84-1021 - 13171

TAKLA - RAINBOW GROUP

A GEOCHEMICAL SOIL SURVEY

SPECIFIC CLAIMS INVOLVED:	Takla 5964 (11) Rainbow 5965 (11) T.R.A. Not yet received
MINING DIVISION:	Omineca
SPECIFIC N.T.S. LOCATION:	93N/11W
LATITUDE AND LONGITUDE:	55°39'N 125°17'W
OWNER OF CLAIMS:	Imperial Metals Corporation
OPERATOR:	Imperial Metals Corporation
AUTHOR:	J.W. Morton (R. Durfeld)
DATE:	November 1984

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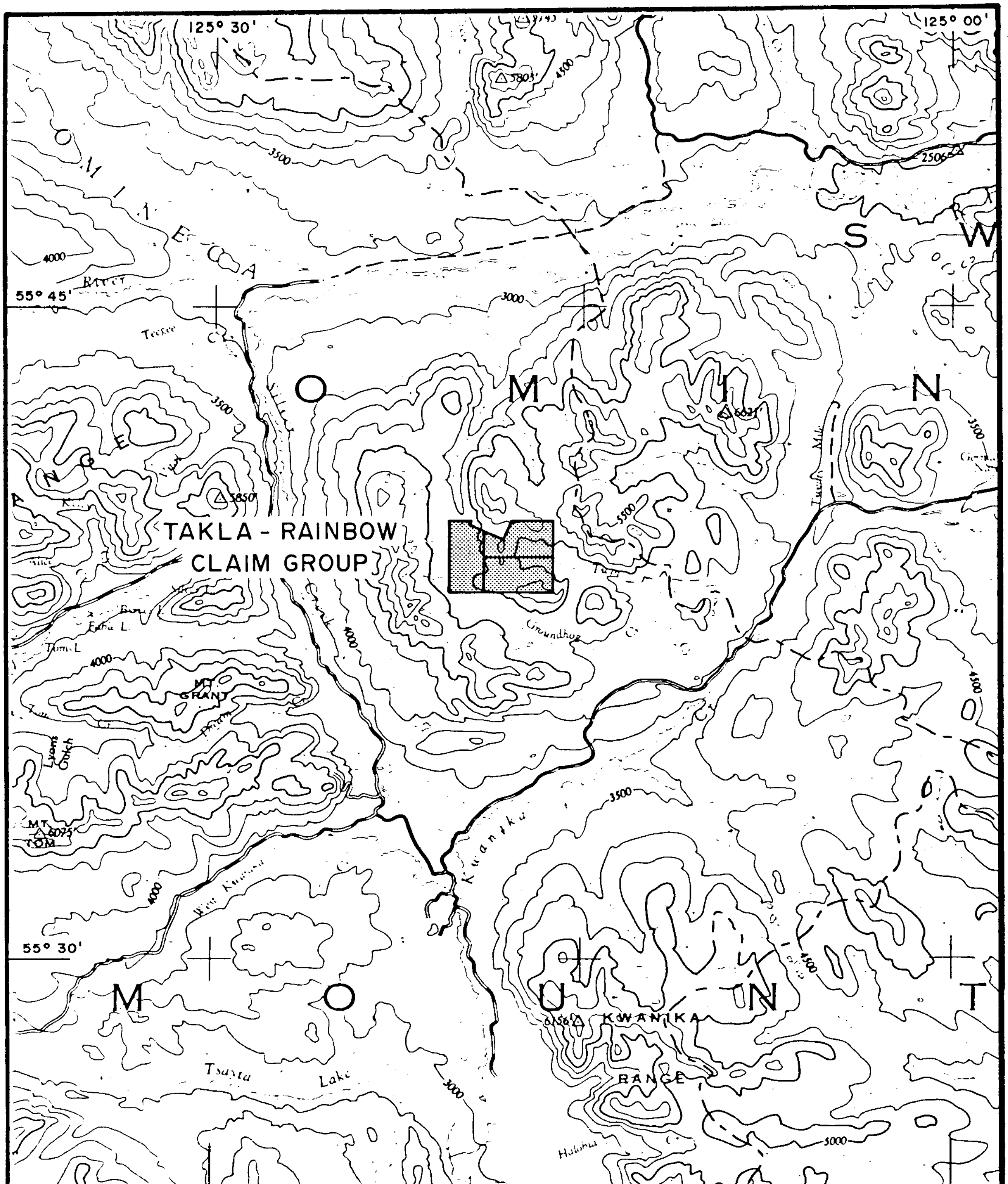
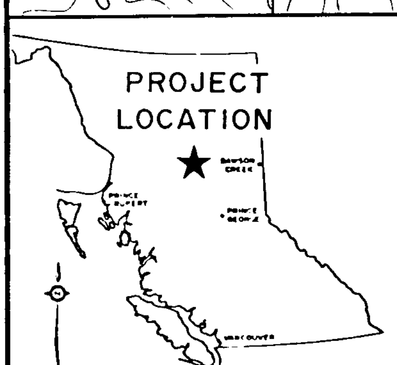




IMPERIAL METALS CORPORATION

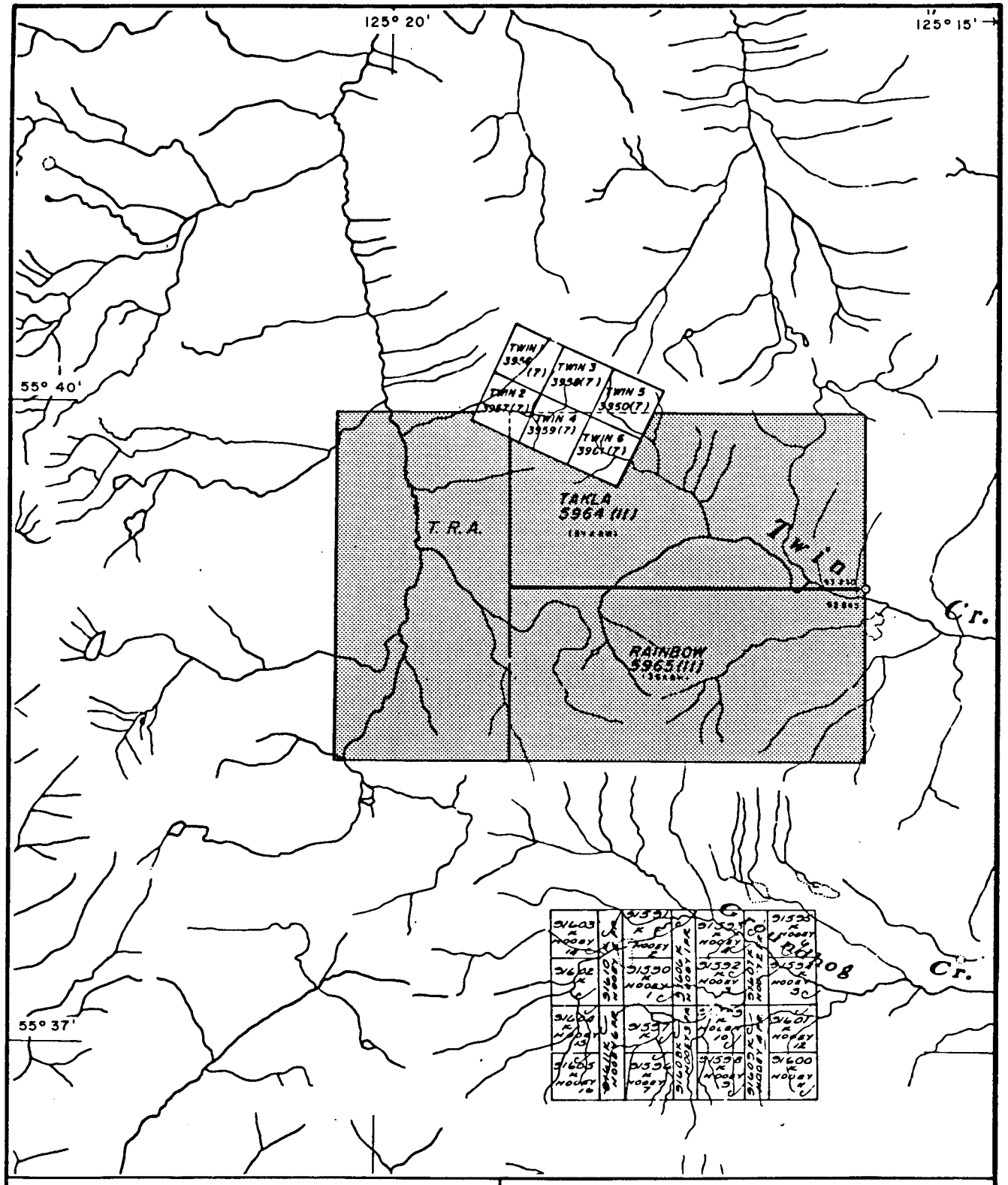
TAKLA - RAINBOW

FIGURE I N.T.S. 93N

LOCATION MAP

Km 5 0 5 10 Km

SCALE: 1:250 000	GEOLOGIST: W. MORTON
DATE: NOVEMBER 1984	DRAWN BY: S. HAWORTH



IMPERIAL METALS CORPORATION

TAKLA - RAINBOW

FIGURE 2 N.T.S. 93N/11W

CLAIM MAP

Km 1 0 1 2 Km

SCALE: 1:50 000	GEOLOGIST: W. MORTON
DATE: NOVEMBER 1984	DRAWN BY: S. HAWORTH

INTRODUCTION

(i) General Geographical and Physiographical Position

The Takla - Rainbow claim group is located in North Central B.C. approximately 130 kilometers northwest of Fort St. James, B.C. and 145 kilometers northeast of Smithers, B.C. The claims occur within the Twin Creek drainage, a tributary of Kwanika Creek, within the Omineca Mountains. Elevations on the claim group vary between 1,450 and 1,800m (4,750 to 5,900 ft.). Terrain on the claim group consists of a broad gently sloping valley that rises into mountains to the north and to the south.

Vegetation on the Takla - Rainbow Group consists of semi-open spruce-pine forest in the lower reaches of the valley and open alpine conditions at higher elevations.

Access to the bottom of the Twin Creek valley is gained by the Manson Creek - Takla Landing dirt road. Alternatively, access to the Takla - Rainbow Group is by helicopter.

(ii) Property Definition (Published Geology)

Placer gold occurs, and has been worked for many years, in the lower reaches of Twin Creek and on Kwanika Creek.

The Takla - Rainbow claims cover an area that was formerly partially covered by claims staked in 1972 by Westfrob Mines. In the 1972 G.E.M. publication*[1] reference is made to work completed by Westfrob Mines on a copper anomaly occuring in volcanic rocks cut by a monzodiorite intrusion and syenite dykes. There is no mention in Westfrobs summary that any gold determinations were undertaken.

Armstrong *[2] describes the geology of this area as being within part of a sequence of Upper Triassic (and later) Takla Group basic volcanic rocks. He indictes that this area is close to the contact with Upper Jurassic to Lower Cretaceous Omineca intrusions. The Takla - Rainbow claims are located approximately 10 kilometers east of the published location of the Pinchi Fault Zone.

In 1983 Imperial Metals Corporation completed a regional geochemical silt survey in the area and detected a significant gold-

(ii) Property Definition (Published Geology) Cont'd

copper-zinc anomaly in the Twin Creek watershed. The Takla-Rainblow Claims were subsequently staked to cover this anomaly.

*1 Armstrong, J.E., 1946, Map 844 A-Takla: The Geological Survey of Canada.

*2 Province of British Columbia Ministry of Mines and Petroleum Resources, 1972, Report to the Minister on Geology, Mining and Exploration in B.C.

(ii) Property Definition (Additional Geology)

Petrographical (thin section) analyses of four specimens collected from four distinct areas of the study area indicates that the claims are predominantly underlain by an alkalic suite of subvolcanic rocks. Textures of specimens described indicate that the predominant precursor was a porphyritic trachyte. Well developed propylite-carbonate and potassium alteration zones have been developed in these alkalic subvolcanic rocks. Local areas of silica- sulfide infilling and quartz veining have been superimposed on these undersaturated rocks. Coarser grained syenite intrusives occur as sequals to the porphyritic units.

(ii) Economic Potential

Gold mineralization associated with alkalic subvolcanic rocks offers the greatest single potential to explain the persistent gold anomaly that occurs on the Takla - Rainblow group. The recently discovered QR deposit (Dome Mines) located in the Cariboo Region of British Columbia at Quesnel Forks occurs as a high grade disseminated deposit in a similar suite of rocks.

The additional occurrence of a significant gold-zinc anomaly and an isolated lead-barium-silver anomaly, however, suggests that other types of mineralization may also have occured.

(iii) Summary of Work Completed

A total of 12.2 kms of grid was established on the property using

compass and hip chain methods for control.

A total of 445 soil samples were collected and were shipped to Acme Analytical Labs in Vancouver for analyses. Samples were analysed using multi-element inductively coupled argon plasma-techniques with gold analyses obtained by atomic absorption methods. Lab procedures are included in the geochemical certificates appearing in the Appendix of this report. Sampling procedures consisted of digging samples with mattocks from the Bm horizon (usually about 20 cm deep) and placing the samples in brown paper bags.

Four rock samples were sent to Vancouver Petrographics Ltd. in Vancouver for thin sectioning and petrographic analyses. Results of petrographic analyses appear in the Appendix of this report.

Work was completed on the Takla and Rainbow claims.

DETAILED TECHNICAL DATA AND INTERPRETATIONS

A very widespread soil gold anomaly (greater than 40 ppb) covers much of the grid. The soil gold anomaly may be cut off to the southwest of a southeast trending diagonal passing through 14+00E, 0+50S (although only limited sampling has yet been completed in the southwest quadrant and this assumption may be premature).

A zinc anomaly (greater than 300 ppm) occurs in an elliptical area centered on 17+00E, 0+00N. The long axis of the ellipse is approximately 1,000 meters and trends northwest-southwest. The short axis of the ellipse is approximately 400 meters.

A small, moderate intensity, lead-silver-barium anomaly occurs over an area of approximately 100 by 400 meters in the extreme southeastern corner of the grid.

A small, moderate intensity, lead anomaly occurs over an area of approximately 100 meters by 400 meters immediately south of 16+00E, 0+00N (approximately the center of the larger zinc anomaly).

Elevated soil copper values occur in the northern region of the grid.

Itemized Cost Statement

Manpower

Morton	August 3	1 day $ $200/day	$ 200
R. Durfeld	August 5 - August 14, 1984	10 days @ $200/day	2,000
T. Mackenzie	Agusut 4 - August 15, 1984	12 days @ $115/day	1,380
A. Wood	August 4 - August 15, 1984	12 days @ $75/day	900
Camp & Hotel Costs	34 man days @ $40/day		1,360
Helicopter Costs	2.5 hours @ $450/hour		1,025
Geochemical Costs	445 samples @ $10.50 each		4,672
Consumables			200
Petrographic Analyses, Contract Costs			218
Communication (radio-tel lease etc.)			100
Vehicle Costs	2,100 km @ 25¢ km		525
Report Preparation and Drafting			750
		TOTAL	$13,330

AUTHOR'S QUALIFICATIONS

I, JAMES W. MORTON, CERTIFY THE FOLLOWING:

I graduated from Carelton University in 1971 with a Bachelor of Science in Geology.

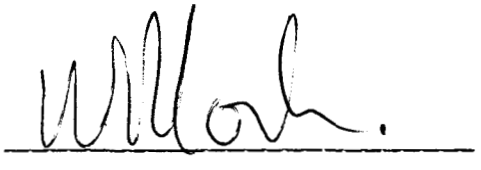
I graduated from the University of British Columbia in 1976 with a Master of Science in Soil Science.

I have worked for various mining and exploration companies since 1968.

I am presently a permanent staff geologist with Imperial Metals Corporation of Vancouver, B.C.

I supervised the work described in this report.

I have been on the Takla - Rainbow property at periods not covered by this report.



J.W. Morton,
Exploration Geologist

AUTHOR'S QUALIFICATIONS

Rudolf Durfeld
2029 S. Lakeside
Williams Lake, B.C.

Education: B(sc) Geology, 1972, The University of British Columbia.

