84-#614-12747
7/85

GRID ESTABLISHMENT AND GEOCHEMICAL SURVEY

KEEN GRID NIFTY PROPERTY

SPECIFIC CLAIMS INVOLVED:

Keen 4228 (11)
Keen 2 408 (8)

MINING DIVISION	:	Skeena
SPECIFIC NTS LOCATION	:	93D/9W
LATITUDE AND LONGITUDE	:	126° 23' 52° 32'
OWNER OF CLAIMS	:	Imperial Metals Corporation
OPERATOR OF CLAIMS	:	Imperial Metals Corporation
AUTHOR OF REPORT	:	J.W. Morton
DATE	:	August 1, 1984

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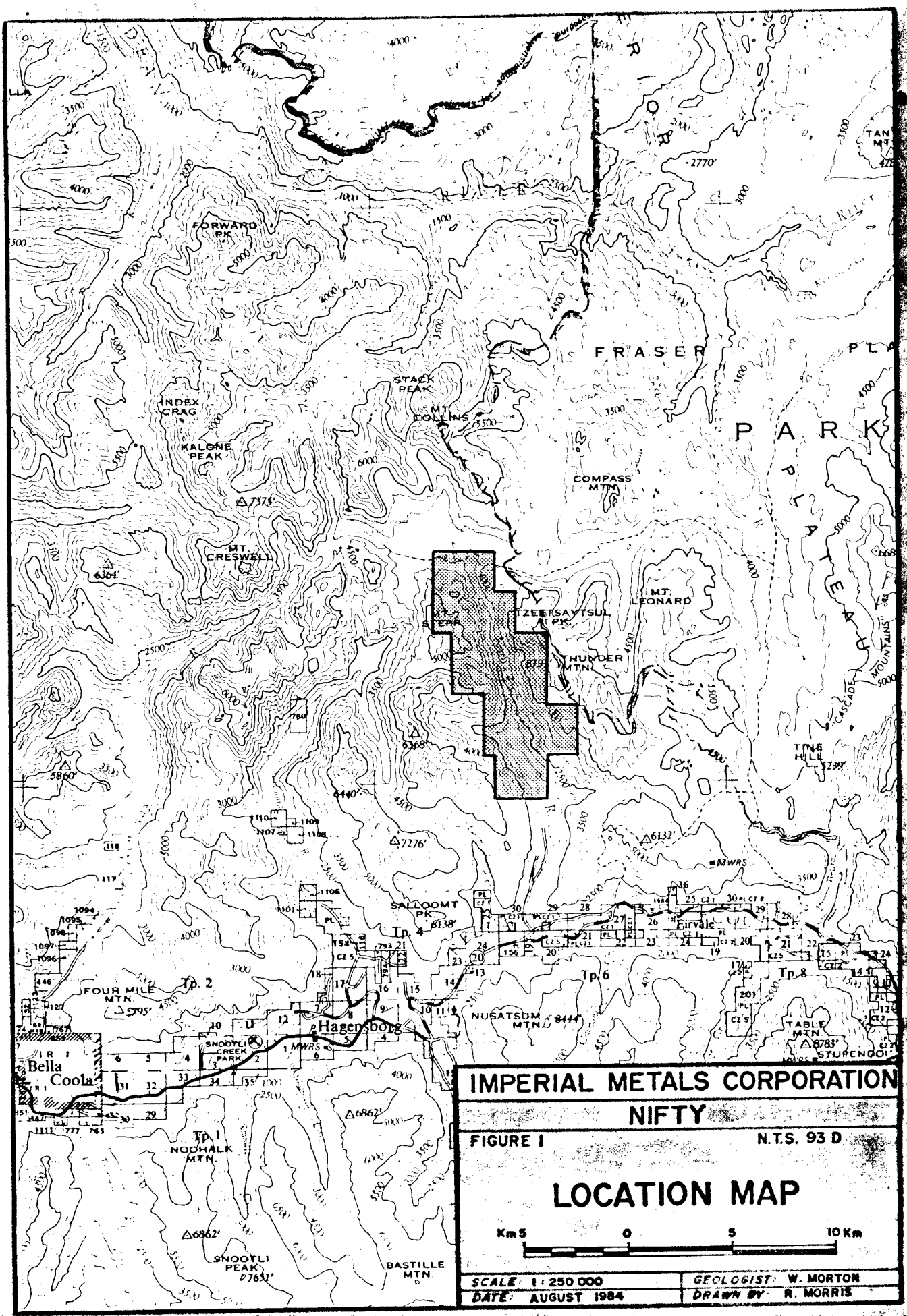
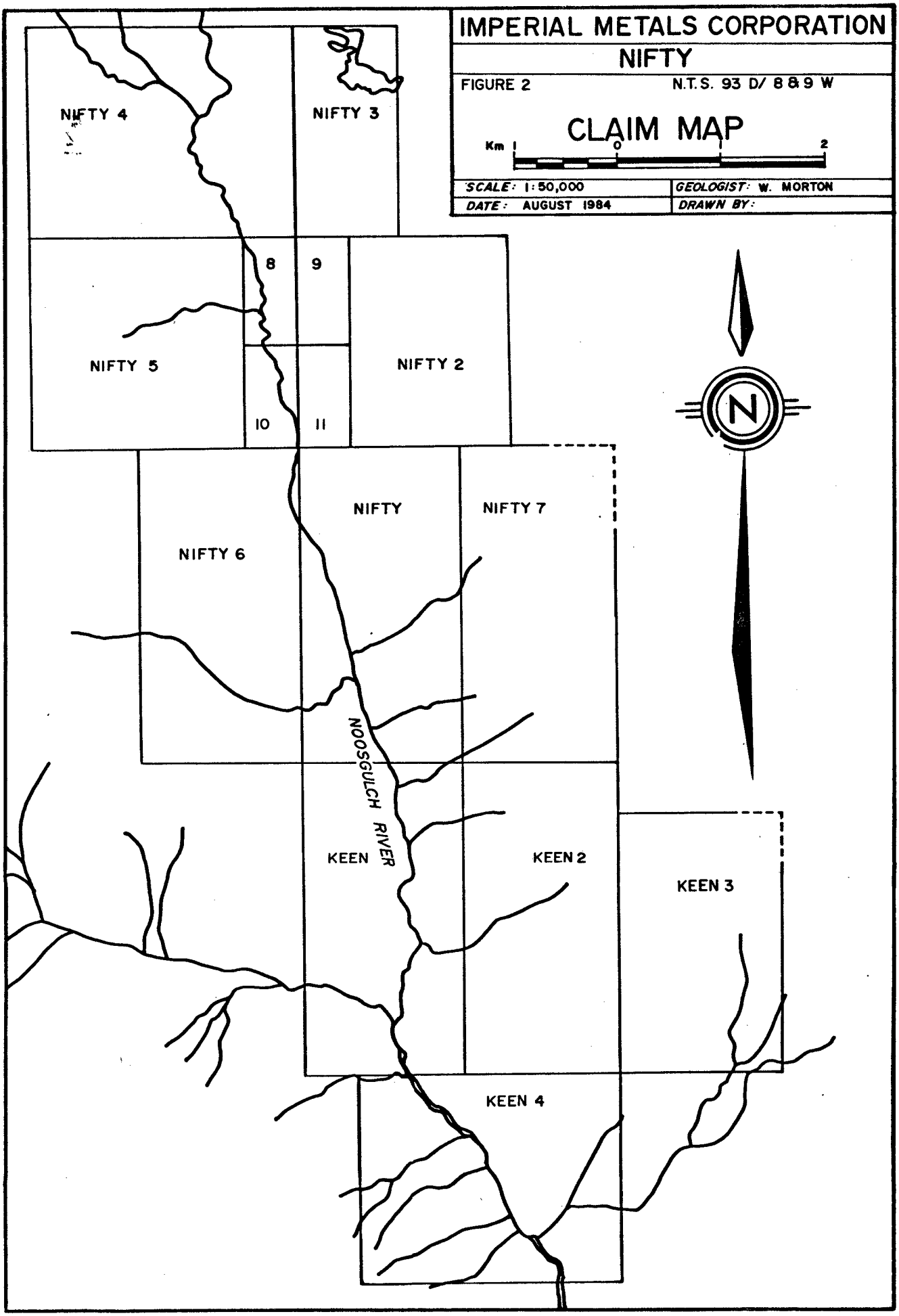

FORWARD PK.
INDEX CRAG
KALONE PEAK
STACK PEAK
MT. COLLINS
FRASER PLATEAU
COMPASS MTN.
MT. CRESWELL
MT. LEONARD
TZEETSAYTSUL PK.
THUNDER MTN.
CASCADE MOUNTAINS
TINE HILL
SALLOOMT PK.
Tp. 4
Tp. 2
Tp. 6
Tp. 8
Tp. 1
FOUR MILE MTN.
NUSATSUM MTN.
TABLE MTN.
STUPENDOUS
Hagensborg
Bella Coola
SNOOTLI CREEK PARK
NOOHALK MTN.
SNOOTLI PEAK
BASTILLE MTN.
Airvale
IMPERIAL METALS CORPORATION
NIFTY
FIGURE 1
N.T.S. 93 D
LOCATION MAP
Km 5 0 5 10 Km
SCALE 1:250 000
GEOLOGIST W. MORTON
DATE AUGUST 1984
DRAWN BY R. MORRIS


IMPERIAL METALS CORPORATION
NIFTY
FIGURE 2
N.T.S. 93 D/ 8 & 9 W
CLAIM MAP
Km 1 0 2
SCALE: 1:50,000
GEOLOGIST: W. MORTON
DATE: AUGUST 1984
DRAWN BY:
NIFTY 4
NIFTY 3
8
9
NIFTY 5
NIFTY 2
10
11
N
NIFTY
NIFTY 7
NIFTY 6
NOOSGULCH RIVER
KEEN
KEEN 2
KEEN 3
KEEN 4

INTRODUCTION

General Geographic and Physiographic Position

The Nifty property, consisting of the Nifty and Keen claims, is located eighteen kilometers northeast of Hagensborg, B.C. (Bella Coola Valley). The Keen claims are accessible from Hagensborg by a logging road which runs north from the Bella Coola Valley up the Noosgulch River and which ends at the southern boundary of the Keen and Keen 2 claims. The terrain beyond the end of the logging road consists of steap mountain hillside. Vegetation varies from lush coastal coniferous forest at the lower elevations to coastal alpine types at the higher elevations.

Property Definition

At the Nifty property Kuroko style massive sulphide mineralization (Pb, Zn, Ag, Ba) occurs within the culminating "acid pile" of a submarine volcanic sequence. The volcanics hosting the massive sulfide mineralization are described by A. J. Baer of the Geological Survey of Canada as being an unnamed Triassic greenstone unit. G.J. woodsworth *1 consulting for Pan Ocean Oil and M.H. Holtby *2 and C.J. Campbell *2 working for Rio Tinto Canadian Explorations, believe that the hosting volcanics occuring at the Nifty property are part of the lower Cretaceous Gambier Group volcanics. Two anomalous areas of interest have been identified to this date - The 'Nifty Main Showing' (on claim Nifty 8) and the 'Keen Anomaly' (on claims Keen and Keen 2). A distance of 6km separates the 'Nifty Main Showing' from the 'Keen Anomaly'.

*1 J.R. Woodcock, September 2, 1977, Report to Pan Ocean Oil.

*2 M.H. Holtby and C.J. Campbell, November 15, 1980, Rio Tinto Canadian Explorations Ltd., report titled: Geological report on the Nifty 2, Nifty 5, Keen 1 and Keen 2 Mineral Claims. Geophysical report on the Nifty 5 Mineral Claim Skeena Mining Division (Nifty 5 claim restaked in 1980 in part by Nifty 8 claim).

Summary of Work Completed

A cut and picketed grid totalling 9.2 kilometers was established. Lines were run using parallax methods and were chained with a polyethylene chain (corrections due to topography variations were not attempted). A total of 393 soil samples were collected. Soil samples were collected using a soil mattock and were obtained from an average depth of 30cm. Where possible soils were sampled from the Bf horizon. Soil samples were placed in kraft brown paper bags and were dried before shipment to Acme Analytical Labs in Vancouver. At Acme Analytical Labs samples were analysed using multi-element inductively coupled argon plasma analyses (I.C.P.) methods. Gold was determined using atomic absorption techniques. Samples were screened to minus 80 mesh in preparation for analyses.

Work completed in this report occurs on the Keen and Keen 2 mineral claims.

Detailed Technical Data and Interpretations

Based on visual analyses of the element dispersion histograms (see appendix) the following dispersion classification has been selected:

Element	Minimum Value	Maximum Value	Background Range	Threshold Range	Anomalous Range
Silver	0.1 ppm	8.6 ppm	<0.7 ppm	0.7 ppm-2.5 ppm	>2.5 ppm
Lead	1 ppm	1066 ppm	<65 ppm	65 ppm-245 ppm	>245 ppm
Zinc	9 ppm	2345 ppm	<250 ppm	250 ppm-525 ppm	>525 ppm
Copper	16 ppm	781 ppm	<90 ppm	90 ppm-120 ppm	>120 ppm
Arsenic	2 ppm	163 ppm	<20 ppm	20 ppm-50 ppm	>50 ppm
Gold	1 ppb	41 ppb	<5 ppb	5 ppb-16 ppb	>16 ppb

The most striking anomaly occurring on the grid is a multi-element anomaly (Ag, Pb, Zn, Cu, Ag) occurring between 4 + 25N to 5 + 25N on lines LO through to L5E.

Other significant (partial) multi-element anomalies occur on the Keen grid on lines 2W and 1W over the intervals 6+00N to 7+00N and on line 3W over the interval 4+25N to 5+00N.

In all cases topography is steap and slopes to the southwest and as such one can infer that the source of the anomalies is most likely to the northeast of the individual anomaly.

Recommendations

An electromagnetic and/or induced polarization survey should be undertaken in order to attempt to resolve targets that are responsible for these geochemical anomalies.

COSTS

Grid Establishment and Geochemical Survey

March 28 - April 3	J.W. Morton	8 days @ $200 day	$ 1,600
March 27 - April 6	D. Dunlop	21 days @ $ 75 day	1,575
March 30 - April 16	Niquidet	18 days @ $ 75 day	1,350
May 1 - May 15	MacKenzie	15 days @ $100 day	1,500
May 3 - May 15	Wood	13 days @ $100 day	975
Room & Board		75 man days @ $ 50 day	3,750
Vehicle Costs		44 vehicle days @ $ 50 day	2,200
Assay Costs		393 samples @ $12.75 each	5,010
Consumables			200
Report Preparation and Drafting			750
			$ 18,910

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.

