

**The Continuing State Assessment of the Environmental
Impacts of Operation of the Hart
and Miller Islands Containment Facility**

**Fifth Year Data Report
November 1985 - November 1986**

**Department of Natural Resources
Tidewater Administration
Coastal Resources Division**

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**Project II - Sedimentary Environment
Fifth Year Data Report**

**Department of Natural Resources
Maryland Geological Survey
Coastal and Estuarine Geology**

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PART I: SEDIMENTARY ENVIRONMENT

INTRODUCTION

The data presented in this report are in partial fulfillment of the contract with the State of Maryland to provide a continued assessment of the environmental impacts of construction and operation of the Hart and Miller Island Containment Facility. The data were collected under the Sedimentary Environment Project (Project II) of that contract. The primary objective was to identify the sedimentological and geochemical conditions of the near-surface sedimentary column in the project area.

SAMPLING LOCATIONS

The data presented in this report were collected during the fifth year monitoring of the surficial sediment and core stations established during the initial phase of this project. The stations are shown in Figure 1. The data were collected from two sampling cruises. All field work was performed aboard the R/V Discovery.

The geographical positions of the stations were determined using the Loran-C Navigational System. In the upper Bay, one LORAN-C x time delay (TD) unit equals 260 meters (290 yds) and one y TD unit equals 151 meters (165 yds). Over a given year the variability of the x TD can be up to 0.3 unit and y TD, 0.2 unit. The Loran-C TD and the latitude and longitude of each station are listed in Table 1. Note that for several stations (24, 25, 26, 27 and BC-5) the latitudes and longitudes are different from those reported in previous reports. The latitude and longitude coordinates have been adjusted using a correction factor for the Chesapeake Bay Region when converting from Loran C time delays (X and Y) to geographic coordinates (latitude and longitude; Halka, in prep.). The same Loran TD values have been used during each sampling period for the past three years so the real locations of these stations have not changed.

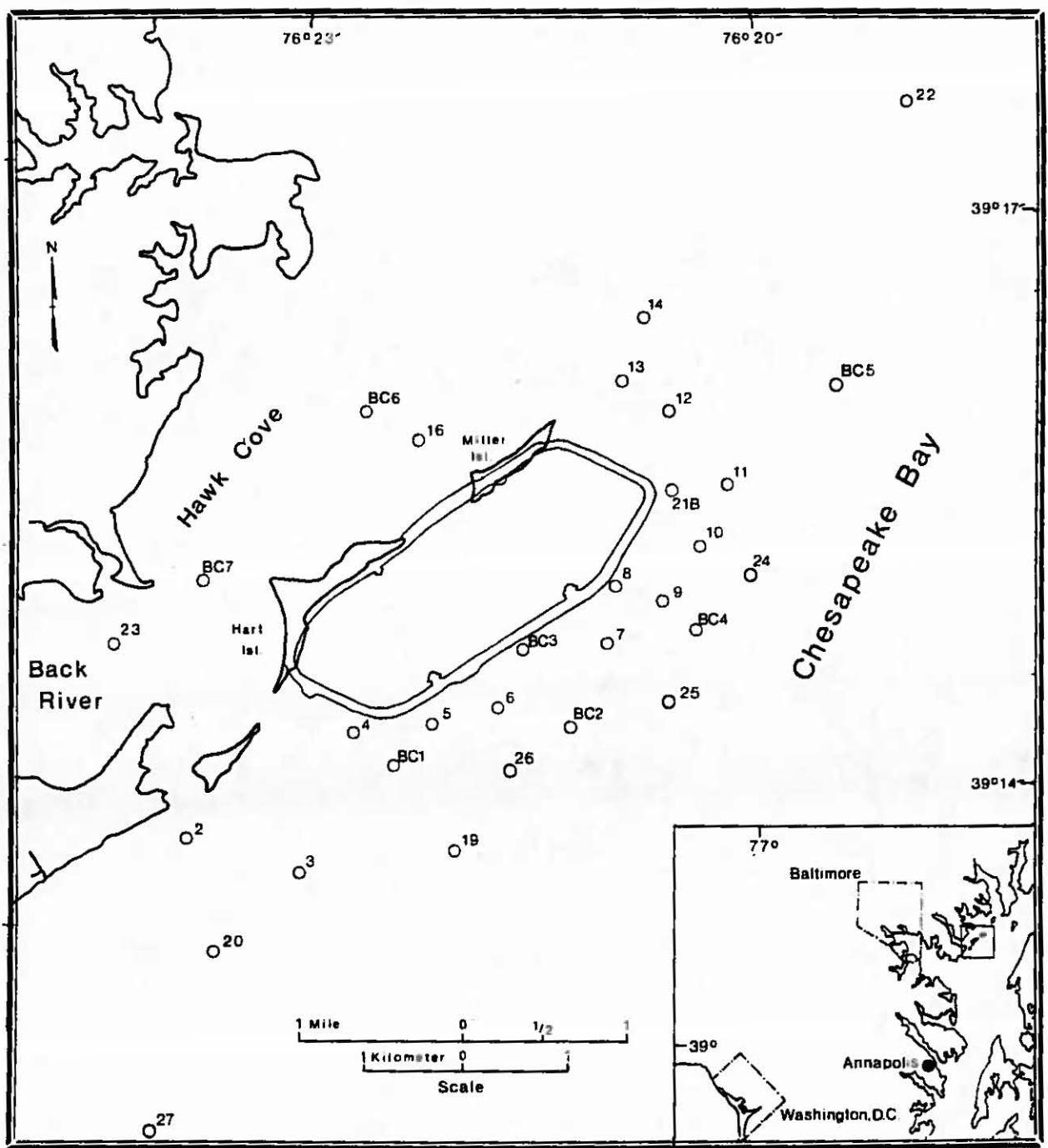


Figure 1. Locations of surficial sediment and core stations.

TABLE 1. LORAN C TIME DELAYS AND LATITUDES AND LONGITUDES OF THE SURFICIAL SEDIMENT STATIONS, AND CORING STATIONS SAMPLED DURING THE FIFTH YEAR STUDY

Station Number	Loran C Time Delays		Latitude(N)	Longitude(W)
	X	Y		
2	27640.8	42888.1	39°13'35.0"	76°23'48.0"
3	27636.5	42886.5	39°13'24.0"	76°22'59.6"
4	27637.2	42895.6	39°14' 8.0"	76°22'38.0"
5	27635.5	42897.0	39°14'12.5"	76°22' 9.0"
6	27633.5	42898.5	39°14'18.5"	76°21'40.0"
7	27630.9	42902.6	39°14'37.0"	76°20'57.0"
8A	27632.3	42906.6	39°14'57.5"	76°20'51.0"
9	27629.9	42905.2	39°14'49.5"	76°20'35.6"
10	27630.1	42909.7	39°15'10.0"	76°20'21.0"
11	27630.2	42913.5	39°15'27.5"	76°20' 9.0"
12	27633.3	42917.2	39°15'51.0"	76°20'31.5"
13	27635.5	42919.7	39°16' 0.0"	76°20'50.0"
14	27636.1	42924.0	39°16'20.0"	76°20'42.0"
16	27641.1	42914.9	39°15'41.0"	76°22'13.5"
19	27632.3	42888.9	39°13'33.0"	76°21'59.0"
20	27638.1	42881.4	39°13' 0.5"	76°23'39.0"
21B	27632.1	42912.9	39°15'27.5"	76°20'31.0"
22	27631.7	42939.2	39°17'29.0"	76°18'54.5"
23	27646.8	42900.6	39°14'36.0"	76°24'14.0"
24*	27629.8	42909.0	39°15' 4.1"	76°20'19.3"
25*	27629.8	42900.4	39°14'23.2"	76°20'49.5"
26*	27633.6	42895.0	39°14' 0.1"	76°21'53.6"
27*	27637.4	42869.7	39°12' 2.7"	76°24' 8.1"

BC-1	27635.7	42894.4	39°14' 1.0"	76°22'21.0"
BC-2	27630.7	42897.7	39°14'12.5"	76°21' 9.0"
BC-3	27633.3	42901.9	39°14'37.0"	76°21'30.0"
BC-4*	27628.4	42904.0	39°14'42.0"	76°20'20.0"
BC-5*	27627.8	42920.1	39°15'55.6"	76°19'16.9"
BC-6	27643.4	42917.1	39°15'51.0"	76°22'34.0"
BC-7	27645.0	42904.6	39°14'56.0"	76°23'38.0"

* Corrected latitude and longitude coordinates - see "Sampling Locations" in this report.

SEDIMENTOLOGICAL PARAMETERS

FIELD METHODS

During the fifth year of monitoring, sampling cruises were conducted in November 1985 and April 1986. During each cruise, surficial sediment samples were collected at 25 locations (see Figure 1).

The surficial sediments were collected using a dip galvanized Van Veen sampler which took an undisturbed sample of the top 8-10 cm of the sediments. One grab sample was taken at each station. At seven stations (Stations 3, 19, 21B, 23, 24, BC-3 and BC-6), where samples for organic contaminants were taken, two grab samples were collected. Two sediment samples, one for textural analysis, the other for trace metal, were collected from one grab and a sediment sample for organic contaminant analysis was taken from the second grab. At three stations adjacent to the northeast sluice gate (Stations 11, 21 and 24), triplicate grab samples were collected for textural and trace metal analysis and for organic contaminant analysis. Upon collection, the lithological description of each sample was noted (Tables 2 and 3) and the sediment samples were placed in 18 oz. "Whirl-pac" bags. The samples designated for textural analysis were stored out of direct sunlight at ambient temperature; the samples designated for trace metal analyses were refrigerated. The samples for organic contaminant analyses were placed in pre-cleaned glass jars and immediately frozen. The jars were delivered to the Water Resources Technical Service Laboratory in Annapolis for analysis.