Experience: Continuous geological employment since 1972 with:
Amoco Canada Petroleum Ltd.
Norcen Energy Resources Ltd.
Fox Geological Consultants Ltd.
Durfeld Geological Management Ltd.

Professional Organizations: The Canadian Institute of Mining and Metallurgy (member).
Geological Association of Canada (fellow)

TR-6253: ALTERED (EPIDOTE-PYRITE) TRACHYTE.

This sample is a volcanic rock which appears to have consisted of a mass of fine K-spar grains. Alteration by epidote has been intense and only narrow streaky patches remain within the mass of epidote. Pyrite mineralization is associated with the epidote. Minerals are:

epidote	55%
opaque (pyrite)	18
K-spar	10
quartz	4
biotite	3
actinolite	8
sericite	2

The original rock consisted of a mass of shapeless interlocking K-spar grains 0.05 to 0.2mm in size. No indications of any other minerals are present. Much of the feldspar has been replaced by a mass of epidote; only a few patches remain and these are speckled with fine epidote. The epidote forms a mass of rounded grains about 0.05mm in size which grade into patches where it forms subprismatic grains up to 0.4mm in size. Pyrite is intergrown with the epidote and forms rounded to cubic grains 0.1 to 0.5mm in size. Aggregates are common. Fine pyrite grains cluster around the aggregates within the mass of epidote. Quartz forms shapeless grains up to 0.3mm in size which occur within the mass of epidote and are usually intergrown with the pyrite aggregates.

Sericite, biotite and actinolite are also part of the alteration assemblage. The sericite forms extremely fine flakes which replace small remnant patches of K-spar. The actinolite forms a mass of feathery grains about 0.05mm in size which occur in patches a few millimeters in size. In places these coalesce to clusters of bladed grains up to 0.2mm in size. Fine epidote is intergrown with the actinolite and the actinolitic patches grade into the larger masses of epidote. Sericite and actinolite are sometimes intimately intergrown. In one fairly large patch of sericite there are fine flakes of greenish biotite intimately intergrown with the sericite; biotite is dominant in places withint he patch. A few flakes of biotite up to 0.3mm in size occur around the pyrite grains and are intergrown with epidote and quartz near the pyrites.

TR-6262: ALTERED (CARBONATE) PORPHYRITIC TRACHYTE.

This sample is a subvolcanic or volcanic rock which originally consisted of feldspar (K-spar ?) phenocrysts crowded within a groundmass of small K-spar laths. Intense carbonate alteration (siderite ?) has resulted in complete replacement of the phenocrysts and much of the groundmass. Carbonate veins are present. The carbonate is probabaly siderite since it does not react with dilute acid, has very high relief and is stained brown with limonite. Minerals are:

feldspar phenocrysts	30%	(100% altered to carbonate,minor chlorite,sericite)
K-spar	30	
carbonate (siderite?)	30	
sericite	8	
opaque (pyrite ?)	1	
Fe-Ti oxide	1	(mainly hematite ?)
chlorite	minor	
quartz	trace	

Phenocrysts are tabular and 0.6 to 2.0mm in size. They now consist of a mass of fine carbonate grains, sometimes with small patches of fine chlorite occuring within the core or in thin streaks along the length of the grains. One altered phenocryst contains small quartz grains intergrown with the chlorite. Very fine sericite flakes are often intimately mixed with the carbonate. Ragged rounded grains of Fe-Ti oxide less than 0.05mm in size are scattered about the mass of carbonate.

The groundmass consisted of a mass of K-spar laths up to 0.5mm in length along with shapeless grains of about the same size occuring between the laths. The K-spar is very cloudy with extremely fine sericite and carbonate occurs in partly interconnected ragged patches of very fine grains which replace the feldspar. Chlorite is sometimes intergrown with the carbonate but most of the chlorite in rock occurs in the altered phenocrysts. Fine ragged grains of Fe-ti oxide are disseminated about the groundmass within the feldspar and carbonate. Raggged aggregates up to 0.1mm in size are common.

The carbonate also occurs in a few veins, one of which is about 2mm wide. In these the carbonate forms subangular grains up to 0.5mm in size. Small amounts of fine quartz are intergrown with the carbonate in the veins. In the narrower veins there are also small ragged aggregates of an opaque mineral intergrown with the carbonate. These could be Fe-oxide. A few very thin stringers of this material occur.

Most of the opaques (pyrite judging from hand specimen) form ragged subcubic grains up to 0.3mm in size which are scattered about the groundmass.

TR-6272: ALTERED (EPIDOTE-CHLORITE) TRACHYTE PORPHYRY.

This sample is a medium to fine grained porphyritic subvolcanic rock originally consisting almost entirely of K-spar. Alteration by epidote and chlorite has occured in the groundmass and the phenocrysts. Minerals are:

K-spar phenocrysts	30%
K-spar groundmass	30
epidote	25
chlorite	12
opaque (sulphide?)	2
calcite	1
apatite	minor

K-spar (orthoclase) phenocrysts are euhedral and range in size from 0.4 to 1.2mm, averaging about 0.8mm. They occur quite crowded within a groundmass consisting of a mass of shapeless interlocking K-spar grains about 0.05mm in size. There is no orientation of the groundmass minerals suggesting that it is a subvolcanic rather than an extrusive rock. Squat prismatic apatite grains 0.05 to 0.3mm in size are scattered within the groundmass.

Chlorite forms very fine flakes occuring in ragged patches 0.2 to 0.5mm in size which are scattered about the groundmass. Larger patches (up to 1.5mm) are crowded with rounded epidote grains about 0.1mm in size. These occur both within the groundmass and the phenocrysts. The rounded epidote grains often coalesce into prismatic grains up yo 0.6mm in length and these tend to occur in aggregates of several grains which have formed both in the groundmass and the phenocrysts. Small amounts of chlorite occur between the prismatic epidotes. Calcite forms very fine grains which occur in small patches intergrown with a few of the epidote-chlorite aggregates.

Cubic opaque grains (sulphides?) 0.05 to 0.2mm in size are intergrown with the epidote aggregates. In places small ragged patches are also present. In places there is a narrow discontinuous zone of opaque material around the smaller epidote and chlorite intergrowths.

TR-6274: QUARTZ-SULPHIDE ROCK (ALTERED VOLCANIC)

This sample consists mainly of an intergrowth of quartz and sulphides (sphalerite, pyrite, galena?; judging from hand specimen). The sulphides tend to occur in what appears to be remnant volcanic patches within the mass of quartz grains. These patches are highly altered by chlorite and calcite. Minerals are:

quartz	80%	
sphalerite	8	
opaques	3	(mainly pyrite and galena?)
calcite	5	
chlorite	3	
plagioclase	1	
epidote	trace	
sericite	trace	

Quartz forms rounded to irregularly shaped, sometimes slightly elongated, interlocking grains 0.1 to 1.0mm in size. Average grains size is about 0.6mm. The smaller grains tend to occur in patches amongst the larger ones. Very fine chlorite and calcite occurs scattered between the quartz grains.

Remnant volcanic patches are shapeless and up to 3mm in size. They originally consisted of a mass of shapeless plagioclase grains about 0.1mm in size. Most of these patches have been highly altered with calcite and chlorite (also sulphides); small amounts of very fine epidote and sericite occur in some. The calcite has been introduced after the other mineral; some calcite occurs in thin veinlets cutting through the quartz. Some of the calcite has been stained with limonite. In the patches the chlorite remains as small flakes and aggregates within the calcite. Those patches which have been least altered with calcite retain the remnant plagioclase (and epidote, sericite occuring within it).

The sulphides are mainly sphalerite which forms shapeless grains up to 3mm in size occuring either amongst the quartz grains or in the remnant volcanic patches. The larger grains are probabaly completely replaced volcanic patches. The opaque sulphides form cubic to shapeless grains up to 0.3mm in size which occur around the sphalerite in the remnant volcanic patches and the grains intergrown with the quartz. A few small opaque inclusions occur in some large sphalerites.

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-12 SOIL -80 MESH + PULVERIZED P13-SOIL & ROCK AU** ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 14 1984 DATE REPORT MAILED: Aug 17/84 ASSAYER. D. Toye DEAN TOYE. CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT # PINCHI FILE # 84-2115 PAGE 1

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	AU** PPB
TR 10E 9+50N	4	188	10	80	.2	26	13	1655	6.49	7	5	ND	2	27	1	2	3	143	.19	.15	5	78	1.52	140	.06	3	2.17	.01	.13	2	31
TR 10E 9+00N	5	149	9	70	.3	18	10	975	6.50	12	5	ND	2	13	1	2	2	110	.10	.15	8	37	1.01	90	.05	4	2.15	.01	.16	2	14
TR 10E 8+55N	3	248	8	92	.1	37	16	1616	5.33	9	5	ND	2	52	1	3	2	98	.61	.15	9	65	1.24	226	.06	4	1.56	.01	.26	2	90
TR 10E 8+50N	1	124	9	73	.1	28	13	906	4.93	8	5	ND	2	28	1	2	2	113	.28	.14	6	59	1.24	87	.07	6	2.08	.01	.16	2	65
TR 10E 8+00N	1	51	9	66	.5	14	10	1469	4.84	9	5	ND	2	17	1	2	2	101	.12	.15	5	33	.89	97	.06	3	1.89	.01	.13	2	35
TR 10E 7+50N	1	29	7	36	.4	7	4	657	2.47	3	12	ND	2	16	1	3	2	73	.11	.09	5	19	.57	55	.02	2	1.41	.01	.08	2	115
TR 10E 7+00N	1	45	9	69	.4	11	8	841	4.92	9	5	ND	2	14	1	2	2	93	.09	.19	6	25	.85	51	.04	2	1.57	.01	.09	2	75
TR 10E 6+50N	1	44	8	100	.1	11	9	1167	4.97	7	5	ND	2	21	1	2	2	118	.19	.16	4	22	1.17	62	.07	3	1.92	.01	.12	2	61
TR 10E 6+00N	1	91	5	82	.1	15	11	742	6.09	14	5	ND	2	22	1	2	2	128	.18	.22	5	34	.88	54	.06	3	1.45	.01	.14	2	110
TR 10E 5+50N	2	61	7	47	.2	12	6	325	4.06	7	5	ND	2	24	1	2	2	127	.15	.12	6	33	.55	62	.07	5	1.44	.01	.08	2	105
TR 10E 5+00N	1	45	8	45	.3	15	7	764	4.29	3	5	ND	2	27	1	2	3	126	.20	.11	3	46	.69	85	.10	2	1.51	.01	.11	2	37
TR 10E 4+50N	1	18	8	31	.1	3	3	355	2.62	4	5	ND	2	13	1	2	2	47	.05	.08	8	7	.11	68	.01	2	1.39	.01	.04	2	12
TR 10E 4+00N	1	24	8	452	.1	9	8	1066	4.05	2	5	ND	2	28	1	2	3	86	.43	.08	5	18	1.18	171	.07	4	1.69	.01	.14	2	5
TR 10E 3+50N	1	49	8	268	.2	12	11	1823	4.41	2	5	ND	2	57	1	2	2	85	.92	.21	8	23	1.74	133	.07	6	1.83	.01	.15	2	13
TR 10E 3+00N	1	82	11	221	.1	17	12	1680	4.51	11	5	ND	2	42	1	4	2	86	.65	.19	7	28	1.51	126	.07	7	1.75	.01	.15	2	105
TR 10E 2+50N	1	27	9	96	.2	10	6	702	2.96	6	5	ND	2	21	1	2	2	58	.16	.08	5	18	.44	205	.02	2	1.16	.01	.07	2	14
TR 10E 2+00N	1	27	10	51	.1	4	3	389	2.39	4	5	ND	3	11	1	2	2	35	.04	.13	8	5	.12	77	.01	2	1.24	.01	.06	2	15
TR 10E 1+50N	1	7	3	22	.1	2	2	476	.92	2	5	ND	3	18	1	2	2	20	.11	.07	8	1	.05	271	.01	2	.84	.02	.06	2	6
TR 10E 1+00N	1	13	3	24	.2	3	2	169	1.75	2	5	ND	2	11	1	2	2	36	.04	.07	8	4	.07	61	.01	2	1.13	.01	.05	2	8
TR 10E 0+50N	1	40	20	751	.1	13	7	3064	3.36	6	5	ND	2	25	2	3	2	61	.34	.15	9	23	.95	251	.03	5	1.64	.01	.12	2	17
TR 10E 0+00N	1	134	19	192	.3	14	23	4315	8.04	14	5	ND	2	11	1	2	2	91	.23	.26	10	17	.31	208	.01	2	1.36	.01	.09	2	2
TR 10+20E 2+86N	1	57	11	215	.2	14	9	1348	3.67	2	5	ND	2	45	1	3	2	69	.56	.17	7	22	1.23	142	.05	7	1.40	.01	.12	2	90
TR 14E 6+25N	1	190	10	68	.4	26	12	564	6.40	9	5	ND	2	30	1	2	2	156	.28	.21	5	52	1.32	61	.12	5	2.06	.01	.08	2	42
TR 14E 6+00N	1	71	6	63	.3	21	10	824	4.73	4	5	ND	2	35	1	2	3	145	.28	.13	3	48	1.15	79	.14	6	1.88	.01	.08	2	20
TR 14E 5+75N	1	78	5	76	.3	26	12	1136	5.66	3	5	ND	2	30	1	2	2	143	.26	.14	5	60	1.26	92	.12	3	1.84	.02	.11	2	23
TR 14E 5+50N	1	81	7	52	.2	18	8	388	4.47	8	5	ND	2	30	1	2	2	122	.26	.13	3	44	.87	70	.07	3	1.62	.01	.07	2	21
TR 14E 5+25N	1	57	5	42	.1	16	7	304	3.92	4	5	ND	2	28	1	2	2	118	.19	.10	3	37	.73	64	.07	2	1.44	.01	.06	2	7
TR 14E 5+00N	1	36	6	36	.4	11	5	343	2.92	6	5	ND	2	32	1	2	2	99	.25	.08	4	28	.54	65	.06	2	1.11	.01	.08	2	12
TR 14E 4+75N	1	125	8	90	.2	26	14	949	5.75	5	5	ND	2	35	1	2	2	148	.35	.13	3	58	1.53	144	.11	5	1.90	.01	.19	2	135
TR 14E 4+50N	1	112	6	100	.1	18	10	1168	3.98	2	5	ND	2	30	1	2	2	96	.41	.11	5	37	1.08	197	.06	2	1.52	.01	.14	2	36
TR 14E 4+25N	1	82	6	94	.1	13	9	693	2.98	6	5	ND	2	23	1	2	2	61	.28	.10	5	23	.74	99	.03	2	.98	.01	.12	2	110
TR 14E 4+00N	5	189	8	122	.2	21	8	830	3.97	4	5	ND	2	37	1	3	2	88	.43	.16	7	45	1.21	155	.04	3	1.79	.01	.08	2	20
TR 14E 4+00NA	2	266	7	115	.2	29	16	1322	5.39	10	5	ND	2	51	1	2	2	109	.60	.15	7	63	1.33	175	.08	6	1.52	.02	.26	4	95
TR 14E 3+75N	1	192	6	143	.1	28	13	1040	4.90	11	5	ND	2	45	1	4	2	110	.57	.17	5	61	1.77	160	.09	6	1.86	.01	.24	2	85
TR 14E 3+50N	1	87	9	730	.1	21	12	1473	4.34	11	5	ND	2	38	1	2	2	85	.38	.17	6	41	1.24	235	.04	4	1.73	.01	.11	2	59
TR 14E 3+25N	1	47	7	461	.1	16	11	1085	3.78	4	5	ND	2	32	1	2	2	74	.31	.13	6	27	1.14	189	.04	3	1.54	.01	.11	2	18
TR 14E 3+00N	1	46	11	382	.1	9	6	580	2.89	4	5	ND	2	56	1	2	2	49	.52	.16	8	17	.56	227	.02	2	1.07	.01	.08	2	24
STD S-1/FA-AU	86	121	115	182	31.5	151	80	496	3.15	113	91	34	170	125	80	78	93	58	.56	.12	124	63	.58	122	.08	167	1.37	.19	.19	63	53

