





## HEAVY MINERAL SAMPLES , BASIC STATISTICS

Fraction: CHN

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	3.0	2.3	5.0
Cu	47	94	160	80
Zn	47	80	70	75
Pb	47	28	25	30
Ag	47	0.97	1.45	1.0
Au	46	0.76	2.75	0.5
W	46	40	89	40
F	47	640	845	500
As	46	44	92	50
Sn	22	4.4	2.9	-
Sb	46	13	28	30

Fraction: FHN

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	46	2.0	2.7	4.0
Cu	46	66	94	110
Zn	46	73	62	120
Pb	46	24	1.9	25
Ag	46	1.02	1.47	1.0
Au	47	1.05	2.77	0.5
W	47	23	31	35
F	43	483	680	500
As	47	44	73	50
Sn	22	3.6	1.9	-
Sb	47	17	37	30

## HEAVY MINERAL SAMPLES , BASIC STATISTICS

Fraction: SILTS

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	1.4	1.1	3.0
Cu	47	41	81	50
Zn	47	93	56	100
Pb	47	16	14	30
Ag	47	0.30	0.40	0.7
Cd	47	0.21	0.29	0.5
Ni	47	30	12	40
F	47	267	104	400
As	47	13	27	35
Co	47	20	8	25
Sb	23	19	2.0	10

HEAVY MINERAL SAMPLES , BASI. STATISTICS

Fraction: CIP

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	3.3	2.3	5.0
Cu	47	54	80	70
Zn	47	117	56	140
Pb	47	35	35	45
Ag	47	0.44	1.20	1.1
Au	47	0.01	—	—
W	47	4.9	5.1	10
F	47	564	372	850
As	47	51	72	60
Sn	22	3.6	1.7	—
Sb	47	11	19	12

Fraction: FIP

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	2.7	3.6	5.0
Cu	47	77	97	85
Zn	47	142	73	145
Pb	47	32	46	40
Ag	47	0.26	0.45	0.8
Au	43	0.01	0.0	—
W	43	4.0	3.0	8
F	33	453	337	700
As	43	51	74	60
Sn	21	3.0	0.0	—
Sb	41	11.3	21.9	20

HEAVY MINERAL SAMPLES , BASI. STATISTICS

Fraction: C/N

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	3.9	4.0	7.0
Cu	47	47	81	50
Zn	47	87	55	120
Pb	47	41	56	50
Ag	47	0.36	0.64	0.7
Au	47	0.02	0.02	-
W	47	8.9	9.9	20
F	47	1490	1458	1500
As	47	55	80	80
Sn	22	40	2.0	-
Sb	47	13.7	26.6	25

Fraction: F/N

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	1.4	0.9	4.0
Cu	47	34	28	60
Zn	47	58	22	75
Pb	47	13	13	30
Ag	47	0.16	0.18	0.5
Au	44	0.02	0.05	-
W	44	4.6	3.6	15
F	37	477	669	1000
As	44	20	25	40
Sn	22	4.3	4.2	-
Sb	44	6.2	9.8	15

## HEAVY MINERAL SAMPLES , BASIC STATISTICS

Fraction: CHM

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	1.6	0.83	40
Cu	47	32	16	40
Zn	47	BAD DATA	—	—
Pb	47	31	19	60
Ag	47	0.16	0.10	0.4
Au	46	0.02	0.04	—
W	46	4.4	3.0	9
F	47	444	115	500
As	46	31	40	60
Sn	21	4	3	—
Sb	46	6.5	9.5	10

Fraction: FHM

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	1.6	1.4	4.0
Cu	47	34	16	50
Zn	47	388	123	600
Pb	47	25	11	30
Ag	47	0.13	0.11	0.4
Au	44	0.01	0.0	—
W	44	5.7	4.4	9
F	32	253	111	450
As	44	20	10	30
Sn	16	3	1.5	—
Sb	43	5.3	5.6	11

HEAVY MINERAL SAMPLES , BASIC STATISTICS

Fraction: CHP

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	3.0	2.4	4.0
Cu	47	47	87	100
Zn	47	99	89	110
Pb	47	44	56	45
Ag	47	0.41	0.82	0.5
Au	47	0.03	0.07	-
W	47	165	576	50
F	47	369	146	450
As	47	58	74	50
Sn	22	3.5	1.4	-
Sb	47	15	28	30