During the April sampling period, one core was collected at each of the seven BC stations and at station 21B (Figure 1). A ninth core was collected in the approach channel between BC-1 and BC-2, extruded on board, lithologically described, then discarded. The description is listed in Table 4. A Benthos-type gravity corer, model #2171, with clear cellulose acetate butyrate (CAB) liners (diameter of 6.3 cm) was

TABLE 2. FIELD DESCRIPTIONS OF SURFICIAL SEDIMENT SAMPLES COLLECTED NOVEMBER 6, 1985

Station Number	Water Depth	Description
2	9'	Brown medium to fine sand with some mud
3	15'	Dark grey sandy mud; live <u>Rangia cuneata</u>
4	14'	Light brownish with brown and grey streaking; pink smooth mud at 20 cm and mixed with mud throughout
5	18'	Medium grey slightly watery mud, thick layer of floc on top, no shells, about 10 cm down tan smooth mud; oxidized worm burrows, active; plant material
6	16'	Thick layer of shells on top with floc, light grey to tan very smooth mud; some darker grey mud mixed in
7	17'	Grey slightly gritty cohesive mud; shell hash on top and shell fragments throughout; active worm burrows and oxidized worm burrows, floc layer on top
8A	14'	Mixed steel grey, pink and dark grey stiff very smooth mud; some shells; floc layer on top; pockets of dark grey mud; some worms
9	19'	Shells with floc on top, grey cohesive mud, gets darker with depth; worms
10	16'	Dark grey very sandy mud, thin layer of floc on top, live <u>R. cuneata</u>
11	15'	Medium brown sand with live shells (<u>R. cuneata</u> ?) 1st 3 grabs were sand - lost 2; 4th grab: very muddy sand dark grey, reddish brown floc on top; <u>R. cuneata</u> ; 5th grab: mottled green-grey to dark grey; gritty mud; floc on top; live <u>R. cuneata</u>
12	20'	Steel grey and tan smooth stiff mud, gets darker with depth to medium grey mud; lots of shells on top
13	9'	Reddish brown sand, top darker brown (heavy minerals) shells throughout; some pockets of mud
14	13'	Light brown watery mud, gradually turns to medium grey with depth, shells mainly on top
16	10'	Medium grey to light grey slightly gritty mud with floc on top, few shells
19	19'	Dark grey very cohesive mud; oxidized worm tubes (extending down to 10 cm); layer of shell on top (<u>R. cuneata</u>); thick layer of floc on top
20	16'	Greenish-grey cohesive mud with shells
21B	13'	Tan to greyish-tan sand with some shells, live <u>R. cuneata</u> ; many heavy minerals
22	11'	Gritty mud, shells throughout, floc layer on top
23	12'	Medium grey gritty mud; floc layer on top; few shells; streaks of lighter grey mud throughout
24	20'	Greenish grey cohesive mud; lots of shell hash (less than 1 mm in diameter) throughout mud; layer of shells and floc on top
25	19'	Shell layer on top, floc, tannish-grey mud; gradually darkens to medium grey cohesive mud

TABLE 2 (cont.). FIELD DESCRIPTIONS OF SURFICIAL SEDIMENT SAMPLES
COLLECTED NOVEMBER 6, 1985.

Station Number	Depth	Description
26	17'	Greenish-grey lumpy somewhat watery mud; shells; worm tubes on top extending down 3-4 cm; some streaks of pinkish-brown mud?; thick floc layer on top
27	16'	Greenish-grey very cohesive mud; layer of shells on top (<u>R. cuneata?</u>)
BC-3	15'	Light grey to tan, very smooth mud; some darker grey mud mixed in; thick layer of shells on top with floc
BC-6	11'	Medium grey lumpy somewhat cohesive mud, thick floc on top with shells, oxidized worm tubes down to a depth of 5 cm; some plant material; worms

TABLE 3. FIELD DESCRIPTIONS OF SURFICIAL SEDIMENT SAMPLES COLLECTED APRIL 28, 1986

Station Number	Water Depth	Description
2	9'	Dark reddish brown fine sand; grey mud on surface; no shells
3	15.5'	Dark green-grey sandy mud; brown floc on top
4	14.5'	Green-grey smooth cohesive mud; thick section of orange-tan smooth mud (5 cm down); no shells; thin floc layer on top
5	19'	Streaked light grey, smooth mud; surface shell layer; thin layer of floc on surface
6	17.5'	Light grey smooth mud; more cohesive and darker at depth; lots of shells on top, some floc
7	17.5'	Dark grey-greenish mud; lighter burrows; many dead <u>R. cuneata</u>
8A	14.5'	Very sand floc; brownish mud overlying light smooth mud - banded red, orange grey; top layer several cm thick; pockets of sandier sediments
9	19.5'	Dark grey-greenish mud, very dark toward bottom, many shells - some <u>Macoma balthica</u>
10	16'	Very sandy greyish brown, lots of shells, copepods, mature <u>R. cuneata</u>
11	14.5'	Reddish brown sand; shells on surface
12	13.5'	Brown mud over mixture of light and dark grey, smooth mud; stiffer at bottom; lots of shells on top
13	9.5'	Dark brown sandy mud; some shells
14	14'	Smooth medium to dark grey mud; some shells; floc on top
16	11.5'	Dark grey cohesive mud; brown floc on top; few shells
19	18'	Dark grey, stiff mud overlain with thick brown floc containing shells
20	15'	Greenish-grey, somewhat cohesive mud, some shells, mostly in thick floc layer on top; burrows about 10 cm, worms and copepods. Shells several centimeters below surface
21B	14'	Brown sand; lots of shells on surface; first grab sample consisted of sand overlying tan to light brown mud
22	13'	Dark grey cohesive gritty mud; shells on top
23	12.5'	Grey gritty mud; very cohesive; lots of plant material
24	18.5'	Medium grey mud, lot of shells - several species (<u>R. cuneata</u> , <u>M. balthica</u>)
25	19'	Dark greenish-grey mud; many shells
26	17'	Medium grey smooth mud, cohesiveness increases with depth; surface shell layer; slight streaking of light colored clay
27	15.5'	Greenish-grey, cohesive mud; shells (<u>R. cuneata</u>); plant material, copepods, oxidized burrows extending down to 10 cm

TABLE 3 (cont.). FIELD DESCRIPTIONS OF SURFICIAL SEDIMENT SAMPLES
COLLECTED APRIL 28, 1986

Station Number	Water Depth	Description
BC-3	16'	Banded medium light to dark grey mud; some reddish brown smooth mud mixed in; slightly stiffer texture with depth; thin floc layer on top containing many shells
BC-6	12'	Surface shells overlying greenish-grey cohesive mud, some burrows

TABLE 4. VISUAL AND RADIOPHASIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN APRIL, 1986.

Note: All xeroradiographs are negatively enhanced; i.e. - more dense objects/material appear light in the radiograph, less dense material appear darker. Xeroradiographs are included in the Fifth Year Interpretive Report.

Station BC-1

		subsamples	
	interval	texture	trace metals
Date collected:	April 29, 1986		
Water depth:	15 ft	1-3 cm	x
Depth of Penetration:	85 cm	7-11 cm	x
Date X-rayed:	June 24, 1986	14-18 cm	x
		21-25 cm	x
		31-35 cm	x
		50-54 cm	x
		60-64 cm	x
		80-84 cm	x

Visual Observations:

0-1 cm	Medium brown flocculent layer
1-3 cm	Medium grey, very smooth mud
3-21 cm	Light tannish-grey smooth mud with thin laminae of whitish-grey mud and dark grey mud
21-23 cm	Dark grey mud; may contain some coal fragments; disarticulated shell
23-31 cm	Medium grey cohesive mud
31-36 cm	Shell layer; very dark grey to black mud
36-63 cm	Medium grey firm mud; gradually lightens to a medium tannish grey mud
63-85 cm	Slightly darker grey firm mud; homogenous

Radiographic Observations:

0-6 cm	Somewhat reticulated network of burrows
6-27 cm	Very little evidence of bioturbation; series of laminae varying from 2 mm to 5 cm in thickness, disarticulated shell (<u>Rangia</u>) at 22 cm
27-34 cm	Homogenous layer of less dense material (darker shade); network of burrows, several disarticulated shells at base of section
34-39 cm	Shell layer (<u>Rangia cuneata</u>)
39-87 cm	Uniformly mottled structure, (highly bioturbated), remnant of a large burrow extending down to 53 cm, several shell fragments inside burrow

TABLE 4 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN APRIL, 1986.

Station BC-2

		subsamples	
	interval	texture	trace metal
Date collected:	April 29, 1986		
Water depth:	16 ft	0-4 cm	x
Depth of Penetration:	106 cm	28-32 cm	x
Date X-rayed:	June 24, 1986	50-54 cm	x
		94-98 cm	x

Visual Observations:

- 0-11 cm Series of shell layers (R. cuneata); very dark grey, almost black mud, somewhat watery, slight putrid odor
- 11-50 cm Dark grey, very cohesive mud
- 50-51 cm Very dark, almost black, sand, dry (material crumbled when sub-sampled and placed into bag)
- 51-58 cm Very dark grey, almost black, cohesive mud
- 58-105 cm Medium to dark grey, cohesive, homogenous stiff mud, gradually lightens to lighter grey mud at bottom of core

Radiographic Observations:

- 0-10.9 cm Series of shells both articulated and disarticulated, appear to be R. cuneata; larger shells found on surface (top) of core
- 10.9-62 cm Highly reticulated network of burrows (mottled in appearance), occasional disarticulated shells; thin layer of less dense material (darker in shade) at 36 cm; layers of more dense material at 42 cm, 50, 51 and 55 cm

TABLE 4 (cont.). VISUAL AND RADIOPHASIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN APRIL, 1986.

