



**Curragh  
Resources  
Inc.**

*Technical Services Agreement  
between  
Curragh Resources  
and  
Boliden*

**Technical Report**

**No:** 9

**Title:** Geogas Sampling  
on the Vangorda Plateau

**Date:** 1989-04-18

 **boliden** *international mining*

UP/H Sundén

GP 890003

89-04-18

Faro Geogas sampling

## INTRODUCTION

The Geogas method, invented by Boliden, is based upon an observed upward transport of matter in the bedrock and the soil. It is not exactly known how this transport takes place, but it is assumed that there are small gas bubbles that by gravity ascend along cracks and pores. These bubbles can transport information about bedrock composition at depth by attaching to their surfaces aggregates of atoms of the kinds that exist in the groundwater. The elements in the groundwater are correlated to the composition of the bedrock. When the bubbles reach the atmosphere, the innermost layer of the water around each bubble is transformed to a tiny drop, still containing the interesting atoms. These drops are collected in the Geogas collector chamber on top of a funnel which is placed in the soil for 6 - 8 weeks. The collector plates are analyzed, giving amounts of matter of most elements from atomic number 14 (Si) and higher. The base metals Cu, Zn, Pb, Ni and W have good detection limits, but there is a common general abundance of Zn which cannot be avoided that makes the practical detection limit for Zn somewhat higher.

The analyzed amounts are processed to represent equal flows of geogas and collector plates with soil or surface water contamination are identified. The results are usually presented as profiles for metals and sulphur and as bars for one of the best contamination indicators (which may be the total load of matter).

If the bedrock is more penetrable for small bubbles in a non-vertical direction than in the vertical direction, anomalies are displaced in relation to ore occurrences.

## FARO BACKGROUND DATA

The Faro - Vangorda ore field has several zinc-rich orebodies, most of which do not reach bedrock surface. Seven Geogas profiles were put out in the area 19th -24th August 1988. The collector were taken in 3rd - 6th October. The number of Geogas collectors was 173. The collector chambers arrived in Boliden on 20th October and after repackaging, the collector plates were sent to the laboratory in Germany on 24th October. The lab however, ran into serious problems with their detector, and were not able to deliver reliable results until 9th April 1989.

## DESCRIPTION OF RESULT FOR PROFILES

The profiles show processed data for two metals (or sulphur) per diagram plus bars for the observed total amount of matter for each collector plate. Tungsten (W) values are represented by "W" and a value when th value is over 10. The first position in each profile (indicated by "b") represents the detection limit. The designations under the profile are:

- b = normalized detection limit values for low total load samples.
- X = plate destroyed during field exposure.
- D = plate heavily contaminated (visual inspection). Result disregarded.
- C = plate contaminated (visual inspection).
- SC = plate slightly contaminated (visual inspection).
- VSC = plate very slightly contaminated (visual inspection).
- bar = total amount of matter on plate. Indicates degree of contamination.
- CTRL= control plate.

Anomalous levels can be chosen to discriminate between normal amounts for the area and anomal values, possibly caused by the abundance of the element in the bedrock below the

sampling point. Since the geology of the area is not very well known to us, the anomaly levels are chosen without the knowledge of what areas are ore bearing and barren. The anomaly levels, however, must be chosen above the detection limits.

The anomalous levels that were chosen for Faro - Vangorda were

- Zn : 60 pikograms normalized
- Cu : 20 pikograms normalized
- Pb : 25 pikograms normalized
- Ni : 10 pikograms normalized
- W : 10 pikograms normalized
- S : 0.75 nanograms normalized
- As : 0.75 nanograms normalized

Grum 2N

- Station 6 : Anomal S, just above anomal limit Cl
- 7 : Anomal S
- 8 : Anomal S, Cl
- 11 : Very high Zn
- 13 : Anomal Cu, at anomal limit Zn
- 17 : Anomal Ni
- 20 : Very high Zn, anomal Ni, slightly contaminated
- 23 : Very high Zn, Cu, Pb, Ni
- 27 : Anomal Cu, just above anomal limit Pb
- 31 : Disregarded due to heavy contamination
- 34 : Anomal Ni
- 35 : Anomal W
- 36 : Plate destroyed during sampling
- 37 : Anomal Cu, just above anomal limit Zn, anomal Ni

Grum 64W

- Station 3 : Slightly above anomal limit Zn, S
- 5 : Anomal Cl
- 9 : Anomal Zn
- 10 : Disregarded due to contamination
- 11 : At anomal limit Cl
- 12 : Just above anomal limit Ni
- 16 : Slightly contaminated according to visual inspection. Heavily loaded with K, Ca, and Fe indicates that water or insects might have contaminated the plate. Ni at anomal limit.
- 17 : Contaminated according to visual inspection. Ni at anomal limit
- 18 : Disregarded due to heavy contamination
- 19 : Anomal Cu, Cl
- Duplicate 17 : Anomal Zn, S. Cu at anomal limit.

Grum 84W

- Station 2 : Very high Zn, anomal Cl
- 5 : Very high Cu, Anomal Cl, Zn and S just below anomal limits
- 7 : Disregarded due to contamination
- 8 : Very slightly contaminated
- 9 : Anomal Cl
- 10 : Anomal Ni, just below anomal limit Zn
- 11 : Anomal Ni
- 14 : Very slightly contaminated. Anomal Pb
- 15 : Anomal S, Cl
- 16 : Very high Cl
- 19 : Contaminated according to visual inspection.
- 17 : Anomal Cu

## Vangorda, baseline

- Station 1 : Anomal Cl  
 6 : Anomal S  
 9 : Very high Pb  
 10 : Anomal Pb, Cl  
 11 : Very high Zn, Cu, anomal Pb, just above anomal limit Ni, anomal S, Cl, slightly contaminated  
 13 : Anomal Zn, Cu, very high Pb, just above anomal limit Ni, slightly contaminated  
 14 : Anomal Cu, W  
 15 : Anomal Cl, just above anomal limit S  
 16 : Just above anomal limit S  
 17 : Anomal S  
 18 : At anomal limit Zn, Anomal Cl  
 19 : Anomal W
- Duplicate 6 : Slightly contaminated according to visual inspection.

## Vangorda 6E

- Station 1 : Anomal Cu, Cl  
 2 : Anomal Zn, Cu, just above anomla limit Pb  
 3 : Very slightly contaminated according to visual inspection  
 8 : Just above anomal limit Cl  
 9 : Anomal Cl  
 10 : Just above anomal limit Cu, just below anomal limit S, Cl  
 11 : At anomal limit Cl  
 16 : Destroyed during exposure  
 18 : At anomal limit Zn, anomal Ni
- Duplicate 10 : Anomal Cu

## Vangorda 26E

- Station 2 : Anomal Zn, Cu, Ni  
 4 : Anomal Zn, very high Cu, anomal Ni, at anomal limit Pb, Cl  
 5 : Anomal Zn, Ni  
 6 : Anomal Zn, Pb, Ni  
 7 : Anomal Pb  
 10 : Anomal Zn, Ni, Cl, slightly contaminated according to visual inspection  
 13 : Anomal Cl  
 14 : Anomal S  
 15 : Destroyed during exposure  
 16 : Very slightly contaminated according to visual inspection  
 17 : Anomal W, Cl  
 18 : Anomal Pb

## Faro DY 18E

- Station 1 : Anomal W, S  
 3 : Anomal Cu  
 4 : Anomal Pb  
 5 : Disregarded due to heavy contamination  
 6 : Disregarded due to heavy contamination  
 7 : Disregarded due to heavy contamination  
 8 : Destroyed during exposure  
 10 : Anomal Cu, Cl  
 11 : Disregarded due to heavy contamination  
 15 : Anomal Zn, just below anomal limit Pb  
 16 : Just below anomal limit Zn, Pb  
 17 : Anomal Zn, Pb, Ni, W  
 18 : Anomal Zn, Pb, Ni, W  
 19 : Anomal Pb  
 23 : Anomal Zn, Cu, Ni, W, just above anomal limit Pb  
 24 : Anomal Cl

25 : Anomal Zn, Cu  
27 : Anomal Zn, Cu, slightly contaminated  
28 : Contaminated  
30 : Anomal Zn, Cu, Pb, Ni  
Duplicate 10 : At anomal limit Zn, just above anomal limit Pb

#### DATA TABLE

Data for all analyzed samples are given in the data table. The data for the elements Si to Fe are normalized nanograms and Ni to W are normalized pikograms. The total load (unnormalized) is given in Sum.

