100	-100	-0.5	-5	-3	182	283	4050	13600	1550	3910	143	429	47	-250	104	-2	-100	5
LB 0+750N	156000	10500	231	-200	85	-10	-100	-100	-0.5	-5	-3	341	155	18700	10700	2990	3730	113	536	35	-250	41	3	-100	-5
LB 0+700N	208000	14800	424	-200	77	-10	-100	-100	-0.5	-5	-3	294	105	6350	8850	3330	3140	147	512	20	-250	36	3	-100	-5
LB 0+650N	163000	8140	257	-200	25	-10	-100	-100	-0.5	-5	-3	126	68.5	2340	3410	2150	1310	65	349	14	-250	23	-2	-100	-5
LB 0+600N	160000	8520	267	-200	33	-10	-100	-100	-0.5	-5	-3	211	65.9	5630	4720	2450	3240	70	304	19	-250	17	-2	-100	-5
LB 0+550N	-150000	9540	245	-200	45	-10	-100	-100	-0.5	-5	-3	171	74.0	6490	4400	2040	1420	55	337	22	-250	22	-2	-100	-5
LB 0+500N	-150000	8580	273	-200	39	-10	-100	-100	-0.5	-5	-3	168	89.9	7540	5920	2830	1870	90	426	26	-250	27	-2	-100	5
LB 0+450N	-150000	3670	185	-200	29	-10	-100	-100	-0.5	-5	-3	169	88.6	2410	2340	1270	2240	148	298	13	-250	27	2	-100	-5
LB 0+400N	-150000	1610	196	-200	96	-10	-100	-100	-0.5	-5	-3	189	74.6	2540	2780	1700	4050	221	572	-10	-250	39	3	-100	9
LB 0+350N	-150000	3570	169	-200	40	-10	-100	-100	-0.5	-5	-3	206	94.4	2220	2820	1450	925	82	176	13	-250	28	-2	-100	-5
LB 0+300N	-150000	3660	174	282	74	13	-100	-100	-0.5	-5	-3	202	156	4470	9880	1370	1720	76	241	39	-250	65	-2	-100	-5
LB 0+250N	-150000	3110	144	264	25	24	-100	-100	-0.5	-5	-3	181	179	3090	8280	1500	1270	56	175	38	-250	47	-2	-100	-5
LB 0+200N	-150000	4610	181	-200	36	-10	-100	-100	-0.5	-5	-3	170	140	2420	4960	1550	801	-50	177	26	-250	22	2	-100	-5
LB 0+150N	-150000	2580	136	-200	27	-10	-100	-100	-0.5	-5	-3	126	54.6	998	1630	816	892	135	142	-10	-250	31	-2	-100	-5
LB 0+100N	-150000	5380	384	359	53	14	-100	-100	-0.5	-5	-3	397	348	5790	11000	978	1290	-50	291	49	-250	69	2	-100	-5
LB 0+50N	-150000	4030	155	-200	58	-10	-100	-100	-0.5	-5	-3	265	174	4360	3390	1300	1150	64	169	18	-250	43	-2	-100	-5

Terasol Leach Job #: 22805 Report#: 22517 **Customer: Acme Labs** **Geologist: H. Wahl** **Customer's Job #: A102351& A102352**

Trace element values are in parts per billion Negative values equal NOT DETECTED at that lower limit Elements arranged by suite and by atomic mass.
Values = 999999 are greater than the working range of the instrument. S.Q. = That element is determined SEMIQUANTITATIVELY.

Regular Package:

	Oxidation Suite:													***Base Metals:***					***Base Metal - Chalcophile Associat***						
Sample ID:	S.Q. Cl	V	As	Se	Mo	Sb	Te	W	Re	Au	S.Q. Hg	Th	U	Co	Ni	Cu	Zn	Pb	Ga	Ge	Ag	Cd	In	Sn	Tl
LB 0+00	-150000	3870	146	-200	32	-10	-100	-100	-0.5	-5	-3	308	90.3	3510	1580	1050	1790	250	166	11	-250	30	-2	-100	-5
LC 0+00	-150000	1780	140	-200	71	-10	-100	-100	-0.5	-5	-3	118	62.8	1350	2170	1130	4550	126	165	-10	-250	32	-2	-100	-5
LC 0+100E	-150000	3190	223	250	55	12	-100	-100	-0.5	-5	-3	253	371	2380	8000	1590	1370	56	160	37	-250	61	-2	-100	-5
LC 0+200E	-150000	6000	420	-200	36	-10	-100	-100	-0.5	-5	-3	274	228	4600	2630	1440	623	60	197	16	-250	34	-2	-100	-5
LC 0+300E	-150000	8000	349	327	129	33	-100	-100	-0.5	-5	-3	197	558	1640	9730	1160	1400	-50	200	58	-250	84	-2	-100	-5
LC 0+400E	-150000	3550	184	374	153	42	-100	-100	-0.5	-5	-3	187	399	1050	10400	783	731	-50	267	57	-250	81	-2	-100	-5
LC 0+500E	-150000	6830	368	219	67	-10	-100	-100	-0.5	-5	-3	324	269	6190	9450	1870	867	81	188	28	-250	71	2	-100	-5
LC 0+600E	-150000	3850	199	-200	28	-10	-100	-100	-0.5	-5	-3	176	102	1570	2440	1070	1780	76	217	18	-250	31	2	-100	-5
LC 0+700E	-150000	8590	310	244	109	11	-100	-100	-0.5	-5	-3	392	205	10600	6150	1840	4200	115	473	31	-250	33	3	-100	-5
LB 130N ST	-150000	25600	394	367	99	12	-100	-100	-0.5	-5	-3	393	267	3240	7360	2680	2220	92	376	48	-250	49	3	-100	-5
LB 0+830N ST	-150000	5440	285	319	71	-10	-100	-100	-0.5	-5	-3	252	380	11200	8870	2040	8850	92	313	42	-250	115	2	-100	-5
TNT 1S	-150000	3430	381	239	111	-10	-100	-100	-0.5	-5	-3	199	234	4330	7970	2650	4160	93	144	27	-250	73	-2	-100	-5
TNT 2S	-150000	7390	2700	248	1450	15	-100	-100	-0.5	-5	-3	221	234	9940	47600	2590	2530	86	271	37	-250	132	-2	-100	5
TNT 3S	-150000	5020	427	-200	56	-10	-100	-100	-0.5	-5	-3	198	169	4420	5360	1330	5240	67	118	17	-250	58	-2	-100	-5
TNT 4S	-150000	4920	420	-200	58	-10	-100	-100	-0.5	-5	-3	175	157	3280	5580	1210	2140	-50	95	16	-250	48	-2	-100	-5
TNT 5S	-150000	10800	886	212	148	14	-100	-100	-0.5	-5	-3	244	479	6310	9300	2010	6170	64	152	30	-250	77	-2	-100	-5
01LJ-1S	-150000	2570	581	-200	228	30	-100	-100	-0.5	-5	-3	383	265	13900	5350	4660	6210	460	130	11	-250	81	-2	-100	-5
01LJ-2S	-150000	3830	1000	421	212	25	-100	-100	-0.5	-5	-3	744	1210	4140	12700	3350	6050	168	186	49	-250	233	-2	-100	-5
01LJ-3S	-150000	1810	700	-200	207	-10	-100	-100	-0.5	-5	-3	341	270	5270	3870	3390	6440	495	123	16	-250	159	2	100	-5
01LJ-4S	-150000	1770	928	-200	267	28	-100	-100	-0.5	-5	-3	309	335	7280	6520	5060	12100	1070	142	22	-250	238	-2	100	-5
01LJ-5S	-150000	2730	288	351	59	12	-100	-100	-0.5	-5	-3	539	529	5350	12000	3860	1290	134	215	43	-250	113	-2	-100	-5
01LJ-6S	-150000	2090	413	283	131	19	-100	-100	-0.5	-5	-3	667	572	9070	8710	3090	2240	189	281	35	-250	106	3	-100	-5

Certified By:

D. D'Anna, Dipl. T
ICPMS Technical Manager, Activation Laboratories Ltd.

Date Received: 3-Aug-2001

Date Reported: 13-Aug-2001

Terasol Leach
Trace element
Values = 9999

Regular Pack		***High-Field Strength Elements:***							***Rare Earth Elements:***														***Lithophile Elements:***				
Sample ID:	Bi	S.Q. Ti	S.Q. Cr	Y	Zr	Nb	Hf	Ta	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Ho	Er	Tm	Yb	Lu	S.Q. Li	Be	S.Q. Sc	Mn	Rb
LA 2000N	-5	8600	590	2320	1650	14	52	-1	2670	2680	700	2970	598	157	547	442	90.4	264	35.2	234	35	71	48	579	37700	294
LA 1950N	-5	46500	2060	423	1430	76	50	4	1200	1970	224	841	162	48.6	148	117	20.9	57.7	7.2	41	6	21	81	-500	7360	271
LA 1900N	-5	20700	1050	2280	3040	39	87	2	6470	9730	1060	4420	816	197	735	520	101	286	36.8	227	33	-20	84	776	15700	238
LA 1850N	-5	17600	-400	449	1200	28	39	2	859	1980	190	759	139	38.3	135	99	19.1	53.6	7.2	42	6	39	49	-500	102000	1130
LA 1800N	-5	22900	1050	969	1430	40	42	2	2040	3170	470	1870	335	82.3	291	204	41.0	113	14.6	90	12	68	73	-500	8980	189
LA 1750N	-5	51900	1100	2630	2320	70	79	4	8700	2840	1300	5270	938	228	813	576	110	315	40.1	248	39	50	106	-500	3310	290
LA 1700N	-5	8580	-400	1170	1220	14	33	-1	2700	2380	646	2480	448	112	384	291	53.2	154	19.8	129	19	35	40	-500	43000	177
LA 1650N	-5	9590	555	10100	2360	17	65	2	18500	16500	4240	9880	1780	444	1620	1210	222	606	72.1	434	59	39	97	939	55100	152
LA 1600N	-5	38400	1440	288	1450	52	45	3	871	1670	176	659	111	32.8	97	66	12.0	34.0	4.2	27	3	30	83	-500	8810	350
LA 1550N	-5	27800	1360	315	1760	49	50	2	709	1330	160	633	121	38.2	105	79	13.9	38.9	5.3	32	4	31	107	-500	3060	409
LA 1500N	-5	58700	1680	235	2520	83	71	3	692	1270	151	557	105	32.2	86	62	10.7	30.6	3.7	24	4	-20	114	526	88800	535
LA 1450N	-5	18300	591	376	2010	38	55	1	910	1810	209	807	146	43.3	123	91	16.3	44.7	5.8	36	5	-20	77	-500	3910	653
LA 1400N	-5	12600	-400	17800	2700	26	65	2	20900	21800	5700	23900	2850	692	2560	1790	355	1040	135	876	130	139	94	1070	524000	271
LA 1350N	-5	13700	627	1460	1460	22	38	-1	3350	2710	762	3060	529	128	444	278	52.6	149	18.5	115	17	31	42	-500	18700	238
LA 1300N	-5	58800	1670	573	5630	98	148	3	1500	3110	310	1140	204	69.9	173	124	21.8	58.5	7.4	50	7	51	214	1030	49300	1180
LA 1250N	-5	13900	858	11800	4040	23	85	2	19200	17600	4830	19200	2080	495	1790	1230	232	670	84.7	549	77	73	91	1390	91700	237
LA 1200N	-5	16700	1010	1470	1750	21	41	1	6750	10800	933	3530	580	145	505	307	55.2	154	18.5	118	17	25	82	603	76600	331
LA 1150N	-5	17500	997	2640	2140	26	48	1	10100	8930	1470	5740	942	227	810	496	91.2	254	31.1	186	26	25	60	727	63400	271
LA 1100N	-5	16600	1170	5770	3980	27	83	2	16400	12900	4010	9800	1700	405	1470	971	187	530	66.3	418	60	54	91	1460	140000	355
LA 1050N	-5	18100	1400	1890	2970	32	60	1	6840	7400	998	3830	638	155	555	339	64.2	184	23.5	144	22	40	40	653	70300	252
LA 1000N	-5	17700	1280	3120	3530	24	78	1	10600	13300	1560	5880	984	242	873	558	103	290	35.9	223	32	51	59	1210	117000	359
LA 950N	-5	20800	1260	1700	2010	28	43	1	6920	7300	973	3730	625	152	529	321	57.9	162	20.1	120	18	33	52	511	56500	307
LA 900N	-5	26700	1500	2530	2440	35	50	2	8670	9520	1250	4830	821	196	707	446	80.7	227	27.4	172	24	35	64	758	9920	321
LA 850N	-5	20700	1540	2700	4340	34	79	1	8150	12000	1240	4840	859	202	741	469	86.4	254	32.0	205	30	32	58	1230	77800	380
LA 800N	-5	77300	2600	534	3480	101	77	4	1220	2240	254	957	170	53.8	152	105	18.6	49.2	5.9	38	6	-20	105	749	53100	1140
LA 750N	-5	17600	1310	3320	3130	28	56	1	9170	11900	1360	5330	928	219	789	504	95.2	270	33.5	217	31	58	59	952	61700	317
LA 700N	-5	26100	2660	1420	2110	35	39	1	3320	7650	709	2730	459	114	399	243	44.9	125	15.6	97	14	24	58	516	16000	181
LA 650ST	-5	17600	2250	4660	3470	34	61	1	12200	21500	2100	8330	1470	365	1240	784	146	419	53.6	342	50	138	139	1260	262000	489
LA 600N	-5	55900	2060	2720	3080	63	60	3	9940	16000	1410	5240	860	211	755	446	81.3	219	26.2	155	21	22	133	798	121000	470
LA 550N	-5	29200	2110	4120	3350	41	62	2	15000	28700	2260	8340	1360	342	1200	711	127	350	41.2	245	33	42	143	1450	141000	665
LA 500N	-5	22800	1990	4450	3300	31	58	1	12100	13900	1840	7010	1200	288	1050	657	124	348	42.3	260	36	50	63	1290	16900	354
LA 450N	-5	18500	-400	13800	1560	26	20	1	15800	11500	2500	10300	1660	376	1460	797	155	460	56.1	360	53	25	51	-500	96500	140
LA 400N	-5	44100	2000	24400	4500	48	67	3	28400	36100	6850	26700	2990	685	2750	1640	310	882	106	656	91	134	231	2950	446000	420
LA 350N	-5	86100	5470	21400	13100	92	113	3	24600	39500	6120	23900	2780	635	2540	1560	291	832	104	646	91	142	338	3540	351000	1290
LA 0+250N	-5	32200	998	22400	3970	59	43	2	20800	25000	5440	22500	2580	569	2280	1340	264	783	104	691	100	164	204	964	331000	202
LA 0+200N	-5	12500	677	14400	2020	32	15	-1	13400	10800	1870	7600	1280	284	1170	619	126	385	49.2	321	48	44	107	-500	470000	124
LA 0+150N	-5	64000	4060	19100	8700	74	85	2	18600	32900	4630	12300	2110	474	1960	1100	217	635	81.5	531	78	334	300	2500	2420000	535
LA 0+100N	-5	59800	5700	16000	7000	55	89	2	16100	24900	2440	9610	1690	400	1650	1010	194	551	69.8	429	61	211	277	3820	1140000	639
LA 0+50N	-5	74300	5330	21000	9510	68	116	3	23600	43400	5470	20700	2350	549	2270	1370	253	701	86.0	529	70	317	682	6500	1140000	1100
LA 0+00	-5	144000	6750	6420	3750	87	48	3	12900	16200	1840	7110	1160	269	1100	613	115	330	38.2	237	36	220	244	2410	599000	235
LB 0+750N	-5	122000	7230	5900	7100	93	88	3	15400	30100	2180	7790	1290	330	1200	675	119	329	38.3	231	31	177	789	3820	1060000	3050
LB 0+700N	-5	192000	14800	2670	6710	155	79	3	9830	16500	1160	3930	633	164	603	323	54.5	143	15.5	91	13	121	631	2360	491000	1780
LB 0+650N	-5	102000	6250	1730	4180	77	50	2	3530	10300	690	2470	403	115	386	213	36.5	101	12.2	72	11	107	299	1480	132000	1190
LB 0+600N	-5	92300	8230	2730	4450	63	52	1	7840	14800	1010	3600	586	157	556	309	54.8	147	16.9	98	13	107	434	1870	268000	1270
LB 0+550N	-5	89000	6820	2810	4220	52	51	1	7750	13900	1040	3720	621	169	587	325	57.3	164	19.7	116	17	113	358	2180	438000	1440
LB 0+500N	-5	123000	7920	3490	4240	78	50	2	9390	18100	1290	4600	760	197	712	408	71.3	196	24.1	143	19	94	407	2440	487000	1430
LB 0+450N	-5	48400	2230	2730	3310	76	59	3	7460	14900	1220	4460	739	201	660	402	69.0	194	23.1	136	20	65	200	805	54000	1030
LB 0+400N	-5	47500	2120	1100	4630	104	80	3	2200	4470	512	1900	320	91.8	284	173	30.9	85.4	10.7	64	9	50	206	729	41300	1110
LB 0+350N	-5	31200	2300	2830	2560	50	44	2	7630	17700	1130	4150	680	180	631	382	67.6	186	21.5	129	19	46	131	850	36400	383
LB 0+300N	-5	27300	1850	16000	2600	43	50	2	20700	43500	5370	14200	2420	577	2200	1330	236	684	79.5	490	66	79	186	1520	120000	359
LB 0+250N	-5	24200	2080	14500	3050	41	51	2	16300	24300	2940	11800	2070	490	1830	1150	216	646	79.4	510	73	70	114	1710	70800	217
LB 0+200N	-5	28100	2370	6350	2560	37	45	2	13400	17800	2260	8580	1450	360	1290	771	141	391	46.4	292	40	58	145	1340	48400	357
LB 0+150N	-5	26800	2420	1500	2290	41	38	1	2830	5660	669	2470	415	114	370	208	36.6	103	12.3	76	12	33	64	514	17200	530
LB 0+100N	-5	23600	2350	19200	5130	36	81	3	22900	57200	6320	24100	2940	701	2660	1640	293	845	104	643	86	85	286	2820	217000	973
LB 0+50N	-5	28000	2480	3870	3620	38	63	1	9040	18900	1500	5650	960	239	883	510	89.4	255	30.4	189	26	44	130	1530	67500	793