Fraction: FHP

ELEMENT	NUMBER	MEAN	STD. DEV.	TRESHOLD VALUE
Mo	47	2.0	2.2	3.0
Cu	47	47	67	50
Zn	47	83	42	110
Pb	47	24	26	40
Ag	47	0.27	0.47	0.5
Au	47	0.01	0.02	-
W	47	86	166	40
F	44	272	115	450
As	47	61	56	70
Sn	22	3.7	2.4	-
Sb	47	15	24	30

Table 2  
 Threshold Values, Determined by Histogram and Probability Plots

Element	CIN	FIN	CIP	FIP	CHM	FHM	CHP	FHP	CHN	FHN	Con. Silt
Mo	7.0	4.0	5.0	5.0	4.0	4.0	4.0	3.0	4.5	4.0	3.0
Cu	50	60	70	85	40	50	100	50	80	110	50
Zn	120	75	140	145	Bad Data?	600	110	110	75	120	100
Pb	50	30	45	40	60	30	45	40	30	25	30
Ag	0.7	0.5	1.1	0.8	0.4	0.4	0.5	0.5	1.0	1.0	0.7
Au	-	-	-	-	-	-	-	-	0.5	0.5	-
W	20	15	10	8	9	9	50	40	40	35	-
F	1500	1000	850	700	500	450	450	450	500	500	375
As	80	40	60	60	60	30	50	70	50	50	35
Sn	-	-	-	-	-	-	-	-	-	-	-
Sb	25	15	12	20	10	11	30	30	30	30	10

Samples with 2 or more statistical threshold anomalous fractions

Sample No. Location

- 1059 Lower Klo Cr.
- 1062 Upper Foxy Cr. (north of tailings pond)
- 1065 Lower Noel Paul Br.
- 1070 Lower Bessemer Cr.
- 1072 Upper Berzelius Cr.
- 1451 Superstition Cr.
- 1452 West Fork, Noel Paul Brook
- 1453 East Fork, Noel Paul Brook
- 1454 Upper Bessemer Cr.
- 1455 Jetty Cr.
- 1464 Rainy Cr. (Trib. of Parrot Lk.)
- 1466 Sam Cr. (Trib. of Goosy Lk.)
- 1468 Butcher's Brook (Trib. of Owen Cr.)
- 1474 Riddeck Cr.
- 1475 Upper Allin Cr.

## Explanations

- 1054 - caused by mineralization in minesite area, tailing pond
- \* 1055 - caused by mineralization in minesite area, ie. on our  
1475 mineral claims, by source area is east side of gabbro
- \* 1059 - caused by possible mineralization in Klo creek system. Source  
Stake 1457 is has been defined to allow claim staking. Two 20  
1458 unit claims will be staked. (Klo Claims)
- \* 1065 - caused by possible mineralization is Noel Paul Brook area.  
1452 Source area will be investigated with trenching/drilling.  
1453
- 1070 - caused by Main Zone/Southern tail mineralization.  
1454  
1455
- \* 1072 - caused by Waterline mineralization, will be subject  
to more investigation, drilling
- \* 1451 - caused by Superstition mineralization, more drilling.
- 1461 - cause is unknown, however drainage is presently staked
- \* 1463 - cause is unknown, mineral claims will be staked.  
Stake 1464 (Dirt Claims)
- 1466 - cause is possible mineralization in Sam claim area, not  
owned by Equity
- \* 1468 - cause is unknown, mineral claims will be staked  
Stake (Aiven Claims)
- \* 1470 - cause is unknown, follow-up work. - research, more detailed sampling.
- 1471 - cause is known mineralization, presently staked
- \* 1473 - cause is unknown, follow-up work. - research, more detailed sampling.  
1474 - cause is known mineralization, presently staked (Medine)

## Conventional Silts - Thresholds.

### Histos.

Mn	3.0-4.0 (no log)
Cu	50 (no log) 40 (log)
Zn	100 (no log)
Pb	30 (no log)
Cd	0.5 (no log)
Ni	Bi-modal 0-23, 23-40 50 (no log)
Co	30 (no log)
Ag	0.5 (no log)
F	400 (no log)
As	40 (no log)
Sb	10 (no log)

### Prob. Plot.

Mn	3.0 (no log)
Cu	? (no log) - no data showing. 50 (log)
Zn	100 (no log)
Pb	25 (no log)
Cd	0.4? (no log) - very little data.
Ni	45 (no log)
Co	25 (no log) - good!
Ag	0.8 (no log)
F	375 (no log)
As	30 (no log)
	30? (log) - bad plot.
Sb	- bad plot → ? → little data.