Detection for U - 5ppm

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	AU** PPB
TR 14E 2+75N	1	30	8	160	.2	6	6	564	2.82	6	5	ND	2	70	1	2	2	44	.60	.17	6	16	.32	257	.01	5	1.76	.01	.06	2	3
TR 14E 2+25N	1	71	30	524	.1	12	9	1507	3.53	9	5	ND	2	24	1	2	2	64	.22	.17	12	25	.89	124	.03	7	1.53	.01	.08	2	60
TR 14E 2+00N	1	33	20	102	.7	7	4	395	2.63	2	5	ND	2	16	1	2	2	58	.12	.12	5	18	.45	54	.02	3	1.38	.01	.06	2	32
TR 14E 1+75N	1	26	9	90	.3	6	3	380	2.64	4	5	ND	2	20	1	2	2	68	.11	.10	5	18	.44	57	.02	4	1.39	.01	.05	2	39
TR 14E 1+50N	1	21	15	65	.8	6	4	477	2.28	4	5	ND	2	22	1	2	2	62	.15	.08	5	14	.55	48	.04	2	1.46	.01	.07	2	40
TR 14E 1+25N	1	27	31	77	.4	5	3	485	2.18	4	5	ND	2	15	1	2	2	65	.08	.08	5	18	.39	48	.02	2	1.22	.01	.05	2	85
TR 14E 1+00N	1	18	11	58	.8	8	4	485	1.95	4	5	ND	2	20	1	2	2	61	.12	.07	5	19	.56	42	.03	2	1.31	.01	.05	2	47
TR 14E 0+75N	1	22	11	74	.1	6	4	669	2.28	8	5	ND	2	14	1	2	2	57	.07	.09	4	16	.37	47	.01	2	1.11	.01	.04	2	45
TR 14E 0+50N	2	33	27	185	.1	8	8	2061	4.13	6	5	ND	2	14	1	2	2	92	.09	.15	3	19	.61	70	.03	4	1.40	.01	.08	2	48
TR 14E 0+25N	1	21	14	78	.2	5	4	875	2.43	5	9	ND	2	13	1	2	2	56	.06	.10	6	13	.31	59	.01	3	1.12	.01	.07	2	24
TR 14E 0+00S	1	39	17	91	.2	7	5	845	3.98	6	5	ND	2	12	1	2	2	45	.11	.28	7	13	.24	69	.01	3	1.29	.01	.05	2	37
TR 14E 0+25S	1	75	32	589	.2	13	12	4741	4.92	15	5	2	2	18	1	2	2	74	.11	.15	6	28	.74	182	.02	6	1.55	.01	.10	2	220
TR 14E 0+50S	1	35	31	262	.1	10	10	1796	4.24	11	8	ND	2	14	1	2	2	74	.10	.13	5	16	.58	117	.02	4	1.47	.01	.11	2	21
TR 14E 0+75S	1	49	16	471	.1	14	9	1635	4.18	8	5	ND	2	43	1	3	2	75	.54	.20	10	25	1.25	235	.03	6	1.94	.01	.09	2	18
TR 14E 1+00S	2	64	18	1144	.1	13	9	1972	3.64	8	5	ND	2	59	3	2	2	47	.70	.29	16	29	.51	400	.01	6	1.44	.01	.07	2	3
TR 14E 1+25S	2	96	17	1357	.1	15	9	1942	3.41	7	5	ND	2	48	6	3	2	49	.58	.20	11	28	.74	284	.02	4	1.35	.01	.10	2	14
TR 14E 1+50S	3	40	8	109	.5	5	3	272	2.56	5	9	ND	3	14	1	2	2	44	.05	.13	9	10	.08	85	.01	2	1.10	.02	.08	2	15
TR 14E 1+75S	2	36	18	221	.5	8	5	1408	3.04	5	6	ND	2	22	1	2	2	58	.19	.15	9	20	.37	197	.01	3	1.65	.01	.06	2	18
TR 14E 2+00S	1	42	9	195	.4	9	5	719	2.77	4	6	ND	2	40	1	2	2	45	.48	.18	22	17	.43	288	.01	3	1.42	.01	.08	2	20
TR 14E 2+25S	2	39	15	340	.2	8	5	681	2.82	4	5	ND	2	54	1	2	2	42	.56	.16	32	18	.25	370	.01	2	1.37	.01	.07	2	23
TR 14E 2+50S	1	29	12	135	.2	6	7	1627	3.20	5	5	ND	2	19	1	2	2	80	.14	.11	8	16	.50	142	.02	3	1.54	.01	.08	2	15
TR 14E 2+75S	1	51	15	192	.3	16	8	1848	3.79	8	5	ND	2	14	1	2	2	58	.12	.19	8	27	.59	112	.01	3	1.82	.01	.07	2	16
TR 14E 3+00S	2	49	18	113	.1	14	6	660	3.74	6	5	ND	3	12	1	2	2	50	.14	.25	7	27	.32	70	.01	3	1.56	.01	.05	2	95
TR 14E 3+25S	1	22	8	47	.3	6	3	463	1.95	5	5	ND	2	10	1	2	2	46	.04	.11	6	19	.12	67	.01	2	1.31	.01	.06	2	19
TR 14E 3+50S	1	19	9	43	.2	6	2	299	1.66	6	5	ND	2	10	1	2	2	41	.04	.08	6	18	.16	83	.01	2	1.35	.01	.05	2	17
TR 14E 3+75S	2	36	11	85	.1	10	4	461	3.12	10	5	ND	2	12	1	2	2	54	.04	.13	7	23	.21	68	.01	4	1.28	.01	.06	2	23
TR 14E 4+00S	1	33	11	72	.3	11	5	1088	2.78	7	5	ND	2	10	1	2	2	55	.03	.12	7	24	.15	85	.01	3	1.04	.01	.06	2	15
TR 14E 4+25S	1	34	10	95	.1	21	6	910	3.34	9	5	ND	3	11	1	2	2	59	.06	.15	5	41	.41	108	.01	3	1.26	.01	.07	2	75
TR 14E 4+50S	1	35	8	85	.2	22	6	603	3.33	8	5	ND	2	11	1	2	2	71	.05	.13	6	54	.40	88	.01	3	1.43	.01	.06	2	21
TR 14E 4+75S	1	23	10	52	.3	11	4	1780	2.28	5	5	ND	2	11	1	2	2	60	.04	.09	6	34	.15	174	.01	2	1.06	.01	.06	2	26
TR 14E 5+00S	1	31	11	83	.1	21	6	609	3.20	6	5	ND	2	12	1	2	2	63	.05	.14	6	48	.43	88	.01	3	1.36	.01	.06	2	280
TR 14+50E 0+00N	1	24	12	95	.1	14	5	850	2.84	5	5	ND	2	14	1	2	2	61	.06	.12	5	29	.44	69	.01	2	1.26	.01	.07	2	65
TR 15E 8+50N	1	180	10	87	.2	43	15	733	6.54	9	5	ND	2	34	1	3	6	187	.35	.20	2	85	1.95	78	.15	5	2.73	.02	.14	2	50
TR 15E 8+25N	1	68	7	63	.3	25	11	822	5.06	2	5	ND	2	34	1	2	2	154	.22	.14	3	57	1.14	93	.12	7	1.78	.01	.09	2	47
TR 15E 8+00N	1	67	6	75	.2	39	12	545	5.02	5	5	ND	2	35	1	2	2	153	.41	.20	2	83	1.59	73	.20	6	2.00	.01	.19	2	20
TR 15E 7+75N	1	73	8	65	.1	25	11	755	5.77	2	5	ND	2	31	1	2	3	165	.23	.15	2	60	1.19	103	.17	3	1.75	.01	.13	2	18
TR 15E 7+50N	1	146	11	86	.1	32	15	1277	6.28	5	5	ND	2	28	1	2	3	167	.25	.19	2	72	1.69	81	.14	2	2.40	.01	.11	2	95
STD S-1/FA-AU	86	121	114	183	32.3	150	80	493	3.16	113	104	35	166	125	79	77	91	58	.56	.12	122	63	.58	121	.08	160	1.37	.20	.19	63	54

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	AU** PPB
TR 15E 7+25N	3	72	3	55	.3	19	9	431	5.00	5	5	ND	2	32	1	2	2	137	.27	.27	4	47	1.01	69	.12	9	2.01	.01	.08	2	42
TR 15E 7+00N	2	141	6	53	.2	20	10	455	4.97	6	5	ND	2	31	1	2	3	122	.22	.12	5	48	1.03	83	.10	7	2.08	.01	.08	2	75
TR 15E 6+75N	1	84	4	68	.2	25	11	636	5.70	2	5	ND	2	29	1	2	3	161	.21	.20	3	59	1.25	65	.16	6	1.93	.01	.09	2	23
TR 15E 6+50N	1	105	6	64	.2	21	14	657	6.40	10	5	ND	2	27	1	2	3	145	.28	.16	4	48	1.25	97	.12	4	2.06	.01	.15	2	21
TR 15E 6+25N	3	305	6	88	.5	29	14	659	5.29	9	5	ND	2	44	1	2	4	129	.68	.14	8	70	1.42	115	.11	6	2.06	.01	.17	2	28
TR 15E 6+00N	2	102	10	53	.2	20	9	383	5.12	3	6	ND	2	39	1	2	3	150	.29	.10	4	56	.90	95	.11	6	1.74	.02	.09	2	55
TR 15E 5+75N	4	243	10	68	.5	21	12	589	4.60	6	9	ND	2	42	1	2	2	113	.57	.11	9	47	1.09	140	.07	7	1.85	.01	.13	2	21
TR 15E 5+50N	2	262	7	86	.2	35	16	808	5.97	12	5	ND	2	35	1	2	3	148	.45	.24	5	67	1.66	89	.09	10	2.20	.01	.18	2	40
TR 15E 5+25N	1	195	2	72	.2	30	14	750	5.16	8	6	ND	2	34	1	2	2	138	.43	.10	4	56	1.58	112	.12	4	2.05	.01	.19	2	33
TR 15E 5+00N	3	82	9	69	.1	14	8	573	4.45	10	5	ND	2	31	1	2	2	98	.28	.09	5	32	.80	110	.05	7	1.48	.01	.09	2	29
TR 15E 4+75N	3	138	8	79	.1	13	8	837	3.29	5	5	ND	2	31	1	2	2	66	.27	.13	7	29	.69	127	.02	4	1.31	.01	.09	2	15
TR 15E 4+50N	1	25	8	59	.1	8	6	400	3.11	6	6	ND	2	24	1	2	2	71	.16	.10	5	18	.52	96	.04	5	1.34	.01	.07	2	8
TR 15E 4+25N	1	86	12	101	.1	15	9	1007	3.79	9	5	ND	2	30	1	3	2	69	.34	.14	7	27	.84	259	.03	5	1.23	.01	.16	2	14
TR 15E 4+00N	1	39	8	89	.1	10	6	674	3.71	4	5	ND	2	26	1	2	2	75	.19	.16	5	27	.53	130	.02	5	1.20	.01	.13	2	42
TR 15E 3+75N	3	147	3	183	.1	27	15	1494	4.47	12	5	ND	2	40	1	2	2	88	.47	.15	5	62	1.42	147	.07	9	1.51	.02	.24	2	46
TR 15E 3+50N	1	84	7	618	.1	16	16	1950	4.66	3	5	ND	2	53	2	5	2	113	.98	.19	6	31	1.55	231	.06	24	1.91	.02	.27	2	28
TR 15E 3+25N	1	43	6	752	.1	14	19	1576	4.58	3	5	ND	2	65	2	3	2	109	.97	.14	4	24	2.13	194	.14	7	2.26	.01	.18	2	21
TR 15E 3+00N	2	111	10	476	.2	12	9	956	3.00	7	5	ND	2	47	2	2	2	59	.63	.16	10	28	.85	139	.03	4	1.30	.02	.11	2	25
TR 15E 2+75N	1	108	9	572	.1	11	7	1184	2.53	4	5	ND	2	40	3	2	2	40	.49	.13	28	23	.57	137	.02	2	1.04	.01	.08	2	8
TR 15E 2+50N	1	35	11	309	.1	10	10	859	3.71	8	5	ND	2	39	1	2	2	69	.45	.17	6	20	.95	123	.04	7	1.62	.02	.11	2	7
TR 15E 2+25N	2	50	11	1799	.1	7	5	1699	2.70	5	5	ND	2	42	7	2	2	47	.50	.12	7	15	.37	248	.01	3	1.27	.01	.07	2	10
TR 15E 2+00N	3	133	25	2112	1.4	12	9	2556	3.41	5	5	ND	2	61	9	2	2	69	.93	.20	6	34	1.00	213	.03	5	1.79	.01	.10	3	13
TR 15E 1+75N	1	27	32	149	.1	7	4	552	3.30	5	8	ND	2	23	1	2	2	71	.15	.17	6	19	.51	59	.02	4	1.43	.01	.06	2	70
TR 15E 1+50N	1	38	87	160	.8	8	7	1492	4.88	11	5	ND	2	17	1	2	2	89	.15	.19	7	18	.57	64	.02	5	1.57	.01	.08	2	65
TR 15E 1+25N	1	45	45	112	.4	8	6	838	5.21	9	5	ND	2	19	1	2	2	88	.14	.14	7	22	.67	52	.03	6	1.91	.01	.06	2	11
TR 15E 1+00N	1	53	57	169	.2	12	7	964	5.84	13	5	ND	2	19	1	2	2	91	.17	.25	7	27	.77	63	.02	5	1.81	.01	.07	2	57
TR 15E 0+75N	1	32	41	150	.2	16	7	1110	4.02	10	5	ND	2	20	1	2	2	84	.18	.18	6	34	.90	51	.03	4	1.75	.01	.07	2	85
TR 15E 0+50N	1	30	19	108	.5	10	5	641	3.18	6	5	ND	2	23	1	2	2	70	.17	.12	6	24	.59	48	.03	3	1.50	.01	.06	2	46
TR 15E 0+25N	1	39	15	153	.2	10	9	1410	3.99	11	5	ND	2	19	1	2	2	80	.15	.14	6	23	.78	50	.03	4	1.61	.01	.07	2	22
TR 15E 0+00S	1	32	13	149	.3	10	6	1077	3.46	8	5	ND	2	19	1	2	2	70	.13	.14	6	24	.68	67	.02	5	1.56	.01	.08	2	65
TR 15E 0+25S	1	36	21	142	.4	9	7	2070	4.07	13	5	ND	2	15	1	2	2	78	.09	.17	6	22	.48	67	.02	7	1.38	.01	.08	2	70
TR 15E 0+50S	1	27	13	126	.3	9	5	990	2.92	8	5	ND	2	17	1	2	2	58	.10	.12	7	21	.53	58	.02	4	1.38	.01	.07	2	52
TR 15E 0+75S	1	29	16	125	.1	11	6	1355	3.49	6	5	ND	2	14	1	2	2	67	.06	.11	7	42	.49	71	.01	5	1.48	.01	.06	2	16
TR 15E 1+00S	1	27	10	80	.2	7	3	519	2.56	8	5	ND	2	13	1	2	2	50	.08	.11	6	20	.28	58	.01	2	1.40	.01	.06	2	39
TR 15E 1+25S	2	46	32	229	.2	11	7	1290	3.79	8	5	ND	2	14	1	2	2	63	.07	.13	7	24	.51	78	.01	6	1.62	.01	.09	2	75
TR 15E 1+50S	1	44	11	398	.1	10	6	1403	4.07	8	5	ND	2	17	1	2	2	70	.17	.16	8	24	.57	151	.01	5	1.80	.01	.06	2	36
TR 15E 1+75S	1	83	64	1136	.6	18	10	2652	5.52	10	5	ND	2	38	2	2	2	107	.41	.18	12	45	.85	277	.02	8	2.09	.01	.07	2	720
STD S-1/FA-AU	86	122	113	183	31.1	150	80	496	3.16	112	94	34	170	125	78	78	89	58	.56	.12	124	63	.58	122	.08	171	1.37	.20	.19	62	55