Terasol Leach
Trace element
Values = 9999

Regular Pack		***High-Field Strength Elements:***							***Rare Earth Elements:***													***Lithophile Elements:***				
Sample ID:	Bi	S.Q. Ti	S.Q. Cr	Y	Zr	Nb	Hf	Ta	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Ho	Er	Tm	Yb	Lu	S.Q. Li	Be	S.Q. Sc	Mn	Rb
LB 0+00	-5	27000	2730	2050	3240	36	56	1	3770	11100	823	2980	503	139	467	274	49.6	137	16.4	95	15	45	127	937	47900	771
LC 0+00	-5	43100	2590	1450	2120	61	37	2	2370	4700	523	1930	339	86.9	303	180	32.2	87.5	11.0	65	11	62	92	740	16400	615
LC 0+100E	-5	36400	3340	12400	6440	74	91	3	13200	12600	2310	9330	1630	391	1460	920	177	517	63.6	417	62	72	130	1580	61600	541
LC 0+200E	-5	36700	3200	3540	5060	63	87	2	7430	19000	1250	4720	817	209	764	493	86.6	249	31.0	191	28	65	175	2140	55100	499
LC 0+300E	-5	22900	1790	15900	4410	57	60	2	18100	24500	4750	13500	2220	508	1990	1130	211	638	79.0	517	75	112	112	924	68400	241
LC 0+400E	-5	28400	1550	19000	2930	42	47	2	24000	29900	6230	24400	2850	629	2470	1410	262	772	93.9	602	86	56	180	1220	13200	53
LC 0+500E	-5	58300	3420	6660	5790	98	84	2	11000	24900	1900	7470	1270	302	1220	778	146	425	54.4	333	47	96	154	2430	166000	321
LC 0+600E	-5	49800	3280	2980	2590	65	40	2	8150	14800	1220	4430	720	190	668	402	69.2	195	22.6	133	19	53	126	1040	22500	1210
LC 0+700E	-5	96800	4850	5680	7080	128	110	4	12700	26700	2070	7510	1260	317	1170	702	126	348	40.5	243	34	68	320	2230	166000	967
LB 130N ST	-5	78700	4010	12400	5450	95	84	3	15200	33500	3040	11700	2080	513	1790	1130	202	575	69.0	434	56	79	429	3340	79700	848
LB 0+830N ST	-5	60500	3690	11000	8690	120	132	3	13800	30500	2670	10200	1720	445	1490	918	169	497	61.4	395	55	178	371	2650	311000	1370
TNT 1S	-5	30400	2530	5740	4950	54	68	2	9250	17000	1770	6810	1170	301	1050	656	119	363	45.4	296	44	227	200	1890	205000	682
TNT 2S	-5	38000	1790	7100	6920	78	84	2	11400	24400	2050	8140	1410	337	1300	798	153	440	55.7	364	55	127	148	1840	999999	477
TNT 3S	-5	27900	3340	3540	3850	48	57	2	4540	14100	1190	4590	808	210	727	440	82.2	241	30.7	198	30	125	123	1370	177000	622
TNT 4S	-5	22000	2570	3230	3460	39	50	1	3770	11000	970	3790	666	165	626	387	72.8	213	26.8	177	26	131	99	1140	234000	476
TNT 5S	-5	36700	6760	6100	4910	58	65	2	8690	19900	1620	6280	1120	276	1090	683	127	365	48.7	304	46	118	151	1850	319000	374
01LJ-1S	-5	17500	1180	2520	8770	53	138	2	2650	9510	622	2330	446	114	447	322	63.0	188	26.3	167	27	117	234	1520	278000	3330
01LJ-2S	-5	27500	1140	23200	13600	66	134	4	13700	17800	4090	12200	2420	494	2250	1770	348	1050	147	971	142	184	382	1940	190000	1480
01LJ-3S	-5	20000	1060	4390	4360	38	74	2	3660	5810	944	3750	712	168	685	526	102	307	39.5	252	39	149	185	1340	147000	1660
01LJ-4S	-5	24400	891	5360	8920	79	136	2	3990	12000	1050	4120	812	194	820	643	126	378	51.2	338	51	187	284	1740	185000	3900
01LJ-5S	-5	28100	2140	14800	5200	40	97	3	14800	9190	2710	10300	1810	441	1640	1230	231	674	84.6	534	75	227	307	3380	117000	1570
01LJ-6S	-5	56300	2180	12700	13300	181	218	6	10900	20800	2240	8930	1660	432	1600	1160	220	633	79.0	494	70	304	358	3090	373000	1820

Terasol Leach
Trace element
Values = 9999
Regular Packa

Sample ID.	Sr	Cs	Ba	P.G.E.s: Ru	Pd	Os	Pt
LA 2000N	42500	13	145000	-10	-20	-10	-10
LA 1950N	61600	15	187000	-10	-20	-10	-10
LA 1900N	30600	10	206000	-10	-20	-10	-10
LA 1850N	22100	29	111000	-10	-20	-10	-10
LA 1800N	24000	5	126000	-10	-20	-10	-10
LA 1750N	61200	14	232000	-10	-20	-10	-10
LA 1700N	23800	8	147000	-10	-20	-10	-10
LA 1650N	42300	6	137000	-10	-20	-10	-10
LA 1600N	29500	20	172000	-10	-20	-10	-10
LA 1550N	43000	18	148000	-10	-20	-10	-10
LA 1500N	72900	13	163000	-10	-20	-10	-10
LA 1450N	38100	17	203000	-10	-20	-10	-10
LA 1400N	60700	7	102000	-10	-20	-10	-10
LA 1350N	42600	9	177000	-10	-20	-10	-10
LA 1300N	92800	45	451000	-10	-20	-10	-10
LA 1250N	58700	9	112000	-10	-20	-10	-10
LA 1200N	48200	13	195000	-10	-20	-10	-10
LA 1150N	53000	11	177000	-10	-20	-10	-10
LA 1100N	65800	14	125000	-10	-20	-10	-10
LA 1050N	55500	8	161000	-10	-20	-10	-10
LA 1000N	73400	18	203000	-10	-20	-10	-10
LA 950N	58100	8	190000	-10	-20	-10	-10
LA 900N	55200	12	191000	-10	-20	-10	-10
LA 850N	53800	14	164000	-10	-20	-10	-10
LA 800N	55200	21	204000	-10	-20	-10	-10
LA 750N	52100	11	144000	-10	-20	-10	-10
LA 700N	48100	8	192000	-10	-20	-10	-10
LA 650ST	91400	13	217000	-10	-20	-10	-10
LA 600N	65700	22	216000	-10	-20	-10	-10
LA 550N	81100	15	384000	-10	-20	-10	-10
LA 500N	61100	12	130000	-10	-20	-10	-10
LA 450N	188000	4	30100	-10	-20	-10	-10
LA 400N	118000	9	93300	-10	-20	-10	-10
LA 350N	118000	23	151000	-10	-20	-10	-10
LA 0+250N	167000	4	44700	-10	-20	-10	-10
LA 0+200N	300000	2	26700	-10	-20	-10	-10
LA 0+150N	209000	11	87700	-10	-20	-10	-10
LA 0+100N	98500	16	112000	-10	-20	-10	-10
LA 0+50N	139000	19	174000	-10	-20	-10	-10
LA 0+00	184000	6	128000	-10	-20	-10	-10
LB 0+750N	141000	65	313000	-10	-20	-10	-10
LB 0+700N	135000	24	284000	-10	-20	-10	-10
LB 0+650N	85900	38	277000	-10	-20	-10	-10
LB 0+600N	86200	37	258000	-10	-20	-10	-10
LB 0+550N	97700	31	245000	-10	-20	-10	-10
LB 0+500N	101000	47	221000	-10	-20	-10	-10
LB 0+450N	83900	39	279000	-10	-20	-10	-10
LB 0+400N	76700	37	224000	-10	-20	-10	-10
LB 0+350N	81000	18	196000	-10	-20	-10	-10
LB 0+300N	99500	10	117000	-10	-20	-10	-10
LB 0+250N	118000	7	102000	-10	-20	-10	-10
LB 0+200N	101000	10	152000	-10	-20	-10	-10
LB 0+150N	75500	16	208000	-10	-20	-10	-10
LB 0+100N	95900	17	122000	-10	-20	-10	-10
LB 0+50N	92900	20	187000	-10	-20	-10	-10

