

Halifax Harbour Water Quality Monitoring Project

Weekly Summary #29

Survey Date: 05 Jan 05
Nature of Survey: Complete Survey
Report File (this document): HHWQMP_report029_050105.doc
Data File: HHWQMP_data029_050105.xls

Data Return:
 Profile: 0%
 Bacteria: 100%
 Chemical: 100%
Overall: 58%

Sample Notes:

CTD battery pack prematurely failed, leading to lack of CTD data for this date.
 Diagnostics inconclusive. A more conservative battery replacement procedure than the one recommended by the manufacturer has been instituted.

QA/QC samples:

Chemical Analysis		H2 - 10m		EE2- 10m	
Detectable Parameter	units	reference sample	QA/QC	reference sample	Dup
Total Suspended Solids	mg/L	6.4	14.7	4.7	n/a
Aluminum	ug/L	<100	<100	<100	240
Boron	ug/L	3500	3700	3700	4100
Lithium	ug/L	160	160	170	180
Strontium	ug/L	6100	6100	6500	7200
Titanium	ug/L	56	58	57	74
Uranium	ug/L	3.0	2.9	2.9	3

Fecal Coliform (CFU/100ml)

Site	C2-10m	HC-10m	C3-10m	BYC-10m	E1-10m	H2-10m
Reference	1000	240	180	13	410	18
QA/QC	1200	290	260	7	390	27

Regulated parameters with all samples below detection (<EQL)

Parameter	EQL(µg/L)	Parameter	EQL(µg/L)	Parameter	EQL(mg/L)
Cadmium	3	Nickel	20	Oil and Grease	5
Chromium	20	Zinc	50	CBOD ₅	5
Manganese	20				

Detectable non-regulated metals

Metal	EQL (µg/L)	Number >EQL	Mean (µg/L)	Range (µg/L)
Aluminum	100	1	240	240
Boron	500	16	3600	3300-3800
Lithium	20	16	160	150-170
Strontium	50	16	6100	5900-650000
Titanium	20	16	57	49-61
Uranium	1	16	2.8	2.5-3.1

Comments:

Copper: The single lab duplicate sample (EE-10m) had a value (21 µg/L) greater than the EQL (20 µg/L). This exceeds the copper guideline of 2.9 µg/L.

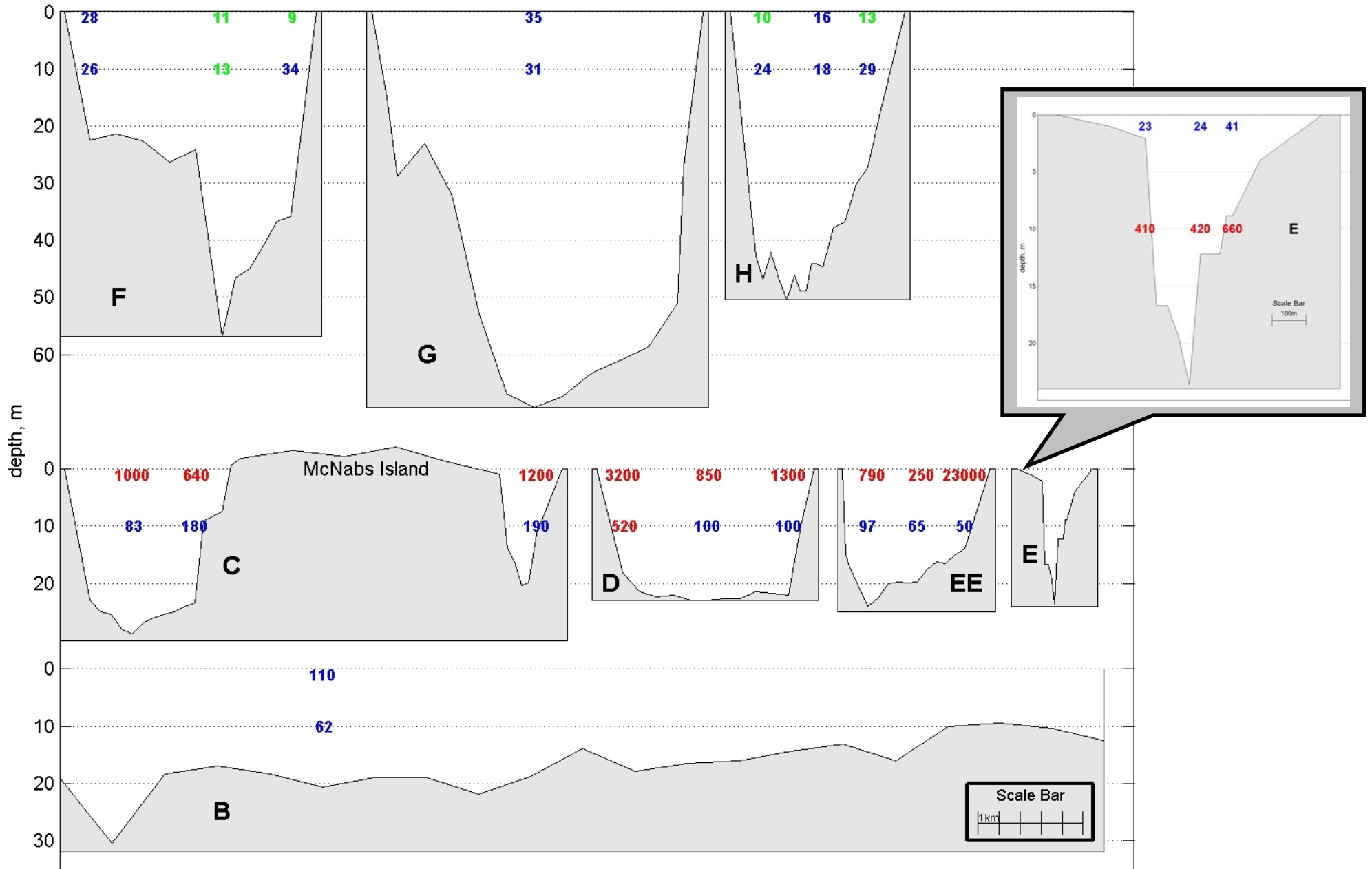
Lead: A single sample (G2-10m) had a value (14 µg/L) greater than EQL (5 µg/L). This value exceeds the Lead guideline of 5.6 µg/L.