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	AU** PPB
TR 15E 2+00S	7	83	21	359	.2	10	6	3840	2.54	8	12	ND	2	71	3	2	3	37	.75	.22	52	23	.40	391	.01	3	1.31	.01	.07	2	1
TR 15E 2+25S	2	60	15	179	.5	10	5	448	3.37	6	8	ND	2	16	1	2	2	43	.13	.13	8	14	.31	160	.01	2	1.76	.01	.06	3	9
TR 15E 2+50S	1	11	6	19	.2	2	1	97	.74	2	10	ND	2	10	1	2	6	28	.05	.07	10	9	.08	90	.01	2	1.38	.01	.05	2	37
TR 15E 2+75S	2	33	11	72	.2	6	3	418	2.50	7	7	ND	2	12	1	2	2	47	.05	.10	7	13	.18	71	.01	2	1.35	.01	.06	2	14
TR 15E 3+00S	3	32	11	77	.1	12	5	477	3.55	9	5	ND	2	16	1	2	2	61	.09	.09	6	25	.25	127	.01	2	1.51	.01	.06	2	17
TR 15E 3+25S	5	55	14	105	.5	15	8	3214	2.67	16	5	ND	2	62	1	2	2	42	.63	.16	12	40	.35	808	.01	4	1.29	.01	.07	3	16
TR 15E 3+50S	2	39	12	64	.1	10	5	826	3.02	7	5	ND	2	15	1	2	2	68	.07	.11	7	26	.21	104	.01	2	1.43	.01	.07	2	12
TR 15E 3+75S	2	35	13	79	.1	11	6	1116	3.57	7	5	ND	2	14	1	2	2	68	.06	.17	7	25	.24	105	.01	2	1.58	.01	.07	2	20
TR 15E 4+00S	1	51	14	105	.1	16	6	546	3.99	9	5	ND	2	15	1	2	2	63	.14	.17	7	31	.44	84	.01	2	2.05	.01	.06	3	18
TR 15E 4+25S	2	27	7	70	.1	15	5	514	3.33	8	5	ND	2	12	1	2	2	60	.05	.11	7	32	.30	72	.01	2	1.35	.01	.07	2	35
TR 15E 4+50S	1	24	10	57	.2	7	4	1487	2.16	3	5	ND	2	17	1	2	2	55	.08	.10	7	14	.27	133	.01	2	1.35	.01	.07	2	25
TR 15E 4+75S	1	33	11	75	.1	12	5	568	3.14	8	5	ND	2	20	1	2	2	64	.13	.15	8	24	.45	98	.02	4	1.67	.01	.09	2	105
TR 15E 5+00S	1	36	12	81	.1	13	5	576	3.67	7	5	ND	2	15	1	2	2	77	.08	.14	7	24	.41	65	.02	4	1.73	.01	.06	2	43
TR 16E 8+00N	9	199	4	98	.1	35	18	1262	6.03	8	5	ND	2	61	1	2	2	170	.80	.11	2	74	1.93	181	.15	2	2.59	.01	.15	2	19
TR 16E 7+75N	8	207	6	74	.2	29	14	692	5.41	5	5	ND	2	45	1	4	3	148	.52	.10	2	61	1.50	128	.11	5	2.12	.01	.17	2	28
TR 16E 7+50N	9	91	5	55	.3	16	9	535	4.27	6	5	ND	2	39	1	2	2	115	.27	.09	3	37	.93	92	.09	3	1.76	.01	.12	2	21
TR 16E 7+25N	3	124	4	70	.1	29	12	548	5.33	8	5	ND	2	43	1	2	2	125	.40	.17	3	70	1.25	139	.09	6	1.86	.02	.17	3	75
TR 16E 7+00N	5	69	8	47	.3	14	16	4578	4.03	6	5	ND	2	36	1	2	2	107	.22	.10	4	31	.69	186	.07	4	1.50	.02	.10	2	38
TR 16E 6+75N	2	120	7	62	.1	19	10	497	4.70	8	5	ND	2	33	1	3	2	109	.28	.16	4	47	.99	55	.08	3	2.00	.01	.11	3	40
TR 16E 6+50N	2	99	8	66	.4	18	10	573	5.39	10	5	ND	2	31	1	2	2	133	.21	.14	5	47	1.00	54	.11	5	1.99	.01	.09	4	61
TR 16E 6+25N	2	72	11	54	.2	14	8	531	4.36	6	5	ND	2	30	1	2	2	107	.20	.13	3	36	.65	67	.07	5	1.52	.01	.09	2	39
TR 16E 6+00N	2	106	10	79	.1	19	10	661	4.38	4	5	ND	2	36	1	2	2	104	.25	.11	5	39	1.02	165	.07	6	1.73	.01	.12	2	36
TR 16E 5+75N	2	80	6	83	.1	23	10	609	4.13	4	5	ND	2	50	1	2	3	119	.51	.08	4	45	1.24	332	.11	5	1.78	.02	.11	3	37
TR 16E 5+00N	2	231	8	65	.1	28	13	576	5.33	5	8	ND	2	34	1	2	2	139	.24	.09	4	52	1.40	78	.12	2	1.94	.01	.16	3	95
TR 16E 4+75N	1	102	6	77	.1	27	14	1236	5.50	6	5	ND	2	51	1	3	2	165	.38	.13	2	58	1.42	136	.16	3	1.87	.01	.21	2	21
TR 16E 4+50N	3	64	9	110	.1	13	8	1051	3.66	9	5	ND	2	35	1	2	2	75	.44	.11	4	25	.89	154	.03	5	1.61	.01	.12	3	62
TR 16E 4+25N	4	129	13	105	.1	20	13	1643	4.63	7	5	ND	2	33	1	3	2	94	.37	.12	9	40	1.13	189	.05	3	1.96	.01	.12	3	30
TR 16E 4+00N	1	57	10	127	.1	16	10	1437	4.48	9	5	ND	2	28	1	2	2	89	.34	.15	4	32	.98	174	.08	4	1.66	.01	.18	3	24
TR 16E 3+75N	2	160	6	201	.1	27	15	1208	5.27	13	5	ND	2	48	1	4	2	107	.62	.15	4	114	1.46	133	.10	3	1.55	.02	.27	6	1980
TR 16E 3+50N	1	25	6	94	.1	12	7	676	3.00	2	5	ND	2	27	1	2	2	85	.35	.07	3	44	.97	53	.16	3	1.49	.01	.09	2	39
TR 16E 3+25N	1	33	10	66	.1	10	6	500	3.48	7	5	ND	2	22	1	2	2	86	.16	.09	4	26	.61	47	.04	2	1.42	.01	.09	2	34
TR 16E 3+00N	1	22	11	286	.1	8	5	856	2.52	4	5	ND	2	32	1	2	2	61	.29	.07	7	20	.54	301	.04	2	1.32	.01	.10	2	14
TR 16E 2+75N	2	96	11	506	.1	17	12	1380	3.97	7	5	ND	2	49	1	2	2	87	.68	.14	10	43	1.30	174	.08	5	1.86	.01	.10	2	15
TR 16E 2+50N	1	16	8	26	.1	3	2	260	1.49	2	5	ND	2	17	1	2	2	36	.06	.06	6	7	.08	61	.01	2	.93	.01	.06	2	8
TR 16E 2+25N	1	16	7	39	.1	4	4	281	2.33	3	5	ND	2	18	1	2	2	57	.10	.07	6	7	.42	41	.02	2	1.26	.01	.06	2	21
TR 16E 2+00N	1	22	9	38	.1	2	3	136	2.74	4	5	ND	2	15	1	2	2	61	.04	.06	7	4	.09	57	.01	2	1.20	.01	.06	2	5
TR 16E 1+75N	1	13	12	102	.1	3	3	381	1.84	3	5	ND	2	27	1	2	2	44	.15	.06	7	8	.21	148	.01	2	1.42	.01	.05	2	11
STD S-1/FA-AU	86	122	114	183	31.2	150	80	493	3.16	113	93	34	168	125	78	80	89	58	.56	.12	125	62	.58	122	.08	169	1.37	.20	.20	64	54

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	AU** PPB
TR 16E 1+50N	2	42	19	127	.1	8	4	419	3.35	8	11	ND	2	27	1	3	2	66	.20	.10	9	15	.47	109	.01	2	1.60	.02	.08	3	65
TR 16E 1+25N	1	47	22	543	.4	12	10	1673	4.02	8	5	ND	2	56	1	2	2	79	.69	.15	5	23	1.31	206	.05	3	2.04	.01	.13	2	23
TR 16E 1+00N	1	54	21	737	.6	8	8	1622	3.68	7	5	ND	2	44	2	3	2	59	.48	.14	9	19	.56	175	.01	3	1.13	.01	.10	2	26
TR 16E 0+75N	1	61	57	1399	1.5	10	7	1082	4.25	13	5	ND	2	48	3	3	2	71	.62	.13	8	18	.67	212	.01	4	1.74	.01	.11	2	115
TR 16E 0+50N	1	29	58	299	.2	8	16	4145	4.97	27	5	ND	2	24	1	2	2	72	.07	.14	9	11	.21	144	.01	4	.89	.01	.10	2	56
TR 16E 0+25N	1	54	57	251	1.0	11	8	1770	4.57	14	5	ND	2	19	1	2	2	107	.10	.13	8	24	.41	108	.01	3	1.52	.01	.08	2	51
TR 16E 0+00S	1	29	24	105	.6	7	6	2106	3.20	7	5	ND	2	25	1	2	2	85	.14	.10	7	18	.44	103	.04	2	1.33	.01	.08	2	85
TR 16E 0+25S	1	43	21	220	.2	13	11	3288	4.42	8	5	ND	2	25	1	2	2	95	.19	.20	6	26	.88	83	.03	5	1.73	.01	.11	2	70
TR 16E 0+50S	1	35	26	179	.4	8	6	1397	3.35	7	5	ND	2	16	1	2	2	73	.08	.13	8	22	.36	78	.01	2	1.37	.01	.07	3	65
TR 16E 0+75S	1	39	75	219	.2	9	7	2550	4.19	11	5	ND	2	18	1	2	2	75	.10	.16	9	23	.49	74	.01	4	1.70	.01	.08	2	33
TR 16E 1+00S	1	50	97	251	.1	11	8	1838	4.46	13	5	ND	2	17	1	3	2	88	.09	.14	8	38	.53	82	.01	5	1.68	.01	.08	2	55
TR 16E 1+25S	1	48	20	226	.2	16	8	1486	4.39	10	5	ND	2	20	1	3	2	89	.12	.11	7	60	.85	70	.02	5	1.74	.01	.11	2	105
TR 16E 1+50S	2	45	60	193	.1	8	8	2039	4.09	11	5	ND	2	14	1	2	2	78	.07	.15	10	33	.41	85	.01	2	1.66	.01	.07	2	60
TR 16E 1+75S	2	39	54	306	.5	9	9	4006	3.72	10	7	ND	2	18	1	2	2	63	.12	.14	10	27	.47	137	.01	3	1.57	.01	.08	2	55
TR 16E 2+00S	2	49	17	156	.1	9	7	841	4.33	10	7	ND	2	16	1	2	2	73	.10	.14	9	19	.44	79	.01	2	1.68	.01	.07	2	28
TR 17E 8+00N	1	100	6	79	.3	30	13	710	6.15	6	5	ND	2	38	1	2	4	179	.29	.19	5	68	1.56	66	.13	3	2.32	.01	.14	2	38
TR 17E 7+75N	2	80	8	58	.4	18	9	563	4.66	4	5	ND	2	35	1	2	2	127	.23	.12	6	44	1.00	71	.06	2	1.91	.01	.11	2	23
TR 17E 7+50N	8	118	7	68	.5	18	12	680	4.91	5	5	ND	2	45	1	2	2	114	.62	.08	7	43	1.13	193	.06	7	2.18	.02	.14	3	21
TR 17E 7+25N	3	91	8	60	.2	16	10	485	4.76	11	5	ND	2	32	1	2	2	116	.23	.12	7	45	.91	102	.06	3	1.47	.01	.17	2	18
TR 17E 7+00N	9	152	5	70	.6	19	13	927	4.73	8	5	ND	2	43	1	3	2	108	.52	.13	8	48	1.02	171	.04	2	1.76	.02	.16	2	16
TR 17E 6+75N	9	177	7	73	.7	22	13	773	5.51	9	5	ND	2	53	1	2	2	119	.83	.17	9	53	1.43	170	.07	5	1.93	.02	.19	2	315
TR 17E 6+50N	8	101	5	87	.3	29	13	914	4.85	5	5	ND	2	63	1	2	2	117	1.12	.22	7	61	1.63	171	.10	9	1.92	.02	.17	2	14
TR 17E 6+25N	5	75	3	75	.1	20	11	793	5.12	6	5	ND	2	41	1	2	2	128	.41	.12	6	43	1.06	142	.10	4	1.84	.01	.13	2	23
TR 17E 6+00N	7	78	9	59	.2	15	8	523	4.43	7	5	ND	2	36	1	2	2	109	.27	.08	8	34	.82	130	.06	6	1.84	.01	.09	2	25
TR 17E 5+75N	5	130	9	117	.5	19	12	1073	4.21	6	5	ND	2	50	1	2	2	95	.60	.14	10	42	.97	227	.04	4	1.76	.02	.14	2	24
TR 17E 5+50N	10	160	22	110	.7	19	13	1290	4.52	5	5	ND	2	42	1	2	2	96	.46	.17	13	44	1.03	214	.04	6	2.09	.01	.13	2	27
TR 17E 5+00N	7	94	13	110	.1	16	15	1516	4.01	9	5	ND	2	50	1	2	2	93	.67	.12	9	39	1.11	217	.05	5	1.86	.02	.12	2	29
TR 17E 4+75N	11	111	11	109	.7	16	17	3642	4.10	4	5	ND	2	56	1	4	2	77	.82	.19	11	30	.96	300	.03	4	1.50	.01	.14	2	27
TR 17E 4+50N	10	60	11	124	.1	14	9	792	4.22	7	5	ND	2	38	1	2	2	94	.46	.14	8	29	.93	122	.03	3	1.66	.01	.10	2	32
TR 17E 4+25N	2	47	9	97	.1	13	8	766	4.27	5	5	ND	2	31	1	3	2	85	.35	.11	7	31	.79	206	.02	2	1.30	.01	.15	2	33
TR 17E 4+00N	1	62	10	112	.1	18	10	673	4.72	8	5	ND	2	35	1	2	2	91	.48	.24	7	35	1.04	110	.05	3	1.60	.01	.16	2	41
TR 17E 3+75N	2	161	5	226	.2	26	14	1237	4.91	12	5	ND	2	50	1	4	2	100	.60	.14	6	83	1.44	167	.08	4	1.56	.01	.26	2	95
TR 17E 3+50N	1	219	8	178	.1	27	15	1544	5.22	12	5	ND	2	34	1	2	2	125	.46	.23	7	47	1.81	153	.09	4	2.22	.01	.29	2	34
TR 17E 3+25N	1	66	13	118	.2	11	8	795	3.44	8	8	ND	2	29	1	2	2	53	.32	.14	10	14	.57	180	.01	2	1.07	.01	.11	2	22
TR 17E 3+00N	1	29	6	48	.5	8	4	281	2.37	6	13	ND	2	20	1	2	2	58	.12	.08	8	23	.32	81	.01	2	1.32	.01	.08	2	23
TR 17E 2+75N	1	26	9	60	.1	7	6	453	2.91	7	12	ND	2	23	1	2	2	70	.17	.08	7	13	.46	90	.03	2	1.11	.01	.08	2	52
TR 17E 2+50N	2	143	11	612	.5	6	5	1530	2.08	4	5	ND	2	54	2	2	2	36	.72	.11	21	17	.22	429	.01	2	.94	.01	.09	2	13
STD S-1/FA-AU	87	121	113	181	31.4	148	79	510	3.16	105	90	32	161	124	80	82	93	57	.56	.11	118	61	.58	120	.07	162	1.37	.19	.20	65	52