Terasol Leach
Trace element
Values = 9999

Regular Pack				***P.G.E.s:***			
Sample ID:	Sr	Cs	Ba	Ru	Pd	Os	Pt
LB 0+00	86200	12	243000	-10	-20	-10	-10
LC 0+00	48800	15	122000	-10	-20	-10	-10
LC 0+100E	119000	9	144000	-10	-20	-10	-10
LC 0+200E	85300	13	176000	-10	-20	-10	-10
LC 0+300E	182000	7	54400	-10	-20	-10	-10
LC 0+400E	152000	1	46100	-10	-20	-10	-10
LC 0+500E	89900	11	135000	-10	-20	-10	-10
LC 0+600E	66400	28	191000	-10	-20	-10	-10
LC 0+700E	112000	33	233000	-10	-20	-10	-10
LB 130N ST	99500	29	150000	-10	-20	-10	-10
LB 0+830N ST	180000	28	325000	-10	-20	-10	-10
TNT 1S	96900	15	203000	-10	-20	-10	-10
TNT 2S	96500	10	181000	-10	-20	-10	-10
TNT 3S	84100	16	199000	-10	-20	-10	-10
TNT 4S	57300	11	135000	-10	-20	-10	-10
TNT 5S	70000	11	141000	-10	-20	-10	-10
01LJ-1S	104000	67	207000	-10	-20	-10	-10
01LJ-2S	90800	20	145000	-10	-20	-10	-10
01LJ-3S	67200	27	169000	-10	-20	-10	-10
01LJ-4S	112000	57	226000	-10	-20	-10	-10
01LJ-5S	112000	38	192000	-10	-20	-10	-10
01LJ-6S	110000	74	228000	-10	-20	-10	-10

Interpretation of TerraSol℠ Data for the Herb Wahl TNT Project

by: Gregory T. Hill, Enzyme Laboratories, Inc.

17 August 2001

Summary

An east-northeast trending series of oxidation anomalies has been identified in the southern portion of the sampled area. These anomalies are probably connected and could be considered as a single oxidation anomaly which is best developed in the southwest along Line A and least developed in the northeast on Line B. To the north of the oxidation anomaly, an apparent northeast-striking fault is also indicated by peaks in many elements on Lines A and B, and changes in background along Line A. Although gold was not detected in this soil survey, significant gold detections have been made previously by conventional methods.

Design of Soil Survey

A soil survey was carried out on the TNT 1-12 claims where glacial drift covers Jurassic Takomkane granodiorite and minor(?) Scattered remnants of Miocene plateau basalt. Sixty-four gray stony glacial drift soil samples collected along three lines at the TNT property were analyzed by TerraSol℠ (Figure 1). Lines A and B were sampled at 50 m intervals and Line C was sampled at a 100 m spacing. In addition to the soil samples, thirteen silt samples were also collected on the property. Only the soil sample results are discussed here. The sample collection and design phases of the survey were carried out by H. Wahl.

Interpretation

Data from the three sample lines that comprise this soil survey were profiled for each detected element, and these profiles were viewed and compared as a means of interpreting these geochemical results. In order to facilitate the comparison and assessment of the profiles, each element was plotted relative to a standardized Y-axis for all three sample traverses. Thus, the traverse with the highest values for each element dictated the upper limit of the Y-axis. For almost all elements, the maximum values were measured along Line A. The summary map shown in Figure 1 was prepared from review of the profile data.

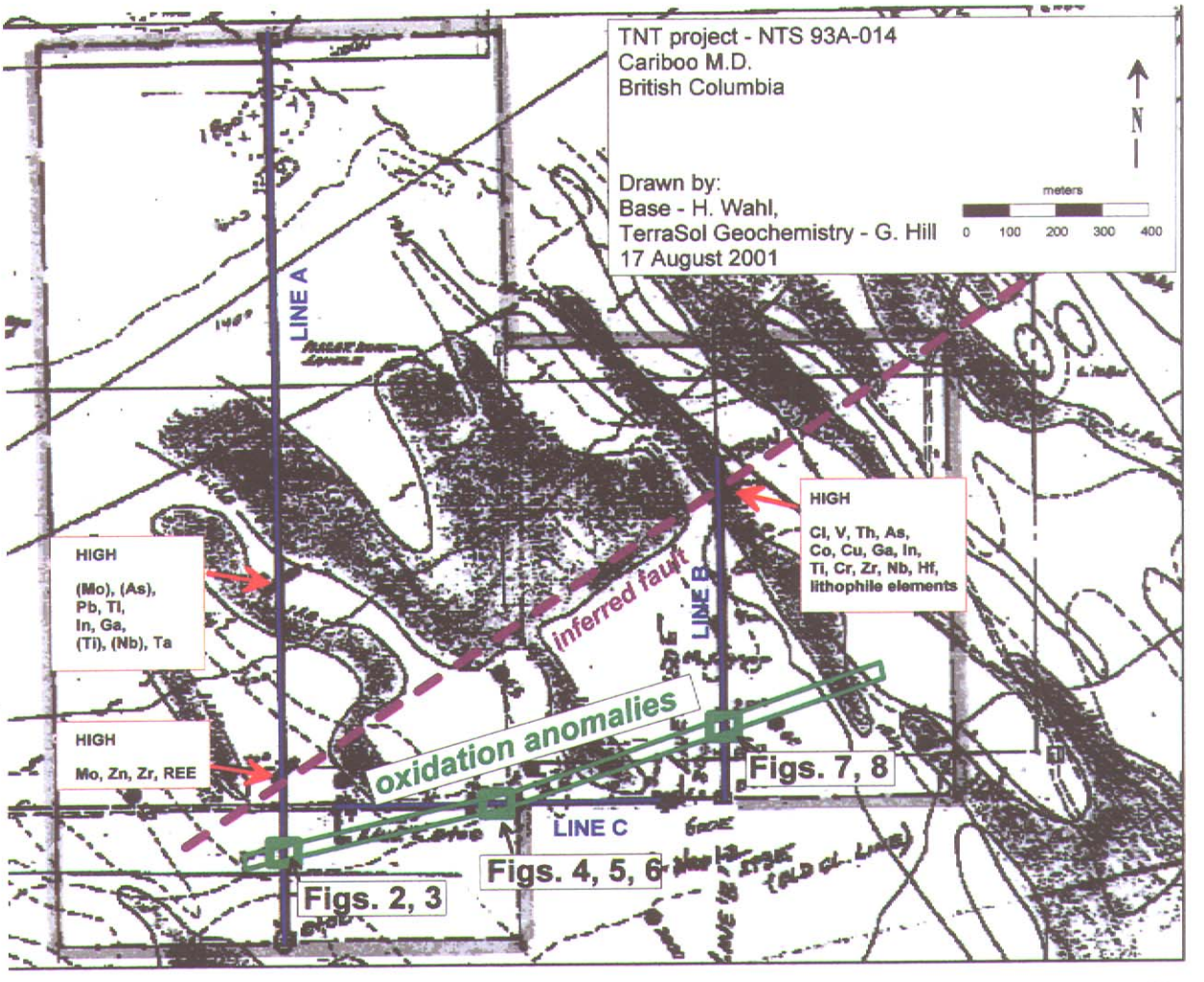


Figure 1. Summary map showing locations of sample lines (blue), east-northeast trend of oxidation anomalies (green), inferred northeast-striking fault (purple), and outlines of Ag-Zn-As conventional soil anomalies (black and white base).

Line A

The highest contrast and best-formed oxidation anomalies occur in the southern portion of Line A. The oxidation suite patterns here indicate a moderate-contrast oxidation anomaly characterized by uranium and selenium halos of differing dimensions, and apical peaks formed by Sb, V, As, and Mo that occupy the central low formed by U and Se (Figure 2). The metals are also enriched in this part of the survey where they are sequentially zoned (Figure 3). Cobalt and copper are most enriched in the southern part of the anomaly, and as one moves north, nickel, cadmium, and zinc zones are encountered.