Station BC-3

Date collected:	April 29, 1986	subsamples	
Water depth:	14 ft	textural	trace metal
Depth of Penetration:	93 cm	0-4 cm	x
Date X-rayed:	June 24, 1986	10-14 cm	x
		16-20 cm	x
		22-26 cm	x
		28-32 cm	x
		48-52 cm	x
		88-92 cm	x

Visual Observations:

0-8 cm	Grey-brown smooth mud with dark "pockets" of mud; many shells
8-10 cm	Light grey, smooth mud
10-24 cm	Series of red, brown and grey laminated smooth mud
24-30 cm	Grey to grey brown, more cohesive mud
30-40 cm	Shell layer; mud is dark grey, dryer, cohesive
40-55 cm	Same as overlying section except no shells; gradually lightens to grey-green to grey-brown cohesive mud
55-93 cm	Medium grey to greenish-grey, uniformly cohesive, stiff mud, occasional shell

Radiographic Observations:

0-9 cm	Shell layer; <u>R. cuneata</u> up to 4 cm; matrix material highly reticulated
9-23 cm	Series of thin laminae (some lamina less than 1 mm thick); faint traces of burrows transecting laminae
23-27 cm	Uniformly mottled layer, network of burrows
27-37 cm	Series of shells, both articulated and disarticulated, <u>R. cuneata</u> although some may be <u>Macoma balthica</u> ; shells range in size from .5 cm to 3 cm
37-65 cm	Very highly reticulated (mottled) network of burrows, tunnels, some shells scattered throughout

TABLE 4 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN APRIL, 1986.

Station BC-4

	interval	subsamples textural	trace metal
Date collected:	April 29, 1986		
Water depth:	18 ft	x	x
Depth of Penetration:	98 cm	x	x
Date X-rayed:	June 24, 1986	x	x
	90-94 cm	x	x

Visual Observations:

- 0-1 cm Brown flocculent layer containing shells - R. cuneata
- 1-34 cm Dark grey, very cohesive mud, few shells, top of section contained oxidized burrows
- 34-42 cm Very dark, almost black cohesive mud
- 42-97 cm Cohesive mud, ranging from grey-brown to greenish-grey at bottom; mud gradually "stiffens" down core - otherwise, texture fairly uniform throughout

Radiographic Observations:

- 0-2 cm Surface layer of R. cuneata shells
- 3-66 cm Highly reticulated network of burrows, several burrows are very prominent (at 5 to 15 cm and 45 to 50 cm), filled with much less dense material; shells and shell fragments scattered throughout core; between 10-30 cm, X-rays showed lighter shade of grains (>.5 mm) indicating sand mixed with mud

TABLE 4 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN APRIL, 1986.

Station BC-5

		subsamples		
	interval	textural	trace	metals
Date collected:	April 29, 1986			
Water depth:	8 ft	0-4 cm	x	x
Depth of Penetration:	78 cm	4-8 cm	x	x
Date X-rayed:	June 24, 1986	8-12 cm	x	x
		28-32 cm	x	x
		70-74 cm	x	x

Visual Observations:

0-1 cm	Brown flocculent layer, several live <u>R. cuneata</u>
1-5 cm	Grey to brown watery mud, layer of <u>R. cuneata</u> shells; oxidized burrows extending from flocculent layer down to 5 cm
5-8 cm	Steel grey cohesive mud
8-12 cm	Very dark, almost black mud, layer of small <u>R. cuneata</u> shells
8-78 cm	Uniform texture - dark grey-brown cohesive mud; gradually lightens to medium grey-brown; also "stiffens" down core

Radiographic Observations:

0-63 cm	Highly reticulated network of burrows and tubes producing a uniformly mottled appearance; series of shell layers (<u>R. cuneata</u>) at 3-7 cm, 9-11.5 cm and 14-15 cm; between 7 and 9 cm faint laminae can be seen
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Station BC-6

		subsamples		
	interval	textural	trace	metals
Date collected:	April 29, 1986			
Water depth:	9 ft	0-4 cm	x	x
Depth of Penetration:	79 cm	6-8 cm	x	x
Date X-rayed:	June 24, 1986	28-32 cm	x	x
		70-74 cm	x	x

Visual Observations:

0-1 cm	Brown flocculent mud containing <u>R. cuneata</u> shells
1-10 cm	Dark grey watery mud; some burrows
10-79 cm	Grey-green with some brownish-grey mud, gradually turning to medium blue-grey down core; also mud becomes "stiffer" down core

Radiographic Observations:

0-64 cm	Highly reticulated network of burrows and tubes producing a fairly uniformly mottled appearance, several large <u>R. cuneata</u> at surface
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TABLE 4 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN APRIL, 1986.

Station BC-7

	interval	subsamples textural	trace metals
Date collected: April 29, 1986	0-4 cm	x	x
Water depth: 18 ft	4-8 cm	x	x
Depth of Penetration: 86 cm	32-36 cm	x	x
Date X-rayed: June 24, 1986	37-40 cm	x	x
	78-82 cm	x	x

Visual Observations:

- 0-3 cm Oxidized brown fine grit firm mud; several paper thin small shells (>4 mm); Macoma balthica? which do not show up in X-rays (see below)
- 3-24 cm Firm mud, dryer at top (due to dewatering while in storage); color was grey- brown; gradually changing to dark grey down core
- 24-86 cm Very dark grey, almost black cohesive mud

Radiographic Observations:

- 0-63 cm A network of burrows and tubes increasing in density down core; prominent features include several well-defined u-shaped burrows in the upper 10 cm of the core, several desiccation cracks, thin layer (1 cm) of more dense material at 38-39 cm (layer was not discernible visually). Also small grains were seen in the radiograph indicating the presence of sand grains.

Station 21B

	interval	subsamples textural	trace metals
Date collected: April 29, 1986	0-4 cm	x	x
Water depth: 14 ft	6-10 cm	x	x
Depth of Penetration: 11 cm			
Date X-rayed: June 24, 1986			

Visual Observations:

- 0-2 cm Brown muddy sand, lots of shells, some burrows extending down to 3 cm
- 2-11 cm Light brown, tan sand, several broken shells at 4.5 to 5 cm - thin layer of mud and plant material

Radiographic Observations:

- 0-2 cm Shell layer
- 2-11 cm Uniformly textured material, several burrows and shells, thin broken layer of less dense material at 5-6 cm

TABLE 4 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES
COLLECTED IN APRIL, 1986.

Core location between BC-1 and BC-2 (collected within the approach channel
to the unloading basin)

Date collected: April 29, 1986 Latitude: 39°14' 5.9"
Water depth: 16 ft Longitude: 76°21'43.1"
Depth of Penetration: 124 cm

Visual Observations:

0-2 cm	Brown flocculant layer
2-9 cm	Greyish-green watery smooth mud
9-14 cm	Dark grey almost black mud, some plant fibers, shells
14-34 cm	Dark greenish-grey mud
34-37 cm	Very black mud, shell layer
37-124 cm	Very stiff smooth steel blue to grey mud

(no radiographic observations)

used to collect the cores. Each core was cut and capped at the original level of the sediment-water interface and refrigerated until it was X-rayed and processed in the lab.

Concurrent with the collection of the cores, two bathymetric transects, one from stations BC-1 to BC-2 and the other from BC-3 to BC-4 were surveyed using the Datasonics DFS-210 system to obtain an acoustical profile of the Bay bottom. The boat path for each transect was determined using the Loran-C Navigational System. At specific time intervals the boat's position was noted by recording the Loran TD's and referencing the coordinates to navigational "tic" marks on the Datasonics acoustic record. Locations where cores were collected were referenced in the same manner.

The Loran TD's and the latitude and longitude that define the boat paths for the two transects are given in Table 5.

LABORATORY PROCEDURES

Sediment Analyses

In the laboratory, percent sand, silt, clay, water content and weight-loss due to cleaning were determined for each of the sediment samples. Water content, the first parameter measured, is the percent wet weight, determined by the formula:

$$Wc\% = \frac{\text{weight of water (grams)}}{\text{wet weight of sediment (grams)}} \times 100$$

where the weight of water is the difference between the wet and dry weights of the sediment samples.

The percentages of sand, silt and clay were determined using standard sedimentological procedures. Detailed procedures may be found in Kerhin and others (1983). Briefly, the procedure is as follows. Prior to textural analysis, each sample was cleaned by treatment with hydrochloric acid to remove carbonates (and shells) and then cleaned with hydrogen peroxide to remove organics. Once cleaned, the sediment

TABLE 5. LORAN C TD'S AND LATITUDE AND LONGITUDE COORDINATES DEFINING THE BOAT PATH FOR SUBBOTTOM PROFILING SURVEYS, APRIL 1986

Transect from BC-1 to BC-2 (west to east) (27 kHz acoustic signal used)

tic mark #	Loran C Time Delays		Latitude(N) (corrected)	Longitude(W)
	X	Y		
1	27635.8	42894.7	39°14' 0.1"	76°22'20.9"
BC-1	27635.5	42894.9	39°14' 0.9"	76°22'16.5"
2	27635.4	42895.0	39°14' 1.3"	76°22'15.0"
3	27634.9	42895.1	39°14' 1.5"	76°22' 8.7"
4	27634.5	42895.4	39°14' 2.6"	76°22' 2.9"
5	27634.0	42895.7	39°14' 3.7"	76°21'55.9"
6	27633.6	42896.0	39°14' 4.8"	76°21'50.1"
7*	27633.1	42896.3	39°14' 5.9"	76°21'43.1"
8	27632.7	42896.6	39°14' 7.1"	76°21'37.3"
9	27632.2	42896.9	39°14' 8.2"	76°21'30.3"
10	27631.7	42897.2	39°14' 9.3"	76°21'23.3"
11	27631.2	42897.4	39°14' 9.9"	76°21'16.6"
12	27630.8	42897.7	39°14'11.1"	76°21'10.9"
BC-2	27630.5	42897.7	39°14'10.9"	76°21' 7.3"
14	27630.2	42897.8	39°14'11.2"	76°21' 3.4"

* core collected at this location (middle of approach channel)

Transect from BC-3 to BC-4 (west to east) (27kHz acoustic signal used)

tic mark #	Loran C Time Delays		Latitude(N) (corrected)	Longitude(W)
	X	Y		
BC-3	27633.3	42902.2	39°14'34.1"	76°21'24.7"
2	27632.7	42902.2	39°14'33.7"	76°21'17.6"
3	27632.3	42902.5	39°14'34.8"	76°21'11.8"
4	27631.8	42902.7	39°14'35.5"	76°21' 5.2"
5	27631.4	42902.8	39°14'35.7"	76°21' 0.0"
6	27630.9	42903.0	39°14'36.3"	76°20'53.4"
7	27630.5	42903.1	39°14'36.5"	76°20'48.3"
8	27630.0	42903.4	39°14'37.6"	76°20'41.4"
9	27629.6	42903.7	39°14'38.8"	76°20'35.5"
10	27629.1	42903.8	39°14'38.9"	76°20'29.3"
11	27628.7	42904.0	39°14'39.6"	76°20'23.9"
BC-4	27628.4	42904.3	39°14'40.9"	76°20'19.3"
12	27628.3	42904.3	39°14'40.8"	76°20'18.1"
13	27627.8	42904.4	39°14'40.9"	76°20'11.8"

was wet-sieved through a 62-micrometer mesh sieve to separate the sand fraction from the finer material (see Table 6 for definition of sand, silt and clay).