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	AU** PPB
TR 17E 2+25N	1	17	6	21	.3	4	2	135	1.50	2	5	ND	4	18	1	2	2	39	.09	.07	7	9	.14	80	.01	5	.99	.01	.06	2	6
TR 17E 2+00N	1	9	7	19	.5	2	2	130	1.26	3	5	ND	3	15	1	2	2	39	.09	.05	8	5	.12	48	.01	3	1.27	.01	.05	2	1
TR 17E 1+75N	1	19	9	27	.4	3	3	747	2.41	7	5	ND	3	15	1	2	2	52	.06	.10	8	7	.11	81	.01	2	1.38	.01	.06	2	1
TR 17E 1+50N	1	14	8	44	.2	4	4	310	2.85	3	5	ND	3	17	1	2	2	66	.10	.10	8	6	.44	50	.02	2	1.49	.01	.06	2	2
TR 17E 1+25N	1	18	10	44	.4	4	2	276	1.85	3	5	ND	4	17	1	2	2	44	.07	.06	7	8	.23	57	.01	3	1.58	.01	.04	2	2
TR 17E 1+00N	1	24	12	77	.2	5	4	336	3.42	5	5	ND	2	31	1	2	2	66	.31	.12	8	10	.29	134	.01	3	1.18	.01	.06	2	4
TR 17E 0+75N	1	32	17	145	.2	10	6	761	2.90	5	5	ND	2	33	1	2	2	63	.41	.12	8	16	.68	140	.01	3	1.51	.01	.08	2	125
TR 17E 0+50N	1	33	19	68	.2	7	4	395	3.02	5	5	ND	2	25	1	2	2	59	.20	.13	8	14	.37	81	.01	2	1.30	.01	.05	2	12
TR 17E 0+25N	1	43	25	113	.3	8	6	600	3.82	6	5	ND	2	23	1	2	2	87	.22	.08	7	19	.50	118	.02	3	1.72	.01	.05	2	165
TR 17E 0+00S	1	59	31	251	.6	11	7	1084	3.66	10	5	ND	2	24	1	2	2	81	.13	.11	10	24	.60	105	.01	3	1.71	.01	.07	2	67
TR 17E 0+25S	1	88	49	488	1.3	14	8	1122	4.27	12	5	ND	2	43	2	2	2	87	.50	.13	16	26	.86	176	.02	4	2.21	.01	.07	2	25
TR 17E 0+50S	1	42	31	127	1.3	9	4	422	2.94	8	5	ND	2	23	1	2	2	73	.15	.10	9	21	.57	60	.02	3	1.95	.01	.05	2	145
TR 17E 0+75S	1	18	15	53	.3	4	2	318	1.55	6	5	ND	3	22	1	2	2	48	.10	.08	7	11	.21	74	.01	2	1.27	.01	.05	2	58
TR 17E 1+00S	1	33	21	110	1.6	7	4	481	3.04	10	5	3	3	18	1	2	2	73	.10	.10	8	19	.40	73	.01	2	1.68	.01	.06	2	75
TR 17E 1+25S	1	52	26	395	.6	11	7	3219	3.93	5	5	ND	2	24	2	2	2	77	.18	.19	11	29	.52	192	.01	2	1.62	.01	.08	2	40
TR 17E 1+50S	1	70	32	279	.7	13	7	964	3.54	11	5	ND	2	20	1	2	2	71	.20	.16	10	27	.59	86	.01	3	1.57	.01	.07	2	46
TR 17E 1+75S	1	46	33	212	.4	13	6	970	4.32	9	5	ND	2	16	1	2	2	86	.12	.15	9	47	.67	59	.02	2	1.84	.01	.07	2	60
TR 17E 2+00S	1	52	38	290	.9	11	6	1143	3.96	8	5	ND	2	15	1	2	2	67	.15	.20	10	30	.50	60	.01	3	1.68	.01	.07	2	70
TR 18E 7+50N	1	123	13	71	.6	22	11	628	5.81	15	5	ND	2	28	1	2	3	146	.19	.20	7	54	1.20	56	.07	2	2.13	.01	.08	2	54
TR 18E 7+25N	2	125	12	81	1.0	23	15	1308	6.02	12	5	ND	2	34	1	2	3	148	.23	.13	6	56	1.26	90	.06	3	2.14	.01	.12	2	45
TR 18E 7+00N	2	75	10	62	1.1	16	9	771	5.37	14	5	ND	2	29	1	2	2	144	.19	.15	6	48	1.02	78	.06	2	2.02	.01	.07	2	41
TR 18E 6+75N	14	117	10	78	.8	18	14	3911	4.78	10	7	ND	2	45	1	2	2	123	.51	.12	8	44	.99	288	.04	4	2.36	.01	.08	2	22
TR 18E 6+50N	11	355	10	86	.9	25	15	2086	5.05	12	7	ND	2	58	1	3	2	111	.88	.17	12	93	1.24	254	.04	5	2.26	.02	.14	2	39
TR 18E 6+25N	6	135	11	75	.7	22	10	680	4.36	12	5	ND	2	44	1	2	2	95	.73	.17	9	45	1.23	128	.05	4	1.82	.01	.15	2	59
TR 18E 6+00N	5	139	9	102	.7	21	10	1040	4.38	9	5	ND	2	43	1	2	2	97	.66	.18	9	44	1.23	146	.04	3	1.99	.01	.11	2	22
TR 18E 5+75N	4	89	8	92	.3	17	9	1030	3.61	5	5	ND	2	41	1	2	2	89	.55	.13	7	32	1.08	167	.04	5	1.65	.01	.11	2	53
TR 18E 5+50N	7	117	12	100	.5	14	8	1918	3.32	2	5	ND	2	43	1	2	2	70	.68	.23	10	26	.70	213	.01	4	1.55	.01	.09	2	44
TR 18E 5+25N	5	65	13	90	.6	10	5	768	2.90	4	5	ND	2	46	1	2	2	69	.66	.13	9	21	.64	270	.02	3	1.53	.01	.08	2	17
TR 18E 5+00N	3	56	9	52	.3	9	8	800	3.03	5	5	ND	2	43	1	2	2	47	.62	.17	9	16	.49	152	.02	3	.94	.01	.11	2	37
TR 18E 4+75N	8	62	14	89	.6	10	12	2592	4.80	5	5	ND	2	38	1	2	2	72	.41	.15	10	22	.60	262	.01	5	1.46	.01	.08	2	24
TR 18E 4+50N	3	48	11	76	.1	7	6	1082	2.58	3	5	ND	2	38	1	2	2	56	.39	.12	7	18	.43	210	.01	3	1.20	.01	.10	2	45
TR 18E 4+00N	2	121	15	177	.3	20	17	1480	5.25	42	5	ND	2	22	1	2	2	120	.37	.21	12	42	1.56	146	.11	3	2.22	.01	.44	2	40
TR 18E 3+75N	2	123	15	155	.4	20	15	2063	4.61	16	5	ND	2	50	1	2	2	95	.83	.20	10	50	1.42	222	.06	9	1.88	.01	.33	2	17
TR 18E 3+50N	2	97	11	134	.3	17	13	1726	4.18	10	5	ND	2	45	1	2	2	85	.69	.17	12	39	1.15	221	.04	4	1.65	.01	.24	2	25
TR 18E 3+25N	2	118	13	134	.2	19	16	1591	4.76	12	7	ND	2	33	1	2	2	103	.43	.14	10	51	1.43	130	.06	4	2.05	.01	.18	2	29
TR 18E 2+75N	2	163	10	228	.3	25	14	1196	4.39	14	5	ND	2	51	1	2	2	95	.63	.17	9	55	1.44	187	.07	2	1.67	.01	.22	2	36
TR 18E 2+50N	1	105	14	277	.5	24	11	1021	3.94	7	5	ND	2	52	1	2	2	83	.79	.20	14	54	1.39	357	.05	7	2.10	.01	.19	2	20
STD S-1/FA-AU	85	122	114	183	32.0	151	80	482	3.16	111	104	33	169	125	80	75	91	57	.56	.13	126	63	.58	121	.08	161	1.43	.19	.19	61	55

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	AU** PPB
TR 18E 2+25N	1	23	10	42	.1	6	5	262	2.39	2	5	ND	2	19	1	2	2	56	.12	.06	5	19	.37	93	.02	4	1.11	.01	.06	2	7
TR 18E 2+00N	1	14	8	23	.1	4	2	133	1.38	3	5	ND	2	17	1	2	3	40	.09	.04	5	18	.18	80	.01	2	.95	.01	.04	2	21
TR 18E 1+75N	1	20	9	28	.1	6	3	238	2.16	4	5	ND	2	18	1	2	2	48	.10	.09	6	18	.19	70	.01	3	.91	.02	.06	2	3
TR 18E 1+50N	1	18	10	33	.3	6	4	193	3.29	4	5	ND	2	17	1	2	2	61	.08	.08	6	15	.21	54	.01	3	.98	.02	.05	2	11
TR 18E 1+25N	1	11	4	21	.1	3	2	109	1.84	2	7	ND	2	15	1	2	2	41	.06	.05	6	12	.07	72	.01	2	.89	.02	.04	2	9
TR 18E 1+00N	1	20	11	38	.2	5	3	208	2.84	3	6	ND	2	13	1	2	2	56	.05	.07	7	13	.18	70	.01	2	1.79	.01	.05	2	10
TR 18E 0+75N	1	13	9	31	.6	4	3	185	2.43	2	5	ND	2	12	1	2	2	48	.06	.08	8	13	.15	55	.01	2	1.54	.01	.05	2	3
TR 18E 0+50N	1	7	5	14	.1	2	2	60	1.33	4	10	ND	3	12	1	2	4	31	.03	.06	22	10	.04	52	.01	2	1.12	.02	.04	2	8
TR 18E 0+25N	1	13	8	24	.1	3	2	83	2.31	2	8	ND	2	18	1	2	2	53	.11	.11	7	13	.06	64	.01	2	1.24	.01	.04	2	47
TR 18E 0+00N	1	13	6	39	.1	2	2	126	1.80	2	6	ND	2	20	1	2	3	38	.12	.07	7	11	.10	95	.01	2	1.05	.01	.04	2	10
TR 18E 0+25S	1	29	11	665	.1	6	4	785	2.42	3	5	ND	2	51	2	2	3	43	.57	.14	7	17	.32	338	.01	3	1.18	.01	.07	2	22
TR 18E 0+50S	1	41	13	917	.1	7	4	675	2.62	3	10	ND	2	37	1	2	4	48	.25	.09	11	26	.32	314	.01	2	1.38	.01	.06	2	4
TR 18E 0+75S	1	79	24	171	.2	13	8	1015	3.59	7	5	ND	2	46	1	2	2	57	.52	.13	8	22	.67	215	.01	4	1.37	.01	.08	2	24
TR 18E 1+00S	1	68	20	598	.8	19	10	2172	4.00	5	5	ND	2	76	1	3	2	69	.98	.30	12	35	1.22	279	.03	4	1.72	.01	.08	2	36
TR 18E 1+25S	1	50	28	209	.3	9	5	939	2.76	3	5	ND	2	36	1	2	2	60	.35	.13	11	21	.57	255	.01	2	1.58	.01	.07	2	17
TR 18E 1+50S	1	48	35	225	.1	10	6	707	3.57	4	5	ND	2	24	1	2	2	69	.18	.11	6	26	.54	128	.02	4	1.50	.01	.07	2	27
TR 18E 1+75S	1	100	27	215	.2	16	9	1154	4.86	8	5	ND	2	20	1	3	2	83	.20	.15	6	40	.84	55	.02	4	1.66	.01	.07	3	90
TR 18E 2+00S	2	68	15	426	1.0	15	8	1731	3.60	4	5	ND	2	57	1	2	2	59	.78	.26	15	43	.74	302	.02	6	1.75	.01	.08	2	46
TR 18E 2+25S	1	45	20	130	.4	9	6	693	3.64	10	5	ND	2	18	1	2	2	75	.12	.13	7	26	.45	73	.01	5	1.31	.01	.05	2	47
TR 18E 2+50S	1	58	24	181	.3	12	9	1798	4.47	7	5	ND	2	15	1	2	2	69	.13	.18	8	32	.58	74	.01	5	1.46	.01	.06	2	35
TR 18E 2+75S	1	57	46	204	.4	11	6	710	3.93	7	5	ND	2	16	1	3	2	72	.15	.13	8	33	.57	61	.01	5	1.84	.01	.06	2	62
TR 18E 3+00S	1	31	39	115	.5	7	4	624	3.11	10	5	ND	2	13	1	2	2	77	.06	.11	7	22	.19	62	.01	4	1.12	.01	.06	2	66
TR 19E 6+50N	7	405	13	73	.5	20	14	1293	4.53	10	5	ND	2	51	1	2	2	91	.79	.18	11	55	.98	136	.03	4	1.61	.01	.09	4	55
TR 19E 6+25N	7	336	14	76	1.2	20	13	1288	4.30	6	5	ND	2	83	1	3	2	93	1.58	.25	9	54	1.23	209	.03	9	1.83	.01	.17	2	2
TR 19E 6+00N	6	204	9	93	.6	23	15	1026	4.63	6	5	ND	2	62	1	3	2	102	1.12	.23	7	62	1.47	144	.06	10	1.93	.01	.20	2	29
TR 19E 5+75N	1	74	11	100	.1	23	12	972	5.36	5	5	ND	2	34	1	2	2	130	.37	.17	4	55	1.34	81	.09	7	1.83	.01	.10	2	31
TR 19E 5+50N	1	41	13	50	.1	9	6	333	3.86	9	5	ND	2	27	1	2	2	98	.18	.08	5	38	.54	59	.03	3	1.50	.01	.05	2	34
TR 19E 5+25N	1	62	9	80	.1	13	9	544	5.28	4	5	ND	2	25	1	2	2	109	.20	.10	4	42	.82	67	.05	6	1.63	.01	.07	2	51
TR 19E 5+00N	2	109	12	62	.1	10	6	421	3.39	6	5	ND	2	32	1	2	2	59	.24	.12	10	28	.55	101	.01	4	1.54	.01	.06	2	11
TR 19E 4+75N	1	27	14	41	.1	4	3	297	3.02	2	5	ND	2	28	1	2	2	47	.21	.14	6	15	.31	64	.01	5	1.08	.01	.04	2	13
TR 19E 4+50N	1	30	15	41	.1	6	4	331	3.86	9	5	ND	2	23	1	2	2	62	.11	.12	6	21	.38	49	.01	4	1.16	.01	.04	2	13
TR 19E 4+25N	1	64	9	90	.1	21	11	710	5.28	7	5	ND	2	33	1	2	2	123	.33	.21	5	57	1.28	120	.08	4	1.81	.01	.18	2	21
TR 19E 4+00N	1	29	12	63	.4	9	6	396	3.26	3	5	ND	2	39	1	2	2	101	.45	.05	4	32	.74	126	.10	6	1.41	.01	.09	2	10
TR 19E 3+75N	3	155	13	134	.2	21	18	1506	5.62	13	5	ND	2	42	1	2	2	127	.63	.14	16	87	1.83	150	.08	11	2.29	.01	.22	2	36
TR 19E 3+50N	2	121	12	89	.3	18	16	1242	4.41	12	5	ND	2	52	1	4	2	105	.67	.16	6	53	1.25	163	.05	5	1.50	.01	.17	2	28
TR 19E 3+25N	3	94	14	133	.1	17	10	1138	4.32	8	5	ND	2	29	1	3	2	105	.29	.11	7	55	1.12	129	.04	6	2.13	.01	.11	2	63
TR 19E 3+00N	1	39	8	48	.2	9	5	330	3.89	10	5	ND	2	19	1	2	2	102	.12	.10	5	28	.41	57	.04	4	1.20	.01	.05	2	20
STD S-1/FA-AU	86	121	113	181	31.2	149	79	514	3.16	112	92	35	163	124	73	78	91	57	.56	.11	117	62	.58	121	.07	168	1.37	.18	.19	64	53