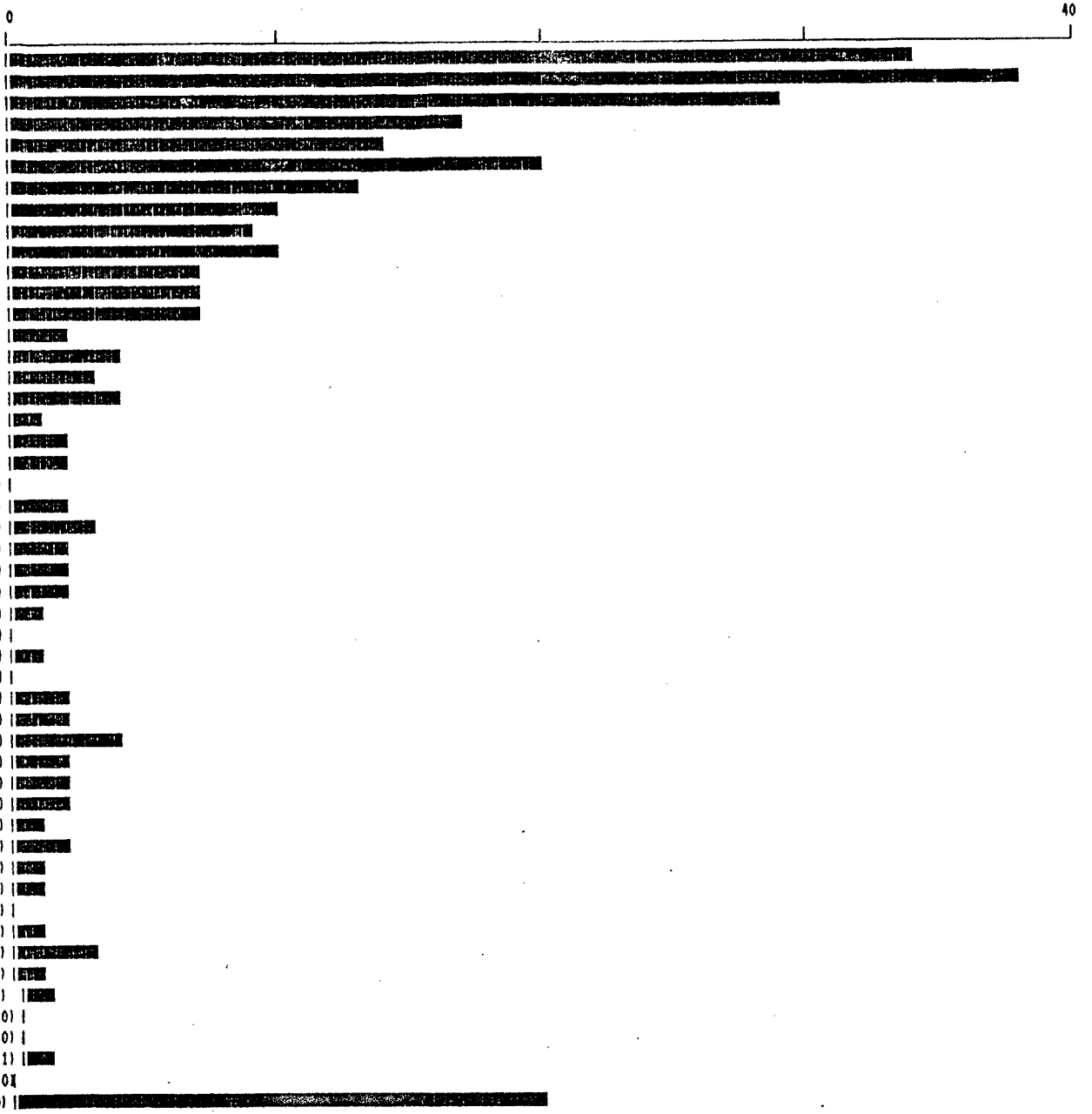
I am presently a permanent staff geologist with Imperial Metals Corporation of Vancouver, B.C.

I supervised all of the work described in this report.

J.W. Morton,
Geologist

IMPERIAL METALS PROJECT # 4205364 FILE # 84-( )

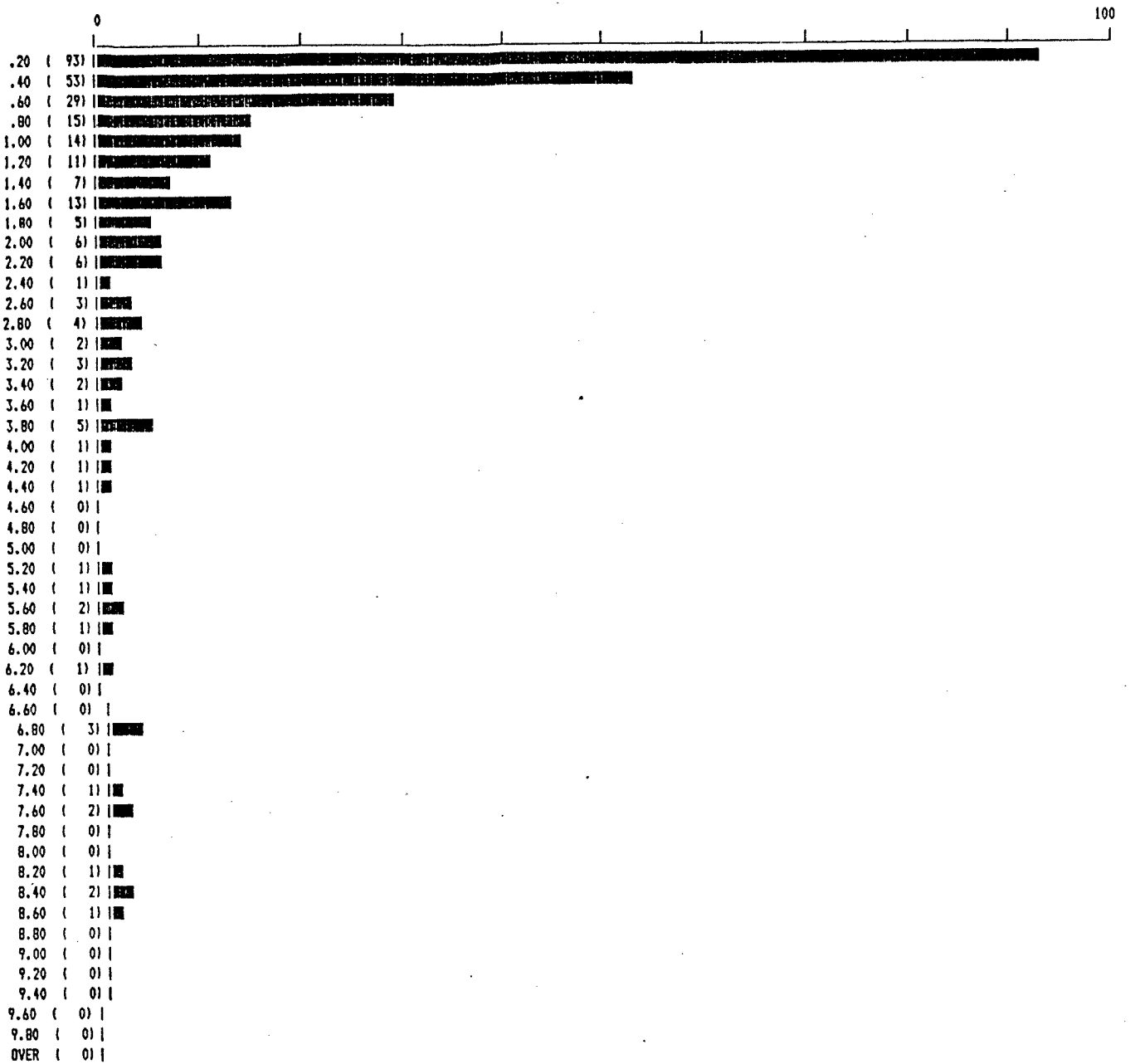
PB (PPM(



SAMPLE SIZE : 292 MAX : 1066 MIN : 1 MEDIAN : 28
MEAN : 76.94 S.D. : 134.49

IMPERIAL METALS PROJECT # 4205364 FILE # 84-0570

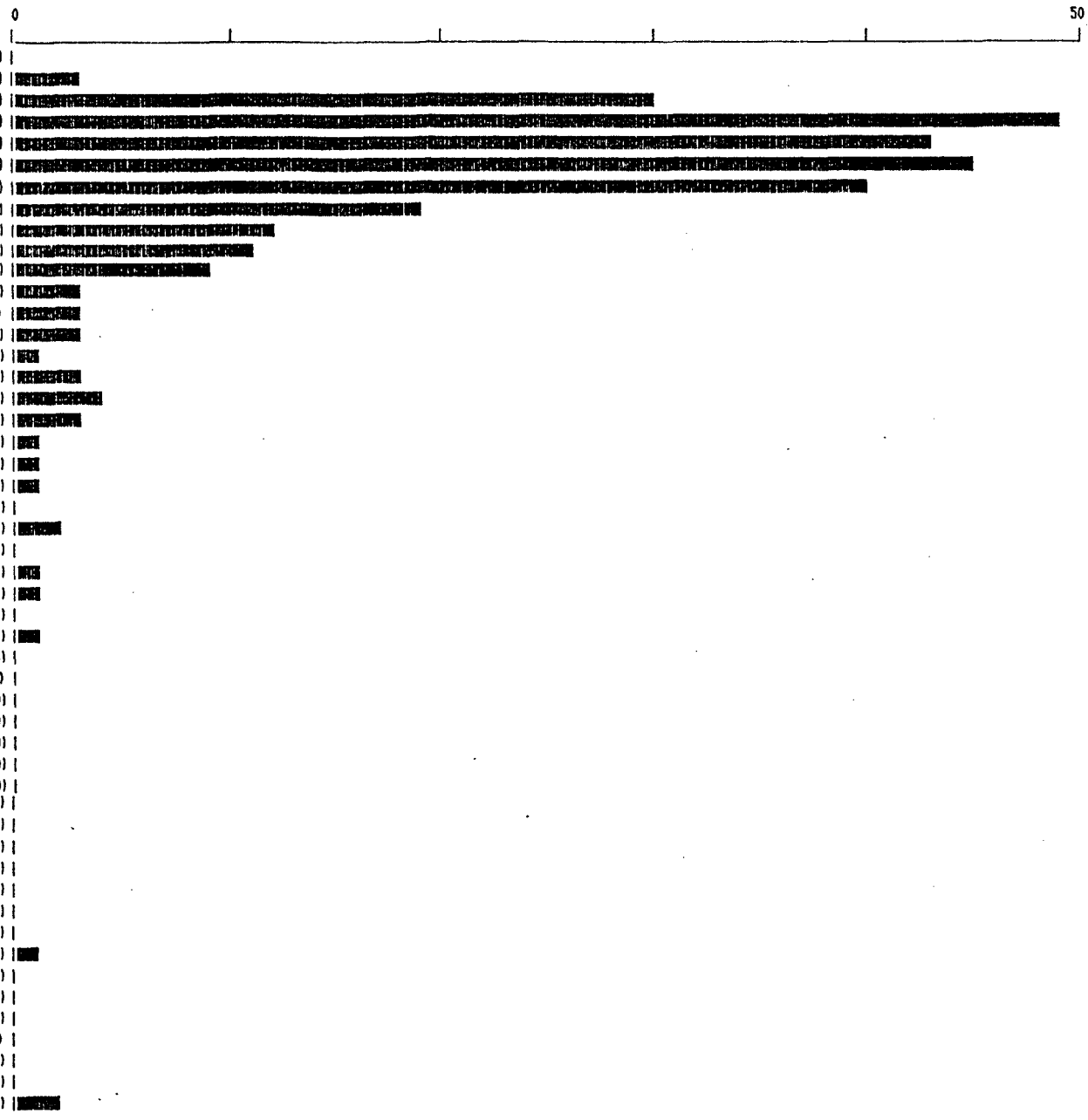
AG (PPM)



SAMPLE SIZE : 292 MAX : 8.6 MIN : .1 MEDIAN : .4
MEAN : 1.14 S.D. : 1.66

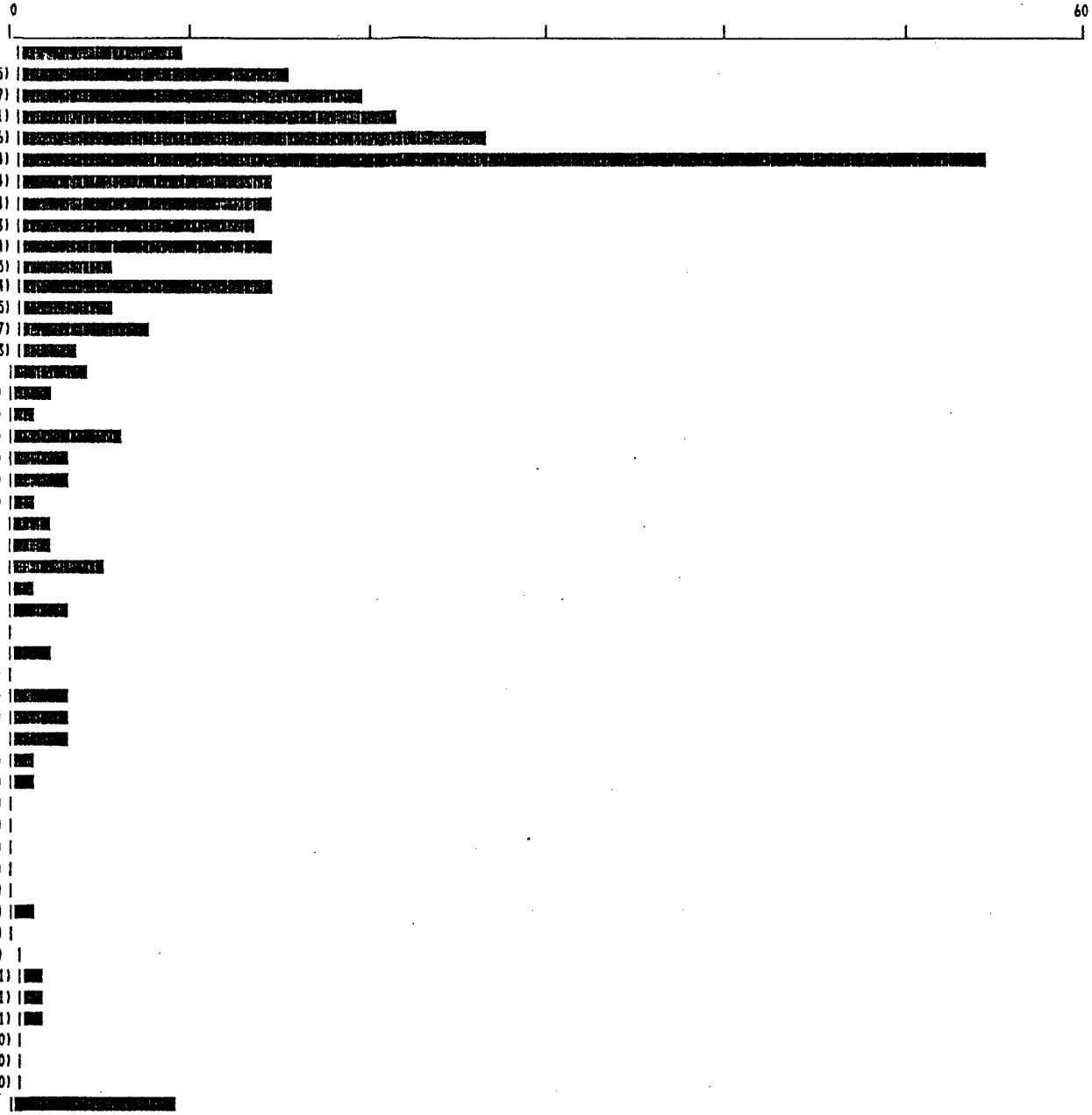
IMPERIAL METALS PROJECT # 4205364 FILE # 84-0370

