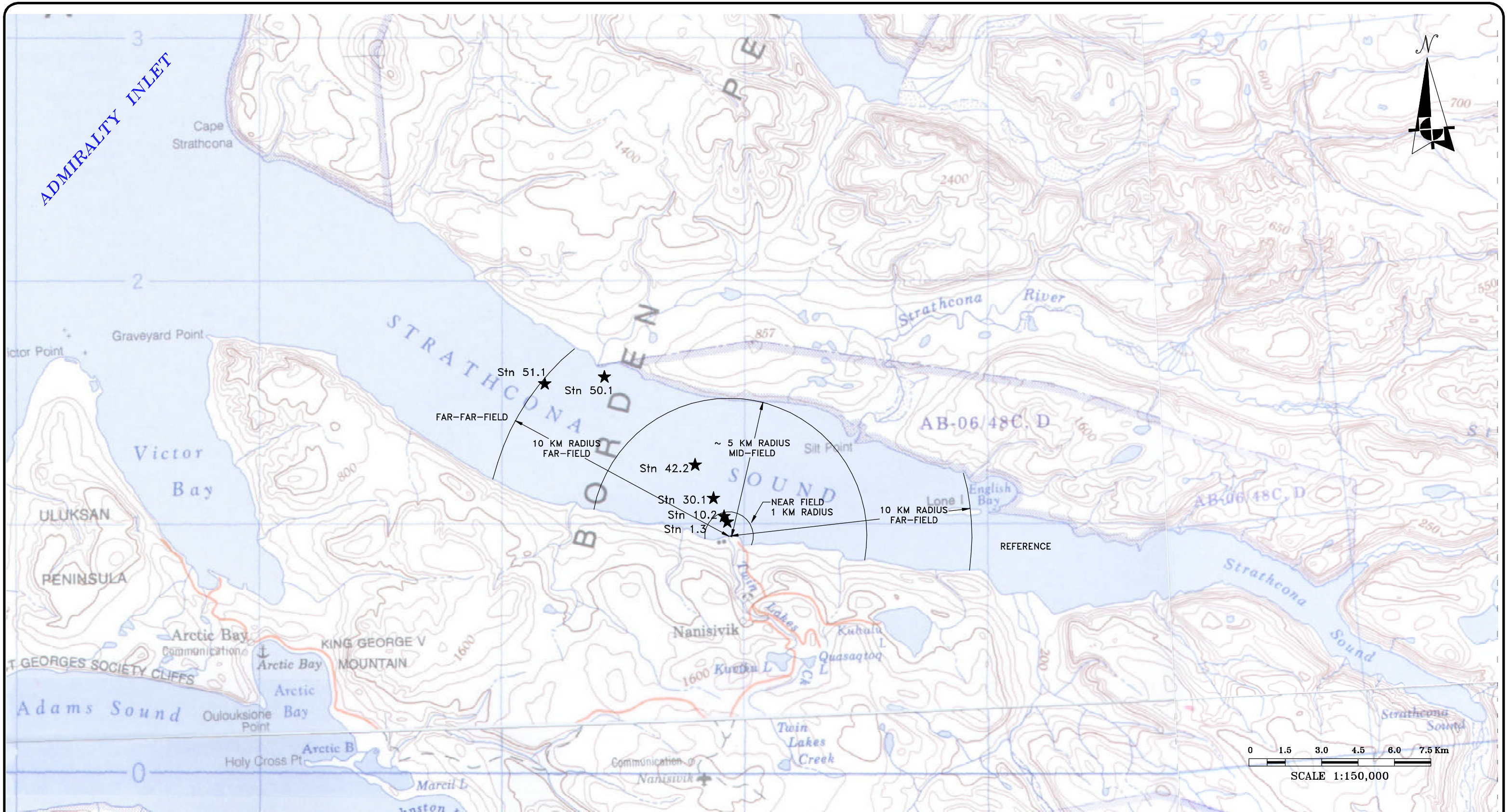




LEGEND:

Stn 51.1 ★ 2000 SEDIMENT SAMPLING STATION

SOURCE OF DRAWING:
GOVERNMENT TOPOGRAPHIC MAPS
1:250,000 SCALE
48A,B,C,D 1993.
NAD83 ZONES 16 & 17
REVIEWED BY: EJD
DRAWN BY: CPW
DATE ISSUED: JANUARY, 2003
PROJECT NUMBER: 21-957
FILE NAME: 21957-F1-05.DWG
REVISION: 0

STRATHCONA SOUND
SUMMARY ENVIRONMENTAL AREAS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
NANISIVIK MINE
BAFFIN ISLAND, NUNAVUT



CanZinco
Ltd.