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	AU## PPB
TR 19E 2+75N	1	48	12	71	.3	12	7	445	4.71	6	5	ND	2	25	1	2	2	108	.19	.14	8	43	.75	58	.05	2	1.69	.01	.07	2	27
TR 19E 2+50N	1	99	14	136	.2	19	14	842	5.98	11	5	ND	2	35	1	2	2	136	.35	.21	8	62	1.47	71	.07	3	2.54	.01	.11	3	28
TR 19E 2+00N	1	28	12	128	.1	17	10	932	3.98	5	5	ND	2	44	1	2	2	105	.51	.10	6	55	1.19	182	.09	2	1.67	.02	.11	3	16
TR 19E 1+75N	1	53	13	211	.1	22	16	1605	4.65	2	5	ND	2	37	1	2	2	117	.52	.14	8	81	1.82	240	.07	2	2.16	.01	.08	3	21
TR 19E 1+50N	1	71	16	308	.4	22	18	1602	5.12	8	5	ND	2	79	1	7	2	126	1.27	.17	11	102	2.03	391	.07	5	2.01	.01	.22	2	29
TR 19E 1+25N	1	125	11	199	.1	13	9	1648	3.17	5	18	ND	2	70	1	2	2	63	.83	.18	23	71	.81	361	.02	6	1.39	.02	.11	3	28
TR 19E 1+00N	1	55	9	58	.1	7	6	541	2.90	2	5	ND	2	25	1	2	2	49	.22	.13	9	19	.40	80	.01	4	1.38	.01	.06	2	22
TR 19E 0+75N	1	25	11	47	.2	6	6	513	3.43	2	5	ND	2	22	1	2	2	75	.14	.12	9	16	.62	81	.04	3	1.56	.02	.09	2	11
TR 19E 0+50N	1	11	6	21	.1	3	2	152	1.75	2	5	ND	2	13	1	2	2	40	.06	.12	9	10	.10	52	.01	2	1.13	.01	.04	2	10
TR 19E 0+25N	1	13	8	28	.1	2	3	161	1.88	2	5	ND	2	16	1	2	2	42	.08	.08	9	9	.15	59	.01	2	1.14	.02	.05	2	6
TR 19E 0+00N	1	13	5	28	.1	3	2	121	2.01	2	5	ND	2	13	1	2	2	51	.06	.09	10	10	.13	58	.01	2	1.52	.01	.04	2	7
TR 19E 0+25S	1	24	8	30	.3	3	2	145	2.52	2	5	ND	2	14	1	2	2	49	.06	.15	10	11	.14	55	.01	2	1.46	.01	.04	2	11
TR 19E 0+50S	1	36	9	49	.1	7	4	396	3.46	3	5	ND	2	18	1	2	2	83	.08	.09	11	21	.52	58	.01	3	1.78	.01	.05	2	13
TR 19E 0+75S	1	23	10	39	.1	4	3	142	2.28	2	5	ND	2	21	1	2	2	39	.11	.14	8	12	.21	54	.01	2	.91	.01	.05	2	11
TR 19E 1+00S	1	39	7	186	.6	5	4	623	2.08	2	8	ND	2	57	1	2	2	36	.73	.13	12	11	.20	304	.01	2	1.17	.02	.06	2	6
TR 19E 1+25S	2	24	18	325	.1	4	6	3544	2.85	2	6	ND	2	53	2	2	2	52	.63	.14	10	18	.20	396	.01	2	1.20	.01	.08	2	19
TR 19E 1+50S	1	97	22	886	.4	13	8	1024	3.80	4	5	ND	2	46	2	2	2	72	.56	.13	16	37	.66	275	.01	4	1.66	.01	.07	2	25
TR 19E 1+75S	1	43	12	68	.6	6	3	256	2.87	4	5	ND	2	24	1	2	2	53	.14	.12	9	23	.37	56	.01	3	1.62	.01	.05	2	24
TR 19E 2+00S	1	49	29	233	.6	10	9	4512	4.29	7	5	ND	2	25	1	2	2	95	.16	.11	10	30	.85	148	.05	4	1.74	.01	.11	2	95
TR 19E 2+25S	1	63	22	231	1.0	13	8	762	4.36	5	5	ND	2	28	1	2	3	95	.25	.15	11	34	.97	83	.07	3	2.00	.01	.11	2	55
TR 19E 2+50S	1	96	35	273	.3	15	9	1172	4.52	9	5	ND	2	25	1	2	2	88	.28	.18	13	43	.81	109	.02	3	1.83	.01	.08	2	150
TR 19E 2+75S	1	68	47	248	.6	12	10	2712	4.50	8	5	ND	2	23	1	2	2	95	.18	.12	11	38	.66	177	.02	2	1.63	.01	.07	2	50
TR 19E 3+00S	1	75	33	583	.9	16	9	1153	4.05	8	5	ND	2	40	1	2	2	71	.64	.22	13	40	.83	177	.03	5	1.33	.01	.10	2	65
TR 20E 5+00N	1	41	11	79	.5	13	9	796	5.10	5	5	ND	2	29	1	2	2	132	.20	.14	9	45	.86	71	.06	4	1.61	.02	.06	2	24
TR 20E 4+75N	1	21	8	73	.2	19	7	672	3.82	9	5	ND	2	32	1	2	2	111	.21	.08	7	58	1.24	55	.09	3	2.07	.02	.11	2	15
TR 20E 4+50N	1	38	12	101	.5	18	11	749	5.48	16	5	ND	2	28	1	2	2	141	.31	.24	8	59	1.26	58	.09	4	2.16	.02	.09	2	13
TR 20E 4+25N	1	43	14	85	.6	12	8	492	4.92	11	5	ND	2	26	1	2	2	111	.22	.20	9	40	.87	60	.05	2	1.89	.01	.06	2	22
TR 20E 4+00N	1	21	10	37	.2	7	5	431	3.30	7	5	ND	2	29	1	2	2	101	.19	.07	7	35	.40	61	.05	2	1.40	.01	.05	2	32
TR 20E 3+75N	1	20	9	39	.2	7	5	242	2.76	6	5	ND	2	28	1	2	2	87	.22	.09	7	32	.44	60	.05	2	1.24	.01	.05	2	46
TR 20E 3+50N	1	33	6	69	.3	11	9	526	3.86	9	5	ND	2	51	1	2	2	111	.66	.05	7	54	.70	185	.12	3	1.24	.02	.08	2	38
TR 20E 3+25N	1	25	6	69	.5	11	7	409	3.64	7	5	ND	2	32	1	2	2	117	.27	.08	7	42	.77	102	.11	2	1.29	.02	.12	2	9
TR 20E 3+00N	1	27	11	37	.6	7	4	212	2.54	6	5	ND	2	23	1	2	2	93	.16	.05	7	30	.43	69	.06	2	1.34	.01	.06	2	25
TR 20E 2+75N	1	38	9	72	.3	11	7	703	4.33	6	5	ND	2	25	1	2	2	107	.19	.13	7	45	.92	55	.08	2	1.83	.01	.10	2	17
TR 20E 2+50N	1	54	15	70	.5	11	7	483	4.29	8	5	ND	2	23	1	2	2	97	.16	.08	9	36	.64	64	.04	4	1.84	.01	.07	2	33
TR 20E 2+25N	1	39	8	48	.2	8	7	238	4.12	5	5	ND	2	20	1	2	2	114	.12	.10	9	28	.33	60	.04	2	1.26	.01	.07	2	24
TR 20E 2+00N	1	45	14	76	.4	12	7	626	4.96	12	5	ND	2	24	1	2	2	115	.14	.16	9	37	.76	51	.06	2	1.73	.01	.08	2	65
TR 20E 1+75N	1	34	8	72	.3	11	7	608	3.88	7	5	ND	2	27	1	2	2	95	.22	.17	8	36	.80	59	.05	3	1.69	.01	.08	3	19
STD S-1/FA-AU	85	121	114	183	32.4	151	80	482	3.16	118	101	34	168	125	78	78	88	57	.56	.12	127	63	.58	121	.08	161	1.42	.20	.19	61	52

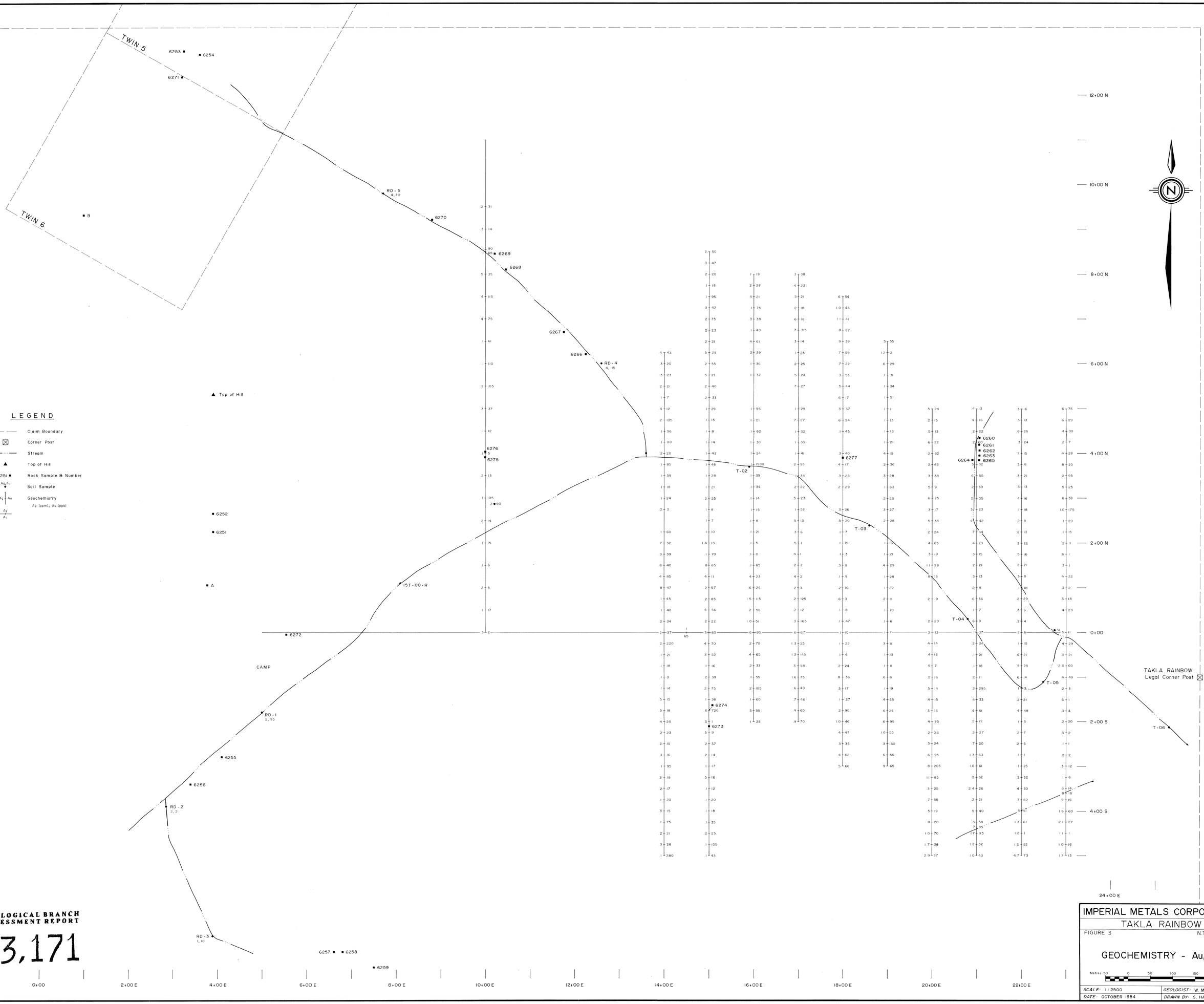
SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU** PPB
TR 20E 1+50N	3	84	8	142	1.1	18	10	1321	4.18	9	6	ND	2	51	1	4	2	104	.63	.17	7	52	1.60	237	.06	2	2.26	.02	.16	2	29
TR 20E 1+25N	4	219	7	339	.8	22	12	567	4.28	13	15	ND	2	167	2	3	2	76	.92	.14	8	49	1.17	47	.06	3	1.40	.01	.17	2	16
TR 20E 0+75N	3	40	26	197	.2	11	7	663	4.39	43	5	ND	2	23	1	3	2	80	.17	.08	12	25	.19	476	.02	2	.87	.01	.07	6	19
TR 20E 0+25N	1	26	7	38	.2	6	4	241	2.47	6	5	ND	3	20	1	2	2	63	.12	.05	6	27	.20	101	.03	2	.93	.01	.06	2	20
TR 20E 0+00N	1	21	9	46	.2	10	6	274	3.28	8	5	ND	3	23	1	2	2	90	.19	.05	4	51	.56	72	.08	2	1.03	.01	.07	2	13
TR 20E 0+25S	1	28	10	64	.4	13	8	588	4.28	9	5	ND	2	19	1	2	2	120	.19	.14	5	35	.91	50	.10	2	1.59	.01	.07	2	14
TR 20E 0+50S	1	29	8	81	.4	14	9	625	4.57	13	5	ND	3	20	1	3	2	126	.22	.15	3	38	1.22	76	.11	5	1.87	.02	.13	2	13
TR 20E 0+75S	1	25	10	50	.5	8	5	299	3.77	8	5	ND	4	12	1	2	2	74	.08	.11	9	20	.45	53	.02	2	1.78	.01	.06	2	7
TR 20E 1+00S	1	18	6	31	.2	3	2	131	1.84	5	5	ND	4	15	1	2	2	33	.04	.05	5	9	.12	52	.01	3	.60	.01	.04	2	16
TR 20E 1+25S	1	18	7	33	.5	5	3	165	2.29	3	5	ND	4	15	1	2	2	62	.06	.08	6	18	.27	57	.01	3	1.44	.01	.06	2	14
TR 20E 1+50S	1	36	6	230	.4	11	8	535	3.56	3	5	ND	2	41	1	2	2	82	.58	.11	6	33	.77	204	.04	2	1.51	.01	.06	2	15
TR 20E 1+75S	1	31	8	170	.3	7	5	627	2.32	5	5	ND	2	49	1	3	2	41	.72	.15	6	17	.39	304	.01	5	1.02	.01	.07	2	16
TR 20E 2+00S	1	62	18	169	.4	11	6	493	3.55	7	5	ND	2	21	1	2	2	78	.19	.13	7	29	.67	97	.03	2	1.62	.01	.05	2	25
TR 20E 2+25S	2	70	17	94	.2	12	8	790	4.60	10	5	ND	2	19	1	2	2	86	.16	.19	6	32	.60	66	.03	3	1.28	.01	.05	2	26
TR 20E 2+50S	1	45	14	262	.5	10	6	527	3.48	2	5	ND	2	35	1	2	2	73	.36	.13	6	21	.73	228	.03	2	1.64	.01	.05	2	24
TR 20E 2+75S	1	58	24	437	.6	14	8	1175	3.67	8	5	ND	2	46	1	2	2	70	.68	.22	10	32	1.04	227	.03	2	1.58	.01	.07	2	95
TR 20E 3+00S	2	94	24	480	.8	14	10	2525	4.12	8	11	ND	2	62	2	3	2	70	.88	.24	16	33	.87	367	.03	2	1.78	.01	.07	2	205
TR 20E 3+25S	1	71	113	640	1.1	17	8	1209	3.67	8	5	ND	2	51	2	2	2	67	.83	.24	10	44	1.06	243	.03	3	1.50	.01	.09	2	85
TR 20E 3+50S	1	53	26	419	.3	9	7	658	3.12	7	10	ND	2	38	1	2	2	69	.46	.11	9	26	.52	466	.02	2	1.42	.01	.04	2	25
TR 20E 3+75S	1	39	81	63	.7	6	3	283	2.11	7	5	ND	3	17	1	2	2	61	.09	.09	6	22	.26	75	.01	2	1.21	.01	.05	2	55
TR 20E 4+00S	1	45	29	84	.5	10	5	749	3.82	12	5	ND	2	14	1	2	2	90	.07	.15	8	26	.40	52	.02	2	1.35	.01	.04	2	19
TR 20E 4+25S	1	37	34	228	.8	8	4	376	2.46	5	5	ND	3	16	1	2	2	66	.14	.10	7	21	.46	220	.01	2	1.51	.01	.04	2	20
TR 20E 4+50S	1	51	48	296	1.0	15	8	663	3.32	6	5	ND	2	52	1	2	2	60	.71	.21	12	31	.63	582	.01	2	1.31	.01	.08	2	70
TR 20E 4+75S	1	70	76	586	1.7	16	12	2481	3.06	9	5	ND	2	88	3	3	2	70	1.22	.20	10	37	.85	903	.01	3	1.61	.01	.07	2	38
TR 20E 5+00S	2	116	69	1814	2.9	23	12	3206	3.59	13	5	ND	2	66	11	8	2	58	1.09	.23	15	45	.85	606	.01	4	1.44	.01	.09	2	27
TR 21E 5+00N	1	40	8	122	.4	19	13	626	5.77	17	5	ND	2	26	1	2	2	145	.33	.24	3	61	1.36	90	.12	2	1.87	.01	.10	2	13
TR 21E 4+75N	1	53	10	107	.4	18	11	631	4.70	12	5	ND	2	24	1	2	2	109	.25	.20	7	53	1.11	67	.08	7	1.70	.01	.10	2	16
TR 21E 4+50N	1	82	9	115	.2	28	14	1049	3.99	13	5	ND	2	42	1	5	2	96	.65	.17	5	95	1.47	70	.06	6	1.34	.01	.15	2	22
TR 21E 4+25N	1	88	7	71	.2	16	12	800	3.79	8	5	ND	2	29	1	2	2	84	.45	.17	6	46	.96	74	.06	3	1.17	.01	.18	2	60
TR 21E 3+75N	1	172	8	135	.5	34	18	1342	4.96	20	5	ND	2	50	1	4	2	119	.75	.19	4	115	1.77	100	.08	6	1.65	.01	.23	2	32
TR 21E 3+50N	3	361	10	124	.6	19	23	2797	7.13	89	5	ND	2	18	1	3	2	168	.25	.18	2	62	1.77	205	.10	2	2.38	.01	.47	4	55
TR 21E 3+25N	1	112	10	101	.2	19	16	1247	4.67	23	5	ND	2	33	1	3	2	103	.44	.17	6	59	1.36	113	.07	7	1.60	.01	.33	3	39
TR 21E 3+00N	1	101	9	82	.5	18	11	704	4.24	12	5	ND	2	23	1	3	2	93	.28	.15	8	46	1.29	76	.06	6	1.80	.01	.29	2	35
TR 21E 2+75N	1	65	8	67	.3	12	10	1275	3.75	12	5	ND	2	30	1	2	2	93	.30	.14	6	35	.96	140	.06	4	1.48	.01	.18	2	23
TR 21E 2+50N	1	107	11	110	.4	26	14	1072	4.30	12	11	ND	2	27	1	3	2	110	.42	.15	6	88	1.76	83	.05	3	1.83	.01	.11	2	42
TR 21E 2+25N	1	127	7	118	.7	29	17	1202	4.72	21	5	ND	2	44	1	3	2	110	.68	.18	4	103	1.58	90	.07	2	1.47	.01	.25	4	44
TR 21E 2+00N	1	25	8	155	.4	15	18	2384	5.71	8	5	ND	2	16	1	3	2	140	.31	.21	5	44	1.92	116	.07	8	2.16	.01	.23	2	23
STD S-1/FA-AU	86	122	115	183	32.3	151	80	490	3.16	114	102	33	170	125	80	76	90	57	.56	.12	128	63	.58	121	.08	161	1.43	.20	.19	60	54