CU (PPM)



SAMPLE SIZE : 292 MAX : 781 MIN : 16 MEDIAN : 56
MEAN : 70.68 S.D. : 68.36

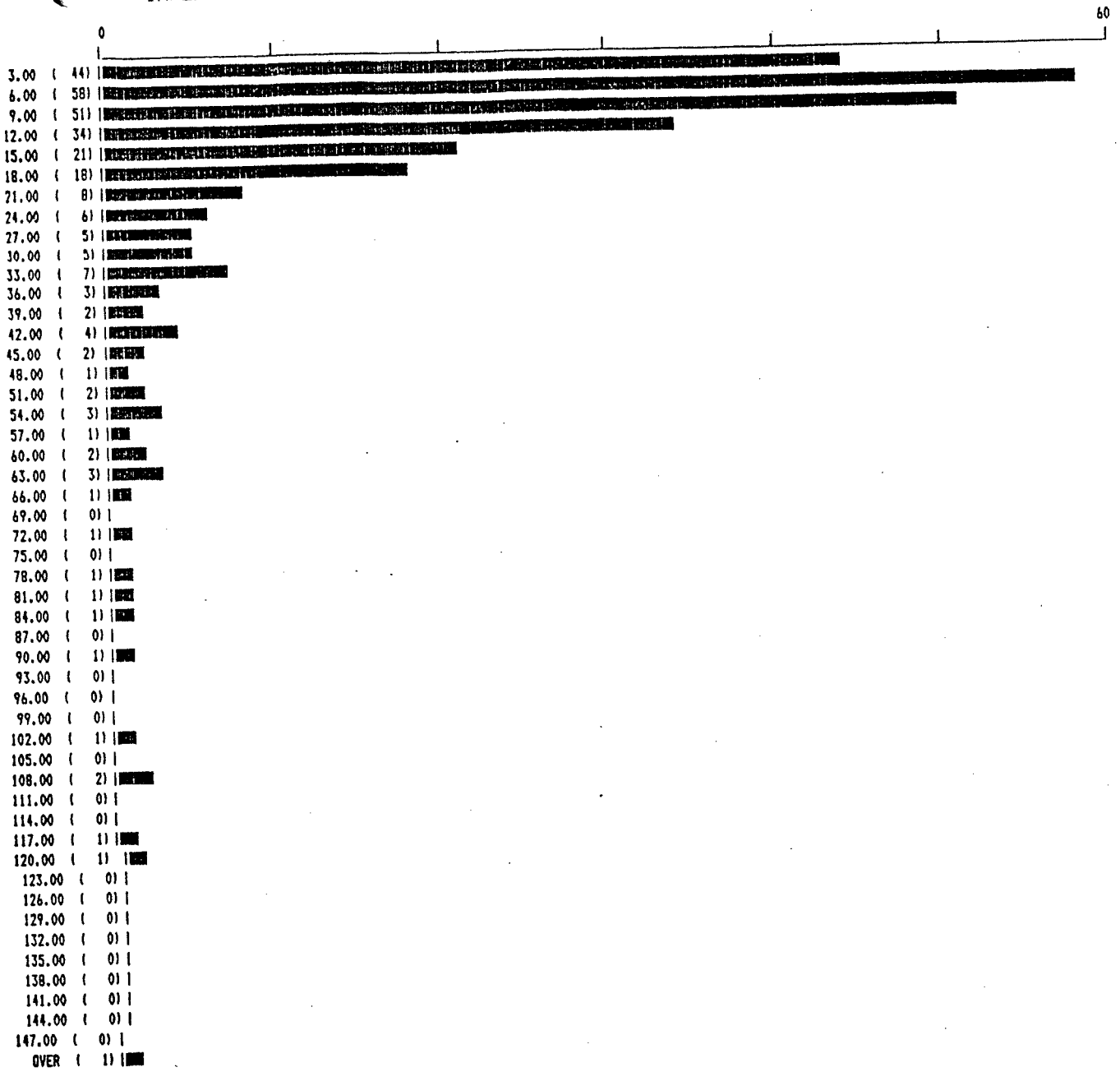
IMPERIAL METALS PROJECT # 4205364 FILE # 84-( ) ZN (PPM(



SAMPLE SIZE : 292 MAX : 2343 MIN : 9 MEDIAN : 91
MEAN : 178.33 S.D. : 258.17

IMPERIAL METALS PROJECT # 4205364 FILE # 84(/0

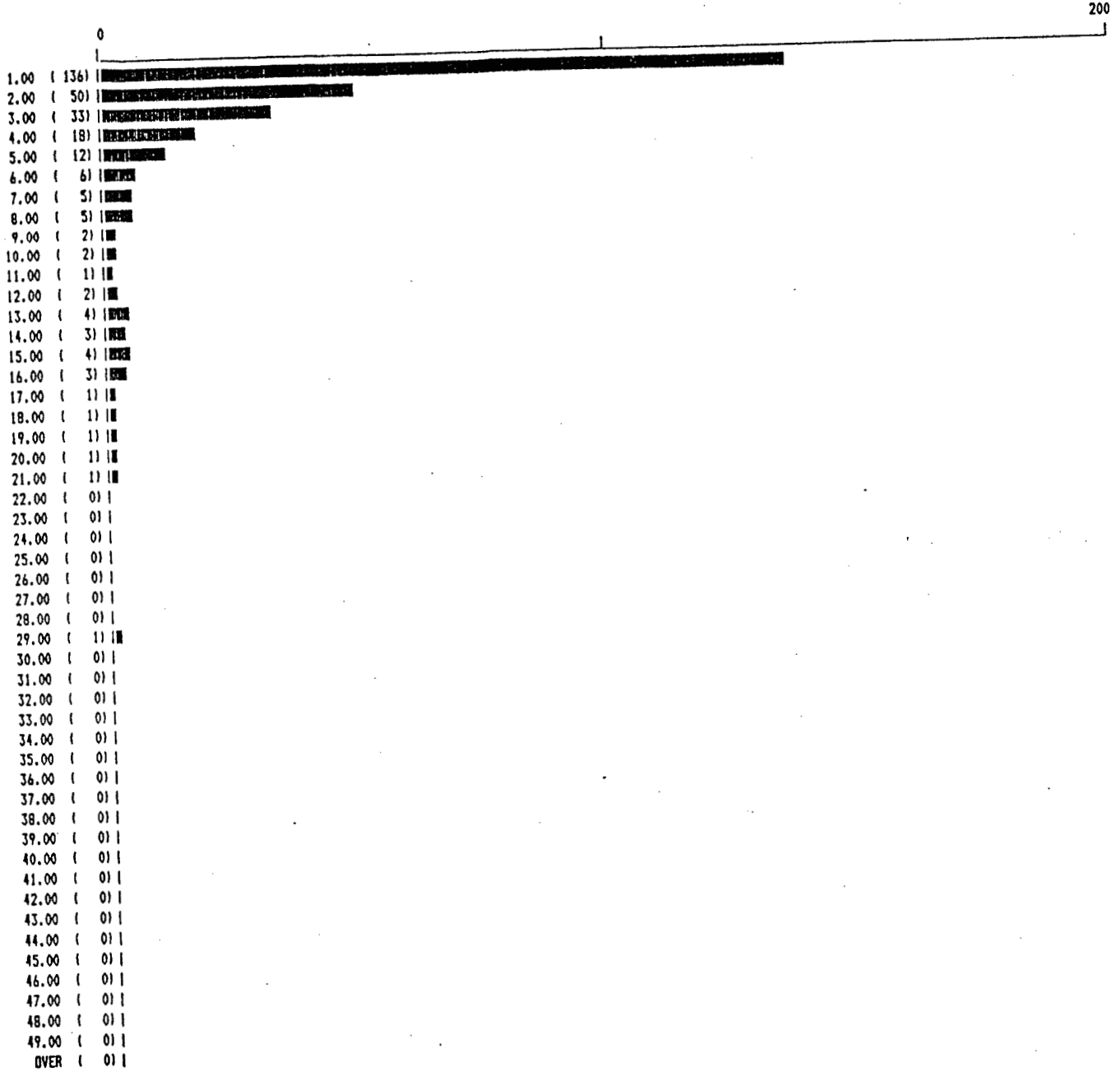
AS (PPM(



SAMPLE SIZE : 292 MAX : 163 MIN : 2 MEDIAN : 9
MEAN : 16.55 S.D. : 21.72

IMPERIAL METALS PROJECT # 4205364 FILE # 84-0570

AU** (PPB)