Molybdenum forms a strong peak at 450N. Zinc, zirconium, and REE also form significant peaks in this area. The background levels of most elements are different to the north of this location relative to those values south of 450N. The background values of nearly all elements

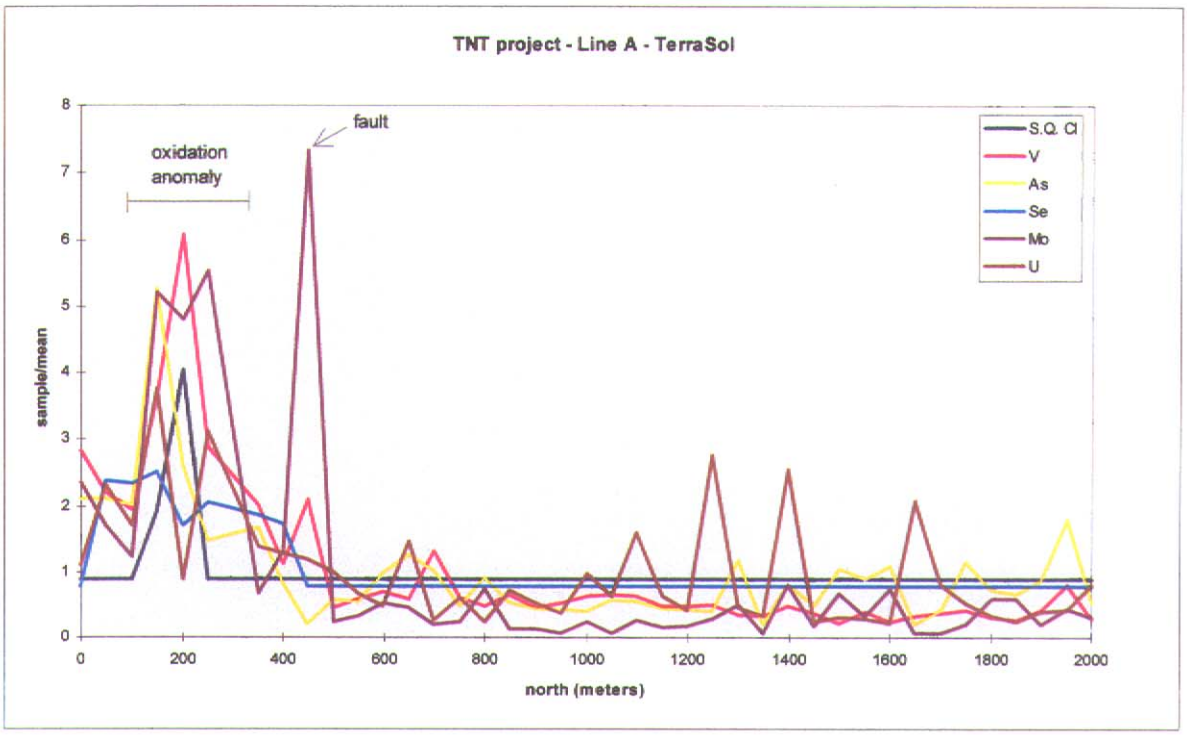


Figure 2. Profile showing mean-normalized data for oxidation suite elements on Line A. The oxidation anomaly is characterized by zoned halo and apical accumulation of oxidation suite elements. A high-contrast peak in Mo suggests the presence of a fault.

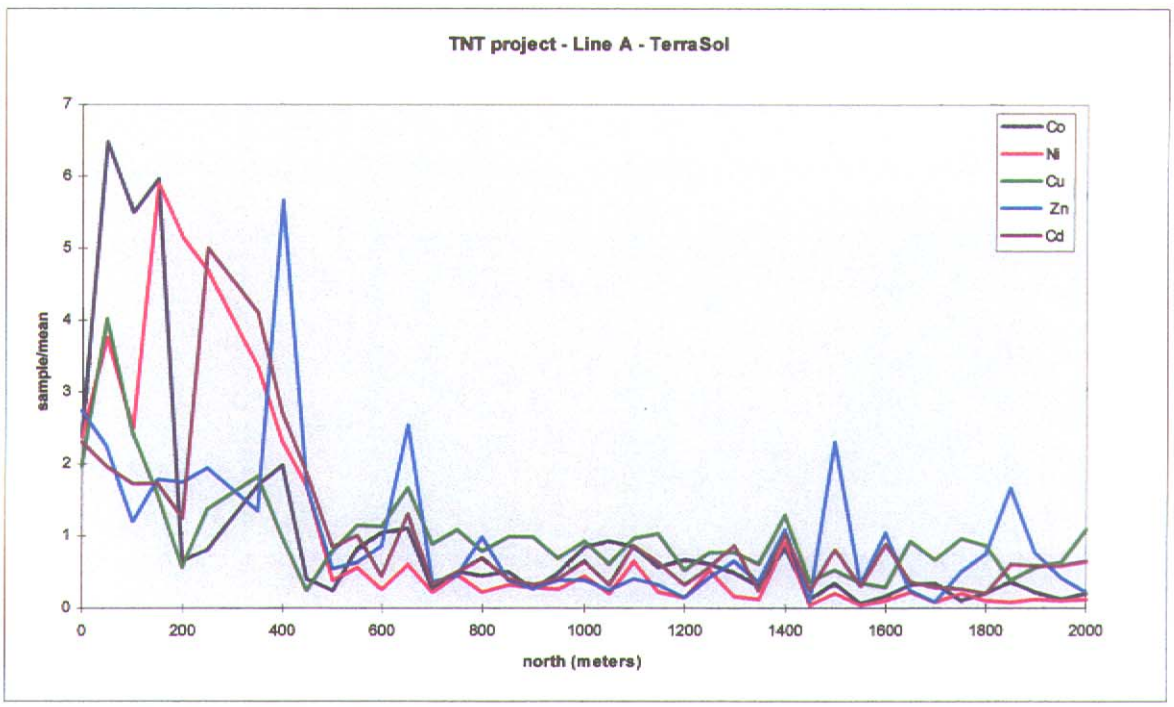


Figure 3. Profile showing mean-normalized data for metals on Line A. Note the high degree of zoning displayed in these patterns.

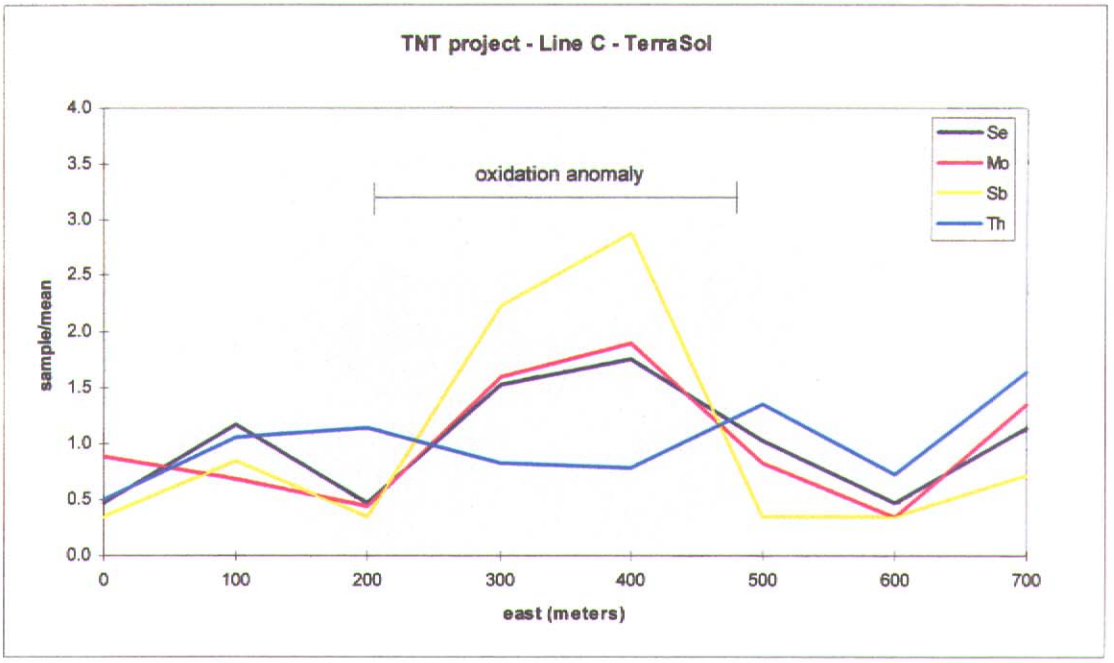


Figure 4. Profile showing mean-normalized data for oxidation suite elements on Line C. The oxidation anomaly here is of lower contrast than that on Line A.