*Henrik Sundén*

Henrik Sundén

# CURRAGH RESOURCES

3:38

Sample Assay Sheet

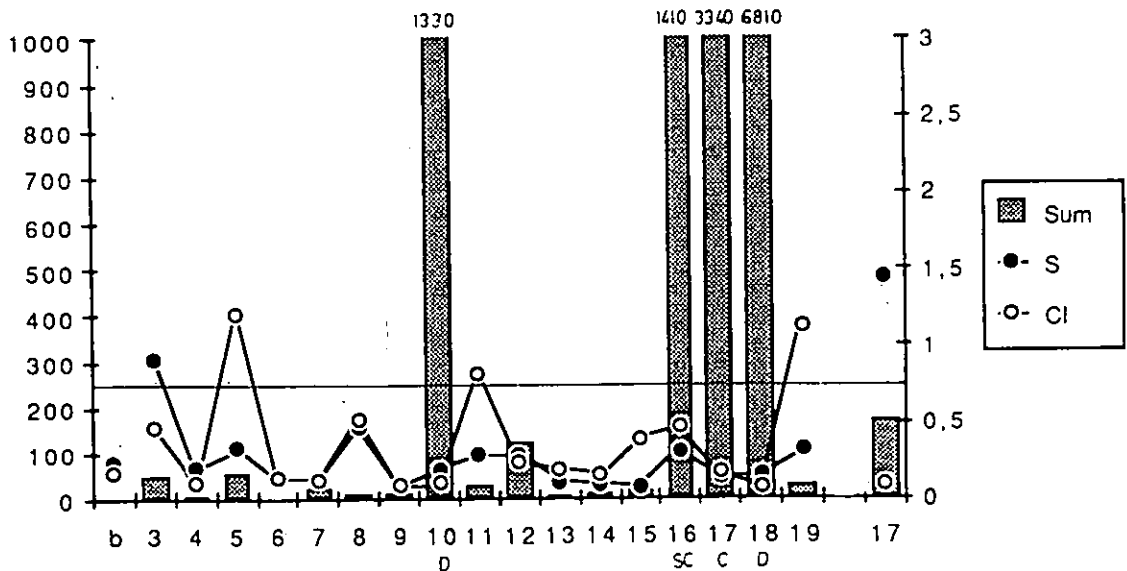
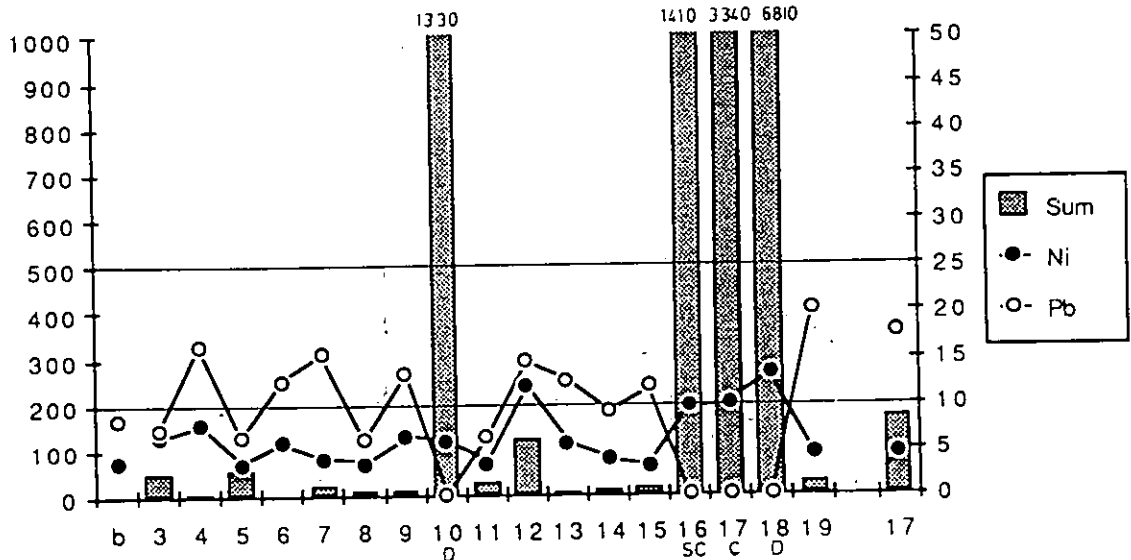
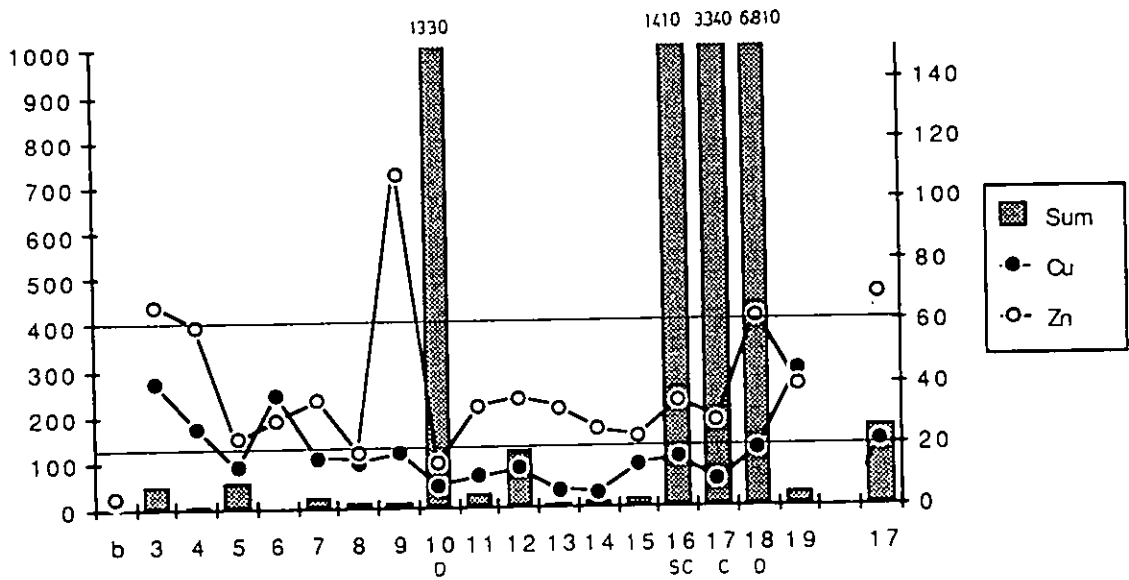
Production Date: Sept. 5/90