Figure No.
B.1



Table B.1: Sampling Station 1.3

Zone 8
 Northing 110,053m
 Easting 579,318

Water depth = 42.8m

Depth (cm)	K (%)	Ca (%)	Mn (mg/kg)	Fe (%)	Ni (mg/kg)	Cu (mg/kg)	Zn(mg/kg)	Pb (mg/kg)
0	1.51	8.66	222	2.97	21	27	1413	175
0.25	1.52	8.45	175	2.69	25	26	1281	185
0.75	1.69	8.63	190	2.74	16	30	1428	149
1.25	1.47	8.32	211	2.57	19	21	1279	170
1.75	1.38	7.5	169	2.42	24	24	1158	145
2.25	1.34	7	166	2.29	22	19	1095	186
2.75	1.44	7	170	2.32	24	21	1234	248
3.25	1.67	8.11	192	2.57	21	23	1614	394
3.75	1.81	7.79	108	2.7	17	24	1714	416
4.25	1.89	8.33	206	2.89	20	27	2110	462
4.75	1.64	8.55	191	3.09	17	30	2589	464
5.5	1.78	7.28	185	2.71	19	23	1823	324
6.5	1.87	6.5	185	2.57	26	21	1273	233
7.5	2.06	6.86	136	2.33	29	28	678	120
8.5	1.88	5.5	278	2.27	30	22	537	94
9.5	1.97	5.03	238	2.11	27	22	302	52
10.5	1.86	4.88	157	2.21	31	20	345	57
11.5	1.89	4.95	120	2.13	26	19	238	48
12.5	2.21	5.38	148	2.27	33	24	241	31
13.5	2.04	5.48	230	2.31	29	23	289	59
14.5	1.97	5.47	163	2.39	21	21	261	34
15.5	2.04	5.68	133	2.29	29	25	230	28
16.5	1.87	5.84	148	2.07	27	17	201	34
17.5	1.79	5.92	143	2	27	16	232	48
18.5	1.83	5.87	145	2.12	27	19	242	41
19.5	1.61	5.5	123	1.86	31	23	227	30
20.5	1.65	4.91	110	1.88	29	22	276	14

post-1970

pre-1970

(lead
isotope
dating)