NO CTD DATA

Yacht Clubs

NO CTD DATA

Salinity in PSU Temperature in °C

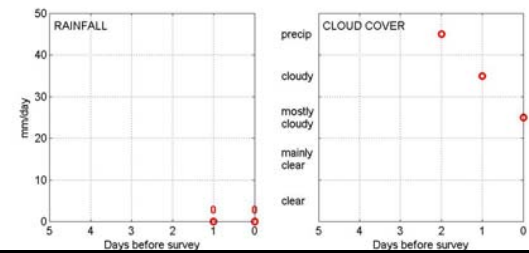
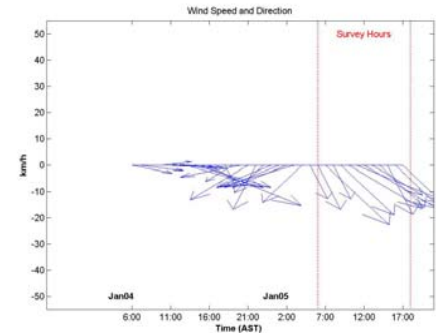
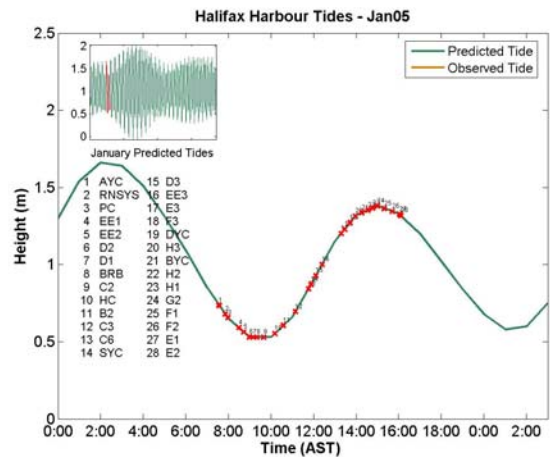
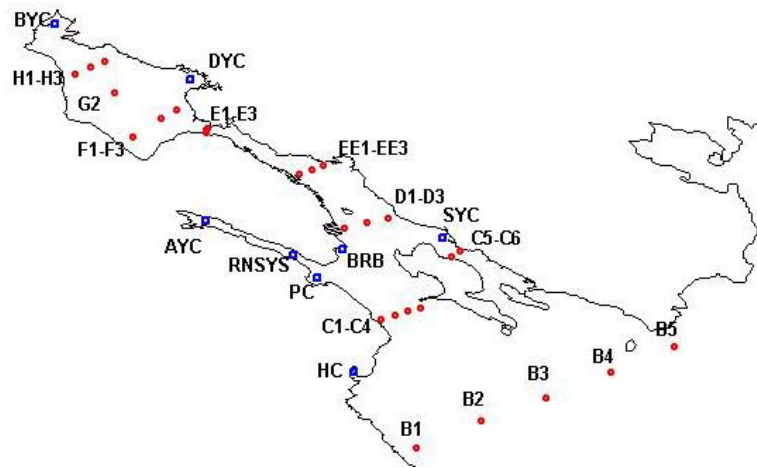