Sample Origin: Undergrounds

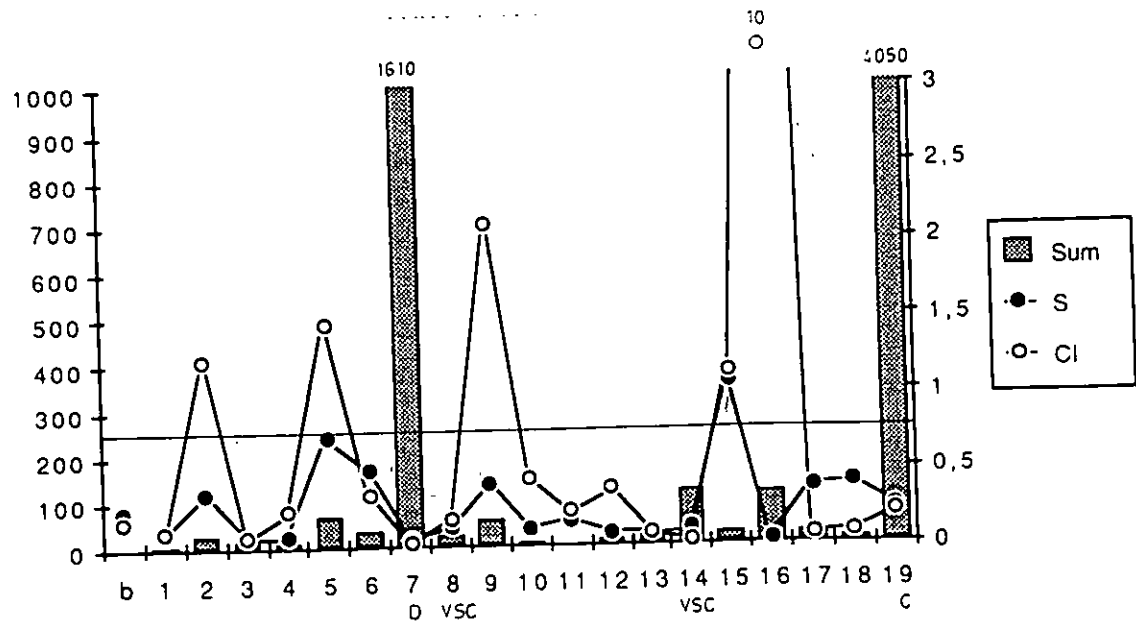
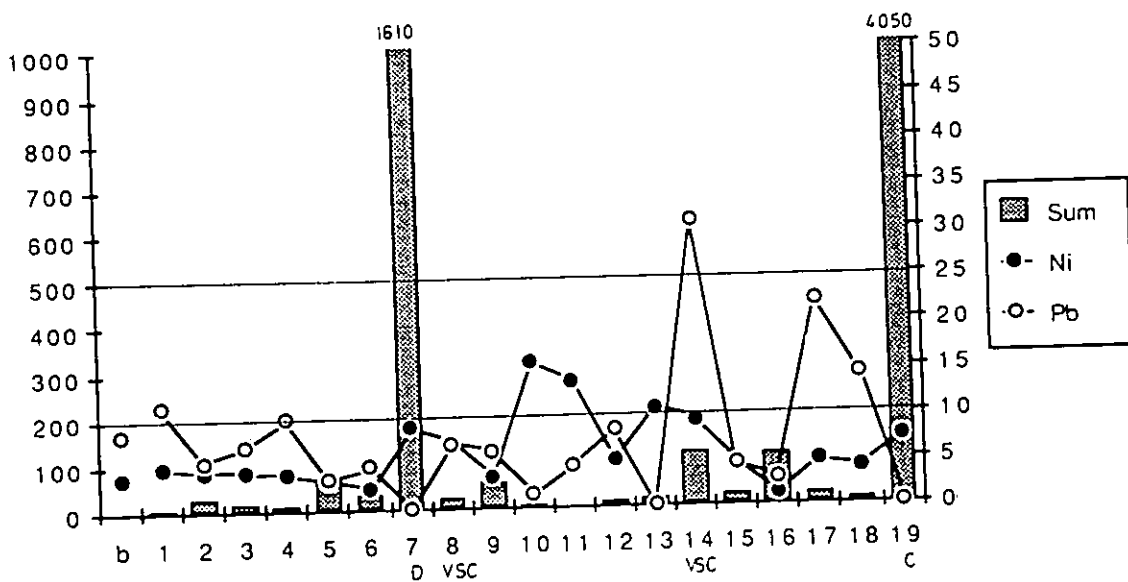
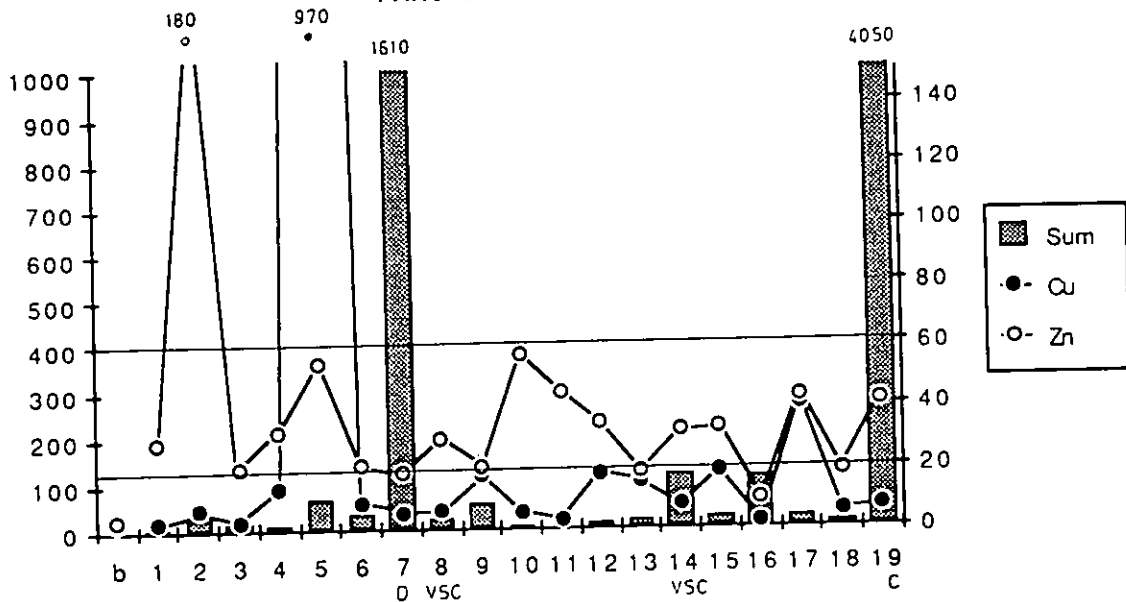
	Sample Number	Pb	Zn	Fe	Ag	Cu			
1	220239	0.68	4.91	7.04	25	'			
2	220240	4.70	6.61	28.7	70	'			
3	220241	5.79	9.48	36.3	75	'			
4	220242	1.34	2.72	4.22	25	'			
5	220243	2.48	3.94	39.8	50	'			
6	220244	0.77	1.38	2.77	10	'			
7	220245	1.45	4.29	7.28	30	'			
8	220246	0.52	1.88	4.17	15	'			
9	220247	5.46	8.21	30.4	75	'			
10	220248	5.22	11.4	32.0	75	'			
11	220249	1.51	3.47	9.80	35	'			
12	220250	4.84	7.86	40.3	65	'			
13									
14									
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32									