SAMPLE SIZE : 292 MAX : 29 MIN : 1 MEDIAN : 2
MEAN : 3.35 S.D. : 4.18

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: SOIL AU** ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: APRIL 18 1984 DATE REPORT MAILED: Apr 24/84 ASSAYER. D. Toye. DEAN TOYE. CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT # 4205364 FILE # 84-0570 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
7N 3W	12	37	97	121	.9	9	5	462	5.45	17	2	ND	2	23	1	3	2	120	.14	.06	7	15	.28	83	.12	5	2.18	.01	.03	2	1
6+75N 3W	9	80	71	467	1.3	15	13	1444	3.84	7	2	ND	2	26	3	3	2	74	.28	.10	10	20	.68	102	.06	7	2.66	.01	.06	2	1
6+12.5N 3W	2	38	34	210	.4	12	8	510	3.79	6	5	ND	2	17	1	2	2	68	.18	.10	9	19	.46	89	.11	6	3.25	.01	.03	2	4
6N 3W	2	31	34	180	.2	12	7	564	3.77	5	2	ND	2	16	1	2	2	65	.17	.10	10	17	.47	70	.09	6	3.26	.01	.02	2	7
5+87N 3W	3	31	74	166	.5	12	8	554	4.84	8	3	ND	3	14	1	5	3	74	.14	.25	8	22	.44	66	.08	4	3.38	.01	.01	3	3
5+75N 3W	4	24	65	86	.6	7	4	375	4.85	11	2	ND	2	13	1	2	2	96	.11	.12	11	12	.19	53	.08	6	2.12	.01	.02	2	3
5+67.5N 3W	12	37	151	138	.9	9	8	1115	5.22	21	2	ND	2	17	1	3	2	91	.17	.08	14	24	.25	72	.07	5	3.16	.01	.03	2	1
5+50N 3W	4	40	57	120	1.5	8	6	797	4.96	4	3	ND	2	14	1	2	2	84	.12	.25	12	21	.28	56	.08	6	2.78	.01	.02	2	2
5+37N 3W	2	20	39	57	.5	11	4	265	5.05	11	2	ND	2	14	1	2	2	135	.14	.10	10	17	.18	61	.17	5	1.92	.01	.02	2	3
5+25N 3W	2	27	63	151	.8	9	5	366	3.89	4	3	ND	2	13	1	2	2	71	.14	.07	9	19	.30	58	.10	5	3.30	.01	.02	2	5
5+12.5N 3W	3	16	31	51	.4	6	3	368	4.38	4	2	ND	2	15	1	2	2	146	.12	.07	8	15	.15	36	.16	5	1.65	.01	.01	2	1
5N 3W	2	27	27	85	.4	10	6	386	5.21	6	2	ND	2	15	1	2	2	96	.16	.06	12	19	.37	56	.11	5	2.84	.01	.02	2	1
4+87N 3W	1	33	34	235	.3	14	9	492	3.83	6	2	ND	2	17	1	2	2	70	.22	.06	10	19	.57	66	.13	6	3.49	.01	.02	2	1
4+75N 3W	7	204	52	2123	.3	12	11	3319	3.15	14	2	ND	2	35	14	2	2	58	1.01	.09	14	17	.54	115	.05	6	2.38	.01	.04	2	1
4+62.5N 3W	7	78	45	679	.4	15	14	1269	5.46	15	2	ND	2	36	3	2	2	94	.87	.07	17	20	.78	70	.08	7	2.72	.01	.04	2	2
4+50N 3W	7	91	46	1596	.2	13	12	836	5.20	16	2	ND	2	29	8	2	2	101	.66	.05	17	22	.58	95	.11	6	3.45	.01	.03	2	1
4+37N 3W	6	48	46	404	.3	14	15	876	5.97	12	3	ND	2	33	2	2	2	96	.83	.06	15	20	.67	85	.12	8	2.99	.01	.03	2	7
4+25N 3W	7	56	50	354	.7	10	11	1104	4.31	11	2	ND	2	22	3	2	2	100	.36	.04	13	15	.30	98	.07	5	2.71	.01	.03	2	2
4+12.5N 3W	4	40	20	235	1.0	17	7	381	5.00	2	2	ND	2	17	2	3	2	86	.23	.05	15	27	.69	78	.13	6	4.29	.01	.03	2	1
4N 3W	4	26	55	77	.4	9	5	322	7.46	8	2	ND	2	12	1	2	2	145	.10	.19	12	16	.18	61	.18	7	2.10	.01	.02	2	1
3+75N 3W	3	34	52	281	1.0	11	12	578	4.97	8	8	ND	2	15	1	2	2	76	.14	.11	11	25	.39	70	.12	7	4.01	.01	.03	2	6
3+50N 3W	2	47	35	170	.5	12	10	511	4.57	7	2	ND	2	16	1	2	2	86	.16	.06	8	23	.47	66	.14	7	3.17	.01	.02	2	2
7+50N 2W	2	23	61	29	1.0	4	2	107	1.49	3	2	ND	2	19	1	3	2	62	.14	.03	3	8	.09	43	.09	3	1.15	.01	.02	2	2
7+25N 2W	18	69	31	271	.5	21	15	1765	4.98	13	2	ND	2	29	3	2	2	90	.31	.06	15	22	1.10	88	.10	5	3.21	.01	.04	2	3
7N 2W	11	78	28	473	.3	19	15	942	4.45	12	2	ND	2	32	3	2	2	79	.46	.06	9	22	1.01	69	.09	5	2.82	.01	.04	2	2
6+75N 2W	43	185	414	367	1.1	10	12	898	8.84	70	2	ND	2	15	2	2	2	80	.17	.21	9	7	.20	84	.07	9	2.29	.01	.06	2	1
6+50N 2W	23	781	570	364	8.4	10	46	5584	6.40	83	2	ND	2	20	5	2	2	52	.21	.33	15	13	.37	91	.03	8	2.62	.01	.07	2	15
6+37.5N 2W	8	98	164	455	1.2	14	22	2948	4.79	30	2	ND	2	27	3	3	2	72	.23	.13	14	20	.65	121	.05	5	2.66	.01	.07	2	3
6+25N 2W	9	137	169	496	2.8	11	25	2911	5.96	35	2	ND	2	23	3	2	2	69	.34	.15	16	14	.33	174	.04	6	2.88	.01	.07	2	4
6+12.5N 2W	12	90	173	392	1.4	9	30	3745	7.33	43	2	ND	2	24	2	2	2	83	.25	.31	14	6	.32	178	.04	5	2.55	.01	.10	2	2
5+25N 2W	6	47	40	123	.6	11	8	488	4.45	8	2	ND	2	22	2	2	2	105	.37	.06	8	16	.39	71	.10	5	2.31	.01	.02	2	1
5+12.5N 2W	7	63	40	179	.3	13	15	1484	5.46	11	2	ND	2	27	2	2	2	116	.52	.07	10	22	.44	51	.15	6	2.46	.01	.04	2	1
5N 2W	3	65	26	241	.1	19	16	1241	4.63	5	2	ND	2	31	2	2	2	75	.49	.10	13	22	1.17	48	.07	5	2.96	.01	.06	2	1
4+87.5N 2W	7	113	38	482	.4	15	16	1687	5.30	19	2	ND	2	26	4	2	3	102	.24	.07	18	28	.71	80	.18	6	3.12	.01	.04	2	3
4+75N 2W	5	44	82	82	.8	9	8	278	4.75	10	6	ND	2	6	1	5	2	70	.07	.05	3	10	.08	32	.03	5	1.32	.01	.04	2	2
4+62.5N 2W	7	33	218	144	.4	7	7	1196	6.16	14	2	ND	2	7	1	6	2	66	.07	.11	6	9	.13	44	.06	4	1.87	.01	.07	2	1
4+50N 2W	5	42	80	96	.4	11	8	1203	4.90	21	2	ND	2	11	1	7	2	69	.10	.10	3	15	.17	28	.08	6	1.30	.01	.03	2	1
STD A-1/FA-AU	1	31	38	183	.3	36	11	945	2.82	9	2	ND	2	35	1	2	2	56	.58	.09	8	73	.68	270	.08	7	2.06	.02	.20	2	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
4+37.5N 2W	1	34	25	163	.5	12	9	714	3.70	6	3	ND	2	11	1	2	2	57	.12	.09	7	23	.42	58	.08	5	4.65	.01	.02	2	1
4+25N 2W	1	40	21	125	.6	13	9	992	4.01	9	2	ND	2	14	1	2	2	62	.24	.08	9	23	.47	66	.09	5	4.03	.01	.02	2	4
4+12.5N 2W	1	27	41	42	.7	6	4	231	3.76	13	2	ND	2	10	1	2	2	83	.07	.04	2	16	.12	61	.07	3	1.87	.01	.02	2	2
4N 2W	2	27	27	118	.4	10	8	524	4.08	7	2	ND	2	14	1	2	2	80	.15	.08	7	23	.36	68	.09	3	3.16	.01	.02	2	2
3+75N 2W	1	32	41	115	.6	11	8	530	5.81	6	2	ND	2	17	1	2	2	92	.17	.05	5	19	.35	75	.12	6	2.20	.01	.03	2	1
3+50N 2W	4	94	117	362	1.6	10	15	4513	4.34	19	3	ND	2	15	1	2	2	75	.15	.07	8	24	.40	100	.08	5	3.31	.01	.03	2	6
0+50N 2W	1	56	13	121	.1	47	19	795	4.26	6	2	ND	2	49	1	2	2	86	1.13	.09	11	67	1.82	70	.19	5	2.81	.01	.06	2	2
0+25N 2W	1	61	10	76	.1	41	17	732	3.93	3	2	ND	2	50	1	2	2	81	1.33	.08	9	64	1.58	40	.18	5	2.54	.02	.03	2	1
0N 2W	1	69	7	96	.1	35	19	877	4.61	4	2	ND	2	42	1	2	2	105	1.03	.09	14	48	1.79	97	.18	5	3.06	.01	.06	2	3
7+50N 1W	12	62	41	85	2.1	15	11	1366	5.32	18	2	ND	2	24	1	2	2	126	.28	.08	5	31	.54	49	.14	4	2.12	.01	.04	2	1
7+25N 1W	12	69	34	860	.4	20	15	3491	3.27	14	2	ND	2	39	16	2	2	62	1.36	.09	6	21	.80	89	.05	4	2.19	.01	.04	2	1
7N 1W	10	40	82	279	1.9	9	5	433	5.36	16	2	ND	2	15	1	2	2	96	.15	.06	2	19	.21	87	.11	5	2.43	.01	.02	2	4
6+75N 1W	7	541	240	1417	1.2	11	35	4918	4.13	32	2	ND	2	23	7	2	2	36	.38	.31	5	11	.53	172	.02	4	2.48	.01	.09	2	15
6+25N 1W	16	175	161	168	3.6	8	15	1318	4.86	33	2	ND	2	13	1	2	2	55	.15	.10	3	5	.30	133	.02	4	2.45	.01	.06	2	3
6N 1W	10	96	206	289	2.6	8	8	606	3.95	26	3	ND	2	18	2	4	2	56	.29	.07	2	4	.24	124	.03	3	1.94	.01	.07	2	1
5+62N 1W	2	26	53	168	.4	12	10	514	3.81	10	2	ND	2	25	1	2	2	65	.79	.05	5	21	.56	67	.09	7	2.40	.01	.02	2	1
5+50N 1W	5	109	151	1014	.6	18	17	2547	3.55	21	7	ND	2	40	10	2	2	57	1.24	.16	11	25	.75	79	.03	4	2.76	.01	.06	2	1
5+37.5N 1W	8	66	46	304	.6	13	21	2432	4.43	14	2	ND	2	26	2	2	2	77	.54	.14	7	23	.48	54	.06	5	3.08	.01	.06	2	1
5+25N 1W	4	27	33	133	.3	9	6	412	3.54	12	2	ND	2	23	1	2	2	69	.50	.05	4	17	.35	99	.09	3	2.11	.01	.02	2	1
5+12N 1W	4	32	43	76	.6	10	6	326	4.27	7	4	ND	2	14	1	4	2	93	.24	.05	3	19	.32	59	.10	4	2.18	.01	.02	2	1
5N 1W	5	27	59	77	.6	9	7	412	5.84	7	2	ND	2	10	1	2	2	101	.13	.04	3	18	.16	68	.09	6	2.12	.01	.03	2	1
4+87.5N 1W	2	23	28	101	.5	12	8	481	4.60	8	2	ND	2	17	1	2	2	93	.18	.05	4	25	.36	90	.14	4	2.77	.01	.02	2	1
4+75N 1W	2	36	20	176	.5	14	8	476	3.42	7	2	ND	2	18	1	3	2	65	.28	.07	5	24	.54	87	.10	5	3.26	.01	.02	2	3
4+62N 1W	3	30	22	106	.5	11	8	541	4.30	7	2	ND	2	15	1	3	2	81	.18	.05	3	25	.39	59	.13	6	3.09	.01	.02	2	2
4+50N 1W	3	47	29	147	.3	12	10	1057	4.34	12	2	ND	2	15	1	4	2	74	.17	.06	8	23	.40	70	.10	6	3.01	.01	.03	2	1
4+37.5N 1W	3	21	41	80	.2	8	4	295	4.22	5	2	ND	2	18	1	2	2	134	.22	.04	2	21	.16	34	.13	5	1.74	.01	.03	2	1
4+25N 1W	3	21	40	78	.7	8	5	348	4.16	7	2	ND	2	15	1	3	2	104	.16	.05	2	14	.21	81	.10	4	1.95	.01	.02	2	1
4+12N 1W	4	34	30	142	.9	10	8	671	4.65	7	2	ND	2	17	1	2	2	96	.24	.05	5	25	.31	46	.10	5	2.32	.01	.02	2	2
4N 1W	10	253	195	2343	1.9	29	16	1180	3.58	33	2	ND	2	32	16	2	2	52	1.34	.07	5	17	.54	77	.05	7	1.57	.01	.06	2	1
3+75N 1W	3	31	99	145	2.0	11	15	4383	6.69	18	2	ND	2	10	1	2	2	75	.35	.09	4	15	.30	74	.11	6	1.60	.01	.07	2	1
3+50N 1W	2	32	31	144	1.3	11	7	428	4.32	12	2	ND	2	14	1	4	2	97	.16	.07	3	24	.36	71	.09	21	3.46	.01	.03	2	1
3+25N 1W	1	30	34	170	.5	13	8	467	4.21	9	2	ND	2	16	1	2	2	98	.17	.05	3	26	.47	110	.11	20	2.86	.01	.02	2	1
3N 1W	3	45	36	174	.1	10	8	7628	5.41	11	2	ND	3	13	1	2	2	144	.12	.18	3	27	.27	134	.13	7	2.68	.01	.03	2	5
2+75N 1W	3	22	48	121	.7	6	5	1120	3.44	15	2	ND	2	14	1	2	2	61	.20	.06	2	13	.16	81	.07	3	1.33	.01	.10	2	2
2+50N 1W	2	40	43	270	.9	13	12	1184	4.54	15	7	ND	2	17	1	2	2	83	.23	.04	3	20	.55	109	.09	6	2.44	.01	.04	2	1
2+25N 1W	7	116	62	511	.4	27	18	1124	4.74	20	2	ND	2	22	2	2	2	77	.35	.05	17	33	.92	89	.08	4	3.53	.01	.04	2	1
2N 1W	1	60	11	147	.1	36	18	869	4.32	6	2	ND	2	37	1	2	2	87	.75	.09	10	49	1.54	65	.16	21	3.09	.01	.04	2	1
STD A-1/FA-AU	1	31	39	187	.3	37	12	965	2.75	11	2	ND	2	35	1	2	2	57	.61	.09	7	74	.68	277	.08	8	2.06	.02	.19	2	51

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
1+75N 1W	1	70	10	83	.1	41	19	1606	3.82	4	3	ND	2	59	1	2	2	78	1.15	.13	17	59	1.98	58	.20	4	2.70	.01	.06	2	3
1+50N 1W	1	47	14	77	.1	29	15	1270	3.48	4	2	ND	2	24	1	2	2	47	.89	.14	14	27	1.43	91	.08	19	2.18	.01	.08	2	9
1+25N 1W	1	56	14	85	.1	33	16	814	3.73	6	2	ND	2	50	1	2	2	80	1.22	.10	13	54	1.69	74	.19	3	2.53	.01	.06	2	6
1N 1W	1	46	13	81	.1	48	19	805	3.99	5	2	ND	2	58	1	2	2	88	1.24	.11	13	75	1.98	39	.23	3	2.72	.01	.06	2	1
0+75N 1W	1	47	10	90	.1	46	20	732	4.48	5	2	ND	2	49	1	2	2	88	1.12	.13	14	66	1.80	74	.17	2	2.86	.01	.06	2	1
0+50N 1W	1	51	13	80	.1	35	15	574	3.54	2	2	ND	2	40	1	2	2	74	.96	.13	9	48	1.47	39	.18	3	2.32	.01	.05	2	1
0+25N 1W	1	45	12	81	.1	45	20	807	4.29	2	2	ND	2	52	1	2	2	97	1.14	.12	12	73	2.07	55	.23	2	2.80	.01	.07	2	2
0N 1W	1	75	15	84	.1	43	20	874	4.42	7	2	ND	2	50	1	2	2	97	1.22	.11	16	57	2.10	84	.23	3	3.04	.01	.06	2	5
7+50N 0E	4	31	28	26	1.0	8	3	81	2.03	9	3	ND	2	21	1	5	2	85	.11	.02	2	12	.11	67	.07	2	1.21	.01	.05	2	1
7+25N 0E	6	42	50	69	.8	13	10	1439	6.15	16	2	ND	2	27	1	3	2	123	.42	.28	2	26	.45	35	.10	2	2.03	.01	.06	2	1
7N 0E	14	53	31	61	1.3	12	16	2033	4.10	8	2	ND	2	24	1	5	2	77	.20	.13	5	19	.44	39	.06	2	2.35	.01	.05	2	3
6+75N 0E	10	44	28	79	1.0	10	6	218	2.48	7	2	ND	2	30	3	5	2	62	.60	.04	2	11	.20	89	.07	2	1.14	.01	.05	2	2
6+50N 0E	6	32	26	117	.1	11	12	1238	6.19	7	5	ND	2	16	2	3	2	114	.23	.13	4	21	.37	62	.17	3	2.56	.01	.02	2	1
6+37N 0E	5	36	28	104	.3	11	9	596	4.50	5	2	ND	2	18	1	7	2	104	.20	.04	2	20	.34	82	.13	3	2.56	.01	.03	2	1
5+62.5N 0E	13	59	62	609	1.1	10	22	2484	4.53	79	2	ND	2	41	3	4	2	44	1.51	.17	9	10	.38	183	.02	4	2.13	.01	.09	2	1
5+50N 0E	9	49	215	241	1.6	7	14	1140	3.95	40	2	ND	2	16	1	3	2	75	.32	.10	4	16	.28	46	.04	2	2.65	.01	.05	2	2
5+12.5N 0E	11	65	55	322	.6	12	8	426	5.18	38	4	ND	2	19	2	2	2	114	.26	.09	6	28	.49	64	.08	3	3.08	.01	.06	2	1
4+87.5N 0E	2	29	49	215	.1	12	16	1054	4.45	11	5	ND	2	22	1	5	2	84	.40	.06	4	22	.58	61	.11	3	1.79	.01	.05	2	1
4+62.5N 0E	17	106	289	211	2.5	19	13	754	6.04	58	2	ND	2	14	3	8	2	85	.20	.13	5	22	.23	33	.05	2	1.42	.01	.06	2	8
4+50N 0E	9	179	261	793	2.6	23	15	1085	3.05	32	12	ND	2	48	10	5	2	34	2.57	.13	7	11	.25	45	.02	6	1.11	.01	.03	2	2
4+37.5N 0E	12	121	128	430	7.6	14	9	565	4.40	26	2	ND	2	31	6	3	2	81	1.00	.12	9	21	.26	50	.05	6	1.44	.01	.05	2	4
4+25N 0E	9	52	44	35	1.7	5	3	60	2.39	8	2	ND	2	8	1	3	2	32	.13	.10	2	13	.05	13	.05	2	.86	.01	.02	2	3
4+12N 0E	16	62	144	122	1.0	10	12	764	3.71	34	2	ND	2	24	2	4	2	50	.77	.10	4	11	.20	42	.04	2	1.39	.01	.03	2	4
4N 0E	5	49	68	67	1.3	9	5	143	2.69	15	3	ND	2	21	1	5	2	65	.29	.05	2	19	.12	79	.06	2	1.12	.01	.05	2	1
3+75N 0E	3	30	29	77	.8	11	7	505	3.71	8	2	ND	2	21	1	4	2	101	.25	.06	2	27	.27	78	.09	2	1.77	.01	.03	2	1
3+50N 0E	7	64	31	481	.3	26	26	2763	5.63	11	6	ND	2	17	2	2	2	56	.23	.09	9	32	.79	94	.10	3	3.33	.01	.06	2	2
3+25N 0E	7	51	77	353	2.1	15	33	6980	9.35	7	2	ND	3	22	2	2	2	78	.34	.18	13	35	.31	173	.09	7	2.84	.01	.07	2	1
3N 0E	4	95	49	401	1.9	29	17	1010	4.51	16	2	ND	2	32	2	2	2	69	.68	.08	9	43	.97	36	.08	3	3.95	.01	.05	2	3
2+75N 0E	6	48	38	183	1.2	12	8	519	4.04	14	3	ND	2	17	2	2	2	81	.25	.05	7	22	.35	66	.08	2	2.69	.01	.03	2	2
2+50N 0E	2	31	20	126	.3	13	9	416	3.45	5	2	ND	2	22	1	2	2	66	.52	.05	6	21	.61	28	.12	2	2.93	.01	.02	2	1
2+25N 0E	2	59	15	116	.4	22	14	933	3.36	5	4	ND	2	55	1	2	2	61	1.10	.09	9	33	1.00	77	.09	3	2.27	.01	.06	2	1
2N 0E	1	38	22	201	.2	27	16	813	3.82	9	2	ND	2	58	1	2	2	81	.97	.08	9	41	1.27	97	.14	4	2.47	.01	.05	2	2
1+25N 0E	1	45	11	81	.1	40	19	882	3.98	5	2	ND	2	65	1	2	2	88	1.20	.11	13	69	1.77	43	.23	4	2.54	.01	.06	2	1
1N 0E	1	66	8	78	.1	41	18	915	3.95	6	2	ND	2	68	1	2	2	89	1.38	.12	15	62	2.03	53	.23	4	2.91	.01	.06	2	1
0+75N 0E	1	73	5	81	.1	38	18	936	4.06	5	2	ND	2	58	1	2	2	88	1.43	.13	16	53	2.02	88	.22	5	2.90	.01	.08	2	1
0+50N 0E	1	56	12	80	.1	45	19	844	4.09	5	2	ND	2	44	1	2	2	86	1.20	.12	15	67	2.01	78	.21	4	2.85	.01	.06	2	1
0N 0E	1	69	10	79	.1	40	18	712	4.05	2	2	ND	2	46	1	2	2	92	.87	.09	12	59	1.93	62	.23	3	2.74	.01	.06	2	15
STD A-1/FA-AU	1	30	37	186	.3	35	12	984	2.74	10	2	ND	2	36	1	2	2	58	.60	.10	9	74	.69	275	.08	7	2.03	.02	.20	2	50