Density in kg/m³

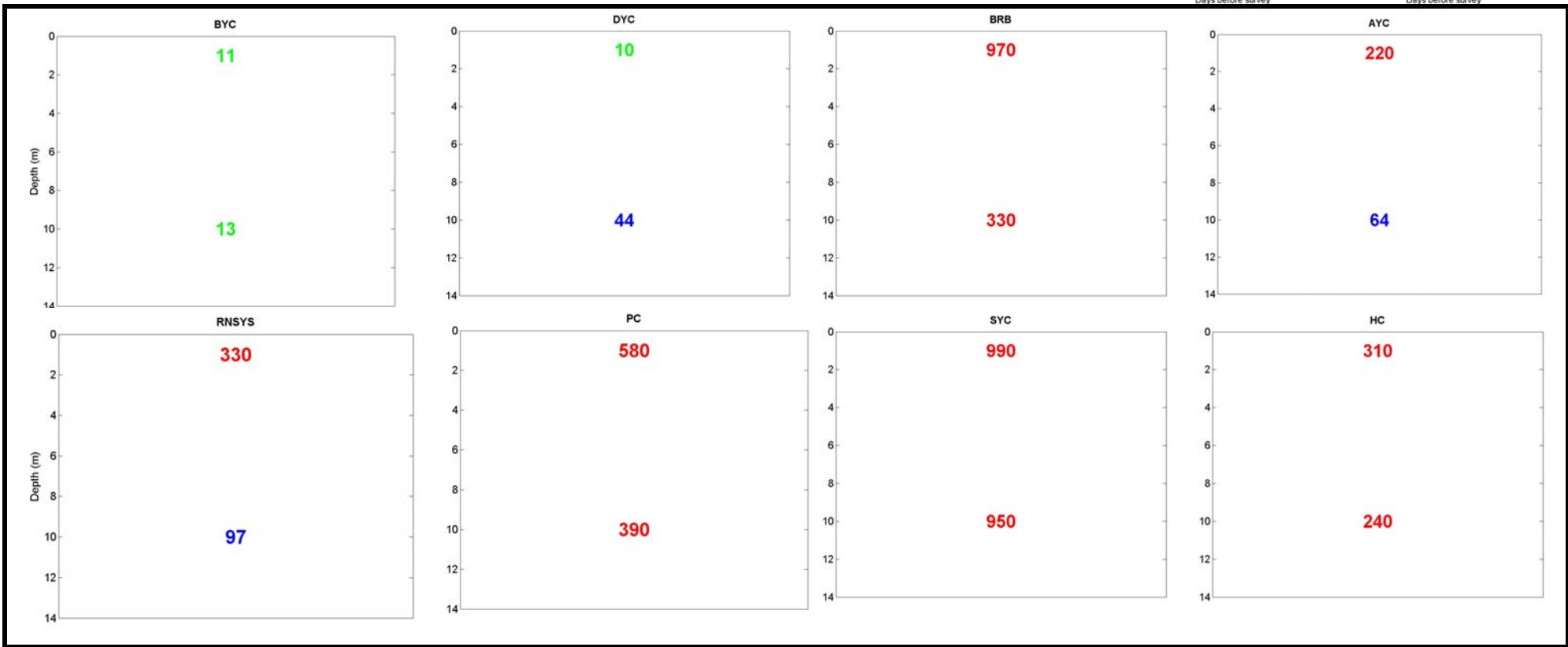
Fecal coliform: below limits

above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)



Yacht Clubs



Density in kg/m³

Fecal coliform: below limits

above shellfish limit (14 cfu/100mL)

above swimming limit (200 cfu/100mL)