HM's  
Histograms

FHN

CHN

Mo	3.5 + (no log)	5.0 + (no log)
Cu	100 + (no log) 90 + (log)	80 + (no log) 80 + (log)
Zn	90 + (no log)	80 + (no log)
Pb	25 + (no log)	30 + (no log)
Ag	1.2 + (no log) 1.1 + (log)	1.0 + (no log)
Au	1.0 + (no log)	?
W	25 + (no log)	30 + (no log)
F	500 + (no log) 700 + (log)	600 + (no log)
As	60 + (no log)	60 + (no log)
log both show bimodal distributions clustered at 10-16      20-40		
	50 + (log)      ⇒	70 + (log)
Su	—	—
Sb	45 + (no log) 20 + (log)	40 + (no log) 20 + (log)

Prob. Plots

Mo	?	4.0 + (no log)
Cu	100 + (no log) 120 + (log)	70 + (no log) 40 + (log)      ?
Zn	130 + (no log) (two pop.) ↗ 120 + (log) ↘	70 + (no log)
Pb	20 + (no log)	30 + (no log)      ?
Ag	2.0 + (no log)	2.0 + (no log)
- funny data - 3 populations. ?		
Au	1.4 + (no log) 0.3 + (log)	? (log) 0.6 + (no log) - didn't run it!
W	50 + (no log)	50 + (no log) (?)
F	500 + (no log) 3 pop. 400 + (log)	500 + (no log) - didn't run.
As	40 + (no log) 32 + (log)	40 + (no log) 50 + (log)
	Sb 40 + (no log) 10 + (log)	Sb 10 + (no log) 7 + (log)

## HM'S

## CHM

## FHM

## Histos.

	CHM	FHM
Mo	? 4.0 (no log)	4.0 (no log)
Cu	40 (no log)	50 (no log)
Zn	700 (no log) $\rightarrow f(\text{mag } [Z] + \text{composition})$	600 (no log)
Pb	60 (no log)	40 (no log)
Ag	0.5? (no log)	0.5 (no log)
Au	? (none)	? (none)
W	9.0 (no log)	10 (no log)
F	- spread pop. $\rightarrow$ no known pop. (no log)	500 (no log) - no known pop.
As	80 (no log) 60 (log)	35 (spread pop.)? ? (log) one pop. spread.
Sn	-	-
Sb	10 (no log) ? 10 (log)	10 (no log) (pretty good). 10 (log)

## Prob. Plots

## CHM

## FHM

	CHM	FHM
Mo	? (too small distribution)	?
Cu	40 (no log)	50 (no log)
Zn	0-600, 600-900, 900+ 3 pop. <u>600</u> (no log) ? - question of bc. - one pop, big spread	400 (no log)
Pb	60 (no log)	25 (no log). - 2 pop. 0-75, 25+
Ag	- ?	$\rightarrow$ 4 (no log) ?
Au	three data pts $> 0.01$ ?	- nothing will 0.01
W	8.0 (no log)	8.0 (no log)
F	1 pop. $\rightarrow$ no known. - maybe 500 (no log)	- funny enormously low values. - maybe 400 (no log)
As	60 (no log). 60 (log)	20 (no log). 25 (log)
Sn	-	-
Sb	10 (no log). 10 (log) (good)	12 (log). 11 (no log)