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
7+50N 1E	4	68	9	34	1.3	16	7	494	5.27	9	3	ND	2	17	1	2	2	102	.16	.15	10	27	.43	23	.07	4	2.39	.01	.04	2	4
7+25N 1E	11	82	197	137	3.7	11	7	732	3.88	33	3	ND	2	22	1	4	2	41	.37	.22	6	18	.21	122	.04	3	1.38	.01	.19	2	3
7N 1E	2	58	18	55	.5	18	9	390	3.61	10	2	ND	2	31	1	2	2	67	.29	.07	9	22	.95	43	.09	4	2.28	.01	.05	2	1
6+75N 1E	5	41	21	56	.3	10	11	1204	2.73	8	2	ND	2	34	1	2	2	75	.45	.09	4	25	.47	65	.08	3	1.34	.01	.06	2	1
6+50N 1E	17	50	21	475	.1	19	22	3102	4.42	12	2	ND	2	33	4	2	2	73	.70	.11	8	26	.68	50	.06	3	2.48	.01	.05	2	1
6+37.5N 1E	6	41	17	60	.3	17	10	712	4.41	12	2	ND	2	22	1	2	2	84	.29	.09	7	29	.81	23	.10	4	1.90	.01	.05	2	1
6+25N 1E	6	26	23	41	.9	12	3	184	5.38	3	2	ND	2	20	1	2	2	181	.17	.03	4	21	.14	106	.20	4	1.53	.01	.02	2	1
6+12N 1E	3	38	32	41	.7	10	4	178	4.27	6	2	ND	2	16	1	2	2	111	.13	.04	4	19	.21	89	.12	2	1.93	.01	.01	2	2
6N 1E	3	29	27	62	.5	10	5	232	4.46	4	2	ND	2	44	1	2	2	77	.19	.06	5	18	.30	114	.12	2	1.79	.01	.02	2	5
5+87.5N 1E	2	29	71	54	.5	8	3	109	3.56	6	2	ND	2	15	1	3	2	82	.11	.02	2	17	.09	98	.10	2	1.41	.01	.02	2	2
5+25N 1E	9	59	504	367	.7	9	50	2680	4.48	59	2	ND	2	12	2	2	2	49	.26	.08	9	13	.21	86	.04	2	1.86	.01	.06	2	5
5N 1E	4	46	93	92	.9	12	7	436	7.73	12	2	ND	2	10	1	2	2	107	.10	.04	13	23	.27	27	.17	5	2.35	.01	.02	2	1
4+87N 1E	15	177	343	189	3.0	12	13	703	5.37	39	2	ND	2	12	1	2	2	62	.17	.08	8	21	.37	29	.05	3	2.02	.01	.04	2	6
4+75N 1E	15	112	180	82	4.3	16	10	715	6.25	30	2	ND	2	14	1	2	2	70	.13	.10	9	24	.33	30	.07	5	2.09	.01	.04	2	9
4+62.5N 1E	9	59	52	53	3.8	12	9	651	3.94	18	2	ND	2	15	1	2	2	82	.16	.10	4	20	.27	35	.09	2	1.62	.01	.04	2	3
4+50N 1E	4	47	63	182	.4	14	15	2121	4.95	10	2	ND	2	28	1	2	2	100	.26	.16	6	21	.41	106	.14	5	1.82	.01	.05	2	1
4+37N 1E	5	63	73	166	.6	13	13	1706	4.79	18	2	ND	2	26	2	2	2	98	.45	.10	6	20	.37	57	.11	3	1.69	.01	.04	2	3
4+25N 1E	19	65	166	203	2.1	10	14	2159	4.30	42	2	ND	2	24	3	2	2	74	.42	.10	4	15	.23	108	.07	3	1.42	.01	.07	2	4
4+12.5N 1E	11	46	110	105	.8	11	13	2821	3.62	57	2	ND	2	17	1	2	2	67	.18	.08	2	11	.15	83	.07	2	1.33	.01	.06	2	2
4N 1E	6	48	80	94	1.1	13	5	232	2.72	14	2	ND	2	22	2	2	2	75	.25	.07	2	14	.11	105	.08	2	.93	.01	.05	2	1
3+75N 1E	14	63	186	453	.1	13	21	6959	4.63	13	2	ND	2	23	8	2	2	101	.47	.07	3	22	.26	188	.10	4	1.68	.01	.06	2	1
3+50N 1E	14	27	65	184	.4	11	18	952	6.81	22	2	ND	2	26	2	2	2	113	.44	.06	9	23	.30	92	.11	5	2.84	.01	.02	2	3
3+25N 1E	13	37	85	111	.1	8	24	3896	6.01	11	2	ND	2	21	1	2	2	199	.35	.09	2	21	.15	93	.14	4	1.44	.01	.06	2	2
3N 1E	8	36	50	103	.9	10	7	434	6.20	4	2	ND	2	18	2	4	2	103	.18	.07	2	17	.20	74	.10	4	2.10	.01	.05	2	2
2+75N 1E	4	49	28	462	.4	26	15	1327	4.18	3	2	ND	2	38	6	2	2	89	.70	.06	7	35	.95	192	.14	4	2.51	.01	.06	2	1
2+50N 1E	1	85	1	94	.1	42	17	795	4.11	5	2	ND	2	55	1	2	2	77	1.56	.11	12	58	1.80	44	.19	5	2.65	.02	.07	2	4
2+25N 1E	1	55	7	106	.1	40	19	892	4.33	6	2	ND	2	48	1	2	2	86	1.11	.09	9	54	1.64	45	.20	5	2.76	.01	.06	2	1
2N 1E	2	128	7	218	.1	36	18	1199	3.75	2	2	ND	2	53	2	2	2	64	1.62	.11	11	43	1.42	102	.10	4	2.56	.01	.06	2	2
1+25N 1E	1	77	7	77	.1	34	18	899	4.34	5	2	ND	2	37	1	2	2	75	.87	.09	8	42	1.70	140	.14	4	3.10	.01	.09	2	13
1N 1E	1	50	8	72	.1	33	17	1006	4.31	2	2	ND	2	36	1	2	2	81	.86	.09	10	48	1.64	101	.16	4	2.61	.01	.06	2	3
0+75N 1E	1	63	5	77	.1	39	17	799	4.42	8	2	ND	2	54	1	2	2	98	1.15	.08	11	52	1.88	111	.25	5	2.95	.01	.06	2	1
0+25N 1E	1	46	3	86	.1	52	19	893	4.27	2	2	ND	2	45	1	2	2	94	1.12	.08	11	78	2.17	44	.27	5	2.78	.01	.04	2	8
0N 1E	1	69	3	77	.1	45	18	637	4.48	4	2	ND	2	36	1	2	2	89	.91	.11	15	61	1.99	91	.22	4	3.04	.01	.07	2	4
7+75N 2E	1	40	9	41	.2	21	8	339	4.38	4	2	ND	2	25	1	2	2	65	.29	.30	2	33	.75	28	.07	3	1.90	.01	.06	2	1
7+25N 2E	1	33	11	23	.2	5	2	145	1.67	2	2	ND	2	24	1	3	2	33	.26	.17	2	12	.13	39	.06	4	.62	.01	.07	2	1
7N 2E	2	54	13	70	.1	20	15	711	4.27	9	2	ND	2	35	1	2	2	77	.49	.10	7	30	1.15	55	.10	3	2.48	.01	.06	2	2
6+75N 2E	1	23	2	17	.1	4	2	77	.95	2	2	ND	2	14	1	2	2	21	.19	.07	2	11	.10	30	.06	2	.38	.01	.04	2	2
STD A-1/FA-AU	1	30	38	186	.3	37	11	959	2.79	9	2	ND	2	36	1	2	2	57	.60	.09	8	74	.67	279	.09	7	2.03	.02	.21	2	50