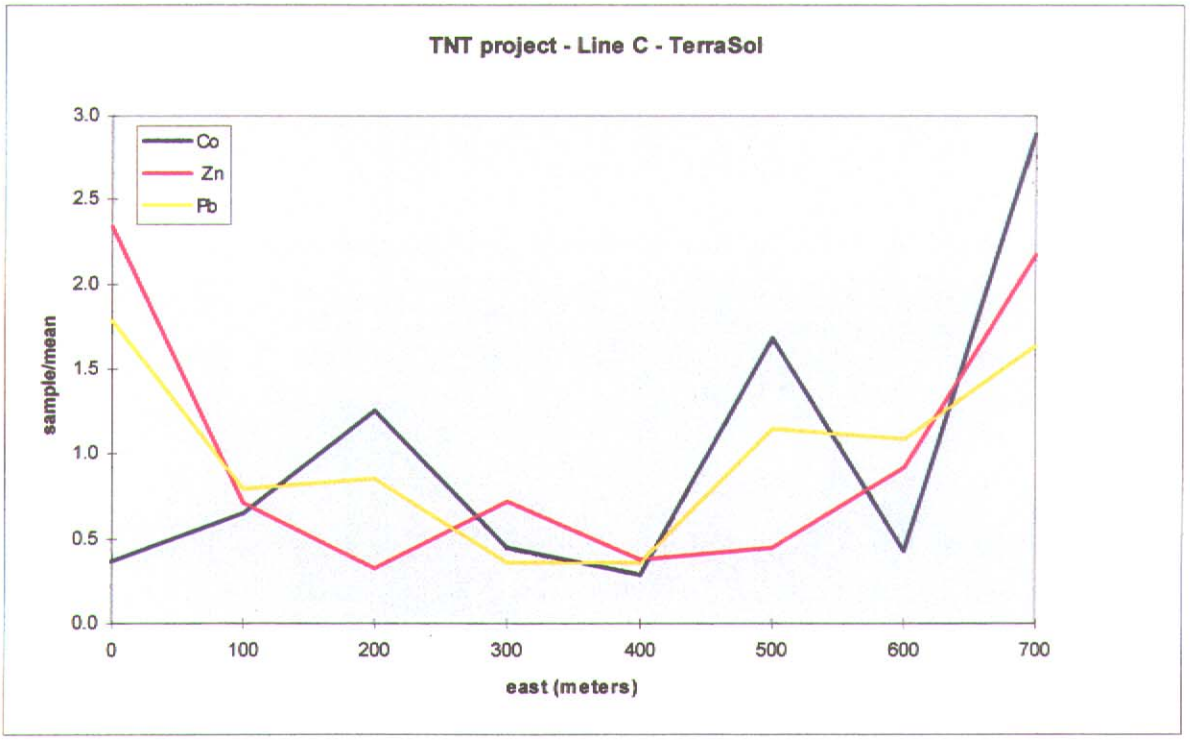


Figure 5. Profile showing mean-normalized data for metals on Line A. Cobalt is distributed into a relatively narrow halo whereas Zn and Pb form broader halos. Zinc forms a combination anomaly in which Zn is mostly contained in a halo but is also weakly enriched in an apical anomaly. Lead forms a nested halo patterns in which this element is weakly enriched in an inner halo and most prominently distributed into a broader halo at or beyond the limits of the sample line.

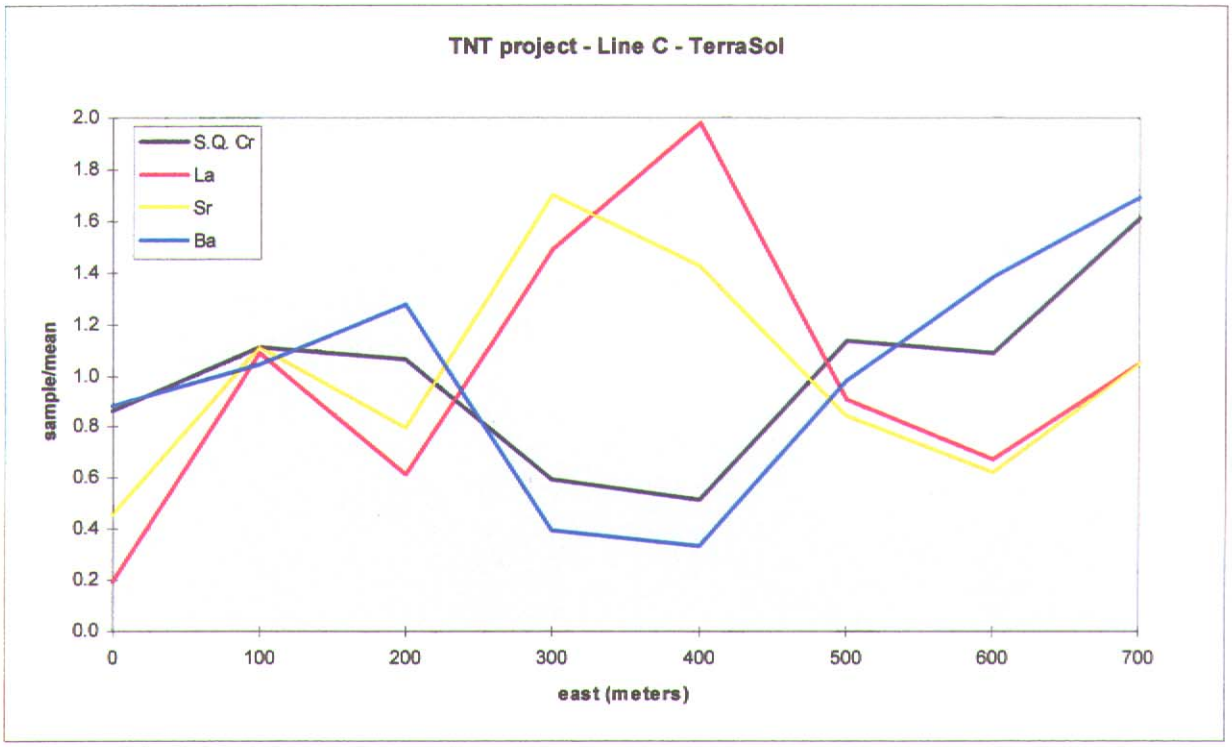


Figure 6. Profile showing mean-normalized data for chromium, lanthanum, strontium, and barium on Line C. Lanthanum and Sr are dominantly concentrated in to apical highs but Cr and Ba form halos.

Conclusions and Recommendations

These TerraSol[SM] data define an east-northeast trending string of oxidation anomalies in the southern portion of the sampled area. The anomaly along the southern portion of Line A is strongest, and the anomaly is of low to moderate contrast on Line C. At Line B, the anomaly is quite weak and difficult to recognize, and in fact may be absent. Thus, additional exploration should focus on the subsurface beneath the Line A and C oxidation anomalies and the intervening area as well as the southwestern projection of the anomaly. Although no gold was detected, it may nonetheless be present as halogen and/or organic complexes within the oxidation anomaly at levels below the 5 ppb detection limit. It is also not unreasonable to expect that anomalous gold zones were simply not sampled at 50 or 100 m sample spacings. According to prior sampling, there is clear evidence of significant gold concentrations in surface samples as determined by conventional methods. In fact, in many cases, gold has been observed in close proximity to the oxidation anomaly and fault trends determined in this study. Therefore, gold potentially accompanies the inferred mineralized zone(s) predicted by the TerraSol[SM] data.