58

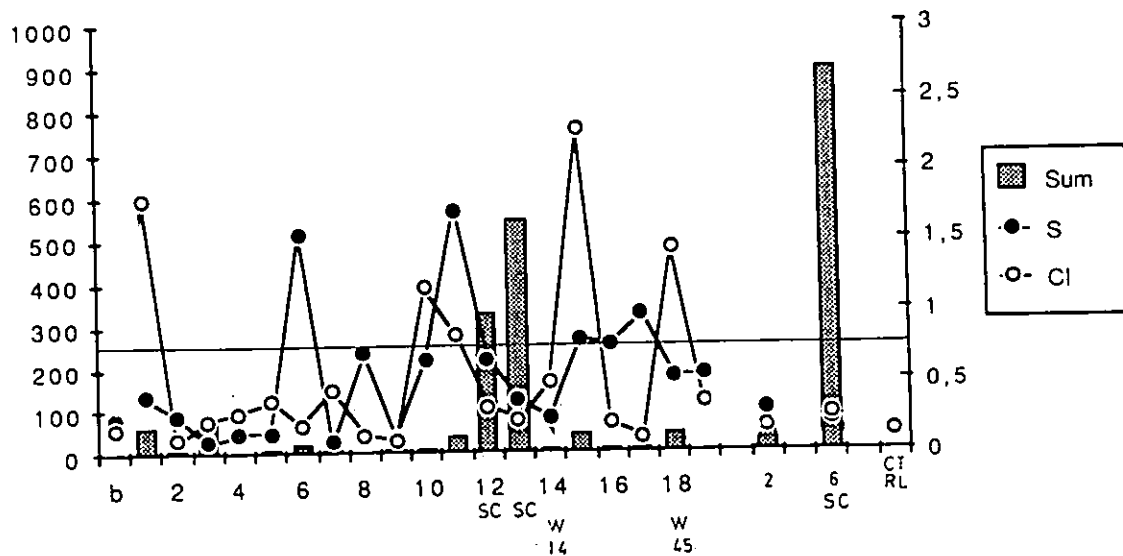
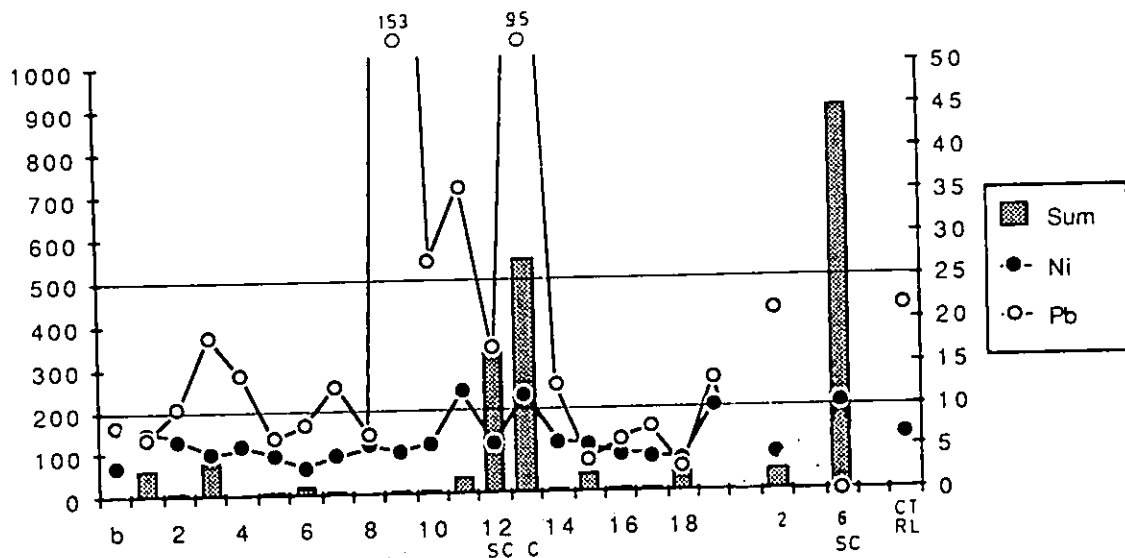
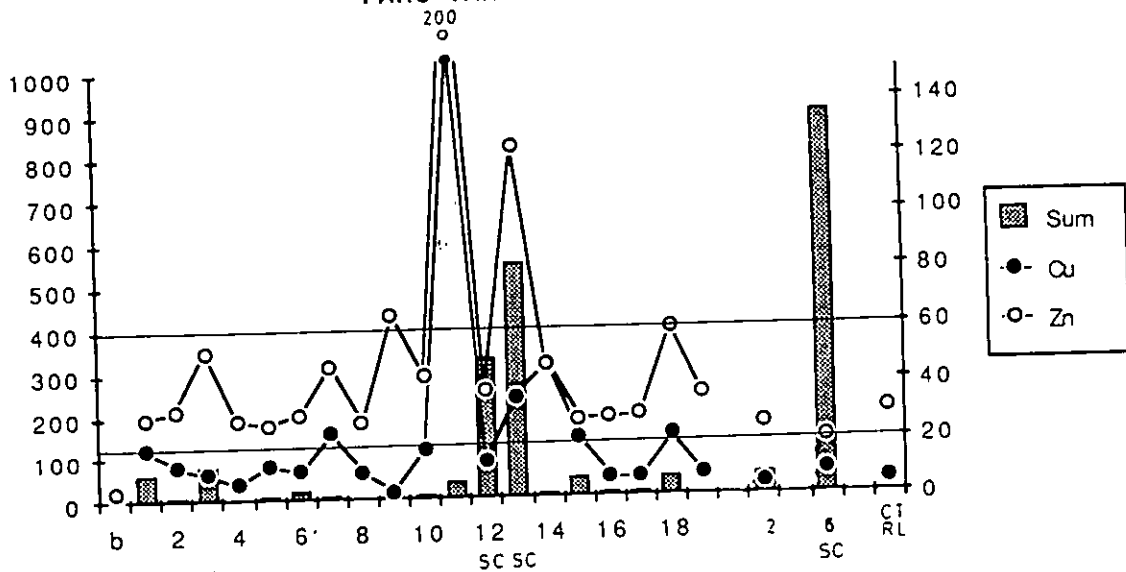
FARO GRUM 64W



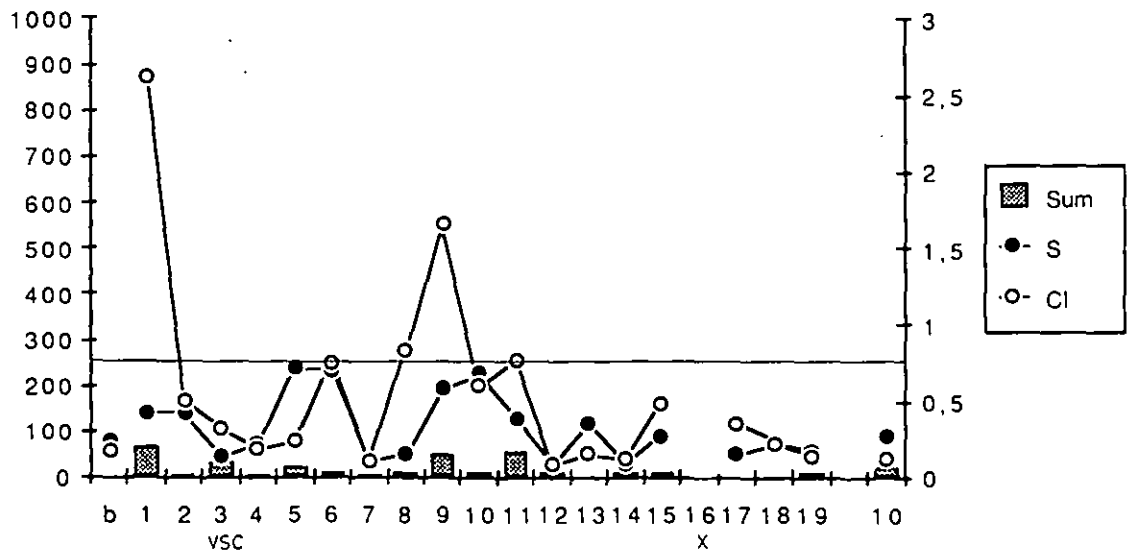
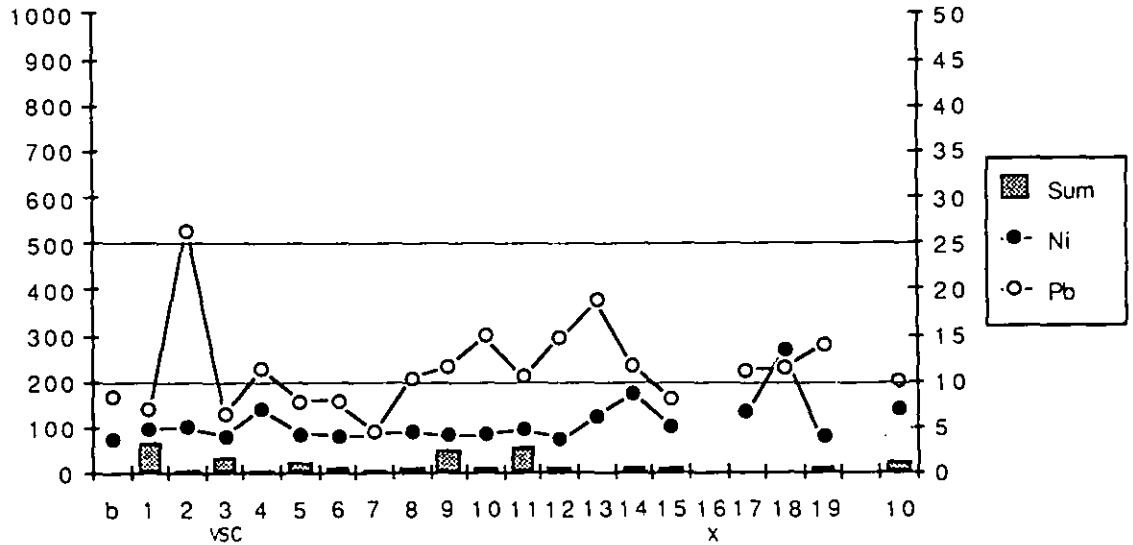
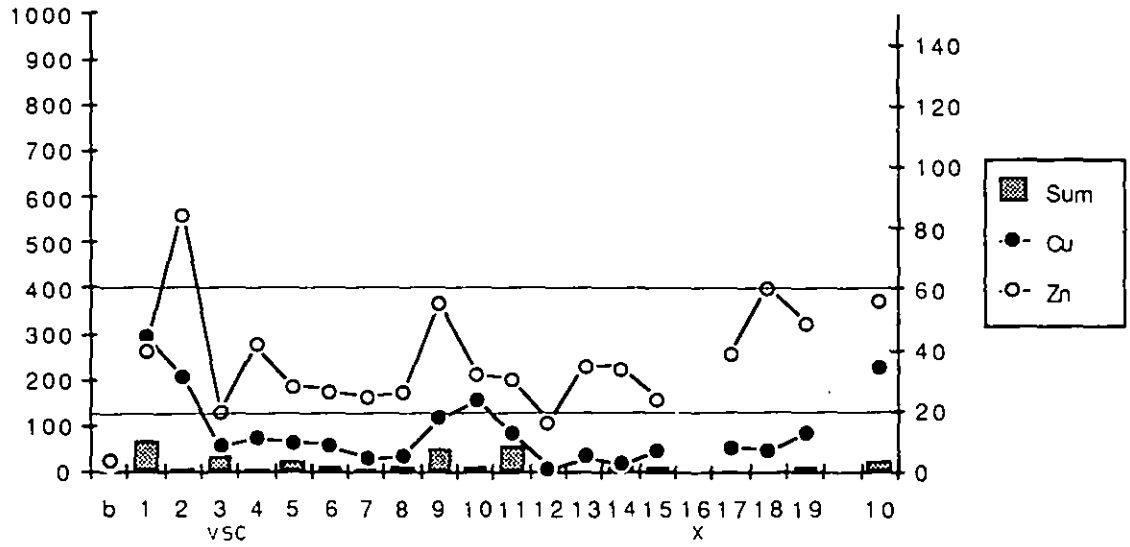
FARO GRUM 84W