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
6+50N 2E	2	49	9	15	.3	7	3	121	2.92	5	2	ND	2	23	1	3	2	49	.19	.24	3	20	.12	27	.06	2	1.21	.01	.05	2	1
6+37.5N 2E	1	57	6	50	.3	11	8	616	2.75	4	2	ND	2	15	1	2	2	62	.21	.16	7	18	.60	62	.06	4	3.21	.01	.04	2	1
6+25N 2E	1	58	10	26	.6	15	6	631	4.76	5	2	ND	2	21	1	4	2	114	.16	.15	6	25	.33	29	.11	2	1.87	.01	.04	2	1
6+12N 2E	3	66	16	56	1.5	15	14	1484	6.71	10	2	ND	2	22	2	2	2	123	.17	.12	15	38	.47	88	.10	5	3.84	.01	.05	2	1
6N 2E	2	42	18	18	.3	8	3	279	3.12	9	2	ND	2	26	1	2	3	106	.15	.06	2	16	.08	35	.22	3	1.15	.01	.06	2	1
5+87.5N 2E	8	47	13	49	.3	12	10	755	3.55	14	2	ND	2	36	1	2	2	72	.85	.11	8	22	.32	58	.05	3	2.05	.01	.04	2	1
5+75N 2E	8	54	16	91	.2	14	12	1205	4.20	12	2	ND	2	24	2	2	2	86	.55	.12	10	27	.51	60	.06	5	2.40	.01	.05	2	5
5+62N 2E	15	81	18	158	.4	19	21	1326	4.88	23	2	ND	2	18	2	2	2	91	.25	.09	14	35	.90	37	.06	4	4.31	.01	.05	2	2
5+50N 2E	12	88	46	307	2.7	19	18	1056	4.44	22	4	ND	2	17	2	3	2	78	.23	.11	9	28	.57	57	.07	3	3.92	.01	.05	2	6
5+37.5N 2E	18	153	185	154	3.8	16	11	725	5.22	26	2	ND	2	16	1	2	2	59	.28	.12	8	18	.34	48	.06	4	2.35	.01	.05	2	5
5+25N 2E	49	229	413	285	7.5	18	48	1481	7.89	108	2	ND	2	17	2	3	2	58	.25	.09	17	16	.58	33	.06	5	3.17	.01	.05	2	18
5+12N 2E	35	167	214	199	5.7	16	20	887	6.35	102	2	ND	2	17	2	3	2	63	.26	.10	8	16	.55	40	.06	8	2.55	.01	.05	2	14
5N 2E	31	278	588	485	6.1	14	69	3259	6.84	163	2	ND	2	13	2	3	2	46	.14	.14	13	7	.43	61	.02	3	2.74	.01	.06	2	10
4+87.5N 2E	34	164	435	286	7.3	14	17	923	7.01	51	2	ND	2	17	2	2	2	65	.35	.12	6	12	.40	46	.03	5	2.54	.01	.05	2	15
4+75N 2E	11	77	222	139	3.2	10	29	1436	3.61	28	2	ND	2	23	1	3	2	49	.56	.18	2	13	.38	87	.02	3	1.46	.01	.07	2	10
4+62N 2E	17	100	295	292	6.7	14	24	1736	5.92	66	2	ND	2	26	3	2	2	89	.40	.18	10	21	.38	86	.05	3	2.00	.01	.06	2	5
4+50N 2E	18	89	264	342	3.1	15	21	1702	6.16	62	2	ND	2	26	5	2	2	79	.56	.16	11	21	.45	138	.04	5	2.37	.01	.07	2	4
4+37.5N 2E	2	30	6	17	.2	3	1	80	.52	2	2	ND	2	12	1	2	2	10	.19	.07	2	4	.03	28	.02	4	.39	.01	.02	2	1
4+25N 2E	7	56	59	68	1.2	7	5	399	3.48	18	2	ND	2	14	1	2	2	71	.17	.23	3	17	.14	38	.06	4	1.00	.01	.06	2	4
4+12N 2E	5	74	114	71	1.1	10	8	1190	4.60	18	2	ND	2	16	1	2	2	94	.14	.08	5	20	.16	46	.09	2	1.70	.01	.04	2	3
4N 2E	5	92	90	86	1.5	14	4	266	2.79	13	2	ND	2	22	2	5	2	71	.25	.05	2	18	.07	101	.10	2	.69	.01	.08	2	4
3+75N 2E	19	158	124	271	2.0	19	19	1255	5.59	43	2	ND	2	16	1	2	2	46	.24	.10	9	15	.61	36	.06	5	2.25	.01	.06	2	11
3+50N 2E	12	37	28	60	.4	11	5	320	3.12	12	2	ND	2	17	1	5	2	115	.20	.06	7	35	.14	27	.13	3	.99	.01	.04	2	1
3+25N 2E	7	38	57	131	1.5	9	14	1507	7.52	5	2	ND	2	17	4	2	2	79	.18	.14	9	13	.15	93	.08	4	1.90	.01	.05	2	3
3N 2E	7	56	26	277	.7	14	21	1143	5.08	10	2	ND	2	28	3	2	2	72	.68	.10	17	22	.47	78	.06	3	3.52	.01	.05	2	2
2+75N 2E	3	60	14	120	.3	24	15	858	4.35	9	2	ND	2	35	1	2	2	84	.85	.11	12	33	1.11	57	.11	4	2.92	.01	.08	2	1
2+50N 2E	2	68	8	83	.1	30	16	885	3.57	7	2	ND	2	45	1	3	2	74	1.20	.09	12	44	1.31	68	.12	4	2.49	.02	.06	2	1
2+25N 2E	2	27	15	127	.4	12	9	428	4.47	4	2	ND	2	22	1	2	2	107	.48	.05	9	25	.61	70	.11	3	3.16	.01	.04	2	1
1+25N 2E	1	105	4	88	.1	33	17	923	4.64	6	2	ND	2	76	1	2	3	115	1.43	.10	20	51	2.14	93	.28	3	3.48	.01	.07	2	2
1N 2E	1	66	1	76	.1	42	18	667	4.38	2	2	ND	2	42	1	2	2	105	.96	.07	18	59	2.08	86	.22	3	3.04	.01	.05	2	3
0+75N 2E	1	52	2	74	.1	39	16	707	3.95	8	2	ND	2	45	1	2	2	92	1.38	.06	14	54	2.05	81	.20	5	2.70	.01	.05	2	2
0+50N 2E	1	68	3	77	.1	39	17	826	4.13	3	2	ND	2	47	1	2	2	98	1.12	.08	19	60	2.08	88	.22	4	2.79	.01	.05	2	1
0N 2E	1	36	3	105	.1	42	18	1034	3.98	7	2	ND	2	48	1	2	2	83	1.17	.16	15	69	1.91	106	.18	3	2.70	.01	.07	2	4
7+50N 3E	2	66	21	74	.4	20	15	889	4.47	16	2	ND	2	28	1	2	2	82	.41	.12	9	35	1.23	35	.07	6	2.73	.01	.06	2	3
7+25N 3E	1	39	12	34	.2	14	6	271	3.38	8	2	ND	2	34	1	2	2	74	.36	.14	3	27	.52	25	.08	4	1.56	.01	.06	2	2
7N 3E	1	53	11	31	.3	19	7	333	4.12	7	2	ND	2	23	1	3	2	63	.28	.29	6	42	.55	42	.05	26	1.81	.01	.05	2	2
6+75N 3E	1	29	1	10	.2	3	1	52	.98	2	2	ND	2	8	1	3	2	16	.14	.10	2	8	.06	29	.03	27	.50	.01	.04	2	1
STD A-1/FA-AU	2	30	38	185	.3	35	12	969	2.69	11	2	ND	2	36	1	2	2	58	.61	.09	9	75	.70	276	.07	7	2.05	.02	.20	2	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
6+50N 3E	1	57	9	21	.1	19	3	195	3.27	2	2	ND	2	18	1	2	2	62	.17	.16	6	29	.28	21	.07	3	1.20	.01	.04	2	1
6+37N 3E	1	94	13	30	.4	18	4	428	2.87	2	2	ND	2	17	1	2	2	57	.17	.13	6	28	.16	42	.05	3	1.41	.01	.03	2	1
6+25N 3E	1	85	18	34	.1	19	8	1305	5.52	3	2	ND	2	13	1	2	2	111	.12	.15	12	43	.27	25	.12	4	1.94	.01	.02	2	1
6+12.5N 3E	1	53	8	21	.2	12	5	280	3.78	6	4	ND	2	15	1	2	2	71	.16	.29	6	58	.30	25	.06	3	1.33	.01	.04	2	3
6N 3E	2	68	11	32	.4	12	5	438	4.82	4	2	ND	2	16	1	2	2	83	.14	.17	6	32	.41	28	.06	3	1.98	.01	.03	2	1
5+87N 3E	1	63	17	30	.4	14	5	302	4.07	2	5	ND	2	13	1	2	2	81	.13	.16	3	28	.35	26	.06	4	1.44	.01	.04	2	1
5+75N 3E	3	43	18	29	.2	8	5	328	4.37	10	6	ND	2	14	1	2	2	82	.15	.44	3	29	.29	25	.05	4	1.16	.01	.06	2	1
5+62.5N 3E	7	61	39	116	.9	12	13	1395	4.50	15	2	ND	2	39	1	2	2	75	1.59	.13	11	27	.43	54	.05	4	2.23	.01	.03	2	2
5+50N 3E	5	50	30	44	1.6	12	5	400	5.24	4	6	ND	2	13	1	2	2	101	.13	.10	4	25	.28	26	.10	4	1.84	.01	.03	2	3
5+37N 3E	29	102	410	171	6.7	13	11	1355	6.76	23	2	ND	2	14	1	2	2	87	.12	.13	5	18	.18	52	.10	4	1.57	.01	.04	2	8
5+25N 3E	12	85	212	428	2.3	14	41	5351	6.06	117	2	ND	2	21	1	2	2	80	.33	.19	10	27	.34	159	.04	7	1.88	.01	.07	2	4
5+12.5N 3E	53	225	1066	807	8.3	22	29	1644	6.82	90	2	ND	2	19	1	5	2	47	.45	.16	9	17	.53	62	.04	3	2.56	.01	.08	2	12
5N 3E	56	245	377	162	4.2	4	5	441	8.08	47	2	ND	2	9	1	4	2	46	.11	.11	4	5	.08	196	.11	4	1.36	.01	.07	2	13
4+87N 3E	3	76	59	64	1.3	4	2	266	9.70	40	2	ND	2	15	1	9	2	33	.19	.27	9	5	.15	165	.09	6	.91	.01	.16	2	20
4+75N 3E	4	155	60	50	1.8	5	3	337	7.93	13	2	ND	2	14	1	7	2	40	.12	.35	5	5	.09	95	.04	4	1.36	.01	.07	2	13
4+62.5N 3E	7	47	57	75	1.1	9	5	337	3.31	11	4	ND	2	20	1	2	2	66	.45	.11	5	16	.27	69	.05	3	1.57	.01	.03	2	1
4+50N 3E	6	63	163	186	1.7	7	9	1150	6.89	19	2	ND	2	13	1	4	2	60	.12	.14	9	16	.24	144	.07	4	2.26	.01	.06	2	5
4+37N 3E	5	73	173	136	.4	7	12	3775	3.76	7	2	ND	2	23	1	2	2	69	.38	.10	3	13	.06	159	.10	3	.72	.01	.07	2	16
4+25N 3E	15	95	131	238	1.8	19	12	1235	6.08	35	2	ND	2	21	1	2	2	78	.43	.14	11	17	.26	56	.08	4	1.69	.01	.06	2	5
4+12.5N 3E	17	142	159	878	1.6	35	18	1462	5.65	52	2	ND	2	30	2	2	2	70	.87	.14	14	17	.59	58	.04	7	2.08	.01	.06	2	6
4N 3E	14	89	53	80	1.6	20	4	259	3.52	12	4	ND	2	11	1	2	2	73	.12	.08	4	18	.08	26	.10	3	.99	.01	.03	2	3
3+75N 3E	4	47	38	50	1.2	12	4	175	4.30	4	8	ND	2	13	1	2	2	108	.10	.09	2	15	.13	66	.10	3	1.55	.01	.03	2	1
3+50N 3E	1	29	27	94	.7	7	4	300	5.06	2	3	ND	2	13	1	2	2	85	.12	.11	9	20	.25	66	.09	5	4.57	.01	.02	2	1
3+25N 3E	3	46	22	140	.4	14	9	915	3.56	2	2	ND	2	28	1	2	2	61	.52	.14	7	19	.49	76	.06	4	1.95	.01	.06	2	3
3N 3E	1	128	12	109	.2	29	14	920	3.27	6	7	ND	2	55	1	2	2	55	1.72	.14	11	37	1.18	75	.04	5	2.10	.01	.06	2	2
2+75N 3E	1	36	3	91	.1	42	16	620	4.11	2	6	ND	2	49	1	2	3	85	.97	.15	14	59	1.80	38	.20	5	2.59	.01	.04	2	1
2+50N 3E	1	35	6	78	.1	42	16	598	4.25	2	2	ND	2	44	1	2	2	84	1.08	.11	14	59	1.66	33	.19	3	2.37	.01	.06	2	1
2+25N 3E	1	62	5	78	.1	42	16	720	4.15	2	4	ND	2	47	1	2	2	84	.92	.12	13	60	1.81	40	.17	5	2.91	.01	.04	2	1
2N 3E	1	52	3	75	.1	45	16	704	3.90	2	2	ND	2	64	1	2	2	80	1.25	.12	16	64	1.96	82	.21	4	2.72	.01	.07	2	1
1+25N 3E	1	103	3	78	.1	40	15	680	3.97	2	8	ND	2	73	1	2	3	90	1.30	.13	19	62	1.96	39	.25	10	3.00	.01	.03	2	1
1N 3E	1	75	8	90	.1	34	16	736	4.75	2	2	ND	2	34	1	2	2	86	.76	.11	18	42	1.89	98	.16	4	3.12	.01	.04	2	4
0+75N 3E	1	58	3	85	.1	44	17	1097	4.40	2	2	ND	2	41	1	2	2	92	.93	.13	17	57	2.13	80	.22	5	2.80	.01	.04	2	19
0+50N 3E	1	58	4	68	.1	38	15	595	4.00	2	2	ND	2	32	1	2	2	86	.84	.09	14	56	1.87	50	.22	5	2.50	.01	.03	2	3
0+25N 3E	1	39	5	69	.1	39	14	645	3.88	2	2	ND	2	32	1	2	2	81	1.05	.13	14	61	1.76	51	.22	6	2.49	.01	.03	2	16
0N 3E	1	46	2	70	.1	38	15	667	4.03	2	2	ND	2	39	1	2	2	86	1.14	.11	13	60	1.82	50	.23	6	2.58	.02	.03	2	2
7+50N 4E	1	63	10	44	.4	16	12	1149	3.69	5	2	ND	2	23	1	2	2	61	.32	.28	7	32	.64	44	.04	5	2.02	.01	.06	2	1
7+25N 4E	1	35	4	14	.2	4	1	51	1.28	2	2	ND	2	13	1	2	2	14	.17	.12	7	10	.07	36	.03	3	.64	.01	.04	2	1
STD A-1/FA-AU	1	31	39	188	.3	36	10	957	2.74	10	2	ND	2	35	1	2	2	56	.58	.10	8	72	.68	275	.08	7	2.00	.02	.20	2	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
7N 4E	2	59	16	64	.2	19	16	913	3.88	16	2	ND	2	30	1	2	2	69	.51	.09	15	25	1.12	54	.07	4	2.18	.01	.06	2	2
6+75N 4E	1	24	4	9	.1	3	1	19	.54	2	2	ND	2	7	1	2	2	10	.09	.07	2	6	.02	15	.03	2	.35	.01	.01	2	1
6+50N 4E	5	94	12	30	.6	15	7	732	6.78	6	4	ND	2	12	2	2	2	142	.11	.11	19	50	.38	25	.09	5	3.90	.01	.03	2	1
6+37.5N 4E	6	39	6	15	.1	5	3	127	2.52	7	2	ND	2	11	1	2	2	53	.14	.20	4	19	.08	20	.08	5	.67	.01	.04	2	1
6+25.5N 4E	2	40	6	13	.3	5	2	94	2.22	3	7	ND	2	9	1	2	2	36	.08	.13	5	18	.07	22	.04	4	.86	.01	.03	2	1
6+12N 4E	7	60	13	48	.2	25	11	782	5.08	19	3	ND	2	14	1	2	2	107	.14	.13	12	35	.59	29	.10	4	1.98	.01	.04	2	2
6N 4E	4	51	10	30	.5	19	7	345	4.27	9	2	ND	2	14	1	2	2	88	.14	.15	9	34	.50	24	.07	4	1.53	.01	.04	2	29
5+87.5N 4E	2	27	5	9	.4	3	1	44	.93	2	2	ND	2	7	1	2	2	20	.08	.07	2	6	.02	13	.05	2	.34	.01	.04	2	1
5+75N 4E	10	170	114	133	2.7	17	21	1494	6.23	62	2	ND	2	11	1	2	2	69	.11	.09	18	19	.40	35	.10	5	3.31	.01	.05	2	2
5+62N 4E	8	72	42	59	1.6	11	9	767	5.24	23	2	ND	2	7	1	2	2	57	.06	.11	12	21	.13	31	.08	4	2.50	.01	.03	2	1
5+50N 4E	9	77	39	63	1.5	15	7	833	5.47	14	2	ND	2	17	1	2	2	82	.08	.09	12	21	.33	42	.12	4	2.39	.01	.04	2	1
5+37.5N 4E	6	53	114	82	5.1	9	5	377	4.21	25	2	ND	2	10	1	2	2	32	.11	.16	10	10	.08	87	.03	4	3.04	.01	.04	2	1
5+25N 4E	11	52	188	150	8.6	10	16	2361	4.74	40	2	ND	2	12	1	2	2	45	.11	.12	7	7	.15	66	.06	4	2.16	.01	.05	2	3
5+12N 4E	10	62	177	172	3.3	16	14	1813	5.88	31	2	ND	2	10	1	2	2	75	.11	.12	16	20	.30	46	.09	4	2.69	.01	.05	2	2
5N 4E	17	78	276	305	5.5	16	22	1575	5.88	27	2	ND	2	15	2	2	2	63	.23	.12	15	16	.37	69	.07	5	2.93	.01	.05	2	4
4+87.5N 4E	23	87	666	202	8.1	11	9	714	5.54	28	2	ND	2	12	1	4	2	59	.10	.09	8	9	.21	158	.06	4	2.04	.01	.05	2	14
4+75N 4E	9	37	163	127	3.2	7	4	264	2.49	17	2	ND	2	15	1	2	2	49	.25	.05	3	6	.10	105	.04	3	1.09	.01	.06	2	4
4+62N 4E	15	108	758	651	6.7	15	12	651	7.51	53	2	ND	2	12	1	2	2	40	.14	.13	14	13	.23	141	.05	5	3.37	.01	.06	2	8
4+50N 4E	8	166	422	340	3.0	12	12	640	4.46	28	2	ND	2	14	1	2	2	52	.19	.10	10	12	.35	68	.05	4	2.50	.01	.05	2	13
4+37.5N 4E	21	199	156	369	2.8	27	20	1207	6.56	52	2	ND	2	16	2	2	2	50	.21	.11	21	18	.60	53	.05	5	2.67	.01	.06	2	7
4+25N 4E	2	131	21	116	.4	29	20	941	4.80	9	3	ND	2	28	1	2	2	89	.26	.04	18	32	1.46	156	.10	4	4.54	.01	.10	2	5
4+12N 4E	2	33	27	111	1.9	9	6	443	4.37	8	2	ND	2	12	1	2	2	66	.13	.08	11	16	.22	52	.09	4	3.14	.01	.04	2	2
4N 4E	3	62	28	48	1.7	8	4	252	4.82	4	4	ND	2	11	1	2	2	88	.10	.06	7	13	.06	61	.06	4	2.61	.01	.03	2	3
3+75N 4E	2	43	25	40	1.5	8	5	510	4.79	7	2	ND	2	16	1	2	2	94	.21	.15	8	11	.16	63	.08	4	2.23	.01	.05	2	1
3+50N 4E	2	59	20	130	.4	20	11	828	3.73	9	2	ND	2	18	1	2	2	78	.26	.10	9	29	.62	47	.10	4	2.65	.01	.04	2	2
3+25N 4E	2	69	12	139	.2	36	17	931	4.18	12	2	ND	2	38	1	2	2	81	.93	.10	17	40	1.41	77	.15	5	3.00	.01	.06	2	2
2+50N 4E	1	70	3	84	.1	48	18	669	4.22	2	2	ND	2	68	1	2	2	90	1.05	.11	21	68	2.07	90	.22	6	3.10	.01	.06	2	3
1+25N 4E	1	74	4	68	.1	36	15	615	4.09	5	2	ND	2	39	1	2	2	83	.93	.10	13	40	1.59	115	.22	4	2.61	.01	.05	2	1
1N 4E	1	67	7	80	.1	49	19	1041	4.47	9	2	ND	2	40	1	2	2	89	.93	.10	18	67	2.09	104	.22	4	3.02	.01	.06	2	1
0+75N 4E	1	58	1	76	.1	50	19	759	4.42	4	2	ND	2	40	1	2	2	88	1.07	.14	18	66	2.11	69	.23	4	2.90	.01	.05	2	1
0+50N 4E	1	62	1	76	.1	47	17	752	4.38	2	2	ND	2	39	1	2	2	90	1.03	.13	19	63	1.99	83	.24	5	2.75	.01	.05	2	2
0+25N 4E	1	55	1	86	.1	51	19	963	4.50	3	2	ND	2	41	1	2	2	93	1.09	.11	18	67	2.14	97	.24	6	2.95	.01	.05	2	1
7+50N 5E	1	105	15	83	.1	27	21	1140	4.60	11	2	ND	2	45	1	2	2	81	.71	.09	12	30	1.57	68	.12	4	2.91	.01	.09	2	2
7+25N 5E	4	60	9	31	.4	18	5	219	4.42	8	2	ND	2	13	1	2	2	65	.16	.18	4	29	.28	25	.05	4	1.66	.01	.05	2	1
7N 5E	1	83	9	38	.3	20	9	648	4.75	4	3	ND	2	17	1	2	2	86	.18	.15	7	32	.63	24	.05	4	2.29	.01	.05	2	1
6+75N 5E	1	77	10	30	.2	16	7	576	5.91	2	4	ND	2	17	1	2	2	109	.15	.13	12	42	.40	34	.10	4	2.93	.01	.04	2	1
6+50N 5E	1	57	3	10	.2	7	2	49	1.80	2	2	ND	2	14	1	2	2	31	.21	.10	2	34	.09	14	.09	3	.85	.01	.02	2	1
STD A-1/FA-AU	1	30	38	186	.3	37	12	971	2.80	11	2	ND	2	35	1	2	2	59	.59	.10	9	75	.69	279	.09	7	2.03	.02	.21	2	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
6+37N 5E	8	77	12	56	.6	24	15	1146	4.81	17	2	ND	2	13	1	2	2	84	.16	.10	14	36	.69	77	.09	3	3.21	.01	.05	2	3
6+25N 5E	9	66	12	60	.5	16	14	871	4.23	14	2	ND	2	34	1	2	2	88	1.14	.10	9	32	.52	54	.06	4	2.46	.01	.04	2	1
6+12.5N 5E	9	55	8	34	.4	20	7	328	4.20	11	2	ND	2	15	1	3	2	86	.20	.09	3	36	.38	22	.09	3	1.97	.01	.04	2	1
6N 5E	12	38	13	76	.3	9	8	505	3.15	11	2	ND	2	28	2	2	2	76	1.01	.07	2	20	.18	33	.08	4	1.04	.01	.04	2	1
5+87N 5E	12	55	20	59	.7	15	7	726	5.72	18	3	ND	2	11	1	3	2	129	.16	.22	3	29	.38	14	.10	5	1.45	.01	.04	2	1
5+75N 5E	10	40	15	32	.6	12	3	166	2.98	12	4	ND	2	11	1	4	2	59	.14	.10	2	19	.15	26	.07	3	1.15	.01	.05	2	1
5+62.5N 5E	7	83	23	40	3.7	13	2	86	1.15	2	3	ND	2	13	1	3	2	18	.22	.13	4	4	.03	45	.02	3	.86	.01	.04	2	1
5+50N 5E	5	65	16	47	.7	16	5	350	4.04	12	6	ND	2	12	1	2	2	88	.13	.22	3	18	.21	25	.08	3	1.37	.01	.05	2	1
5+37N 5E	6	36	20	43	.4	13	4	337	3.69	10	5	ND	2	14	1	4	2	104	.15	.09	3	19	.21	25	.15	3	1.13	.01	.04	2	1
5+25N 5E	3	31	10	15	.2	4	2	98	1.78	5	3	ND	2	9	1	3	2	44	.13	.10	2	11	.03	26	.08	5	.52	.01	.04	2	1
5+12.5N 5E	9	40	66	112	2.2	14	6	397	4.94	16	4	ND	2	9	1	3	2	70	.11	.10	4	21	.29	22	.10	3	2.79	.01	.02	2	5
5N 5E	30	93	123	178	2.1	17	18	1585	8.21	49	2	ND	2	8	1	3	2	35	.11	.16	5	9	.35	29	.07	6	1.81	.01	.05	2	7
4+87N 5E	43	110	126	206	3.7	18	18	987	9.27	32	2	ND	2	5	1	2	2	30	.13	.13	13	10	.33	24	.08	6	1.83	.01	.05	2	16
4+75N 5E	39	139	108	236	2.2	20	27	1413	9.58	119	2	ND	2	12	1	3	2	29	.20	.16	7	7	.42	35	.06	8	1.73	.01	.06	2	21
4+62.5N 5E	6	103	95	74	5.5	18	6	238	3.75	17	5	ND	2	11	2	4	2	68	.10	.07	2	19	.30	83	.07	4	2.09	.01	.04	2	7
4+50N 5E	14	42	120	207	4.0	16	7	454	5.82	22	2	ND	2	12	2	2	2	55	.14	.10	10	13	.19	103	.07	4	4.23	.01	.05	2	8
4+37.5N 5E	13	71	706	383	5.4	20	15	904	7.39	63	2	ND	2	10	3	3	2	50	.09	.19	12	16	.30	162	.05	5	3.76	.01	.04	2	12
4+12.5N 5E	2	17	21	51	1.1	6	2	94	.88	2	2	ND	2	18	1	4	2	21	.40	.08	2	3	.06	91	.03	3	.42	.01	.07	2	1
4N 5E	6	41	83	178	1.6	13	6	384	3.69	107	3	ND	2	21	2	3	2	92	.39	.06	5	14	.20	131	.07	3	1.77	.01	.05	2	1
3+75N 5E	2	28	23	138	.6	14	8	832	4.20	6	2	ND	2	13	1	2	2	74	.15	.11	4	17	.41	48	.09	5	3.04	.01	.04	2	1
3+50N 5E	1	48	5	66	.1	39	14	606	3.56	4	2	ND	2	35	1	2	2	70	.67	.09	13	62	1.43	40	.14	4	2.55	.01	.04	2	2
3+25N 5E	1	52	7	74	.1	45	19	716	4.32	7	2	ND	2	45	1	2	2	85	.95	.11	17	61	1.91	59	.18	4	2.75	.01	.05	2	1
3N 5E	1	43	9	78	.1	45	18	685	3.92	9	2	ND	2	71	1	2	2	89	1.24	.12	18	70	2.11	47	.24	4	2.69	.01	.05	2	1
2+75N 5E	1	51	8	77	.1	39	17	971	3.77	5	2	ND	2	76	1	2	2	73	1.51	.15	15	58	1.74	93	.15	6	2.56	.01	.07	2	2
1+75N 5E	1	57	4	75	.1	35	16	565	4.11	8	2	ND	2	34	1	2	2	81	.84	.11	12	42	1.57	64	.20	4	2.57	.01	.04	2	1
1+50N 5E	1	38	4	73	.1	32	16	728	3.88	5	2	ND	2	32	1	2	2	76	.86	.10	11	35	1.47	69	.20	4	2.32	.01	.06	2	3
1+25N 5E	1	42	5	69	.1	32	16	577	4.01	7	2	ND	2	31	1	2	2	74	.84	.15	13	41	1.44	78	.19	4	2.35	.01	.05	2	1
1N 5E	1	61	9	77	.1	37	17	642	4.25	6	2	ND	2	34	1	2	2	78	.88	.12	13	41	1.67	79	.20	4	2.63	.01	.05	2	2
0+75N 5E	1	34	9	84	.1	32	15	520	3.81	9	2	ND	2	31	1	2	2	78	.81	.07	9	41	1.42	70	.20	4	2.12	.01	.06	2	1
0+50N 5E	1	74	6	73	.1	36	17	714	4.19	13	2	ND	2	36	1	2	2	77	1.00	.11	18	43	1.75	77	.19	5	2.65	.01	.05	2	1
0+25N 5E	2	45	7	97	.1	38	18	856	4.19	14	2	ND	2	40	1	2	2	82	1.02	.10	14	46	1.68	63	.19	6	2.40	.01	.06	2	3
0N 5E	1	55	3	81	.1	41	18	745	4.15	9	3	ND	2	36	1	2	2	74	1.17	.12	15	51	1.83	48	.16	5	2.43	.02	.06	2	14
4+75N	22	423	726	669	3.3	26	37	1725	7.64	76	2	ND	2	16	8	7	2	66	.28	.15	15	21	.42	50	.03	7	2.28	.01	.05	2	17
A	12	36	66	132	2.8	12	6	372	5.77	30	2	ND	2	18	2	2	2	87	.15	.08	7	11	.16	266	.05	4	2.91	.01	.02	2	6
STD A-1/FA-AU	2	29	40	189	.3	36	11	964	2.77	10	2	ND	2	35	1	2	2	58	.61	.09	8	75	.70	281	.08	7	2.02	.02	.21	2	51