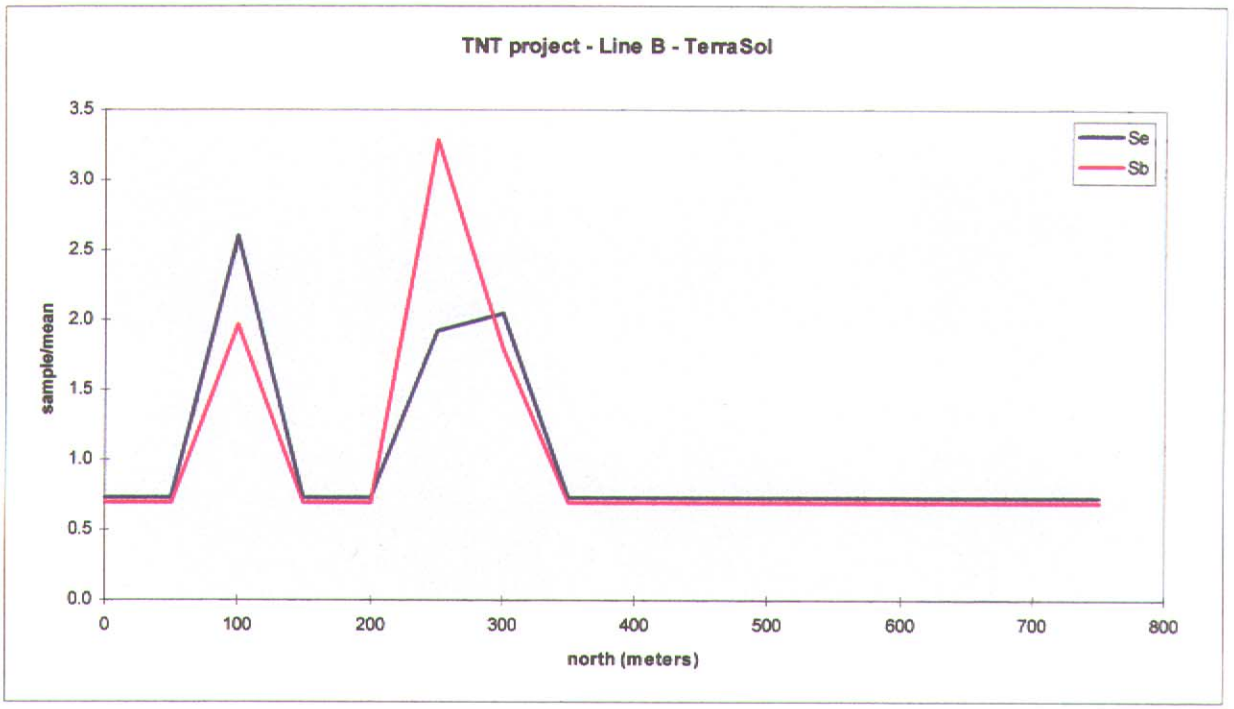


Figure 7. Profile showing mean-normalized data for two oxidation suite elements on Line C. This apparent oxidation anomaly is of very low contrast and formed by very few oxidation suite elements.

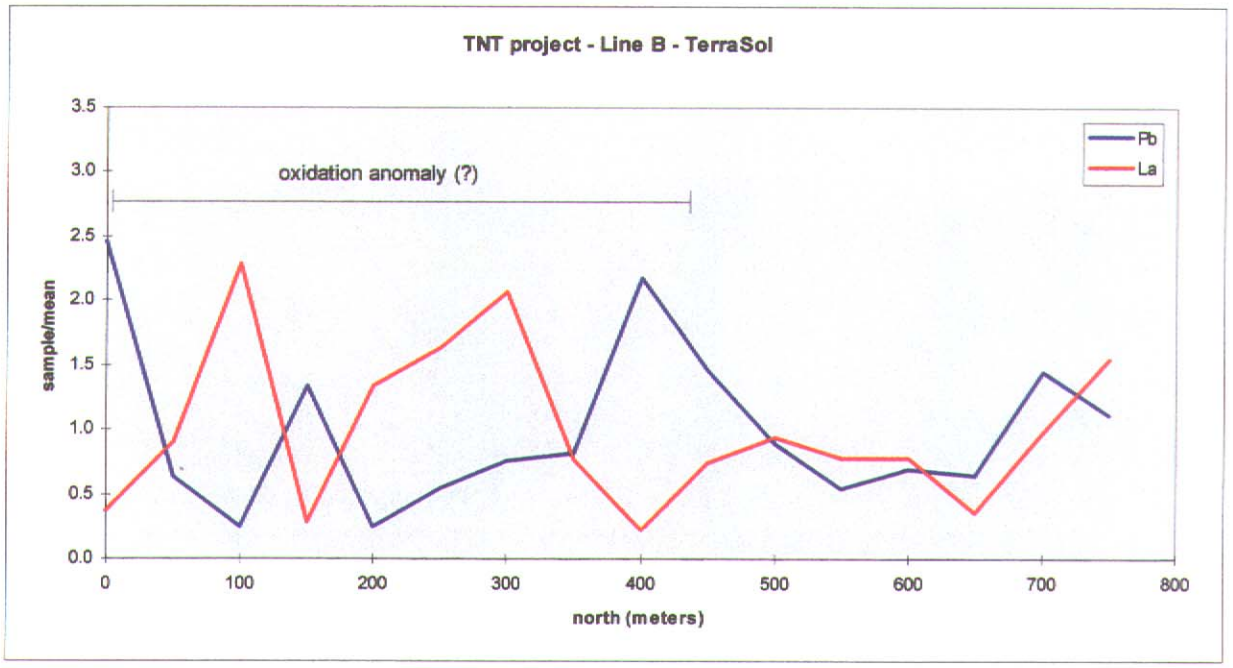


Figure 8. Profile showing mean-normalized data for lead and lanthanum on Line C. Poorly-formed, low-contrast patterns such as these are difficult to interpret but suggest the presence of a weak oxidation anomaly in this part of the soil survey.

are higher to the south of about 450N. However, the barium background is higher to the north of 450N. Interestingly, 450N lies along the projection of a linear trend defined by the termini of conventional soil silver anomalies. To the northeast where this trend intersects Line B near 700N, peaks in many oxidation suite elements, metals, high field strength elements, and lithophile elements also occur. Thus, the combination of conventional geochemistry and TerraSol[SM] geochemistry suggest the presence of a northeast-striking fault here.

In addition, the northeast-striking structural zone indicated on the base map is also indicated by highs in many elements where this mapped feature crossed Line A, near 800N.

Line C

A low-contrast oxidation anomaly is indicated by Line C, suggesting a mineralized zone between 300-400E. This anomaly is manifest by subtle complementary halo and apical peak patterns developed among Se, Mo, Sb, and Th (Figure 4) and well as other oxidation suite elements. Metals such as Co are weakly enriched in relatively narrow halos whereas Zn and Pb form broader halos that appear to extend beyond the ends of the sample line (Figure 5). Cadmium, Ni, and Ga form very subtle highs that also peak at the center of the anomaly.

The high field strength elements, REE, and lithophile elements are also enriched in apical highs and/or halos (Figure 6). The high field strength elements, Ti, Cr, and Nb are enriched in halos surrounding a central low at 300-400E. Yttrium and the REE are distributed into combination anomalies characterized by highs at 300-400E that appear to be surrounded by slightly lower-contrast halos near the ends of the sample lines. Most of the lithophile elements are distributed into low-contrast halos. Strontium, however, forms a weak high at 300-400E.

Line B

Most of the oxidation suite elements do not appear to form patterns indicative of an oxidation halo on Line B. Nonetheless, the apparent central lows within double-peak patterns in the Sb and Se profiles occur along trend with the oxidation anomalies defined on Line A and Line C (Figure 7). A few other elements such as lead and lanthanum form patterns that may be indicative of an oxidation anomaly here (Figure 8). However, recognizing an oxidation anomaly along Line B is tentative. If one exists, it is clearly of low-contrast and very poorly developed relative to those observed at Lines A and C. As such, these data indicate that further exploration along this trend of oxidation anomalies should be focused nearer to Line A and Line C. As discussed above, the peak near 700N occurs along the projection of an inferred northeast-trending fault based on the conventional geochemistry, the TerraSol[SM] data, and the presence of a creek parallel to the inferred structure (Figure 1).

Table 1. Univariate statistics generated from the TNT project TerraSol[SM] (ICP-MS) data (TerraSol[SM] job #22805, report #22517). n/a - not applicable due to too few or no detected values. Statistics calculated after ½ detection limit values substituted for not detected values.