The fine fraction was then pipetted to determine the silt and clay components. The sediments were classified according to Shepard's (1954) classification based on the percentages of sand, silt and clay (Figure 2).

The dry sediment weights before and after cleaning were calculated. The weight differences were assumed to be an approximation of the amount of carbonates and organics contained in the sediments.

The sand, silt, clay, and water content and weight loss for the sediments are listed in Tables 7 and 8.

Radiographic Techniques

Prior to processing, each core was x-rayed at the Department of Radiography, Johns Hopkins Hospital in Baltimore, using their CTR Kv x-ray unit. A negatively-enhanced x-ray image of the core was obtained by xeroradiographic process. The x-rays are presented in the Fifth Year Interpretive Report.

Each core was then extruded, photographed and lithologically detailed. Sediment samples for textural and trace metal analyses were taken at selected intervals based on radiography and visual observations of each core.

Table 4 lists the visual and radiographic descriptions of the gravity core. The sedimentological parameters of the core sediments are given in Table 9 and results of trace metal analysis are given in Table 10.

Trace Metal Analyses

Sediment solids were analyzed for trace metals using a lithium metaborate fusion technique followed by flame atomic absorption spectrophotometry. This method is

TABLE 6. WENTWORTH SIZE NOMENCLATURE.

Diameter (mm)	Phi (ϕ)	Wentworth Size Class	
Greater than 2.00 mm	>-1.0	Gravel	Gravel
1.00 to 2.00	0.0 to -1.0	Very coarse sand	
0.50 to 1.00	1.0 to 0.0	Coarse sand	
0.25 to 0.50	2.0 to 1.0	Medium sand	Sand
0.125 to 0.25	3.0 to 2.0	Fine sand	
0.0625 to 0.125	4.0 to 3.0	Very fine sand	
0.0039 to 0.0625	8.0 to 4.0	Silt	Mud
less than 0.0039	<8.0	Clay	

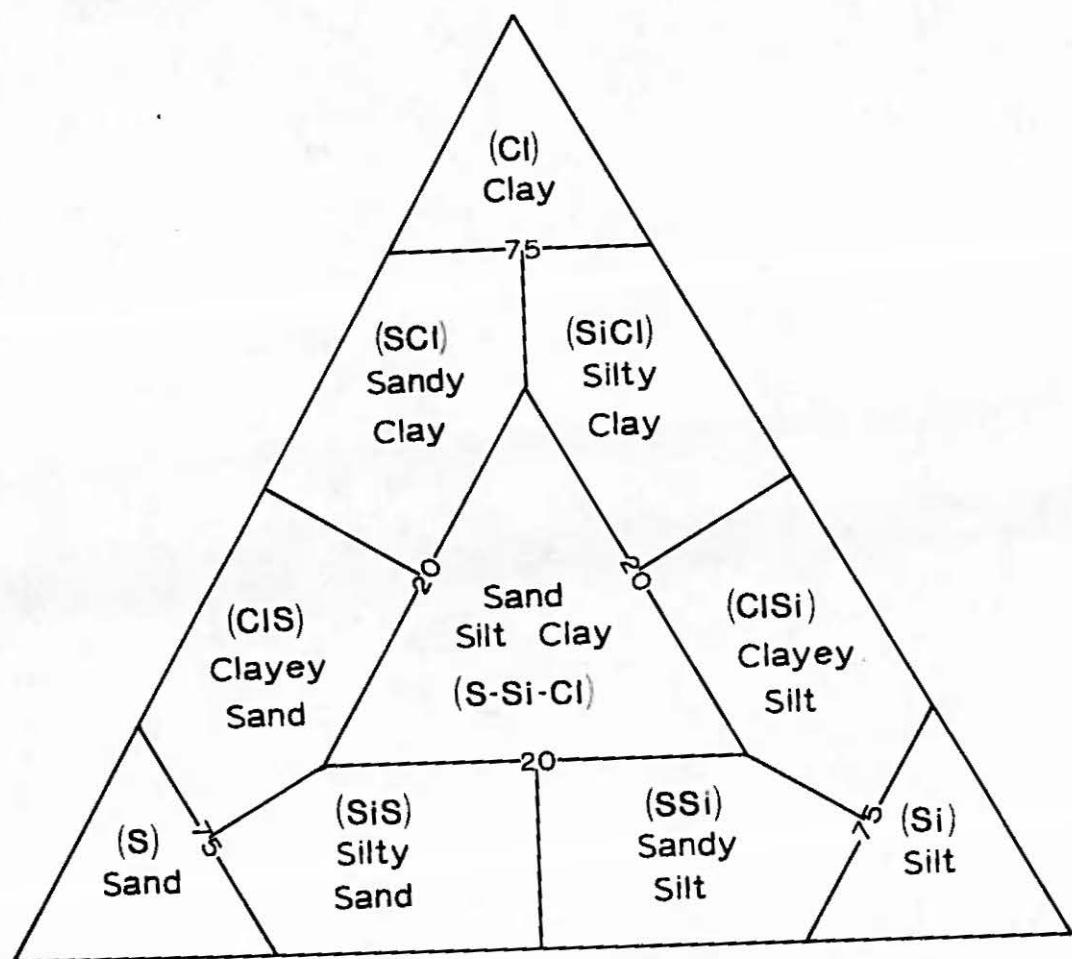


Figure 2. Ternary diagram showing Shepard's (1954) classification of sediment type based on relative percentages of sand, silt and clay components.

TABLE 7. SEDIMENTOLOGICAL PARAMETERS OF SURFICIAL SAMPLES COLLECTED NOVEMBER 6, 1985

Station Number	%Water	%Sand	%Silt	%Clay	Shepard's Class	%Weight loss* after cleaning
2	28.15	96.96	1.52	1.51	S	0.70
3	31.86	75.98	10.12	13.90	S	9.29
4	56.02	2.32	57.41	40.27	C1Si	12.27
5	63.51	2.26	48.42	49.32	SiC1	15.28
6	50.25	2.12	46.73	51.15	SiC1	21.01
7	61.59	2.29	40.08	57.63	SiC1	22.86
8A	40.87	20.31	45.37	34.32	SSiC1	10.68
9	56.00	2.40	38.75	58.86	SiC1	24.86
10	29.09	81.59	7.30	11.11	S	2.91
11 ₁ trip-	19.71	95.59	1.68	2.73	S	4.35
11 ₂ licate	25.46	85.05	5.86	9.09	S	8.67
11 ₃	44.80	52.33	18.54	29.14	C1S	14.27
12	32.43	36.93	42.45	20.62	SSiC1	5.66
13	18.14	96.29	1.73	1.98	S	5.13
14	62.61	1.13	45.91	52.97	SiC1	19.81
16	40.43	52.13	24.38	23.49	SSiC1	12.87
19	59.09	0.51	39.44	60.06	SiC1	16.99
20	60.40	1.97	39.23	58.81	SiC1	19.81
21B ₁ trip-	24.26	97.28	1.14	1.58	S	3.49
21B ₂ licate	19.70	96.57	1.66	1.77	S	4.28
21B ₃	21.62	97.22	1.61	1.17	S	4.02
22	44.71	58.90	19.15	21.95	C1S	13.28
23	45.99	42.49	33.86	23.65	SSiC1	10.76
24 ₁ trip-	45.54	48.22	22.29	29.50	SSiC1	28.20
24 ₂ licate	51.86	25.76	29.94	44.31	SSiC1	28.70
24 ₃	56.54	9.28	37.66	53.06	SiC1	26.66
25	60.68	1.71	41.38	56.91	SiC1	23.24
26	61.61	1.28	40.30	58.43	SiC1	25.27
27	58.11	2.38	38.02	59.60	SiC1	29.00
BC-3	52.51	7.90	54.81	37.30	C1Si	12.42
BC-6	58.76	1.57	37.98	60.45	SiC1	34.07

* Weight loss approximates organic and carbonate content in sample

TABLE 8. SEDIMENTOLOGICAL PARAMETERS OF SURFICIAL SAMPLES COLLECTED
APRIL 28, 1986

Station Number	% Water	% Sand	% Silt	% Clay	Shepard's Class	% Weight loss* after cleaning
2	28.69	93.56	3.16	3.28	S	1.96
3	44.11	59.93	14.32	25.75	C1S	24.95
4	63.44	3.35	46.30	50.35	SiC1	9.01
5	62.18	4.33	32.47	63.20	SiC1	19.20
6	58.05	0.96	40.78	58.26	SiC1	26.62
7	66.35	3.31	37.14	59.54	SiC1	10.08
8A	47.42	59.00	25.19	15.81	S1S	-
9	64.46	2.94	32.30	64.76	SiC1	18.99
10	25.42	91.86	2.30	5.84	S	22.41
11 ₁	20.37	94.64	2.72	2.64	S	15.21
11 ₂	13.95	98.45	0.75	0.80	S	28.62
11 ₃	19.72	97.36	1.25	1.39	S	1.55
12	39.51	43.80	32.22	23.98	SSiC1	23.40
13	18.08	98.16	1.00	0.84	S	1.95
14	68.07	1.13	43.54	55.33	SiC1	15.48
16	57.17	18.36	40.26	41.39	SiC1	10.16
19	62.27	0.62	36.67	62.72	SiC1	26.09
20	65.11	37.61	24.50	37.90	SSiC1	-
21B ₁	28.39	38.51	45.06	16.43	SS1	3.04
21B ₂	25.82	95.63	2.68	1.69	S	-
21B ₃	20.84	-	-	-	-	-
22	40.40	62.41	16.16	21.43	C1S	10.43
23	54.54	49.93	27.81	22.26	SSiC1	1.10
24 ₁	60.23	14.20	36.11	49.69	SiC1	18.38
24 ₂	51.83	54.45	17.49	28.06	C1S	26.34
24 ₃	44.18	57.24	15.84	26.92	C1S	13.16
25	59.21	2.14	34.67	63.19	SiC1	33.20
26	63.91	4.41	37.90	57.69	SiC1	12.68
27	64.77	3.17	36.95	58.87	SiC1	25.54
BC-3 ₁	64.06	6.25	53.11	40.64	C1Si	1.06
BC-3 ₂	59.98	5.80	47.75	46.45	C1Si	15.90
BC-3 ₃	61.99	4.19	48.55	47.26	C1Si	9.50
BC-6 ₁	54.96	2.31	35.06	62.63	SiC1	47.51
BC-6 ₂	64.45	2.13	35.48	62.39	SiC1	21.79
BC-6 ₃	63.05	1.72	35.21	63.07	SiC1	32.77

* Weight loss approximates organic and carbonate content in sample

TABLE 9. HART-MILLER ISLAND - SEDIMENTOLOGICAL PARAMETERS OF SAMPLES TAKEN FROM CORES COLLECTED APRIL, 1986.