Table B.2: Sampling Station 10.2

Zone 8
 Northing 110,283m
 Easting 579,182m

Water depth = 101.7m

Depth (cm)	K (%)	Ca (%)	Mn (mg/kg)	Fe (%)	Ni (mg/kg)	Cu (mg/kg)	Zn(mg/kg)	Pb (mg/kg)	
0.25	2.61	7.23	262	3.38	28	32	1285	283	
0.75	2.32	6.31	246	3.06	32	36	1130	233	
1.25	2.27	6.09	221	3.04	33	35	1135	239	
1.75	2.37	5.06	245	2.98	27	28	998	225	
2.25	2.37	5.57	234	2.85	31	28	972	232	
2.75	2.24	5.09	183	2.7	29	33	862	217	post-1970
3.25	2.42	4.87	180	2.69	30	29	641	185	-----
3.75	2.56	4.89	165	2.77	26	26	653	203	
4.25	2.36	4.14	183	2.54	31	25	366	96	pre-1970
4.75	3.01	4.72	201	2.83	39	29	265	42	
5.5	2.91	4.47	186	2.82	34	25	197	45	(lead
6.5	2.28	3.84	184	2.63	32	25	203	48	isotope
7.5	2.52	4.51	179	2.81	33	26	376	77	dating)
8.5	2.52	4.51	208	2.89	33	23	342	81	
9.5	2.47	4.48	199	2.88	30	23	236	32	
10.5	2.27	4.34	199	2.75	24	20	212	40	
11.5	2.38	0.38	183	2.67	35	24	217	45	
12.5	2.68	4.49	158	2.91	36	32	226	34	
13.5	2.49	4.15	154	2.72	38	30	198	60	
14.5	2.74	3.88	142	2.65	34	26	168	35	
15.5	2.67	4.21	156	2.68	32	28	176	37	
16.5	2.52	4	181	2.52	34	25	171	19	
17.5	2.63	4.15	161	2.63	31	33	175	36	
18.5	2.72	4.39	165	2.7	33	25	175	33	
19.5	2.49	4	163	2.59	23	22	158	34	
20.5	2.48	4.37	178	2.53	29	22	187	17	
21.5	2.26	5.04	175	2.45	28	26	282	68	
22.5	2.34	5.22	201	2.6	27	22	282	33	
24.5	2.32	4.75	158	2.47	31	22	205	49	
25.5	2.29	4.65	171	2.47	33	24	202	59	
26.5	2.22	4.64	230	2.57	29	24	200	38	
27.5	2.34	4.61	158	2.61	30	24	200	45	
28.5	2.36	4.83	184	2.7	38	24	220	47	
29.5	2.11	4.37	200	2.65	21	24	204	55	
30.5	2.16	4.38	191	2.72	24	21	179	43	
31.5	2.29	4.33	156	2.55	26	24	205	66	
32.5	2.09	4.35	201	2.58	30	21	189	37	



Table B.3: Sampling Station 30.1

Zone 8
 Northing 111,031m
 Easting 578,748

Water depth = 125.5m

Depth (cm)	K (%)	Ca (%)	Mn (mg/kg)	Fe (%)	Ni (mg/kg)	Cu (mg/kg)	Zn(mg/kg)	Pb (mg/kg)	
0.25	2.99	2.57	282	3.15	34	22	162	38	
0.75	3.32	2.76	224	3.19	36	27	175	60	
1.25	2.99	2.74	194	2.9	30	29	158	69	
1.75	2.75	2340	182	2.65	33	22	123	41	
2.25	3.08	2.52	198	2.9	37	24	124	45	
2.75	2.81	2.35	178	2.76	25	15	105	20	
3.25	3.26	2.58	194	2.92	33	21	113	16	post-1970
3.75	3	2.5	193	2.78	34	22	96	4	
4.25	3.38	2.31	218	3.11	42	30	111	8	-----
4.75	3.24	2.57	197	2.95	32	27	99	2	pre-1970
5.5	3.01	2.45	201	2.91	36	33	105	30	
6.5	2.93	2.29	194	2.73	37	26	94	30	
7.5	2.84	2.23	159	2.67	31	21	85	14	(lead isotope dating)
8.5	2.87	2.23	202	2.73	35	21	87	9	
9.5	2.95	2.36	189	2.76	39	23	85	26	
10.5	2.8	2.27	187	2.64	32	22	85	-	
11.5	3.11	2.44	177	2.73	42	27	87	1	
12.5	2.9	2.48	178	2.71	35	22	80	31	
13.5	2.76	2.3	173	2.52	37	22	82	19	
14.5	2.68	2.3	196	2.53	31	23	81	37	
15.5	2.72	2.48	162	2.61	38	28	86	29	
16.5	2.81	2.44	161	2.55	38	28	82	15	
17.5	2.64	2.46	154	2.59	33	27	8	35	
18.5	2.6	2.55	179	2.58	29	23	81	64	
19.5	3.09	2.58	192	2.63	34	22	79	33	
20.5	2.62	2.29	208	2.6	34	25	81	8	
21.5	2.72	2.35	136	2.46	32	21	78	23	
22.5	2.62	2.31	164	2.45	33	18	74	28	
23.5	2.58	2.4	175	2.5	34	23	77	11	
24.5	3.04	2.49	175	2.64	40	23	82	2	
25.5	2.73	2.37	175	2.35	34	25	78	15	
26.5	3.04	2.48	189	2.53	32	21	79	24	
27.5	2.78	2.32	215	2.53	33	25	80	18	
28.5	2.58	2.27	206	2.5	33	20	80	30	
29.5	3.09	2.54	173	2.62	32	28	82	8	
30.5	2.81	2.4	179	2.5	32	27	80	39	
31.5	2.68	2.31	200	2.43	37	21	76	13	
32.5	2.57	2.35	204	2.41	29	22	73	12	
33.5	2.69	2.32	188	2.43	35	28	74	26	
34.5	3.04	2.63	193	2.61	37	20	78	23	
35.5	2.07	2.48	190	2.55	36	21	78	9	
36.5	2.79	2.42	158	2.43	34	28	78	30	
37.5	2.62	2.51	210	2.54	38	21	87	24	