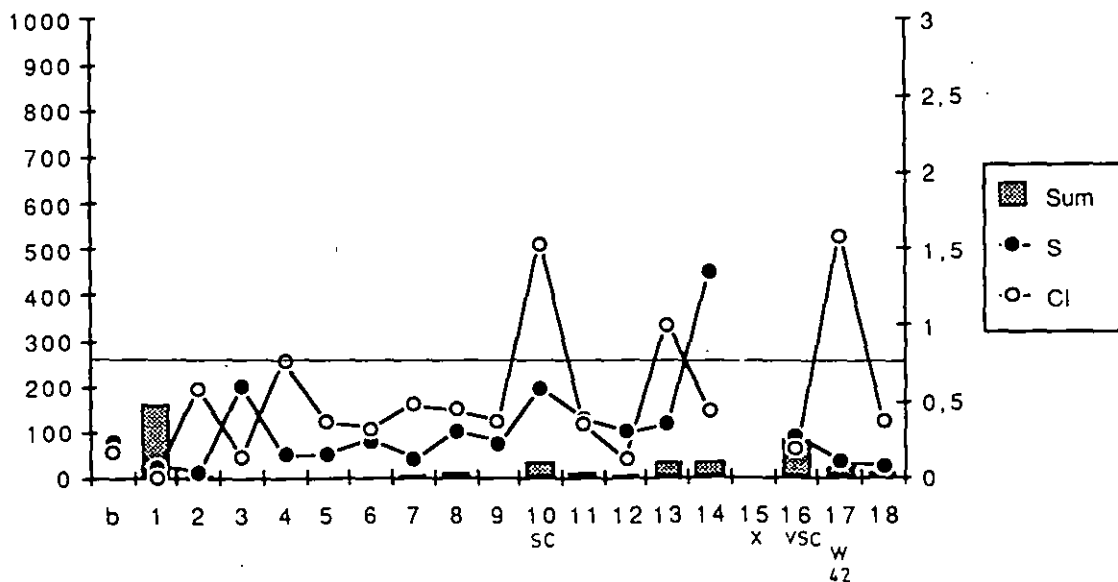
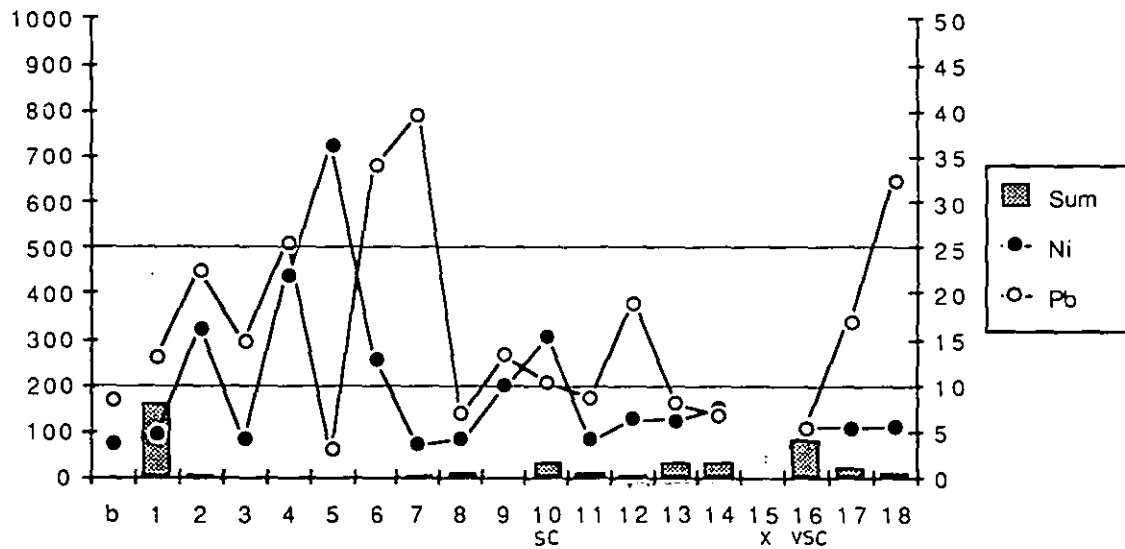
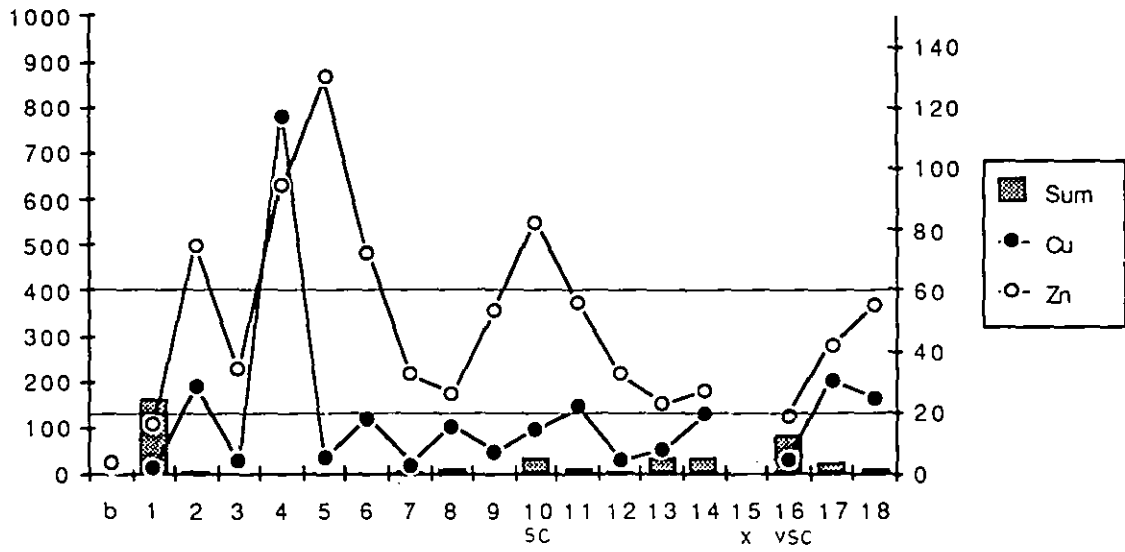
### FARO VANG BASELINE