HM'S	CHP	FHP
Histo's		
Mo	4.0 (no log)	5.0 (no log)
Cu	40 (no log) 8-25, 40-100 (log) 100?	50 (no log) 40 (log)
Zn	120 (no log)	110 (no log) <sup>→ same for log</sup> - maybe bimodal. 30-75 for 130,
Pb	50 (no log)	40 (no log), 40 (log)
Ag	0.6 (no log) ?	0.5 (no log) ?
Au	0.5 (no log) . ?	? anything above detection - ?
W	40 (log)	Bimodal <del>50-30</del> → background. 150+ anomalous. (40)?
F	500 (no log)	? 450 (no log)
As	70 (no log) 80 (log)	50 (no log) ? (log) - mess.
Sn	-	-
Sb	30 (no log)	30 (no log) + (log) Bimodal type 0-15 background. 30+
Prob. Plots		
Mo	4.0 (no log)	2.1 (no log)
Cu	50 (no log) 25 (log) 1 pop. 90 (log) 2 pop.	45 (no log) or 90 (no log). 0 pop                      0 pop
Zn	100 (no log) 100 (log)	110 (no log)
Pb	40 (no log)	40 (no log)
Ag	0.5 (no log) 0.5 (log)	0.5 (no log) ?
Au	? → anything above detection limit.	? same.
W	60 (log)	2 pop 0-30, 150+. 40? (log)
F	400 (no log)	450 (no log)
As	50 (no log)	90 (no log) - looks ?
Sn	40 (log)	-
Sb	-	-
Sb	20 (no log) 50 (log)	15 (no log) 15 (log) ← 2 pop breaks. 45 (log) ←

HM'S

Histo's.

	CIP	FIP
Mo.	5.0 (no log)	5.0-4.0 (no log)
Cu.	70 (no log) - better plot. 100 (log)	100 (no log) - 100 (log)
Zn.	140 (no log)	175 (no log)
Pb	45 (no log)	35 (no log) 30 (log) - gives 2 pop. 6-20, 30+ → anomalies.
Ag.	1.0 (no log)	0.6 (no log)
Au	- anything.	-
W	9-10 (no log)	8-9 (no log)
F	900 (no log)	800 (no log) ✓
As.	80 (no log) 60 (log)	70 (no log) 60 (log) - ?
Sn.	-	-
Sb.	20 (no log) 10 (log)	20 (no log) 20 (log)

Prob. Plots.

Mo.	5.0 (no log)	5.0 (no log)
Cu.	150 (no log) 40 (no log) } lower 150 (log) 40 (log) } P.P.	70 (no log) ✓ 70 (log) ✓
Zn.	130 (no log) 180 (log)	120 (no log)
Pb.	40 (no log)	100 (no log) ? 40 (log)
Ag.	1.2 (no log)	0.9 (no log)
Au.	-	-
V	10 (no log)	6 (no log)
F.	800 (no log)	750 (no log)
As.	45 (no log) 35 (log)	60 (no log) 40 (log)
Sn.	-	-
Sb.	10 (no log) 12 (log)	no log ? 10-12 (log) 10 i.e. lower maybe better

# Heavy Minerals.

<u>Histo.</u>	CIN	FIN
Mo	7.0 (no log)	3.0-4.0 (no log)
Cu	60 (no log) 50 (log) - better	60 (no log) 80 (log)
Zn	2 pop., 33-78, 94-122 120 (no log)	75 (no log)
Pb	75 (no log)	25 (no log) 20 (log)
Ag	0.7 (no log)	0.4 (no log)
Au	? any thing > .01	→ "
W	15 (no log)	12 (no log)
F	1500 (no log) 2000 (log)	1000 (no log) 1000 (log)
As	80 (no log) 90 (log)	50 (no log) 40 (log)
Sn	—	—
Sb	25 (no log) 15 (log)	2 pop. 1-5, (12-16), (16+) (no log) 10-12 (log). <i>main one → another class pop.</i>

## Prob. Plots

Mo	7.0 (no log) or 4.5 (no log)	? too few pts.
Cu	50 (no log) 40 (log)	50 (no log) 55 (log)
Zn	140 (no log) > dif. in or 90 (no log) pop.	60 (no log) ?
Pb	70 (no log) 30 (log) - both Pb plots are strange.	30 (no log)
Ag	0.5 (no log)	?
Au	— any thing > .01. ?	—
W	20 (no log)	— one pop → no other.
F	2400 (no log) 1600 (log)	650 (no log) 550 (log)
As	80 (no log) 75 (log)	25 (no log) 45 (log) - bad plot?
Sn	—	—
Sb	65 (no log) 20 (log)	35 (no log) 15 (log) ?