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
7+50N 4W	13	105	185	78	1.3	6	2	201	4.62	25	2	ND	2	31	2	2	2	79	.28	.07	5	15	.25	91	.10	11	2.36	.01	.01	2	16
7+25N 4W	6	124	163	137	1.6	6	4	686	2.00	10	2	ND	2	48	2	2	2	40	.69	.19	5	9	.16	194	.06	10	1.47	.01	.03	2	13
7+00N 4W	6	39	75	81	1.2	7	3	332	4.10	16	2	ND	2	26	2	2	2	93	.22	.24	5	15	.22	127	.10	9	2.34	.01	.01	3	5
6+75N 4W	9	49	77	69	1.8	6	3	200	4.48	15	2	ND	2	28	1	2	2	93	.21	.13	3	14	.20	110	.11	11	1.75	.01	.01	2	3
6+50N 4W	16	92	82	320	.6	11	10	955	5.52	11	2	ND	2	48	2	2	2	116	.35	.10	2	20	.61	100	.13	8	2.87	.01	.02	2	2
6+25N 4W	7	87	46	1227	.8	9	6	783	4.44	7	2	ND	2	41	8	2	2	87	1.21	.10	2	14	.38	125	.14	12	2.62	.01	.01	2	2
6+00N 4W	2	42	55	165	.6	8	4	419	5.54	11	2	ND	2	24	2	2	2	95	.32	.11	2	20	.39	53	.16	10	2.91	.01	.01	3	1
5+75N 4W	2	17	21	39	.1	3	2	178	2.32	4	2	ND	2	26	1	2	2	83	.28	.04	6	14	.08	22	.11	9	.99	.01	.01	2	1
5+50N 4W	1	42	37	160	.5	11	6	482	4.84	8	2	ND	2	20	2	2	2	81	.25	.18	2	19	.38	51	.16	11	4.15	.01	.01	2	3
5+25N 4W	3	36	44	76	.8	5	3	300	7.21	11	2	ND	2	18	1	2	2	122	.17	.14	2	17	.21	60	.18	7	3.21	.01	.01	2	5
5+00N 4W	1	43	36	147	.4	11	6	366	5.11	6	2	ND	3	22	1	2	2	90	.25	.09	2	23	.39	58	.20	11	4.10	.01	.01	2	3
4+75N 4W	1	29	37	73	.6	6	7	311	5.16	3	2	ND	2	27	2	2	2	134	.22	.06	5	20	.22	79	.23	10	2.26	.01	.01	2	2
4+50N 4W	3	22	34	68	.3	4	2	214	4.56	7	2	ND	2	28	2	2	2	132	.22	.04	6	17	.17	67	.24	11	1.74	.01	.01	2	1
4+25N 4W	2	29	57	161	.2	6	3	317	4.44	5	2	ND	2	31	2	2	2	110	.24	.04	4	23	.16	69	.19	11	3.31	.01	.01	4	2
4+00N 4W	4	52	51	121	.2	7	3	226	7.54	9	2	ND	4	19	1	2	4	137	.16	.08	2	25	.29	47	.23	8	4.88	.01	.01	3	1
5+50N 2+50E	16	81	46	44	.7	18	4	456	6.06	13	2	ND	2	18	1	2	2	123	.17	.14	2	27	.17	24	.17	10	2.03	.01	.01	2	3
5+25N 2+50E	40	132	940	230	7.6	14	20	1664	9.33	93	2	ND	2	14	1	2	2	79	.19	.25	2	11	.33	83	.07	4	1.68	.01	.01	2	6
4+87.5N 2+50E	10	199	167	111	4.2	4	2	548	12.68	53	2	ND	3	15	1	2	2	46	.15	.32	2	6	.13	172	.10	4	1.00	.01	.02	2	21
4+75N 2+50E	6	99	79	28	1.9	3	1	201	14.42	144	3	ND	5	22	1	2	2	29	.09	.49	2	6	.10	109	.12	9	.15	.01	.01	4	18
4+62.5N 2+50E	8	48	46	67	.9	7	4	1019	7.19	20	2	ND	2	24	1	2	2	96	.16	.18	2	12	.16	98	.12	8	1.60	.01	.02	2	2
4+50N 2+50E	7	138	86	58	3.0	31	5	324	5.26	16	2	ND	2	25	3	2	2	113	.23	.11	8	24	.16	82	.17	9	1.43	.01	.01	2	4
4+37.5N 2+50E	28	95	189	561	1.3	12	41	2560	8.43	35	2	ND	2	29	2	2	2	80	.52	.19	2	14	.28	59	.10	7	1.93	.01	.01	2	2
4+25N 2+50E	9	80	109	171	1.1	11	13	3216	4.71	12	3	ND	2	36	3	2	2	86	.74	.15	3	20	.16	97	.10	12	1.46	.01	.01	3	1
4+12.5N 2+50E	10	89	175	159	1.3	12	6	825	5.72	24	2	ND	2	21	2	2	2	68	.42	.18	2	13	.24	41	.07	10	1.55	.01	.01	3	2
4+00N 2+50E	16	103	86	87	1.2	13	13	2535	8.14	16	3	ND	2	25	1	2	2	135	.22	.20	2	34	.30	35	.17	4	2.21	.01	.02	2	3
3+75N 2+50E	10	113	83	107	2.1	21	9	858	5.50	18	2	ND	2	24	2	2	2	73	.22	.15	4	17	.27	48	.10	11	1.58	.01	.01	3	5
3+50N 2+50E	1	37	24	136	.4	12	6	524	4.19	6	2	ND	2	25	3	2	2	80	.41	.13	2	16	.54	70	.13	12	3.07	.01	.01	3	4
7+50N 6E	1	75	9	77	.2	20	14	1178	3.89	8	2	ND	2	61	2	2	2	76	.98	.18	2	23	1.15	80	.12	13	2.51	.01	.03	2	3
7+25N 6E	3	50	36	77	.5	9	5	467	3.90	5	2	ND	2	26	2	2	2	74	.33	.15	5	18	.32	58	.14	11	1.99	.01	.01	2	2
7+00N 6E	1	83	7	21	.4	17	4	283	4.34	4	2	ND	2	24	1	2	2	80	.24	.27	6	31	.32	22	.10	14	1.70	.01	.01	2	21
6+75N 6E	1	61	5	19	.3	11	3	167	3.46	5	2	ND	2	17	1	2	2	52	.23	.27	6	23	.25	27	.06	13	1.34	.01	.01	2	2
6+50N 6E	2	81	5	40	.3	25	8	530	4.38	7	2	ND	2	26	1	2	2	72	.32	.40	3	30	.65	43	.08	14	2.21	.01	.02	2	16
6+25N 6E	4	72	8	81	.3	16	10	897	3.60	13	2	ND	2	47	2	2	2	72	1.39	.22	2	26	.65	63	.09	13	1.98	.01	.01	2	5
6+00N 6E	8	59	20	32	.8	10	4	448	5.38	4	2	ND	2	27	2	2	2	140	.31	.12	4	18	.26	26	.16	12	1.98	.01	.01	2	13
5+75N 6E	16	49	17	101	.5	15	10	2187	4.08	11	3	ND	2	41	3	2	2	104	.71	.14	2	22	.59	121	.09	11	2.57	.01	.02	2	2
5+50N 6E	11	46	14	64	.4	15	7	1091	6.78	2	2	ND	2	20	1	2	2	151	.21	.08	2	24	.35	18	.31	10	2.00	.01	.01	2	5
5+25N 6E	4	32	2	14	.5	5	1	34	.50	2	2	ND	2	12	1	2	2	7	.28	.09	6	1	.04	28	.03	4	.27	.01	.01	2	16
STD A-1/FA-AU	1	30	38	182	.4	35	13	1027	2.74	9	2	ND	2	36	2	2	2	55	.61	.10	7	63	.62	250	.10	7	2.01	.01	.19	2	51