Core Number	Interval	% Water	% Sand	% Silt	% Clay	Shepard's Class	% Weight loss
BC-1	0-3 cm	55.46	1.22	50.71	48.06	C1Si	16.66
	7-11 cm	39.66	0.84	53.03	46.13	C1Si	11.73
	14-18 cm	44.68	0.29	49.21	50.50	S1C1	18.41
	21-25 cm	56.55	0.63	37.07	62.30	S1C1	23.45
	31-35 cm	59.53	7.83	36.90	55.27	S1C1	24.57
	50-54 cm	53.36	5.86	37.17	56.97	S1C1	19.32
	60-64 cm	60.04	3.68	39.73	56.58	S1C1	23.49
	80-84 cm	60.73	4.44	42.23	53.32	S1C1	24.21
BC-2	0-4 cm	61.81	2.66	37.63	59.71	S1C1	27.70
	28-32 cm	57.13	2.15	34.21	63.64	S1C1	26.34
	50-54 cm	58.96	1.17	36.90	61.93	S1C1	16.43
	94-98 cm	60.12	1.78	34.70	63.52	S1C1	19.28
BC-3	0-4 cm	-	9.39	49.82	40.80	C1Si	-
	10-14 cm	-	9.53	62.08	28.39	C1Si	-
	16-20 cm	39.24	1.92	55.65	42.43	C1Si	17.07
	22-26 cm	56.20	1.87	47.12	51.01	S1C1	9.16
	28-32 cm	58.45	4.20	37.29	58.51	S1C1	32.31
	48-52 cm	51.00	5.13	40.02	54.85	S1C1	18.87
	88-92 cm	61.46	2.91	39.22	57.88	S1C1	18.92
BC-4	0-4 cm	61.56	3.02	40.27	56.71	S1C1	13.38
	34-38 cm	60.20	1.28	32.22	66.50	S1C1	10.39
	56-60 cm	61.15	1.72	39.90	58.38	S1C1	11.85
	90-94 cm	61.22	1.64	40.45	57.91	S1C1	11.99
BC-5 <i>XIF6386</i>	0-4 cm	63.09	3.13	32.60	64.27	S1C1	16.96
	4-8 cm	63.92	3.39	35.72	60.89	S1C1	7.80
	8-10 cm	65.87	2.09	40.05	57.86	S1C1	14.48
	28-32 cm	56.72	2.30	43.28	54.42	S1C1	9.21
	70-74 cm	61.07	1.71	39.13	59.16	S1C1	9.98
BC-6	0-4 cm	65.08	3.51	34.70	61.79	S1C1	13.15
	6-10 cm	59.36	5.94	44.54	49.52	S1C1	23.60
	28-32 cm	63.08	1.93	51.66	46.41	C1Si	-
	70-74 cm	64.35	2.72	35.82	61.46	S1C1	11.61
BC-7	0-4 cm	54.53	4.73	38.00	57.28	S1C1	37.77
	4-8 cm	53.98	4.33	52.35	43.32	C1Si	12.08
	32-36 cm	69.78	4.51	45.25	50.24	S1C1	17.45
	37-40 cm	66.67	1.85	44.69	53.47	S1C1	15.79
	78-82 cm	69.73	3.07	43.87	53.06	S1C1	16.65
21-B	0-4 cm	19.14	94.03	3.71	2.26	S	1.57
	6-10 cm	20.05	98.72	0.90	0.38	S	1.72

TABLE 10. TRACE METAL ANALYSIS OF SEDIMENT SAMPLES TAKEN FROM GRAVITY CORES COLLECTED IN APRIL, 1986.

Sample Number (Core #)	Depth Interval (cm)	Trace metal concentrations in sediment (dry wt)					
		Cr $\mu\text{g/g}$	Cu $\mu\text{g/g}$	Fe wt %	Mn $\mu\text{g/g}$	Ni $\mu\text{g/g}$	Zn $\mu\text{g/g}$
BC-1 <i>4/29/86</i>	0-3	106.7	39.1	2.58	810.5	50.5	109.5
	7-11	88.1	28.7	2.39	276.5	32.9	75.9
	14-18	101.7	28.7	2.77	373.1	32.9	83.3
	21-25	112.0	28.7	4.17	1055.5	50.5	162.8
	31-35	128.4	60.1	5.82	2656.7	121.4	508.8
	50-54	96.1	28.7	5.02	1426.8	68.2	117.2
	60-64	95.2	18.3	5.09	1228.3	32.9	113.4
	80-84	95.2	18.2	5.15	1178.4	32.9	109.5
BC-2 <i>4/29/86</i>	0-4	126.0	70.6	6.09	1699.5	103.6	378.1
	28-32	107.6	81.1	5.89	2048.8	103.6	300.4
	50-54	95.2	49.6	5.69	2351.1	85.9	189.8
	94-98	91.2	18.3	5.49	1179.0	32.9	109.6
BC-3 <i>OK</i>	0-4	94.4	39.1	6.09	1624.0	68.2	228.8
	10-14	90.9	28.7	5.49	543.0	32.9	102.1
	16-20	85.1	28.7	6.16	349.1	32.9	75.9
	22-26	96.6	39.1	6.64	1923.5	68.2	213.1
	28-32	108.0	49.6	4.96	1849.3	85.9	349.3
	48-52	92.7	70.6	4.82	1624.8	103.6	308.6
	88-92	76.7	18.2	4.62	1178.4	32.9	113.3
BC-4 <i>OK</i>	0-4	89.4	60.1	5.28	4075.0	103.6	478.6
	34-38	85.4	18.2	4.95	1648.9	32.9	117.1
	56-60	78.5	18.3	4.69	1203.7	32.9	109.6
	90-94	78.0	18.2	4.36	1276.4	15.3	109.5
BC-5	0-4	87.4	39.1	4.76	2782.7	68.2	296.4
	4-8	85.8	28.7	4.82	1973.6	85.9	217.0
	8-10	95.0	70.6	5.02	4973.3	85.9	457.4
	28-32	70.5	60.1	5.09	1798.4	68.2	213.1
	70-74	76.8	bd1	4.69	1080.6	68.2	113.4
BC-6	0-4	100.8	70.6	4.82	1351.8	121.4	386.4
	6-10	122.3	70.5	4.95	1276.4	68.1	260.2
	28-32	112.6	18.3	5.29	1624.8	32.9	109.6
	70-74	118.8	28.7	5.42	2024.7	50.6	113.4
BC-7	0-4	152.5	60.1	4.10	1203.7	50.6	272.5
	4-8	154.1	60.1	4.23	786.5	68.2	296.5
	32-36	177.6	81.0	4.75	883.4	103.5	423.5
	37-40	177.3	81.1	5.02	1105.2	156.9	466.1
	78-82	189.3	81.1	4.82	1031.4	139.1	457.6

TABLE 10 (cont.). TRACE METAL ANALYSIS OF SEDIMENT SAMPLES TAKEN FROM GRAVITY CORES COLLECTED IN APRIL, 1986.

Sample Number (Core #)	Depth Interval (cm)	Trace metal concentrations in sediment (dry wt)					
		Cr μg/g	Cu μg/g	Fe wt %	Mn μg/g	Ni μg/g	Zn μg/g
21B	0-4	33.0	bdl*	0.52	907.9	15.3	35.4
	6-10	20.1	bdl	0.35	421.9	15.4	28.1
Detection Limit		1.0	<15.0	<0.25	MISSING	<20.0	<20.0

* bdl - below detection limit

similar to the method used by Sinex et al. (1980; 1981) and Cantillo (1982), on sediments throughout the entire Chesapeake Bay region. The method is based on the work of Suhr and Ingamells (1966) who developed the fusion technique for whole rock analysis. Details of the sample handling and preparation procedures used by the MGS laboratory are as follows:

- 1) Samples were homogenized in the "Whirl-Pac" bags in which they were stored (refrigerated at 4°);
- 2) Approximately 10 g of wet sample were drawn into a modified "Leur-Loc" syringe fitted with a 1.25 mm polyethylene screen (used to remove shall material and large pieces of detritus);
- 3) Sieved samples were disaggregated in high-purity water and dried in teflon evaporating dishes at 110°C overnight;
- 4) The dried samples were then hand-ground in an agate mortar and pestle, and stored in "Whirl-Pac" bags;
- 5) Samples were weighed (0.2000 ± 0.0002 g) into a depression formed in LiBO₂ (1.00 ± 0.01 g) at the bottom of drill-point graphite crucibles (7.8 cc vol.);
- 6) These crucibles were placed in a highly regulated muffle furnace at $1050 \pm 5^\circ\text{C}$ for 30 min.;
- 7) The molten beads produced were poured directly into teflon beakers, containing 100 ml of a solution composed of 4% HNO₃, 1000 ppm La (from La(NO₃)₃) and 2000 ppm Cs (from CsNO₃), and stirred for 10 min. (if dissolution did not occur after 30 min., the solution and beads were thrown out and the sample re-fused), and;
- 8) The dissolved samples were transferred to CPE bottles and stored for analysis.