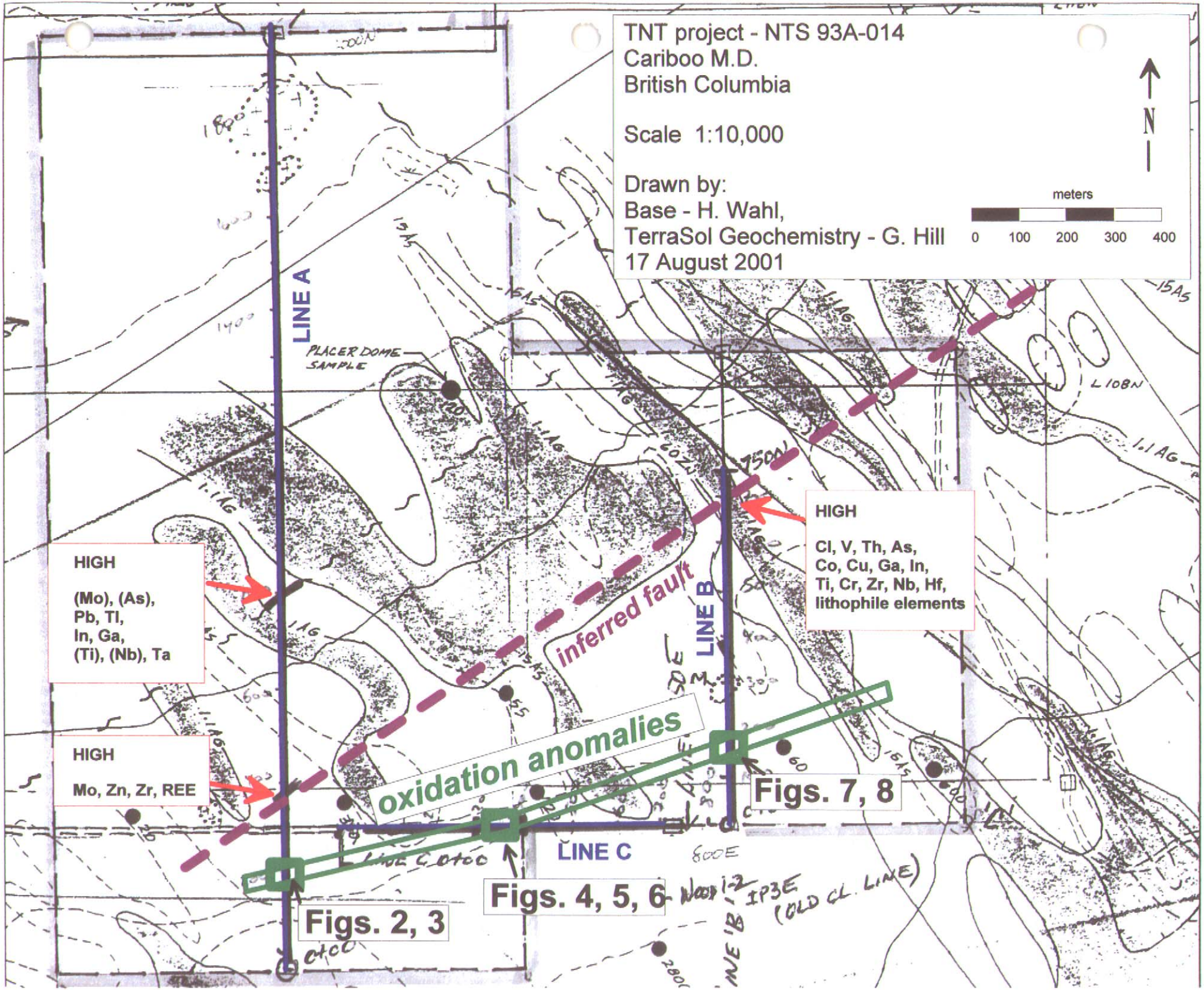
Element	Cl	V	As	Se	Mo	Sb	Te	W	Re
Det. Limit (ppb)	150000	50	50	200	10	10	100	100	1
Maximum	338000	25600	2700	421	1450	66	n/a	n/a	n/a
Mean	n/a	1999	87	100	25	7	n/a	n/a	n/a
Median	n/a	3190	174	100	47	5	n/a	n/a	n/a
Std. Dev.	n/a	4775	347	93	189	12	n/a	n/a	n/a
StdDev+Median	n/a	7965	521	193	236	17	n/a	n/a	n/a

Element	Au	Hg	Th	U	Co	Ni	Cu	Zn	Pb	Ga	Ge	Ag	Cd
Det. Limit (ppb)	5	3	0.5	0.5	5	100	50	200	50	5	10	250	5
Maximum	n/a	n/a	744	1210	18700	47600	5060	12100	1070	572	83	125	238
Mean	n/a	n/a	215.8	187	690.4	1373.6	597	800.1	102.1	111.5	6.3	125	23.2
Median	n/a	n/a	214	174	1850	3470	1080	1400	72	176	16	125	38
Std. Dev.	n/a	n/a	118.41	220.5	3676.7	8172.3	1053.7	2201.6	145.3	131.2	19.97	0	50.6
StdDev+Median	n/a	n/a	332.41	394.5	5526.7	11642.	2133.7	3601.6	217	307.2	35.97	125	88.8

Element	In	Sn	Tl	Bi	Ti	Cr	Y	Zr	Nb	Hf	Ta
Det. Limit (ppb)	2	100	5	5	200	400	2	4	4	1	1
Maximum	4	50	15	3	192000	14800	24400	13600	181	218	6
Mean	1.5	50	4	2.5	26087.8	1183.6	2973.4	2522.2	40	61.3	1.8
Median	1	50	3	3	28100	2060	3540	3480	49	60	2
Std. Dev.	0.83	0	2.22	0	33646	2366.8	6750.4	2714.27	31.7	32.44	0.96
StdDev+Median	1.83	50	4.72	2.5	61746	4426.8	10290.4	6194.27	80.5	92.74	2.82

Element	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Ho	Er	Tm	Yb	Lu
Det. Limit (ppb)	10	5	2	2	1	0.5	7	1	0.2	0.6	0.5	1	1
Maximum	28400	57200	6850	26700	2990	701	2750	1790	355	1050	147	971	142
Mean	6644.9	7277.4	1329.1	4801.6	743.3	183.3	651.2	442.1	83.6	237.6	29.9	188.5	27.2
Median	9170	13900	1360	5270	928	219	810	520	101	286	36	227	32
Std. Dev.	6820.4	11379.	1733.2	6368.1	785.1	178.4	710.4	452.1	86.2	252.4	32.2	207.9	29.6
StdDev+Median	15990.	25279.	3093.2	11638.	1713.	397.4	1520.4	972.1	187.2	538.5	68.1	434.9	62

Element	Li	Be	Sc	Mn	Rb	Sr	Cs	Ba	Ru	Pd	Os	Pt
Det. Limit (ppb)	20	5	500	50	5	10	1	100	10	20	10	10
Maximum	334	789	6500	2420000	3900	300000	74	451000	n/a	n/a	n/a	n/a
Mean	40.6	78.8	664	66805.6	401	50548.1	14	176481.5	n/a	n/a	n/a	n/a
Median	65	130	1230	91700	477	84100	14	176000	n/a	n/a	n/a	n/a
Std. Dev.	72.7	148.	1099.7	359754.	709.4	47492.5	14.99	72508.1	n/a	n/a	n/a	n/a
StdDev+Median	137.8	278.	2329.7	451454.	1186.4	131592.	29.29	248508.1	n/a	n/a	n/a	n/a


TNT project - NTS 93A-014
Cariboo M.D.
British Columbia
Scale 1:10,000
Drawn by:
Base - H. Wahl,
TerraSol Geochemistry - G. Hill
17 August 2001
N
meters
0 100 200 300 400
LINE A
LINE B
LINE C
PLACER DOME SAMPLE
inferred fault
oxidation anomalies
HIGH
(Mo), (As), Pb, Tl, In, Ga, (Ti), (Nb), Ta
HIGH
Mo, Zn, Zr, REE
HIGH
Cl, V, Th, As, Co, Cu, Ga, In, Ti, Cr, Zr, Nb, Hf, lithophile elements
Figs. 2, 3
Figs. 4, 5, 6
Figs. 7, 8

CARIBOO M.D.
93A-6E
93A-3W

L.6317

L.9577

Creek

Woodjam

PROPERTY OUTLINE

OLD CUTLINE

AEROMAG LOW

FRACTURED G.D. ++EPIDOT UM250A&B

OLD BL WOOD-1

CENTER AEROMAG LOW

TVS

TRJG

L132N

L124N

L116N

L108N

PLACER DOME 1984 AR12479

WOOD-1
WOOD-2

LINE 14

2000N

OUTLINE TNT

TNT-XS

LINE 'C'

800E

LINE 'B'

2800

CIRCLE RESOURCES GRID AREA 1988 AR17480

CONTOUR AREAS CIRCLE RESOURCES DATA FOR PPM ZN-AS-AG

PLACER DOME SAMPLE

1100 PPB Au PAN CONC.

WOODJAM CREEK

DEERHORN MAIN LINE

DEERHORN 11 KM

SOUTH ROAD

025-MT-3R
025-MT-4R
025-MT-1R,3R
MALC.

500 0 500 meters
scale 1:10,000

LEGEND

- CUT BLOCK, ROAD, LANDING
- SILT SITE W/SAMPLE No.
- FLOAT SAMPLE SITE
- ROCK SAMPLE SITE
- SOIL SAMPLE SITE, PPB Au
- TERRASOL OXIDATION ANOMALY
- OVERBURDEN- GLACIAL DRIFT
- Tvs TERTIARY VOLCANICS & SEDIMENTS
- TrJg TAKOMKANE GRANODIORITE

REVISED 06 JULY 1997
REVISED JULY 2001

MEGATON PROJECT+TNT 1-12

GEO-COMPOSITE

H. WALL P.ENG. B.C. | Nov. 1996 | ① | FIG. 6