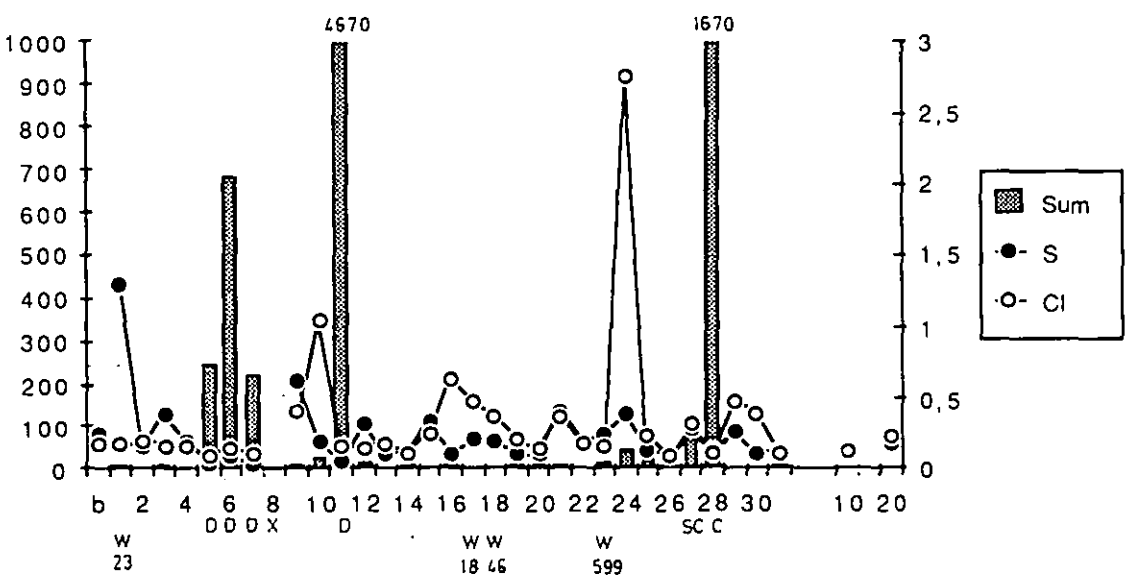
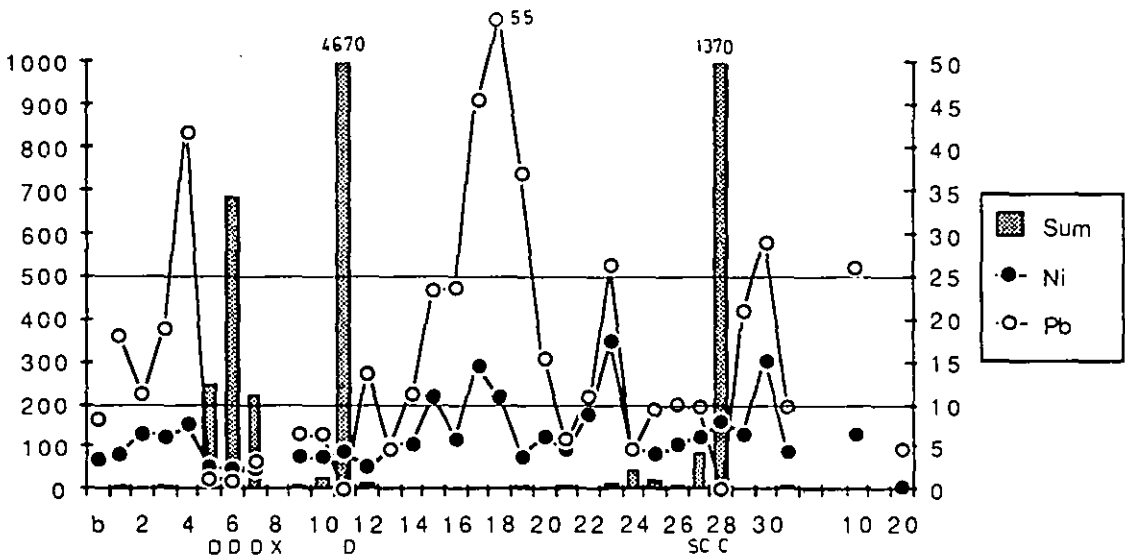
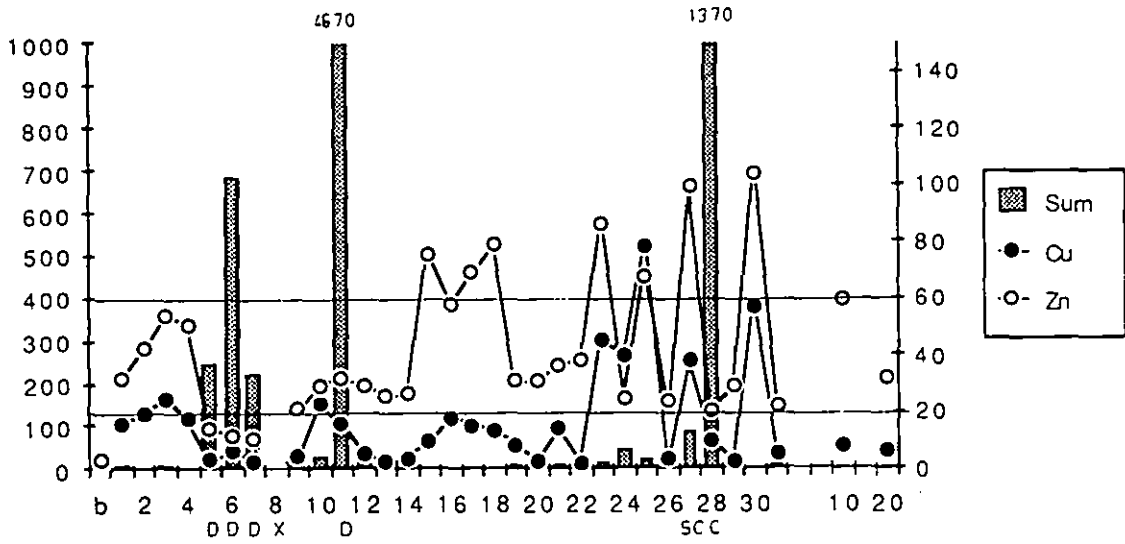
FARO VANG 6E