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	AU** PPB
TR 21E 1+75N	1	59	10	67	.3	14	10	1378	4.23	9	5	ND	2	28	1	2	2	110	.26	.11	8	50	.95	90	.08	8	1.63	.02	.11	2	15
TR 21E 1+50N	1	41	12	74	.2	13	9	577	4.79	16	5	ND	2	27	1	2	2	126	.25	.13	8	44	.99	68	.09	6	1.52	.02	.10	2	19
TR 21E 1+25N	1	38	12	76	.3	11	8	613	4.59	9	5	ND	2	20	1	2	2	100	.19	.17	10	40	.69	68	.05	6	1.75	.01	.07	2	13
TR 21E 1+00N	1	41	12	82	.2	13	10	476	5.46	17	5	ND	2	21	1	2	2	141	.17	.16	8	40	.99	58	.09	5	1.96	.01	.07	2	9
TR 21E 0+75N	1	106	10	170	.6	43	15	991	5.16	12	5	ND	2	24	1	2	2	118	.29	.20	9	114	1.96	119	.09	4	2.51	.02	.12	3	36
TR 21E 0+50N	1	38	14	74	.1	13	8	414	4.69	8	5	ND	2	22	1	2	2	128	.15	.13	10	43	.78	55	.07	3	1.78	.01	.06	2	7
TR 21E 0+25N	2	23	9	84	.6	11	10	4448	3.23	8	12	ND	2	35	1	3	2	81	.41	.16	8	32	.78	190	.04	4	1.48	.01	.13	2	9
TR 21E 0+00S	4	121	10	228	.1	23	12	1282	3.99	10	7	ND	2	48	1	2	2	84	.53	.14	9	49	1.29	179	.07	6	1.42	.02	.21	2	37
TR 21E 0+25S	1	38	13	187	.2	11	8	990	2.87	7	12	ND	2	59	1	2	2	55	.76	.18	12	35	.83	298	.03	7	1.17	.01	.09	3	24
TR 21E 0+50S	2	34	13	118	.1	9	8	956	3.08	5	9	ND	2	43	1	2	2	60	.50	.14	11	26	.72	300	.03	4	1.16	.01	.09	2	21
TR 21E 0+75S	1	37	12	116	.1	8	7	788	2.77	7	10	ND	2	47	1	2	2	51	.52	.15	10	23	.50	431	.02	3	.95	.01	.07	2	18
TR 21E 1+00S	1	35	12	67	.2	6	5	778	2.49	4	6	ND	2	26	1	2	2	47	.17	.15	9	20	.40	120	.02	4	.95	.01	.07	2	11
TR 21E 1+25S	1	41	15	292	.2	9	7	1087	2.50	5	9	ND	2	42	1	2	2	44	.55	.14	10	24	.55	133	.02	5	.83	.01	.09	2	295
TR 21E 1+50S	1	32	43	209	.4	10	8	1164	3.57	5	5	ND	2	25	1	2	2	81	.21	.12	10	32	.64	158	.03	3	1.33	.01	.07	3	33
TR 21E 1+75S	1	61	119	286	.4	14	11	1345	4.88	19	5	ND	2	27	1	3	2	120	.31	.13	9	43	.85	66	.06	6	1.43	.01	.07	2	51
TR 21E 2+00S	1	31	13	60	.2	11	6	327	3.81	8	5	ND	2	23	1	2	2	89	.21	.11	8	31	.60	79	.04	2	1.39	.02	.07	2	12
TR 21E 2+25S	1	40	31	231	.2	13	8	1106	3.36	5	5	ND	2	39	1	2	2	80	.43	.14	13	37	.99	212	.03	3	1.70	.01	.07	2	27
TR 21E 2+50S	1	55	20	187	.7	10	6	807	3.18	3	5	ND	2	48	1	2	2	64	.56	.18	15	24	.65	228	.02	6	1.36	.01	.09	2	20
TR 21E 2+75S	1	87	24	359	1.3	14	8	1108	3.48	8	13	ND	2	54	1	2	2	62	.83	.26	18	36	.78	282	.02	7	1.50	.01	.08	2	63
TR 21E 3+00S	3	133	44	462	1.6	16	12	3518	3.77	9	8	ND	2	89	3	3	2	63	1.37	.37	24	35	.92	567	.02	6	1.82	.01	.09	2	61
TR 21E 3+25S	2	55	16	74	.2	9	4	309	3.86	8	5	ND	2	23	1	2	2	87	.16	.06	11	27	.58	127	.03	5	1.89	.01	.05	2	32
TR 21E 3+50S	2	76	26	526	2.4	13	6	811	3.29	6	5	ND	2	49	1	2	2	64	.76	.22	16	37	.71	335	.02	5	1.61	.01	.08	3	26
TR 21E 3+75S	2	80	43	111	.2	16	7	751	4.76	15	5	ND	2	23	1	2	2	99	.23	.28	11	39	.69	73	.02	5	1.87	.01	.07	2	21
TR 21E 4+00S	1	61	105	136	.5	14	8	1011	3.71	10	5	ND	2	17	1	2	2	74	.17	.18	11	25	.71	64	.01	3	1.77	.01	.07	2	40
TR 21E 4+25S	2	87	23	90	.3	12	5	409	3.94	9	5	ND	2	19	1	2	2	82	.17	.12	11	36	.64	49	.02	5	1.64	.01	.05	2	58
TR 21E 4+36S	1	82	54	329	.7	21	12	1996	3.96	11	6	ND	2	42	1	3	2	68	.54	.17	15	35	.85	456	.02	7	1.14	.01	.11	2	95
TR 21E 4+50S	2	99	73	668	1.7	19	11	1456	4.53	11	5	ND	2	50	2	4	2	89	.76	.23	18	48	1.10	349	.03	5	1.79	.01	.11	2	115
TR 21E 4+75S	3	267	30	705	1.2	20	13	1628	5.40	14	5	ND	2	46	1	3	2	90	.73	.19	24	47	1.53	306	.07	5	1.98	.01	.14	2	52
TR 21E 5+00S	2	58	41	444	1.0	17	9	1760	4.27	6	5	ND	2	42	1	3	2	89	.49	.18	14	44	1.18	386	.04	4	2.06	.01	.10	2	43
TR 22E 5+00N	1	30	10	89	.3	14	10	541	5.11	12	5	ND	2	29	1	2	2	144	.25	.10	10	51	1.08	55	.14	3	1.96	.02	.06	2	16
TR 22E 4+75N	4	475	16	195	.3	33	16	6676	5.77	21	5	ND	2	26	2	2	2	161	.28	.30	29	93	1.34	187	.07	6	4.22	.01	.08	4	13
TR 22E 4+50N	1	56	12	73	.6	14	9	617	4.87	14	5	ND	2	27	1	2	2	131	.22	.16	9	56	.84	53	.06	5	1.70	.01	.06	2	28
TR 22E 4+25N	1	26	12	45	.3	9	5	463	2.90	7	5	ND	2	27	1	2	2	90	.18	.09	8	35	.46	64	.06	3	1.26	.01	.05	2	24
TR 22E 4+00N	1	54	13	84	.7	15	9	438	4.73	13	5	ND	2	28	1	2	2	99	.24	.12	10	49	.95	54	.05	10	2.09	.01	.07	2	15
TR 22E 3+75N	1	24	8	72	.3	15	8	499	4.18	11	5	ND	2	32	1	2	2	122	.26	.10	8	47	.97	49	.11	4	1.97	.01	.07	2	8
TR 22E 3+50N	1	62	14	86	.3	15	10	563	4.81	15	5	ND	2	26	1	3	2	105	.25	.16	9	53	1.01	43	.06	7	1.91	.01	.07	2	21
TR 22E 3+25N	1	40	13	79	.3	14	10	503	5.88	10	5	ND	2	27	1	2	2	129	.20	.13	11	59	.86	48	.08	6	1.78	.01	.06	3	13
STD S-1/FA-AU	87	122	115	183	31.1	151	80	482	3.16	118	98	34	172	125	78	78	85	57	.56	.12	129	64	.58	122	.08	164	1.43	.20	.21	60	52

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	AU** PPB
TR 22E 3+00N	2	49	2	94	.4	19	11	790	4.29	17	5	ND	2	28	1	2	2	124	.37	.13	3	41	1.62	80	.13	8	2.03	.01	.24	2	16
TR 22E 2+75N	1	34	10	48	.1	8	5	310	3.55	11	5	ND	2	21	1	2	2	82	.17	.14	7	25	.51	55	.03	3	1.14	.01	.06	2	18
TR 22E 2+50N	1	27	5	82	.2	10	9	498	3.82	11	5	ND	2	30	1	2	2	101	.30	.08	6	35	.87	164	.09	5	1.34	.01	.07	2	8
TR 22E 2+25N	1	45	10	82	.2	14	9	630	4.74	11	5	ND	2	19	1	2	2	112	.18	.16	6	40	1.02	60	.07	3	1.60	.01	.07	2	13
TR 22E 2+00N	2	43	7	71	.3	11	7	883	3.33	11	6	ND	2	27	1	2	2	91	.28	.09	7	34	.89	192	.07	4	1.50	.01	.09	2	22
TR 22E 1+75N	2	104	12	106	.5	16	10	898	3.76	10	9	ND	2	35	1	2	2	94	.36	.12	10	36	1.10	272	.04	5	1.92	.01	.13	3	16
TR 22E 1+50N	2	46	10	73	.2	14	8	474	4.21	9	9	ND	2	25	1	2	2	99	.23	.15	7	40	.91	86	.06	5	1.50	.01	.09	3	21
TR 22E 1+25N	1	36	7	84	.3	12	9	575	4.17	10	13	ND	2	25	1	2	2	97	.29	.15	5	41	.96	98	.06	6	1.33	.01	.14	2	8
TR 22E 1+00N	1	71	10	89	.1	14	10	684	4.22	17	5	ND	2	21	1	2	3	91	.29	.22	6	36	1.01	59	.05	3	1.61	.01	.07	2	18
TR 22E 0+75N	1	96	6	93	.2	22	14	967	4.12	19	5	ND	2	44	1	2	2	97	.58	.16	6	74	1.31	77	.08	7	1.26	.01	.25	2	29
TR 22E 0+50N	1	48	10	56	.3	8	6	523	3.69	5	5	ND	2	24	1	2	2	91	.18	.11	7	29	.48	64	.04	2	1.37	.02	.08	2	6
TR 22E 0+25N	1	38	11	91	.2	14	10	531	5.40	14	5	ND	2	22	1	2	2	141	.22	.20	6	46	1.24	71	.12	4	2.13	.01	.07	2	4
TR 22E 0+00S	1	46	12	107	.2	14	10	731	4.79	10	5	ND	2	41	1	2	2	105	.53	.23	6	34	1.16	208	.09	3	1.84	.01	.12	2	6
TR 22E 0+25S	1	49	10	67	.1	10	6	374	3.68	7	5	ND	3	20	1	2	2	69	.20	.16	7	24	.56	107	.03	3	1.33	.01	.06	2	10
TR 22E 0+50S	2	147	14	129	.6	19	13	1060	4.68	14	5	ND	2	29	1	2	2	107	.37	.20	7	48	1.32	159	.09	3	2.03	.01	.13	3	21
TR 22E 0+75S	1	34	10	119	.4	12	7	578	4.41	7	5	ND	2	20	1	2	2	97	.17	.13	6	38	.77	74	.06	3	1.56	.01	.07	2	28
TR 22E 1+00S	1	32	11	95	.6	12	7	664	4.33	11	5	ND	2	20	1	2	2	106	.17	.12	6	37	.84	61	.06	6	1.56	.01	.07	2	14
TR 22E 1+25S	1	16	7	33	.1	3	2	140	1.57	3	5	ND	2	31	1	2	2	37	.26	.07	6	9	.22	92	.01	2	.94	.01	.04	2	3
TR 22E 1+50S	1	38	28	254	.2	14	10	1037	4.03	10	5	ND	2	37	1	2	2	90	.62	.20	7	47	1.21	98	.06	7	1.30	.01	.09	2	21
TR 22E 1+75S	1	35	44	157	.4	12	8	935	4.20	6	5	ND	2	20	1	2	2	102	.19	.18	6	44	.87	50	.03	4	1.44	.01	.08	2	48
TR 22E 2+00S	2	33	14	71	.1	9	7	907	4.14	7	5	ND	2	18	1	2	2	79	.16	.22	8	25	.62	67	.03	2	1.46	.02	.07	2	3
TR 22E 2+25S	1	49	10	78	.2	10	10	1633	3.93	5	5	ND	2	19	1	2	2	64	.20	.33	7	27	.68	76	.03	4	2.43	.01	.07	2	7
TR 22E 2+50S	1	38	8	72	.2	9	7	578	3.47	5	5	ND	2	24	1	2	2	71	.22	.11	7	27	.61	129	.03	3	1.30	.01	.10	2	6
TR 22E 2+75S	1	21	10	92	.1	14	9	602	4.59	7	5	ND	2	21	1	2	2	110	.21	.12	5	29	1.43	45	.12	2	2.07	.01	.08	2	1
TR 22E 3+00S	2	75	22	84	.1	11	7	673	4.28	9	5	ND	2	19	1	2	2	86	.17	.15	9	30	.54	65	.02	2	1.30	.01	.05	2	25
TR 22E 3+25S	2	44	19	82	.2	10	4	362	3.96	11	5	ND	2	16	1	2	2	88	.09	.18	9	24	.35	56	.02	2	1.39	.01	.05	2	32
TR 22E 3+50S	1	70	17	210	.4	10	6	733	2.65	7	9	ND	2	42	1	2	2	56	.56	.14	12	23	.57	445	.01	3	1.44	.01	.07	3	30
TR 22E 3+75S	2	103	37	423	.7	20	12	2746	3.19	12	5	ND	2	59	2	2	2	65	.92	.21	13	32	.96	407	.03	3	1.41	.01	.09	2	82
TR 22E 4+00S	2	69	53	525	.5	21	12	2154	4.36	13	5	ND	2	48	2	4	2	84	.70	.19	10	58	1.14	341	.03	4	1.35	.01	.12	2	51
TR 22E 4+25S	2	89	50	830	1.3	15	9	1509	3.24	11	9	ND	2	66	3	2	2	57	.98	.21	16	34	.82	460	.02	4	1.24	.01	.08	2	61
TR 22E 4+50S	1	29	8	112	1.2	4	2	194	.39	2	5	ND	2	225	1	2	2	5	3.28	.07	4	11	.19	741	.01	5	.21	.01	.01	2	1
TR 22E 4+75S	1	60	78	389	1.2	15	9	1508	3.10	12	5	ND	2	56	2	2	2	53	.83	.18	12	32	.85	281	.02	7	1.06	.01	.09	2	52
TR 22E 5+00S	2	232	75	428	4.7	20	12	2606	3.46	15	5	ND	2	73	2	2	2	56	.99	.22	30	45	.91	453	.02	4	1.39	.01	.10	2	73
TR 22+75E 0+05N	1	99	8	113	.3	22	14	1182	4.12	15	5	ND	2	39	1	2	2	98	.57	.17	6	75	1.45	97	.08	4	1.40	.01	.28	2	31
TR 23E 5+00N	3	87	12	107	.6	19	11	868	4.38	11	5	ND	2	67	1	2	2	93	.83	.17	8	53	1.14	168	.05	5	1.64	.01	.08	2	75
TR 23E 4+75N	2	96	11	98	.6	19	13	999	5.08	16	5	ND	2	68	1	2	2	110	.85	.17	9	60	1.28	157	.06	5	1.65	.01	.07	2	29
TR 23E 4+50N	4	73	13	98	.4	16	11	843	4.02	16	5	ND	2	69	1	2	2	88	.76	.14	8	51	1.06	178	.04	2	1.62	.01	.06	2	30
STD S-1/FA-AU	87	122	115	183	31.1	150	80	484	3.16	115	100	33	171	125	78	75	91	57	.56	.12	126	63	.58	122	.08	161	1.43	.20	.20	62	52