All surfaces which came in contact with the samples were acid washed (3 days 1:1 HNO₃,

3 days 1:1 HCl), rinsed six times in high purity water (<5 Mohms) and stored in high purity water until use.

The dissolved samples were analyzed using the method of bracketing standards and standard F.A.A.S. settings (Emmel et al. 1970). A standard curve was run every 11 samples. Blanks were run every 12 samples, and National Bureau of Standards Reference Material #1646 (Estuarine Sediment) was run every 24 samples. The results of the trace metal analyses for the surficial sediments and core samples are given in Tables 10, 11, and 12.

PART II: BEACH EROSION STUDY

INTRODUCTION

The Maryland Geological Survey has been conducting an assessment of the erosional problems affecting the recreational beach between Hart and Miller Islands. The primary objective of the study is to evaluate the stability of the beach and identify the erosional-depositional processes acting on the beach.

FIELD METHODS

The beach and nearshore profile lines are basically the same as those used in preceding reports (Figure 3). Because elevations in this report are referenced to a datum plane (mean low water) traditionally reported in feet, all linear measurements are given in feet, instead of metric units. This year the accuracy of the location of the profile lines was improved. The starting point was the benchmark at station 30+00 located 14.57 feet above mlw, approximately 22 feet east from the centerline of the dike roadway. Each station along the centerline was measured with a steel tape in 100-foot increments. At each established profile line a 1-foot steel spike was implanted in the centerline of the dike roadway. The head of the spike was put in flush with the road surface and then painted with orange paint for easy identification. To establish the same profile line down the face of the recreational

TABLE 11. TRACE METAL ANALYSIS OF SURFICIAL SEDIMENT SAMPLES COLLECTED NOVEMBER 1985.

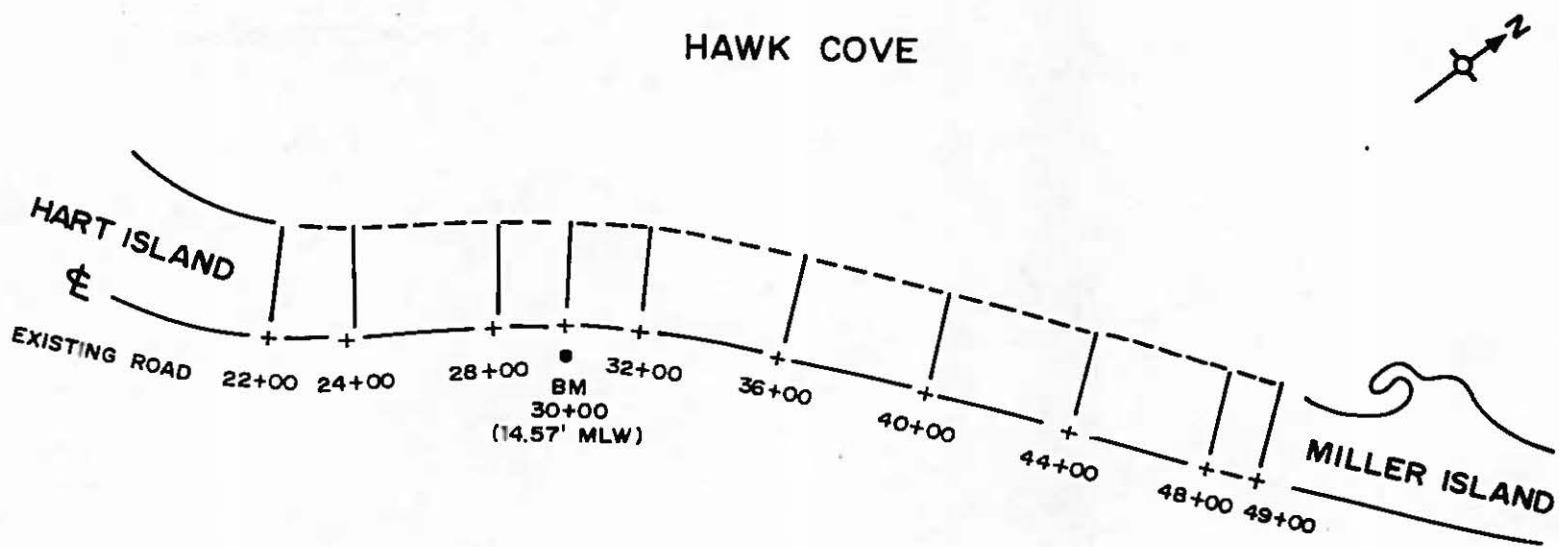
Sample Number	Trace metal concentrations in sediment (dry wt.)					
	Cr μg/g	Cu μg/g	Fe wt %	Mn μg/g	Ni μg/g	Zn μg/g
2	bdl*	bdl	0.3	734.0	8.0	28.1
3	43.9	bdl	1.7	1503.5	39.7	123.0
4	118.7	17.6	3.8	1672.7	71.4	230.3
5	142.6	25.3	4.3	2911.0	71.4	267.1
6	94.4	bdl	3.9	817.4	71.4	131.9
7	142.5	41.2	4.8	2390.1	103.0	313.3
8A	94.4	17.6	3.0	568.5	55.6	114.3
9	118.7	41.2	4.8	1978.7	87.2	322.7
10	69.5	bdl	1.3	833.6	23.9	105.5
11 ₁	not analyzed					
11 ₂	43.9	bdl	1.0	387.1	55.5	53.6
11 ₃	69.5	bdl	3.0	1521.2	55.6	230.4
12	43.9	bdl	2.6	519.0	55.6	105.5
13	17.8	bdl	0.4	1960.7	8.0	28.1
14	142.5	25.3	4.5	2979.3	71.4	276.2
16	94.4	17.6	2.8	767.6	39.7	167.3
19	142.6	25.3	4.8	3701.7	103.0	248.7
20	142.4	33.2	5.1	3964.2	71.4	294.5
21B ₁	bdl	bdl	0.4	568.5	8.0	19.6
21B ₂	bdl	bdl	0.4	750.2	23.8	11.2
21B ₃	bdl	bdl	0.1	108.7	bdl	28.1
22	118.8	bdl	2.4	1000.6	39.7	167.3
23	118.7	bdl	2.6	1016.3	39.7	203.0
24 ₁	69.4	bdl	3.3	2148.6	39.7	203.0
24 ₂	142.5	17.6	4.3	2029.9	55.6	230.3
24 ₃	118.7	25.3	4.7	4216.1	55.6	285.4
25	118.7	33.2	5.3	1927.6	103.0	341.5
26	142.6	41.2	5.0	3684.0	71.4	230.4
27	165.7	49.4	6.1	4234.1	134.5	486.0
BC-3	69.5	bdl	3.6	1351.9	39.7	185.1
BC-6	142.5	33.2	5.2	1419.2	87.2	248.6
Detection Limit	3.0	2.9	0.01	2.7	8.0	0.5

*bdl - below detection limit

TABLE 12. TRACE METAL ANALYSIS OF SURFICIAL SEDIMENT SAMPLES COLLECTED APRIL, 1986.

Sample Number	Trace metal concentrations in sediment (dry wt.)					
	Cr μg/g	Cu μg/g	Fe wt %	Mn μg/g	Ni μg/g	Zn μg/g
2	20.8	5.1	0.76	1121.1	37.5	120.0
3	20.8	15.2	1.54	1038.1	26.0	163.0
4	20.8	35.3	4.06	1971.6	60.9	275.5
5	82.9	25.3	4.69	2980.7	60.9	186.3
6	144.5	35.3	4.02	1572.5	84.4	176.3
7	124.0	45.3	4.82	2285.8	96.2	261.4
8A	41.6	15.2	1.58	758.5	26.0	65.1
9	124.0	45.3	4.98	1970.6	84.4	285.8
10	bdl*	5.1	0.93	619.3	37.5	52.4
11 ₁	bdl	bdl	0.41	453.3	bdl	24.1
11 ₂	bdl	5.1	0.41	564.8	bdl	30.4
11 ₃	20.8	bdl	0.50	508.8	14.4	24.1
12	41.6	15.2	2.36	1178.3	37.6	116.8
13	bdl	bdl	0.33	1150.3	bdl	27.2
14	82.9	45.3	4.56	4101.2	60.9	244.1
16	103.4	35.3	3.72	953.7	60.9	216.8
19	103.4	65.2	5.02	5733.2	108.0	282.1
20	165.0	55.3	5.16	5524.1	108.1	278.9
21B ₁	bdl	15.2	0.98	953.2	25.9	46.1
21B ₂	bdl	bdl	0.46	731.1	26.0	30.4
21B ₃	bdl	15.2	0.74	730.7	14.4	30.4
22	82.9	35.3	2.57	1038.6	37.6	136.6
23	82.9	55.3	2.78	758.5	49.2	199.8
24 ₁	82.9	65.3	4.65	2836.5	84.4	258.1
24 ₂	62.3	35.3	2.53	1488.4	49.2	143.1
24 ₃	bdl	25.3	2.49	1630.0	37.6	149.7
25	103.5	85.0	5.16	2373.3	84.4	275.5
26	103.5	65.3	4.86	4733.4	96.2	227.1
27	124.1	75.2	5.82	5769.7	120.0	407.6
BC-3 ₁	103.4	55.3	3.93	2372.1	37.6	193.1
BC-3 ₂	82.9	45.3	3.98	2575.4	60.9	234.0
BC-3 ₃	124.0	35.3	3.97	2027.8	72.6	233.8
BC-6 ₁	124.0	65.3	5.03	1460.1	72.6	314.1
BC-6 ₂	103.4	75.1	5.02	1317.7	155.7	282.1
BC-6 ₃	123.9	65.2	4.98	1289.5	108.0	327.9
Detection Limit	4.2	1.7	0.04	83.3	8.3	3.3

*bdl - below detection limit



PROFILE LOCATIONS – RECREATIONAL BEACH

SCALE
0 400 Feet

Figure 3. Recreational beach on the Hart-Miller Islands dike structure, showing locations of the profile lines.

beach, an azimuth was picked that was approximately perpendicular to the centerline of the roadway (Table 13). The point where the profile line crossed the steel wire fence was marked.