FARO VANG 26E



FARO DY 18E



FARO DATA

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1	FARO GRUM 2N																									
2	SAMPLE	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	
3	Profile	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	
4	Coord	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
5																										
6	Si	0.8	2.5	2.4	2.3	1.5	1.2	0.7	0.4	3.3	3.2	0.6	1.9	2.1	2.5	10.1	1.2	3.7	2.0	8.9	1.5	5.0	0.5	1.2	1.9	
7	P	0.0	0.1	0.0	0.1	0.0	0.9	0.2	0.3	0.1	0.0	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	3.7	0.0	0.0	0.0	0.0	
8	S	0.2	0.2	0.5	0.1	0.3	1.5	1.2	1.0	0.4	0.1	0.2	0.5	0.3	0.6	0.1	0.1	0.4	0.3	0.0	0.9	0.2	0.2	0.1	0.3	
9	Cl	0.2	0.1	0.9	0.1	0.6	0.9	0.6	1.2	0.1	0.1	0.6	0.1	0.1	0.2	0.1	0.4	0.3	0.1	0.0	0.2	0.1	1.0	0.3	0.2	
10	K	0.1	0.1	0.4	0.2	0.4	2.5	0.3	0.6	0.3	0.2	0.1	0.3	0.1	0.4	0.9	0.3	0.4	0.3	1.9	3.1	0.5	0.3	0.2	0.2	
11	Ca	0.1	0.2	0.5	0.1	0.6	0.7	0.9	3.9	1.2	0.2	0.0	0.1	0.1	0.6	0.6	0.2	0.4	0.2	1.1	4.4	0.4	0.7	0.2	0.9	
12	Ti	0.01	0.06	0.09	0.02	0.03	0.00	0.02	0.01	0.17	0.03	0.01	0.07	0.02	0.09	0.08	0.02	0.26	0.03	0.27	0.14	0.10	0.03	0.00	0.06	
13	Fe	0.16	0.32	0.33	0.22	0.36	0.16	0.44	0.15	0.93	0.22	0.15	0.60	0.11	1.36	0.78	0.24	1.38	0.65	3.23	1.49	0.56	0.19	0.33	0.69	
14	Ni	8.5	4.9	4.2	4.1	3.2	3.3	3.4	2.7	2.3	2.8	8.1	6.8	5.3	2.9	1.3	7.6	26.2	4.1	3.9	13.1	3.3	3.9	132.6	4.6	
15	Cu	12.4	19.8	6.4	8.5	8.6	25.8	6.4	11.3	4.7	9.5	4.6	20.2	43.7	5.7	3.9	11.5	19.2	3.5	2.7	19.7	10.0	9.3	337.4	19.0	
16	Zn	47.1	44.2	22.2	26.5	30.8	24.9	29.9	45.2	22.1	22.8	243.7	54.7	58.6	26.5	13.1	39.4	56.4	22.1	15.4	204.5	29.1	31.5	809.3	28.2	
17	As	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.0	0.0	0.4	0.5	0.1	0.0	0.4	1.6	6.0	1.3	0.0	0.0	6.1	0.0	
18	Pb	23.5	14.6	4.4	10.4	14.7	6.9	6.4	5.2	7.7	7.0	6.6	22.5	4.3	8.4	5.3	19.9	10.5	13.6	6.4	12.1	6.5	7.2	99.8	11.6	
19	Rb	5.2	0.3	0.6	0.6	0.0	2.3	0.5	1.1	0.9	0.8	1.5	0.8	0.7	0.5	3.6	0.4	3.4	2.5	16.4	11.5	1.7	0.0	0.4	1.4	
20	Sr	1.3	0.9	1.7	1.3	1.9	4.9	1.6	4.4	2.7	4.0	1.5	2.9	0.4	4.1	25.2	2.8	4.1	2.2	40.1	41.3	9.2	0.4	1.7	5.8	
21	W																									
22	Sum	2.34	12.2	26.9	10.1	13.9	60.6	19.4	56.4	40.8	16	3.88	14.6	7.94	33.8	160	6.32	46.6	13.5	239	240	47.3	7.79	5.26	17.3	
23																										
24	FARO GRUM 2N																									
25	SAMPLE	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442							
26	Profile	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N	2N						
27	Coord	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42							
28																										
29	Si	0.6	2.5	0.6	3.3	7.0	3.8	45.4	3.2	0.8	4.5	1.7	0.0	1.5	3.2	0.4	2.5	2.5	15.3							
30	P	0.2	0.1	0.3	0.8	0.0	1.0	0.0	0.2	0.1	0.0	0.1	0.0	0.4	0.0	0.1	0.0	0.0	0.0							
31	S	0.5	0.3	0.2	0.4	0.1	0.5	0.2	0.0	0.2	0.0	0.1	0.0	0.1	0.1	0.3	0.3	0.2	0.1							
32	Cl	0.1	0.1	0.3	0.3	0.5	0.3	0.2	0.1	0.2	0.1	0.2	0.0	0.4	0.5	0.3	0.5	0.2	0.1							
33	K	0.0	0.4	0.2	0.9	0.9	1.1	8.1	0.7	0.1	0.9	0.3	0.0	0.3	0.4	0.3	1.2	0.4	2.2							
34	Ca	0.0	0.1	0.1	0.4	1.8	0.6	2.3	0.2	0.0	0.4	0.1	0.0	0.3	0.6	1.3	0.4	0.3	0.5							
35	Ti	0.01	0.08	0.04	0.10	0.24	0.05	1.63	0.14	0.01	0.04	0.04	0.00	0.01	0.06	0.02	0.05	0.02	0.41							
36	Fe	0.45	0.38	0.18	0.67	2.08	0.70	18.77	1.62	0.09	0.77	0.51	0.00	0.41	1.01	0.15	0.45	0.22	3.59							
37	Ni	5.9	3.6	10.8	6.0	5.6	6.4	0.0	6.7	7.9	3.0	5.5	0.0	16.4	3.0	5.1	3.5	3.4	4.7							
38	Cu	4.0	2.8	93.7	26.5	20.1	8.1	18.9	3.7	3.3	7.2	22.4	0.0	63.2	31.1	5.4	9.5	2.9	3.6							
39	Zn	31.2	21.0	50.9	50.3	34.6	22.7	64.8	27.5	37.7	19.1	49.2	0.0	66.4	58.1	26.9	34.9	28.1	14.9							
40	As	0.0	0.0	0.0	0.6	1.5	0.5	114.5	1.9	0.0	9.8	0.0	0.0	1.5	1.4	0.0	0.0	0.0	2.1							
41	Pb	9.9	7.9	27.1	10.5	2.6	4.2	0.0	6.3	9.3	106.9	17.8	0.0	9.9	8.1	8.5	17.5	16.9	2.0							
42	Rb	0.5	2.8	2.2	2.9	4.9	2.9	109.3	6.0	1.3	4.1	1.0	0.0	0.3	2.7	1.7	2.6	3.1	14.9							
43	Sr	1.5	2.3	3.2	3.6	8.8	2.8	57.3	5.2	0.0	2.9	2.3	0.0	1.8	2.9	1.4	4.7	3.1	16.2							
44	W																									
45	Sum	4.07	15.3	3.41	47.3	163	66.6	586.1	37.9	2.29	44.3	9.53	0	11.7	35	8.62	28.7	14.8	491							
46																										
47																										
48																										

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FARO DATA

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
193																											
194																											
195																											
196																											
197	FARO VANG BASELINE																										
198	SAMPLE	328	329	330	331	332	333	334	335	336	389	390	391	393	394	395	396	398	399	400				392	397	304	
199	Profile	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L	B/L				B/L	B/L	B/L	
200	Coord	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				2	6	CTRL	
201																											
202	Si	12.3	4.0	56.0	5.1	3.9	5.7	3.9	1.9	5.0	1.1	7.4	242.8	374.0	7.7	4.0	4.0	1.3	4.9	2.5				33.1	657.8	3.2	
203	P	1.7	0.0	0.0	0.7	0.0	0.2	0.0	0.6	0.5	0.0	3.1	0.0	8.3	0.0	0.3	0.7	0.9	1.5	0.9				0.1	0.0	0.4	
204	S	3.2	0.8	0.7	0.4	0.5	7.0	0.3	1.7	0.4	2.4	11.1	12.0	8.6	0.9	5.5	2.6	3.5	3.6	1.5				2.2	7.1	0.0	
205	Cl	14.3	0.3	2.1	0.8	1.3	0.9	1.4	0.3	0.0	4.3	5.4	5.9	5.2	1.8	15.7	0.7	0.4	9.6	1.0				1.3	7.8	0.0	
206	K	8.4	1.1	6.1	0.2	1.0	0.8	1.2	0.4	1.2	2.9	9.4	22.9	39.7	1.4	7.5	0.6	0.8	7.9	0.2				2.1	56.4	0.3	
207	Ca	18.9	1.1	3.3	0.0	4.7	2.6	2.1	0.2	0.5	2.4	3.4	14.4	26.2	0.5	13.7	1.5	5.2	16.0	0.2				3.2	26.6	0.3	
208	Ti	1.23	0.62	1.89	0.04	0.01	0.09	0.25	0.04	0.08	0.02	0.14	2.47	8.73	0.19	0.11	0.06	0.12	0.18	0.07				0.30	11.36	0.03	
209	Fe	3.51	1.35	11.68	0.40	0.44	3.07	1.21	0.62	5.12	0.67	2.60	32.60	81.81	0.91	1.28	1.39	0.58	1.43	1.30				9.39	135	0.46	
210	Ni	7.4	6.6	5.0	5.8	4.6	3.3	4.7	5.8	5.0	5.9	12.0	6.0	11.6	6.0	5.5	4.4	4.2	3.9	10.1				4.3	10.2	6.5	
211	Cu	18.2	12.2	9.4	5.8	12.2	10.2	23.6	9.5	2.8	17.6	160.0	12.8	35.5	46.5	20.9	6.8	6.7	21.7	8.3				4.6	8.7	5.5	
212	Zn	29.6	32.0	52.6	27.9	26.7	30.3	47.3	27.4	65.2	43.5	201.9	38.1	123.3	47.3	27.8	28.0	29.1	59.4	36.0				25.7	20.2	30.5	
213	As	0.1	0.0	2.9	0.0	0.9	1.6	0.0	0.4	8.4	0.8	4.4	4.3	13.0	0.0	0.0	0.9	0.0	0.0	0.0				1.8	5.7	0.0	
214	Pb	6.8	10.2	18.7	14.1	6.7	8.2	12.8	7.1	153.0	27.3	35.9	17.1	95.0	12.6	3.9	6.2	7.5	3.0	13.3				21.3	0.0	21.7	
215	Rb	2.0	0.7	3.3	1.4	0.0	0.2	0.9	0.8	10.3	0.0	2.3	5.0	9.1	3.0	1.3	0.0	0.3	1.8	1.1				1.3	12.0	0.9	
216	Sr	7.2	3.6	3.0	0.0	6.1	1.6	2.8	0.0	10.6	2.2	2.5	16.8	13.9	3.8	4.3	2.7	2.2	3.3	1.4				4.5	11.8	4.2	
217	W																										
218	Sum	63.6	9.2	81.8	7.63	11.9	20.4	10.3	5.81	12.8	13.7	42.5	333	553	13.4	48.1	11.5	12.8	45.1	7.71				51.6	902	4.68	