Table B.4: Sampling Station 42.2

Zone 8
 Northing 112,405m
 Easting 577,993m

Water depth = 168 m

Depth (cm)	K (%)	Ca (%)	Mn (mg/kg)	Fe (%)	Ni (mg/kg)	Cu (mg/kg)	Zn(mg/kg)	Pb (mg/kg)
0.25	2.84	2.21	133	2.46	34	22	95	24
0.75	3.2	2.51	193	2.77	40	28	105	32
1.25	2.83	2.27	195	2.59	29	23	95	48
1.75	2.81	2.1	195	2.45	34	19	87	30
2.25	2.8	2.09	178	2.43	37	20	84	64
2.75	3.13	2.36	197	2.69	39	22	87	13
3.25	2.82	2.12	166	2.51	37	20	76	32
3.75	2.84	2.1	168	2.4	36	18	77	22
4.25	3.08	2.28	127	2.44	35	23	73	-
4.75	2.75	2.17	150	2.33	42	26	71	37
5.5	2.68	2.11	153	2.27	31	16	69	43
6.5	2.66	2.14	174	2.32	37	19	70	21
7.5	2.67	2.14	165	2.38	37	25	67	20
8.5	2.82	2.11	160	2.3	34	18	65	31
9.5	2.61	2.19	155	2.31	36	20	65	18
10.5	2.67	2.15	151	2.28	33	17	62	10
11.5	2.48	2.1	150	2.23	34	22	66	14
12.5	2.4	2.19	157	2.12	33	22	63	34
13.5	2.52	2.12	172	2.22	35	23	64	-
14.5	2.9	2.12	192	2.84	39	28	65	29
15.5	2.93	2.29	160	2.87	35	28	87	12
16.5	2.74	2.2	165	2.3	38	22	65	16
17.5	2.62	2.26	197	2.37	30	22	63	31
18.5	2.94	2.27	222	2.84	45	27	70	34
19.5	2.73	2.34	216	2.59	38	23	62	42
20.5	3.06	2.62	280	2.8	41	23	63	15
21.5	3.01	2.67	233	2.78	40	24	63	32
22.5	3.01	2.08	255	2.73	36	26	64	26
23.5	2.72	3.1	275	2.68	39	27	65	2
24.5	2.79	3.16	292	2.58	35	22	61	41
25.5	2.87	3.21	255	2.66	39	23	66	22

post-1970

pre-1970

(lead
isotope
dating)