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	AU** PPB
TR 23E 4+25N	4	49	15	95	.2	11	8	592	3.90	7	9	ND	2	77	1	2	2	106	.72	.09	9	31	.77	242	.05	4	1.75	.01	.05	2	7
TR 23E 4+00N	3	65	10	103	.4	14	10	788	4.08	9	8	ND	2	85	1	3	2	93	.91	.14	9	37	1.06	209	.04	5	1.66	.01	.06	2	28
TR 23E 3+75N	4	87	10	115	.8	13	10	2155	3.49	8	5	ND	2	116	1	2	2	76	1.20	.16	10	32	.82	278	.03	5	1.55	.01	.05	2	20
TR 23E 3+50N	1	88	11	128	.2	22	17	1242	5.24	18	5	ND	2	65	1	3	2	115	.83	.17	8	66	1.68	112	.10	4	1.81	.01	.11	2	95
TR 23E 3+25N	2	91	12	99	.5	18	12	989	4.50	13	5	ND	2	70	1	2	2	104	.88	.16	10	47	1.30	123	.07	5	1.78	.01	.11	2	25
TR 23E 3+00N	3	72	11	105	.6	15	11	922	4.47	14	8	ND	2	73	1	2	2	99	.84	.18	10	46	1.13	140	.05	5	1.64	.01	.08	2	38
TR 23E 2+75N	3	73	10	105	1.0	13	9	1239	3.60	9	14	ND	2	77	1	2	2	87	.99	.21	10	42	.87	172	.03	5	1.56	.01	.08	2	175
TR 23E 2+50N	2	64	7	66	.1	21	10	414	4.51	12	6	ND	2	37	1	2	3	138	.34	.13	7	52	1.03	97	.11	4	1.70	.01	.06	2	20
TR 23E 2+25N	1	25	6	37	.1	6	4	269	2.20	4	16	ND	2	51	1	2	2	61	.53	.07	7	21	.27	174	.03	2	.96	.01	.06	2	15
TR 23E 2+00N	1	30	6	60	.2	14	7	568	3.76	7	16	ND	2	68	1	2	3	107	.82	.11	8	39	.76	192	.09	6	1.18	.01	.08	2	11
TR 23E 1+75N	1	230	6	48	.6	10	5	651	2.12	5	14	ND	2	92	1	2	2	51	1.32	.16	21	51	.50	219	.02	25	1.16	.01	.06	2	1
TR 23E 1+50N	2	22	8	81	.3	14	6	438	3.24	8	5	ND	2	28	1	2	2	97	.23	.06	9	34	.80	135	.07	3	1.54	.01	.08	2	1
TR 23E 1+25N	1	30	12	64	.4	9	7	1092	3.71	6	5	ND	2	27	1	2	2	119	.24	.08	9	29	.74	111	.08	3	1.35	.02	.10	2	22
TR 23E 1+00N	1	36	10	65	.3	10	7	921	3.43	4	5	ND	2	20	1	2	2	73	.15	.11	9	29	.52	148	.04	3	1.28	.01	.07	2	2
TR 23E 0+75N	1	84	7	84	.3	17	12	787	4.48	9	5	ND	2	31	1	2	2	106	.35	.18	7	44	1.19	82	.08	5	1.78	.01	.11	2	18
TR 23E 0+50N	2	69	10	75	.4	12	10	1983	3.79	6	5	ND	2	44	1	2	2	96	.42	.13	9	36	.90	236	.03	5	1.70	.01	.10	2	23
TR 23E 0+00S	1	23	12	81	.5	14	7	547	3.05	6	5	ND	2	24	1	2	2	86	.24	.10	6	43	.93	60	.07	4	1.81	.01	.06	2	11
TR 23E 0+25S	1	27	11	60	.4	9	6	480	2.63	4	5	ND	2	24	1	2	2	76	.18	.08	7	31	.69	58	.05	4	1.50	.01	.07	2	29
TR 23E 0+50S	1	39	13	88	.3	12	8	640	4.90	13	5	ND	2	19	1	2	2	109	.15	.09	10	43	.72	54	.06	3	1.99	.01	.05	2	21
TR 23E 0+75S	1	67	245	1383	2.0	12	11	1348	3.94	7	5	ND	2	30	8	5	2	96	.47	.17	8	33	1.29	90	.05	4	2.07	.01	.05	2	60
TR 23E 1+00S	1	32	18	106	.4	10	7	548	4.21	8	5	ND	2	21	1	2	2	107	.19	.13	9	35	.74	50	.07	3	1.67	.01	.06	2	49
TR 23E 1+25S	1	20	13	60	.2	8	4	217	2.48	3	5	ND	2	18	1	2	2	70	.11	.06	9	22	.35	54	.04	3	1.27	.01	.04	2	3
TR 23E 1+50S	1	26	10	41	.6	6	4	339	3.03	6	5	ND	2	17	1	2	2	73	.09	.08	8	20	.47	47	.03	2	1.71	.01	.05	2	1
TR 23E 1+75S	1	27	9	46	.3	7	5	312	3.34	8	5	ND	2	17	1	2	2	83	.11	.10	9	27	.49	46	.03	3	1.69	.01	.05	2	4
TR 23E 2+00S	1	27	10	49	.2	8	5	267	3.78	9	5	ND	2	19	1	2	2	85	.11	.10	10	24	.47	45	.03	3	1.37	.01	.04	2	20
TR 23E 2+25S	1	32	10	68	.3	13	8	904	4.60	8	5	ND	2	22	1	2	2	104	.17	.17	10	36	.92	60	.05	4	1.85	.02	.07	2	2
TR 23E 2+50S	1	30	11	67	.1	9	8	886	4.31	11	5	ND	2	30	1	2	2	109	.26	.11	9	29	.77	75	.08	4	1.39	.02	.10	2	1
TR 23E 2+75S	1	21	10	41	.2	7	5	247	3.79	9	5	ND	2	14	1	2	3	96	.08	.09	9	25	.40	46	.04	3	1.51	.01	.03	2	2
TR 23E 3+00S	1	27	13	76	.3	19	10	497	4.50	8	5	ND	2	18	1	2	4	109	.17	.09	8	58	1.16	39	.09	5	1.84	.01	.04	2	12
TR 23E 3+25S	1	7	7	17	.1	3	2	85	.97	4	5	ND	2	13	1	2	2	31	.05	.04	6	9	.19	41	.02	2	1.01	.01	.02	2	6
TR 23E 3+50S	1	28	11	81	.3	10	6	407	3.67	3	5	ND	2	25	1	2	2	76	.24	.11	10	27	.60	138	.02	3	1.51	.01	.07	2	14
TR 23E 3+60S	1	67	45	360	.8	21	13	2382	3.90	9	5	ND	2	30	2	2	2	65	.44	.17	11	32	1.07	288	.03	4	1.15	.01	.08	2	18
TR 23E 3+75S	1	32	25	251	.9	14	9	1024	3.92	8	5	ND	2	56	1	3	2	90	.69	.12	10	35	1.12	304	.06	4	1.87	.01	.05	2	16
TR 23E 4+00S	1	52	297	394	1.6	15	11	1658	4.13	9	5	ND	2	57	1	2	2	79	.74	.14	11	36	1.25	352	.05	5	1.64	.01	.08	2	60
TR 23E 4+25S	1	81	42	306	2.1	13	8	1355	3.13	8	5	ND	2	100	2	2	2	58	1.25	.20	16	29	.75	680	.02	5	1.43	.01	.06	2	27
TR 23E 4+50S	1	68	71	240	1.1	11	7	1083	2.47	8	5	ND	2	107	1	2	2	44	1.35	.16	12	23	.65	550	.02	7	1.08	.01	.06	2	1
TR 23E 4+75S	1	56	38	210	1.0	23	8	1490	2.80	6	5	ND	2	66	1	3	2	55	.88	.18	10	44	.73	395	.02	4	1.12	.01	.06	2	16
TR 23E 5+00S	1	70	30	289	1.7	18	10	1206	3.55	6	5	ND	2	66	1	3	2	67	.90	.18	13	41	1.09	404	.04	4	1.60	.01	.08	2	13
STD S-1/FA-AU	85	121	114	182	31.8	150	80	493	3.16	114	96	33	168	125	83	74	88	57	.56	.12	125	63	.58	121	.07	167	1.43	.20	.17	64	53

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	AU** PPB
TR RD-1	2	64	13	242	.2	15	10	1567	3.25	7	5	ND	2	60	1	5	2	71	.65	.19	9	27	1.29	211	.06	7	1.37	.01	.11	2	95
TR RD-2	1	32	12	71	.2	10	7	999	2.34	2	8	ND	2	58	1	2	2	35	.44	.12	8	16	.35	335	.01	5	.59	.01	.09	2	2
TR RD-3	1	43	15	90	.1	5	6	1263	2.17	2	8	ND	2	156	1	2	2	29	.89	.13	15	11	.27	799	.01	5	.76	.02	.10	2	10
TR RD-4	3	280	11	100	.4	36	19	1419	6.43	13	5	ND	2	53	1	2	3	133	.62	.16	7	82	1.50	207	.08	2	1.66	.01	.31	9	115
TR RD-5	4	217	11	104	.4	28	14	1439	4.80	6	5	ND	2	64	1	2	3	99	.69	.15	11	52	1.32	213	.05	4	1.58	.01	.24	4	70
TR 16+15E 2+00S ROCK	9	110	353	14309	4.3	33	22	3631	4.35	100	5	ND	2	74	59	2	5	39	1.65	.14	5	95	.63	29	.09	15	.64	.01	.06	2	315
TR 17E 1+50S ROCK	1	66	13	630	.1	101	14	2907	5.10	2	5	ND	2	37	1	5	2	63	1.63	.14	13	53	1.74	81	.01	2	1.74	.02	.12	2	8
TR 17E 2+00S ROCK	1	11	6	1454	.1	21	12	3103	4.10	4	5	ND	2	57	7	5	3	60	2.06	.20	9	16	2.04	75	.01	6	2.08	.03	.23	2	7
STD S-1/FA-AU	86	122	114	183	31.3	151	80	487	3.16	114	93	34	173	125	80	79	92	57	.56	.12	128	63	.58	122	.08	162	1.43	.20	.20	61	53



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,171

IMPERIAL METALS CORPORATION

TAKLA RAINBOW

FIGURE 3 N.T.S. 93N/11W

GEOCHEMISTRY - Au, Ag

Metres 50 0 50 100 150 200 Metres

SCALE: 1:2500	GEOLOGIST: W. MORTON
DATE: OCTOBER 1984	DRAWN BY: S. HAWORTH

TWIN 5

TWIN 6

6253 ■ ■ 6254

6271 ■

■ B

RD - 5
217, 104

6270

6269

6268

6267 ■

6266 ■

RD - 4
280, 100

▲ Top of Hill

LEGEND

- Claim Boundary
- Corner Post
- Stream
- ▲ Top of Hill
- 6251 ■ Rock Sample & Number
- Cu, Zn ● Soil Sample
- Cu + Zn Geochemistry
- Cu / Zn Cu (ppm), Zn (ppm)

6276
452
6275

■ 6252

■ 6251

■ A

15T - 00 - R

6272

CAMP

RD - 1
64, 242

6255

6256

RD - 2
32, 71

RD - 3
43, 90

6257 ■ ■ 6258

■ 6259

T-02

T-03

T-04

T-05

T-06

6277

6260
6261
6262
6263
6265
6264 ■

6274

6273

TAKLA RAINBOW
Legal Corner Post ⊠

12+00 N
10+00 N
8+00 N
6+00 N
4+00 N
2+00 N
0+00
2+00 S
4+00 S

0+00 2+00 E 4+00 E 6+00 E 8+00 E 10+00 E 12+00 E 14+00 E 16+00 E 18+00 E 20+00 E 22+00 E 24+00 E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,171

IMPERIAL METALS CORPORATION

TAKLA RAINBOW

FIGURE 4 N.T.S. 93N/11W

GEOCHEMISTRY - Cu, Zn

Metres 50 0 50 100 150 200 Metres

SCALE: 1:2500 GEOLOGIST: W. MORTON

DATE: OCTOBER 1984 DRAWN BY: S. HAWORTH

TWIN 5

TWIN 6

6253 ■ ■ 6254

6271 ■

■ B

RD - 5
11,213

6270

6269

6268

6267

6266

RD - 4
11,207

▲ Top of Hill

LEGEND

- Claim Boundary
- ⊠ Corner Post
- Stream
- ▲ Top of Hill
- 6251 ■ Rock Sample & Number
- Pb, Ba — Soil Sample
- Pb | Ba — Geochemistry
  Pb (ppm), Ba (ppm)
  Pb / Ba

■ 6252

■ 6251

■ A

15T - 00 - R

■ 6272

CAMP

RD - 1
13,211

■ 6255

■ 6256

RD - 2
12,335

RD - 3
15,799

6257 ■ ■ 6258

■ 6259

6276

6275

T-02

T-03

T-04

T-05

T-06

6277

6264 ■ ■ 6260 ■ 6261 ■ 6262 ■ 6263 ■ 6265

6274

6273

TAKLA RAINBOW
Legal Corner Post ⊠

12+00 N
10+00 N
8+00 N
6+00 N
4+00 N
2+00 N
0+00
2+00 S
4+00 S

0+00 2+00 E 4+00 E 6+00 E 8+00 E 10+00 E 12+00 E 14+00 E 16+00 E 18+00 E 20+00 E 22+00 E 24+00 E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,171

IMPERIAL METALS CORPORATION

TAKLA RAINBOW

FIGURE 5 N.T.S. 93N/11W

GEOCHEMISTRY - Pb, Ba

Metres 50 0 50 100 150 200 Metres

SCALE: 1:2500 GEOLOGIST: W. MORTON

DATE: OCTOBER 1984 DRAWN BY: S. HAWORTH