The location of each profile station was then referenced to the benchmark in the following manner. A theodolite was set up over the benchmark and a baseline from the benchmark to the lighthouse near Pleasure Island was established (Figure 4). The angle between the baseline and each profile station was recorded (Table 14).

Beach profiling surveys were conducted four times during this study year: December 1985, April 1986, June 1986, and September 1986. The profiling measurements were made by the benchmark leveling method of surveying, using a self-leveling transit; providing accuracy to 0.1 foot (3 cm). Before and after the recreational beach was regraded, beach sediment samples were collected along each profile at 50' intervals and/or at changes in slope.

Distance and elevation data from each survey are given in Table 15.

Laboratory Methods

Beach sediment samples were processed using the same method as described earlier in this chapter (Sediment Analysis). Percent gravel, sand, silt and clay were obtained and are listed in Tables 16 and 17.

TABLE 13. AZIMUTHS FOR PROFILE LINES.

<u>Station</u>	<u>Az (°)</u>
22+00	328
24+00	325
28+00	325
30+00	320
32+00	330
36+00	340
40+00	340
44+00	340
48+00	344
49+00	344

TABLE 14. ANGLE BETWEEN ESTABLISHED BASELINE AND PROFILING STATION.

<u>Station</u>	<u>Angle</u>
22+00	5° 11'
24+00	4° 44'
28+00	8° 52'
30+00	97° 26'
32+00	181° 41'
36+00	191° 28'
40+00	194° 36'
44+00	195° 58'
48+00	196° 43'
49+00	196° 51'

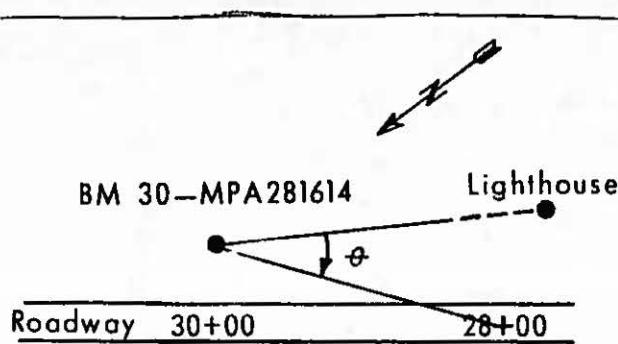


Figure 4. Established Baseline

TABLE 15. DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
12/10/85	22+00	CL	-	17.77
		1	52	13.94
		2	106	10.39
		3	154	7.81
		4	202	5.72
		5	246	2.59
		6	288	0.72
		7	320	-0.83
	24+00	CL	-	17.71
		1	52	14.02
		2	102	10.66
		3	154	7.69
		4	226	3.86
		5	256	1.63
		6	278	0.37
		7	318	-0.75
	28+00	CL	-	17.73
		1	50	13.51
		2	100	10.52
		3	164	6.47
		4	170	4.69
		5	190	3.94
		6	210	1.60
		7	236	0.33
	30+00	CL	-	17.66
		1	52	15.10
		2	104	11.19
		3	156	6.36
		4	160	4.91
		5	184	3.88
		6	210	1.56
		7	232	0.18
		8	274	-0.77
				Error 0.00

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
12/10/85	32+00	CL	-	17.76
		1	54	14.86
		2	102	11.97
		3	156	6.89
		4	164	4.96
		5	178	4.01
		6	186	2.44
		7	210	1.04
		8	254	-0.56
				Error +0.01
12/11/85	36+00	CL	-	17.74
		1	52	13.87
		2	104	11.54
		3	176	6.95
		4	180	4.95
		5	200	3.85
		6	248	0.16
		7	300	-0.82
	40+00	CL	-	17.60
		1	52	14.76
		2	104	11.68
		3	154	8.92
		4	188	5.53
		5	208	4.00
		6	212	2.70
		7	260	0.15
		8	304	-0.83
	44+00	CL	-	17.84
		1	52	14.62
		2	104	11.22
		3	160	5.80
		4	180	4.03
		5	182	2.63
		6	230	0.18
		7	288	-0.87

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
12/11/85	48+00	CL	-	17.91
		1	54	16.47
		2	102	10.79
		3	134	6.49
		4	136	5.56
		5	142	4.59
		6	146	2.85
		7	192	0.03
		8	248	-0.79
4/7/86	49+00	CL	-	18.01
		1	52	15.72
		2	108	12.16
		3	152	6.47
		4	156	5.23
		5	180	2.11
		6	216	0.01
		7	270	-1.03
				Error +0.02
4/7/86	22+00	CL	-	17.86
		1	50	14.16
		2	100	10.75
		3	150	8.20
		4	200	6.10
		5	202	5.90
		6	212	4.58
		7	240	3.58
		8	248	2.39
		9	280	0.70
		10	328	-0.80
4/7/86	24+00	CL	-	17.78
		1	50	14.03
		2	100	10.89
		3	150	8.07
		4	200	5.10
		5	234	3.58
		6	250	1.74
		7	268	0.64
		8	320	-0.69

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
4/7/86	28+00	CL	-	17.76
		1	50	13.65
		2	100	10.60
		3	150	7.53
		4	164	6.54
		5	170	4.77
		6	190	3.36
		7	200	2.32
		8	228	0.32
		9	270	-0.53
4/8/86	30+00	CL	-	17.82
		1	50	14.99
		2	100	11.54
		3	150	6.32
		4	152	5.95
		5	158	4.65
		6	180	3.79
		7	182	2.94
		8	200	1.77
		9	210	0.57
		10	270	-0.73
				Error +0.04
4/8/86	32+00	CL	-	17.74
		1	50	15.07
		2	100	11.93
		3	150	8.04
		4	154	7.28
		5	164	4.41
		6	176	3.91
		7	182	2.73
		8	206	1.33
		9	250	-0.64
4/8/86	36+00	CL	-	17.72
		1	50	14.17
		2	100	11.67
		3	150	9.03
		4	172	7.17
		5	188	3.99
		6	198	3.76
		7	204	2.73
		8	234	1.11
		9	294	-0.79

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
4/8/86	40+00	CL	-	17.71
		1	50	14.97
		2	100	11.83
		3	150	9.38
		4	184	6.44
		5	192	4.80
		6	196	4.95
		7	200	3.97
		8	204	3.85
		9	212	2.78
		10	238	1.16
		11	300	-0.66
44+00	44+00	CL	-	17.89
		1	50	14.72
		2	100	11.51
		3	150	7.19
		4	164	4.65
		5	174	3.96
		6	176	2.90
		7	200	1.23
		8	212	0.99
		9	270	-0.57
48+00	48+00	CL	-	17.91
		1	50	16.67
		2	100	11.39
		3	132	7.20
		4	138	5.18
		5	142	4.74
		6	144	3.05
		7	150	2.25
		8	180	0.82
		9	252	-0.83
49+00	49+00	CL	-	18.02
		1	50	15.93
		2	100	12.25
		3	150	7.17
		4	160	5.99
		5	170	4.75
		6	174	4.30
		7	176	2.97
		8	200	1.18
		9	300	-1.25
				Error +0.04

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
6/24/86	22+00	CL	-	17.86
		1	50	14.18
		2	100	10.74
		3	150	8.03
		4	200	5.95
		5	246	2.79
		6	276	1.04
		7	300	-0.63
	24+00	CL	-	17.77
		1	50	13.96
		2	100	10.90
		3	150	8.04
		4	200	4.99
		5	230	2.67
		6	260	1.07
		7	282	-0.61
	28+00	CL	-	17.74
		1	50	13.62
		2	98	10.60
		3	150	7.51
		4	194	2.69
		5	220	1.51
		6	240	-0.74
	30+00	CL	-	17.80
		1	48	14.96
		2	100	11.35
		3	148	6.03
		4	184	2.87
		5	200	1.86
		6	220	-0.11
		Error	+0.04	
	32+00	CL	-	17.73
		1	50	15.06
		2	100	11.90
		3	152	7.96
		4	184	3.10
		5	202	1.04
		6	220	-0.70
		Error	+0.00	

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
6/25/86	36+00	CL	-	17.72
		1	50	14.04
		2	100	11.63
		3	150	9.16
		4	172	7.28
		5	200	3.46
		6	210	2.73
		7	228	1.10
		8	270	-0.77
	40+00	CL	-	17.68
		1	50	14.83
		2	100	11.66
		3	152	9.20
		4	190	5.06
		5	200	4.23
		6	218	2.99
		7	234	1.03
		8	288	-0.73
	44+00	CL	-	17.82
		1	50	14.64
		2	100	11.41
		3	152	7.28
		4	168	4.47
		5	194	2.97
		6	208	0.90
		7	274	-0.78
	48+00	CL	-	17.87
		1	50	16.62
		2	98	11.20
		3	124	8.24
		4	148	3.36
		5	172	0.83
		6	222	-0.63
	49+00	CL	-	18.00
		1	50	15.78
		2	100	12.40
		3	148	6.82
		4	190	2.25
		5	200	0.70
		6	264	-0.80
Error +0.01				

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
9/15/86	22+00	CL	-	17.85
		1	50	14.13
		2	100	10.73
		3	148	8.09
		4	200	5.93
		5	248	2.37
		6	268	2.03
		7	278	0.34
		8	324	-0.79
	24+00	CL	-	17.74
		1	50	13.91
		2	100	10.83
		3	150	8.06
		4	200	4.94
		5	230	2.64
		6	250	2.17
		7	260	1.45
		8	320	-0.78
	28+00	CL	-	17.74
		1	50	13.59
		2	100	10.52
		3	148	7.48
		4	158	6.85
		5	180	3.61
		6	198	2.62
		7	208	2.32
		8	224	0.76
	30+00	CL	-	17.77
		1	50	14.92
		2	100	11.22
		3	152	5.70
		4	158	4.83
		5	200	2.09
		6	208	0.75
		7	240	-0.52
Error 0.00				

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
9/15/86	32+00	CL	-	17.75
		1	50	15.00
		2	100	11.91
		3	150	7.51
		4	182	2.82
		5	196	2.17
		6	202	1.47
		7	250	-0.79
9/18/86	36+00	CL	-	17.69
		1	50	14.06
		2	100	11.62
		3	150	9.09
		4	168	7.00
		5	200	3.24
		6	220	2.44
		7	232	0.70
		8	280	-0.78
				Error 0.00
9/18/86	40+00	CL	-	17.70
		1	50	14.76
		2	100	11.62
		3	148	9.20
		4	200	4.30
		5	220	2.28
		6	230	1.08
		7	264	-0.76
9/18/86	44+00	CL	-	17.83
		1	50	14.55
		2	100	11.33
		3	148	7.23
		4	220	1.01
		5	250	-0.58
9/18/86	48+00	CL	-	17.86
		1	50	16.59
		2	100	11.09
		3	148	3.87
		4	156	2.71
		5	180	0.71
		6	230	-0.79

* Mean Low Water (MLW) datum

TABLE 15 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE OF DIKE ROADWAY (ft)	ELEVATION (FT)*
9/18/86	49+00	CL	-	17.97
		1	50	15.83
		2	100	12.36
		3	146	6.78
		4	200	0.76
		5	290	-1.04
				Error -0.02

* Mean Low Water (MLW) data

TABLE 16 TEXTURAL PARAMETERS OF HART-MILLER ISLAND RECREATIONAL BEACH SEDIMENT SAMPLES COLLECTED DURING THE APRIL 7 & 8, 1986 PROFILING SURVEY (BEFORE BEACH REGRADING).