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
5+00N 6E	61	138	768	222	1.9	36	23	3528	8.89	176	4	ND	2	41	2	2	2	41	.44	.15	2	9	.65	47	.05	8	1.68	.01	.02	2	7
4+75N 6E	5	48	29	109	2.6	13	4	233	5.26	30	2	ND	2	25	2	2	2	97	.22	.08	2	22	.36	80	.12	12	3.69	.01	.01	2	3
4+50N 6E	11	64	223	109	2.6	12	3	36	3.42	17	2	ND	2	20	5	2	2	81	.12	.05	8	14	.04	111	.08	9	.95	.01	.01	2	9
4+25N 6E	5	53	34	188	.9	18	15	1962	6.57	16	2	ND	2	19	2	2	2	84	.26	.20	2	22	.27	78	.08	11	4.48	.01	.01	2	1
4+00N 6E	1	32	24	101	.9	10	6	731	4.07	2	2	ND	2	30	4	2	2	109	.33	.08	5	19	.16	92	.16	12	1.28	.01	.02	2	1
3+75N 6E	2	33	11	124	1.0	10	11	1112	7.40	2	2	ND	2	21	1	2	3	121	.23	.11	2	19	.48	55	.20	8	2.79	.01	.01	2	2
3+50N 6E	1	52	4	73	.7	33	13	757	4.22	2	2	ND	2	59	1	2	2	92	.93	.12	2	39	1.36	44	.25	11	2.63	.01	.01	2	3
3+25N 6E	1	49	1	74	.5	42	16	1042	4.41	2	2	ND	2	79	1	2	2	100	1.31	.16	2	50	1.90	63	.32	11	2.82	.01	.01	2	1
3+00N 6E	1	61	1	71	.4	46	15	709	4.35	2	2	ND	2	90	1	2	2	98	1.34	.22	2	58	1.94	50	.31	12	2.92	.01	.01	2	3
2+25N 6E	1	67	5	71	.5	37	14	834	4.41	2	2	ND	2	53	1	2	2	96	1.10	.17	2	44	1.57	59	.29	13	2.69	.01	.01	2	2
2+00N 6E	1	34	5	66	.5	27	13	1713	4.13	2	2	ND	2	42	1	2	2	88	.96	.16	2	34	1.20	84	.26	12	2.19	.01	.01	2	1
1+75N 6E	1	50	1	69	.4	34	13	643	4.50	2	2	ND	2	41	1	2	2	88	1.07	.25	2	36	1.43	50	.26	12	2.46	.01	.01	2	1
1+50N 6E	1	43	3	68	.4	32	13	550	4.81	2	2	ND	2	41	1	2	2	97	.94	.20	2	38	1.35	57	.29	12	2.37	.01	.01	2	3
1+25N 6E	1	70	1	70	.4	48	16	864	4.80	2	2	ND	2	52	1	2	2	100	1.30	.19	2	57	1.99	59	.30	13	2.96	.01	.01	2	2
7+50N 7E P	1	48	1	64	.4	21	9	769	4.91	2	2	ND	2	21	1	2	2	115	.43	.14	2	48	1.98	61	.23	13	2.63	.01	.03	2	1
7+25N 7E P	1	40	4	19	.3	5	2	120	1.98	2	2	ND	2	18	1	2	2	31	.23	.22	6	18	.16	37	.06	8	.72	.01	.02	2	1
7+00N 7E P	1	39	6	48	.1	7	9	877	4.35	11	2	ND	2	33	1	2	2	67	.54	.12	2	10	1.78	33	.10	12	2.57	.02	.02	2	1
6+75N 7E P	2	54	5	75	.2	16	11	946	3.67	9	2	ND	2	49	1	2	2	75	.51	.12	3	26	1.21	39	.10	13	2.24	.01	.02	2	1
6+50N 7E P	3	43	10	60	.3	14	7	661	3.70	14	2	ND	2	18	1	2	2	74	.25	.23	4	24	.81	39	.08	11	1.70	.01	.02	2	1
6+25N 7E P	3	35	9	50	.6	6	2	310	2.11	8	2	ND	2	16	1	2	2	37	.23	.23	9	9	.15	53	.08	10	.63	.01	.02	2	1
6+00N 7E P	4	29	4	52	.4	6	1	139	2.14	4	2	ND	2	18	1	2	2	55	.26	.11	8	9	.09	55	.17	10	.59	.01	.03	2	1
5+75N 7E P	1	37	3	26	.3	5	1	102	1.14	2	2	ND	2	23	1	2	2	27	.26	.09	8	9	.06	91	.08	8	.36	.01	.02	2	1
5+50N 7E P	2	36	3	25	.2	9	2	168	2.29	2	2	ND	2	18	1	2	2	38	.31	.24	7	22	.32	35	.08	10	.84	.01	.01	2	2
5+25N 7E P	5	38	3	18	.2	4	1	69	1.95	2	2	ND	2	28	2	2	2	31	1.10	.16	6	16	.09	23	.07	9	.84	.01	.01	2	3
5+00N 7E P	4	40	17	57	1.0	17	5	585	4.88	5	2	ND	2	30	1	2	2	100	.37	.06	2	22	.80	73	.18	12	2.01	.01	.01	2	41
4+75N 7E P	4	34	12	54	.4	14	3	293	2.74	9	2	ND	2	26	2	2	2	93	.22	.07	5	16	.21	71	.12	11	.99	.01	.01	2	2
4+50N 7E P	3	59	14	143	.4	19	12	2201	3.99	5	2	ND	2	41	2	2	2	81	.86	.11	2	23	1.07	154	.10	10	2.88	.01	.02	2	1
4+25N 7E P	3	27	13	113	.4	21	9	1923	3.78	13	3	ND	2	29	1	2	2	86	.42	.08	2	29	.99	61	.14	12	1.98	.01	.01	2	3
4+00N 7E P	4	77	23	141	.6	23	12	1626	4.85	11	3	ND	2	26	2	2	2	97	.35	.10	2	24	.87	121	.09	10	3.08	.01	.03	2	4
3+75N 7E P	2	47	1	79	.3	46	16	715	4.05	2	2	ND	2	56	1	2	2	85	1.48	.21	2	64	2.05	22	.28	11	2.70	.01	.01	2	1
3+50N 7E P	2	42	1	65	.3	37	14	613	4.06	5	2	ND	2	46	1	2	2	93	1.16	.17	2	44	1.66	45	.28	11	2.43	.01	.01	2	1
7+50N 8E P	3	72	11	57	1.1	13	8	837	6.71	8	2	ND	2	21	1	2	2	117	.23	.15	2	18	.48	33	.12	8	3.00	.01	.01	2	1
7+25N 8E P	3	51	6	69	.2	25	13	955	3.96	7	2	ND	2	27	1	2	2	78	.49	.10	2	34	1.35	45	.13	11	2.27	.01	.02	2	6
7+00N 8E P	3	27	6	43	.5	14	6	505	2.43	11	2	ND	2	17	1	2	2	57	.22	.10	7	21	.55	50	.09	8	1.16	.01	.02	2	1
6+75N 8E P	2	45	9	55	.4	19	8	645	3.68	6	2	ND	2	19	1	2	2	71	.32	.26	3	24	1.04	35	.11	11	1.82	.01	.02	2	4
6+50N 8E	2	50	3	40	.5	22	7	421	3.56	2	2	ND	2	22	1	2	2	77	.32	.16	3	29	.79	49	.18	12	1.66	.01	.02	2	1
6+25N 8E P	1	39	5	17	.2	4	1	70	1.30	2	2	ND	2	12	1	2	2	25	.13	.10	5	8	.06	31	.06	8	.49	.01	.01	2	1
STD A-1/FA-AU	1	30	38	184	.3	36	13	1038	2.77	9	2	ND	2	37	2	2	2	56	.61	.10	7	63	.62	253	.10	7	2.04	.01	.19	2	51

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
6+00N 8E P	2	57	6	19	.3	14	3	85	1.93	2	2	ND	2	18	1	2	2	49	.17	.14	7	20	.20	44	.10	9	.58	.01	.01	2	1
5+75N 8E P	1	32	5	19	.3	5	1	82	1.38	2	2	ND	2	10	1	2	2	24	.14	.12	7	13	.07	13	.06	9	.48	.01	.01	2	1
5+50N 8E P	2	25	1	14	.2	5	1	79	.80	2	2	ND	2	15	1	2	2	15	.36	.14	6	9	.11	54	.04	7	.42	.01	.02	2	1
5+25N 8E P	1	42	10	42	.5	16	7	355	4.10	4	2	ND	2	30	2	2	2	91	.37	.11	2	17	.79	56	.15	13	1.92	.01	.01	2	2
5+00N 8E P	1	29	11	54	.3	12	6	421	4.15	2	2	ND	2	43	1	2	2	106	.59	.10	2	18	.69	75	.16	13	1.68	.01	.01	2	1
4+75N 8E P	3	46	12	121	.4	15	12	2382	4.24	5	2	ND	2	42	2	2	2	88	.72	.11	7	23	.77	100	.11	12	2.48	.01	.02	2	1
4+50N 8E P	1	23	9	68	.3	18	9	2184	2.25	2	2	ND	2	56	1	2	2	58	1.23	.13	3	24	.55	146	.13	14	1.09	.01	.01	2	1
4+25N 8E P	5	80	24	100	.8	13	10	1503	4.02	8	2	ND	2	24	2	2	2	106	.25	.10	15	28	.74	115	.09	12	3.04	.01	.02	2	1
4+00N 8E P	1	49	1	71	.1	46	16	811	4.65	4	2	ND	2	56	1	2	3	99	1.26	.19	2	57	1.87	31	.28	13	2.88	.01	.01	2	1
3+75N 8E P	2	72	1	69	.2	41	16	759	4.88	6	2	ND	2	54	1	2	2	102	1.12	.16	2	50	1.71	56	.27	13	2.81	.01	.01	2	1
3+50N 8E P	1	46	3	65	.2	37	13	618	4.25	2	2	ND	2	48	1	2	2	96	.94	.12	2	46	1.55	38	.26	12	2.56	.01	.01	2	1
STD A-1/FA-AU	1	30	39	186	.3	36	13	1049	2.80	9	2	ND	2	37	2	2	2	56	.62	.10	7	64	.63	255	.10	7	2.06	.01	.20	2	53

L4W L3W L2W L1W L0 L1E L2E L3E L4E L5E L6E L7E L8E

7+50 N — TIE LINE — 7+25 N

7+00 N

6+50 N

6+00 N

5+50 N

5+00 N

4+50 N

4+00 N

3+50 N — TIE LINE — 3+50 N

3+00 N

2+50 N

2+00 N

1+50 N

1+00 N

0+50 N

0+00

KEEN Id Post 2N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

LEAD (ppm) + SILVER (ppm)

12,747

IMPERIAL METALS CORPORATION

NIFTY (KEEN)

FIGURE 3 — N.T.S. 93D/9W

SOIL GEOCHEMISTRY

LEAD & SILVER

Metres 20 0 20 40 60 80 Metres

SCALE: 1:1000	GEOLOGIST: W. MORTON
DATE: JUNE 1984	DRAWN BY: R. M.

L4W L3W L2W L1W L0 L1E L2E L3E L4E L5E L6E L7E L8E

7+50 N — TIE LINE — 7+25 N — 7+50 N

7+00 N — 7+00 N

6+50 N — 6+50 N

6+00 N — 6+00 N

5+50 N — 5+50 N

5+00 N — 5+00 N

4+50 N — 4+50 N

4+00 N — 4+00 N

3+50 N — TIE LINE — 3+50 N — 3+50 N

3+00 N — 3+00 N

2+50 N — 2+50 N

2+00 N — KEEN Id Post 2N — 2+00 N

1+50 N — 1+50 N

1+00 N — 1+00 N

0+50 N — 0+50 N

0+00 — 0+00

L4W L3W L2W L1W L0 L1E L2E L3E L4E L5E L6E L7E L8E

N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,747

IMPERIAL METALS CORPORATION

NIFTY (KEEN)

FIGURE 4 — N.T.S. 93D/9W

SOIL GEOCHEMISTRY
COPPER & ZINC

Metres 20 0 20 40 60 80 Metres

SCALE: 1:1000 — GEOLOGIST: W. MORTON

DATE: JUNE 1984 — DRAWN BY: R.M.

L4W L3W L2W L1W L0 L1E L2E L3E L4E L5E L6E L7E L8E

7+50 N — TIE LINE — 7+25 N

7+00 N

6+50 N

6+00 N

5+50 N

5+00 N

4+50 N

4+00 N

3+50 N — TIE LINE — 3+50 N

3+00 N

2+50 N

2+00 N

1+50 N

1+00 N

0+50 N

0+00

KEEN
Id Post
2N

N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,747

As (ppm) Au (ppb)

IMPERIAL METALS CORPORATION

NIFTY (KEEN)

FIGURE 5 N.T.S. 93D/9W

SOIL GEOCHEMISTRY

ARSENIC & GOLD

Metres 20 0 20 40 60 80 Metres

SCALE: 1:1000	GEOLOGIST: W. MORTON
DATE: JUNE 1984	DRAWN BY: R. M.