FARO DATA

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
145																										
146																										
147		FARO VANG 6E																								
148	SAMPLE	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355					303	
149	Profile	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E	6E					6E
150	Coord	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					10	
151																										
152	Si	0,9	0,2	4,3	0,7	2,4	0,4	0,5	1,0	1,4	0,6	0,9	2,4	0,7	2,6	0,1	0,0	0,6	0,6	0,4					2,3	
153	P	1,2	0,1	0,0	0,1	0,2	0,1	0,0	0,1	0,1	0,1	0,1	0,2	0,3	0,2	0,1	0,0	0,0	0,0	0,0	1,3				0,0	
154	S	0,4	0,4	0,1	0,2	0,7	0,7	0,1	0,2	0,6	0,7	0,4	0,1	0,4	0,1	0,3	0,0	0,2	0,2	0,2					0,3	
155	Cl	2,6	0,5	0,3	0,2	0,2	0,8	0,1	0,8	1,7	0,6	0,8	0,1	0,2	0,1	0,5	0,0	0,4	0,2	0,1					0,1	
156	K	1,8	0,1	0,4	0,2	0,4	0,5	0,0	0,3	0,7	0,7	0,5	0,6	0,1	0,1	0,5	0,0	0,2	0,1	1,4					0,5	
157	Ca	1,0	0,9	0,3	1,2	0,6	1,3	0,0	1,3	2,1	0,9	1,0	0,1	0,1	0,3	1,8	0,0	0,4	0,0	0,1					1,0	
158	Ti	0,01	0,00	0,05	0,00	0,12	0,01	0,00	0,02	0,03	0,02	3,65	0,01	0,02	0,02	0,01	0,00	0,00	0,00	0,01					0,04	
159	Fe	0,16	0,15	0,51	0,16	0,35	0,20	2,12	0,18	0,68	0,15	0,46	0,20	0,20	0,16	0,06	0,00	0,23	0,13	0,08					0,75	
160	Ni	4,9	5,1	4,0	7,0	4,4	4,0	4,2	4,4	4,1	4,3	4,7	3,6	6,1	8,7	5,2	0,0	6,6	10,7	3,9					6,9	
161	Cu	44,5	31,0	8,3	11,0	9,8	8,3	4,2	5,4	17,6	23,6	12,5	1,1	5,1	2,6	7,0	0,0	8,1	5,4	13,0					34,1	
162	Zn	39,3	84,0	19,5	41,7	27,9	26,4	24,0	26,2	55,1	32,0	29,8	15,9	33,6	33,6	23,6	0,0	38,7	48,3	48,4					55,4	
163	As	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	1,1	0,0	1,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,6					2,2	
164	Pb	7,1	26,3	6,3	11,3	8,0	7,8	4,5	10,4	11,7	14,9	10,6	14,6	18,3	11,6	8,2	0,0	11,2	9,2	13,8					10,1	
165	Rb	1,5	0,0	1,7	0,0	1,8	0,0	1,0	1,3	1,2	0,0	0,7	3,3	0,0	0,9	0,0	0,0	0,0	0,0	1,1					2,4	
166	Sr	2,0	0,0	6,2	0,0	2,6	4,0	0,7	3,1	3,9	3,3	2,5	2,7	0,5	1,2	3,6	0,0	2,5	1,5	1,4					4,3	
167	W																									
168	Sum	67,1	5,56	36,1	7,47	25,2	15,8	8,26	14,9	52,6	13,6	58,7	13,3	3,85	11,9	10,9	0	3,86	1,7	13,1					24,3	
169																										
170																										
171		FARO VANG 26E																								
172	SAMPLE	310	311	312	313	314	315	316	317	318	319	327	326	325	324	323	322	320	321							
173	Profile	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E	26E						
174	Coord	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18							
175																										
176	Si	9,1	0,4	1,1	0,4	0,0	0,0	1,0	1,3	0,2	1,1	0,6	0,4	1,8	0,8	0,0	5,6	1,0	2,1							
177	P	0,0	0,3	0,0	0,0	0,9	0,3	0,1	0,0	0,2	0,3	0,2	0,3	0,2	0,2	0,0	0,1	0,5	0,2							
178	S	0,1	0,0	0,6	0,2	0,0	0,2	0,1	0,3	0,0	0,6	0,4	0,3	0,4	1,3	0,0	0,3	0,1	0,1							
179	Cl	0,0	0,6	0,0	0,8	0,4	0,3	0,5	0,4	0,4	1,5	0,4	0,1	1,0	0,4	0,0	0,2	1,6	0,4							
180	K	0,5	0,6	0,1	0,4	0,0	0,1	0,2	0,4	0,1	0,6	0,5	0,0	0,6	0,8	0,0	0,7	1,0	0,4							
181	Ca	0,2	0,3	0,1	0,1	0,0	0,1	0,2	0,9	0,0	1,3	1,1	1,1	1,3	1,9	0,0	0,8	0,3	0,3							
182	Ti	0,17	0,02	0,01	0,02	0,03	0,02	0,02	0,01	0,02	0,02	0,02	0,00	0,17	0,01	0,00	0,25	0,04	0,30							
183	Fe	2,68	0,28	0,19	0,20	0,47	0,18	0,38	0,22	0,13	0,40	0,26	0,06	0,40	0,39	0,00	1,44	0,19	0,36							
184	Ni	4,8	16,2	4,3	21,9	36,2	12,8	3,6	4,2	10,0	15,2	4,2	6,5	6,3	7,6	0,0	5,5	5,5	5,5							
185	Cu	1,8	28,6	4,3	116,9	4,9	17,9	3,2	15,4	6,6	14,3	21,6	4,3	7,7	19,1	0,0	4,4	30,5	24,0							
186	Zn	16,2	75,0	34,3	94,5	129,9	72,4	32,3	26,0	53,1	82,3	55,6	32,3	22,7	26,9	0,0	18,8	42,1	55,0							
187	As	2,5	0,0	0,0	0,0	4,9	0,0	3,2	0,0	0,0	0,0	0,0	0,0	0,0	1,2	0,0	1,5	0,4	1,0							
188	Pb	13,2	22,4	14,8	25,4	3,3	34,1	39,5	7,0	13,3	10,3	8,7	19,0	8,0	6,7	0,0	5,4	17,0	32,3							
189	Rb	4,5	3,9	0,0	0,0	0,0	0,9	1,2	0,8	0,0	0,7	0,0	0,0	1,4	1,0	0,0	4,2	0,0	1,8							
190	Sr	4,7	0,0	0,5	2,5	0,0	2,6	1,2	3,6	0,0	2,2	2,1	1,3	3,2	4,8	0,0	4,3	1,1	5,8							
191	W																			42,0						
192	Sum	163	6,69	4,41	3,87	3,33	1,38	6,14	12,8	1,45	35,3	11,1	5,39	34,4	33,7	0	87,8	22,6	16							