NO CTD DATA

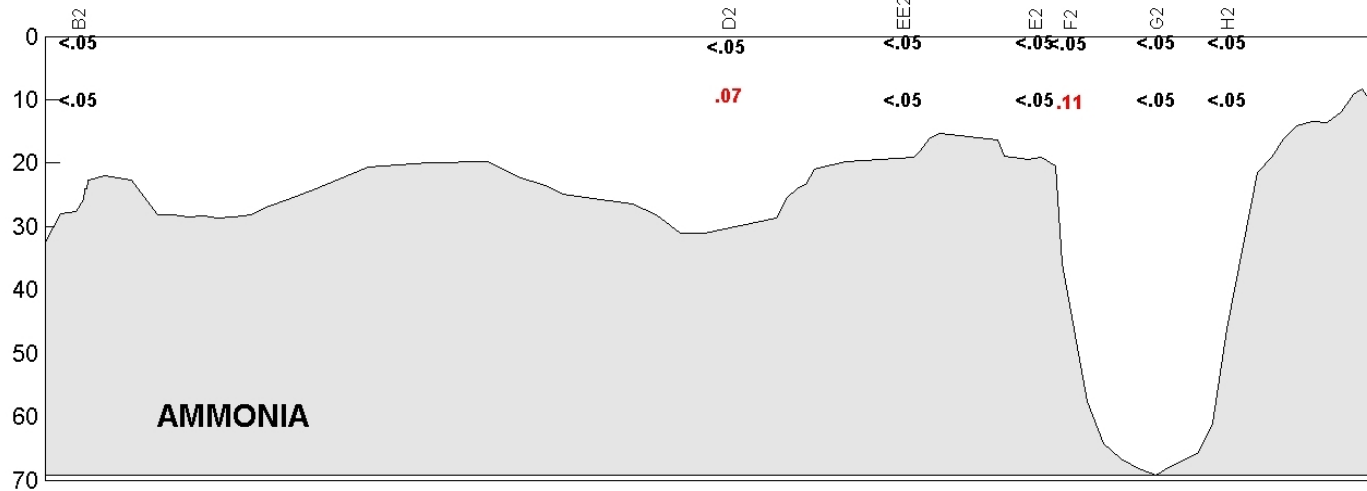
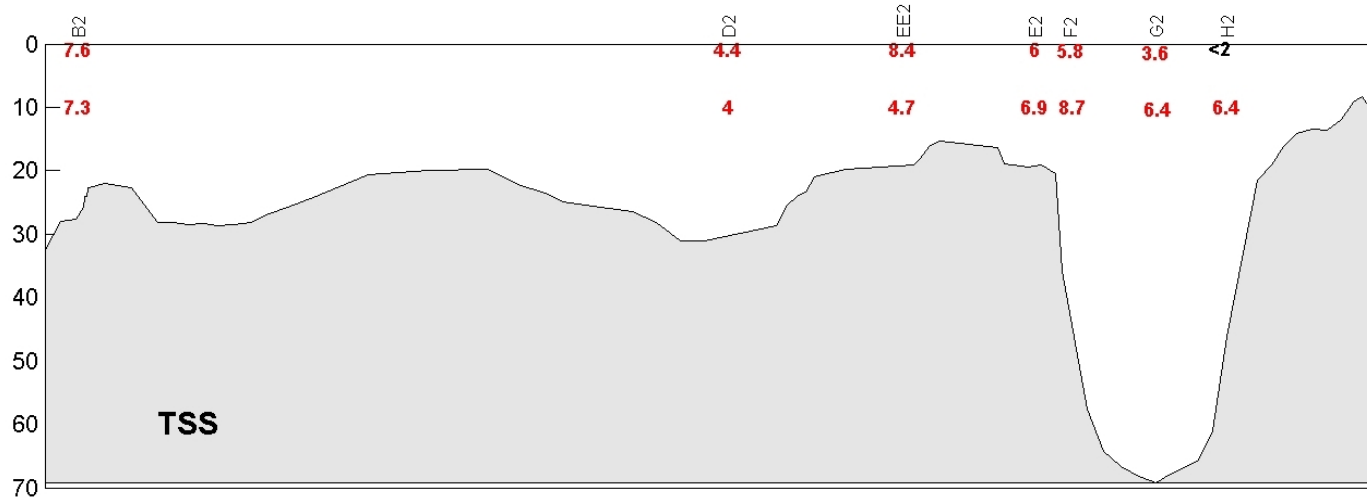
Yacht Clubs

NO CTD DATA

DO in mg/L

Chlorophyll in mg/m³

CHEMISTRY



Density in kg/m³

Ammonia in mg/L

TSS in mg/L