Table B.5: Sampling Station 50.1

Zone 8
 Northing 116,027m
 Easting 574,258

Water depth = 177 m

Depth (cm)	K (%)	Ca (%)	Mn (mg/kg)	Fe (%)	Ni (mg/kg)	Cu (mg/kg)	Zn(mg/kg)	Pb (mg/kg)	
0.25	3.29	1.03	290	3.29	40	26	88	24	
0.75	3.13	1.62	219	2.6	33	25	90	13	
1.25	3.15	1.54	174	2.66	36	23	73	36	
1.75	3.03	1.48	160	2.48	29	20	69	24	
2.25	3.33	1.61	201	2.69	37	20	75	19	post-1970
2.75	3.03	1.51	140	2.65	33	25	73	24	
3.25	3	1.42	194	2.57	34	21	70	18	-----
3.75	3.24	1.5	171	2.53	38	29	67	-	pre-1970
4.25	3.13	1.47	160	2.56	41	24	66	13	
4.75	3.03	1.47	189	2.65	34	24	69	27	(lead
5.5	3.09	1.42	146	2.57	38	22	71	44	isotope
6.5	3.03	1.43	131	2.63	29	25	70	46	dating)
7.5	3.06	1.38	149	3.41	34	22	67	1	
8.5	3.05	1.39	151	3.48	32	24	69	27	
9.5	2.96	1.36	181	2.52	40	25	69	33	
10.5	2.95	1.41	181	2.46	38	23	68	34	
11.5	2.91	1.35	182	2.44	28	16	63	-	
12.5	3.07	1.39	181	2.49	36	32	69	30	
13.5	3.28	1.57	200	2.58	39	26	72	8	
14.5	2.97	1.37	191	2.98	34	26	66	8	
15.5	3.28	1.54	229	2.98	48	32	70	41	
16.5	3.19	1.46	191	2.72	35	26	69	5	
17.5	3.23	1.52	211	2.76	33	22	69	18	
18.5	3.1	1.44	233	2.72	37	20	65	30	
19.5	3.16	1.47	230	2.81	39	22	71	19	
20.5	2.9	1.39	211	2.72	38	25	69	20	
21.5	2.99	1.4	243	2.72	32	21	63	16	
22.5	2.88	1.36	231	2.73	34	24	68	20	
23.5	2.82	1.47	195	2.64	38	23	68	26	
24.5	3.26	1.58	206	2.68	45	26	69	15	
25.5	2.88	1.45	201	2.52	35	30	63	26	
26.5	2.72	1.48	190	2.42	35	31	61	12	
27.5	3.03	1.55	197	2.57	38	23	66	15	
28.5	2.03	1.59	179	2.45	32	23	63	18	
29.5	2.68	1.45	179	2.28	35	21	61	20	
30.5	3.62	2.3	191	2.5	34	32	66	5	
31.5	2.71	1.47	195	2.54	31	20	62	10	



Table B.6: Sampling Station 51.1

Zone 8
 Northing 115,739m
 Easting 571,800m

Water depth = 172 m

Depth (cm)	K (%)	Ca (%)	Mn (mg/kg)	Fe (%)	Ni (mg/kg)	Cu (mg/kg)	Zn(mg/kg)	Pb (mg/kg)	
0.25	3.31	1.93	174	2.73	31	20	77	15	
0.75	3.46	1.95	189	2.71	42	28	78	6	
1.25	2.98	1.75	192	2.57	33	22	72	9	
1.75	3.25	1.95	195	2.88	38	25	78	0.2	
2.25	3.11	1.8	158	2.52	39	26	72	28	post-1970
2.75	2.92	1.81	172	2.6	30	21	71	44	
3.25	2.94	1.71	180	2.48	33	21	68	30	-----
3.75	3.06	1.87	185	2.56	30	25	71	30	pre-1970
4.25	2.95	1.8	197	2.49	40	21	68	43	
4.75	2.97	1.79	151	2.47	37	19	70	26	(lead
5.5	2.82	1.71	142	2.26	29	23	61	25	isotope
6.5	2.58	1.61	156	2.34	33	20	64	44	dating)
7.5	3.12	1.86	186	2.56	41	26	66	48	
8.5	2.79	1.78	152	2.34	34	22	67	39	
9.5	3.04	1.86	190	2.43	34	20	64	35	
10.5	2.77	1.81	154	2.88	32	18	60	3	
11.5	2.6	1.89	159	2.05	29	15	56	21	
12.5	2.68	2.07	187	2.19	31	20	60	21	
13.5	2.54	1.87	149	2.08	27	12	53	6	
14.5	2.73	1.99	154	2.18	33	19	55	24	
15.5	2.48	1.99	157	2.13	27	16	54	20	
16.5	2.46	2.00	154	2.12	38	20	58	24	
17.5	2.67	2.03	182	2.2	32	18	57	14	
18.5	2.68	2.13	194	2.38	38	21	59	35	
19.5	2.91	2.21	218	2.53	34	20	60	41	
20.5	3.11	2.37	190	2.63	39	25	66	27	
21.5	2.92	2.3	221	2.61	42	27	63	39	
22.5	3.11	2.83	245	2.8	36	28	60	12	
23.5	2.89	2.68	281	2.82	44	28	68	27	
24.5	3.22	3.06	208	2.83	43	25	70	-	