Profile Number	Stadia Station	Dist. ¹ (ft)	Elev. ² (ft)	Percent			Sand Description ³
				Gravel	Sand	Silt/Clay (Mud)	
22+00	1	50	14.86	12.19	75.15	12.66	Fine to medium sand
	2	100	10.75	13.51	76.08	10.41	Very fine to very coarse sand
	3	150	8.20	1.34	93.30	5.36	Fine to coarse sand
	4	200	6.10	12.34	77.07	10.59	Fine to very coarse sand
	5	202	5.90	14.06	80.25	5.69	Fine to very coarse sand
	6	212	4.58	1.72	86.52	11.76	Fine to medium sand
	7	240	3.58	0	99.71	0.29	Well sorted fine sand
	8	248	2.39	3.43	95.91	0.66	Coarse to very coarse sand
	9	280	0.70	0	99.85	0.15	Fine to very coarse sand
24+00	1	50	14.03	6.55	89.20	4.24	Fine to medium sand
	2	100	10.89	3.48	90.82	5.71	Fine to medium sand
	3	150	8.07	7.76	89.70	2.54	Fine to coarse sand
	4	200	5.10	10.64	84.95	4.41	Fine to coarse sand
	5	224	3.58	0.11	99.51	0.38	Medium to coarse sand
	6	250	1.74	0	99.88	0.12	Medium sand
	7	268	0.64	0	99.87	0.13	Medium to coarse sand
28+00	1	50	13.65	12.50	80.98	6.52	Fine to medium sand
	2	100	10.60	11.38	83.43	5.20	Fine to medium sand
	3	150	7.53	19.92	74.37	6.94	Fine to medium sand with gravel
	4	164	6.54	12.86	82.03	5.11	Fine to coarse sand
	5	170	4.77	0.19	79.74	20.07	Fine to medium sand
	6	190	3.36	0	98.63	1.37	Very fine to medium sand
	7	200	2.32	0	99.68	0.32	Fine to medium sand
	8	228	0.32	0.55	99.30	0.15	Coarse to very coarse sand

¹ Distances are from centerline of roadway

² MLW datum

³ Wentworth size nomenclature - See Table 6

TABLE 16 (cont.). TEXTURAL PARAMETERS OF HART-MILLER ISLAND RECREATIONAL BEACH SEDIMENT SAMPLES COLLECTED DURING THE APRIL 7 & 8, 1986 PROFILING SURVEY (BEFORE BEACH REGRADING).

Profile Number	Stadia Station	Dist. ¹ (ft)	Elev. ² (ft)	Percent			Sand Description ³
				Gravel	Sand	Silt/Clay (Mud)	
30+00	1	50	14.99	8.32	79.90	11.78	Very fine to medium sand
	2	100	11.54	14.07	72.62	13.30	Fine to very fine sand
	3	150	6.32	10.43	79.41	10.16	Fine to medium sand
	4	152	5.95	1.59	84.07	14.34	Fine to medium sand
	5	158	4.65	1.73	95.60	2.73	Medium to coarse sand
	6	180	3.79	3.33	95.55	1.43	Fine sand
	7	182	2.94	1.92	93.88	4.20	Fine to medium sand
	8	200	1.77	0	99.48	0.52	Fine to medium sand
	9	210	0.57	0	99.84	0.16	Fine to medium sand
32+00	1	50	15.07	11.51	76.63	11.86	Fine sand
	2	100	11.93	21.49	70.29	8.22	Fine to coarse sand with gravel
	3	150	8.04	14.00	76.95	9.04	Very fine to medium sand
	4	154	7.28	1.38	87.50	11.13	Fine to coarse sand
	5	164	4.41	0.77	97.98	1.55	Fine to very coarse sand
	6	176	3.91	3.36	94.68	1.96	Fine to coarse sand
	7	182	2.73	0	99.69	0.31	Very fine to fine sand
	8	206	1.33	0	99.87	0.13	Fine to medium sand
36+00	1	50	14.17	17.09	76.28	6.63	Very fine to medium sand
	2	100	11.67	4.59	88.85	6.56	Fine sand
	3	150	9.03	19.05	73.48	7.47	Fine to medium sand
	4	172	7.17	16.82	74.87	8.30	Fine to medium sand
	5	188	3.99	1.56	93.57	6.88	Fine to medium sand
	6	198	3.76	23.61	66.98	9.42	Fine to medium sand
	7	204	2.73	0	99.78	0.22	Fine to medium sand
	8	234	1.11	0	99.74	0.26	Fine to medium sand

¹ Distances are from centerline of roadway

² MLW datum

³ Wentworth size nomenclature - See Table 6

TABLE 16 (cont.). TEXTURAL PARAMETERS OF HART-MILLER ISLAND RECREATIONAL BEACH SEDIMENT SAMPLES COLLECTED DURING THE APRIL 7 & 8, 1986 PROFILING SURVEY (BEFORE BEACH REGRADING).

Profile Number	Stadia Station	Dist. ¹ (ft)	Elev. ² (ft)	Percent			Sand Description ³
				Gravel	Sand	Silt/Clay (Mud)	
40+00	1	50	14.97	5.52	87.49	6.99	Fine sand
	2	100	11.83	60.31	33.61	6.09	Very fine to fine sand
	3	148	9.38	7.44	86.52	6.04	Fine to medium sand
	4	184	6.44	11.62	81.27	7.10	Very fine to coarse sand
	5	192	4.80	1.38	97.11	1.51	Fine to coarse sand
	6	196	4.95	-	-	-	-
	7	200	3.97	0	99.72	0.28	Medium sand
	8	204	3.85	1.11	97.61	1.28	Fine to medium sand
	9	212	2.78	0	99.79	0.21	Fine sand
	10	238	1.16	0	99.80	0.20	Fine sand
44+00	1	50	14.72	25.51	68.85	5.54	Fine to coarse sand
	2	100	11.51	4.78	84.46	10.76	Fine to medium sand
	3	148	7.19	16.74	77.07	6.20	Fine sand
	4	164	4.65	1.30	94.61	4.09	Fine to medium sand
	5	174	3.96	0	77.18	22.82	Very fine to fine sand
	6	176	2.90	0	53.41	46.59	Very fine sand
	7	200	1.23	0	99.71	0.29	Medium sand
	8	212	0.99	0	98.62	1.38	Fine to medium sand
48+00	1	50	16.67	12.39	77.52	10.09	Fine to coarse sand
	2	100	11.39	25.09	66.10	8.82	Fine to medium sand with gravel
	3	132	7.20	7.03	84.62	8.35	Very fine to fine sand
	4	138	5.18	3.42	93.09	3.49	Fine to medium sand
	5	142	4.74	1.38	97.66	0.96	Fine to very coarse sand
	6	144	3.05	2.29	94.39	3.32	Fine to coarse sand
	7	150	2.25	0	99.85	0.15	Medium sand
	8	180	0.82	23.24	76.76	0.29	Medium to very coarse sand

¹ Distances are from centerline of roadway

² MLW datum

³ Wentworth size nomenclature - See Table 6

TABLE 16 (cont.). TEXTURAL PARAMETERS OF HART-MILLER ISLAND RECREATIONAL BEACH SEDIMENT SAMPLES COLLECTED DURING THE APRIL 7 & 8, 1986 PROFILING SURVEY (BEFORE BEACH REGRADING).

Profile Number	Stadia Station	Dist. ¹ (ft)	Elev. ² (ft)	Percent			Sand Description ³ (Mud)
				Gravel	Sand	Silt/Clay	
49+00	1	50	15.93	9.57	82.98	7.45	Very fine to coarse sand
	2	100	12.25	25.41	64.39	10.20	Very fine to very coarse sand with gravel
	3	150	7.17	20.63	71.56	7.81	Very fine to fine sand with gravel
	4	160	5.99	0	99.84	0.16	Medium sand
	5	170	4.75	17.37	81.81	0.82	Fine to very coarse sand
	6	174	4.30	28.94	62.32	8.74	Fine to coarse sand with gravel
	7	176	2.97	0	99.66	0.34	Very fine to medium sand
	8	200	1.18	0	99.67	0.33	Medium sand

¹Distances are from centerline of roadway

²MLW datum

³Wentworth size nomenclature - See Table 6

TABLE 17. TEXTURAL PARAMETERS OF HART-MILLER ISLAND RECREATIONAL BEACH SEDIMENT SAMPLES COLLECTED DURING THE JUNE 24-25, 1986 PROFILING SURVEY (AFTER BEACH REGRADING).

Profile Number	Stadia Station	Dist. ¹ (ft)	Elev. ² (ft)	Percent			Sand Description ³
				Gravel	Sand	Silt/Clay (Mud)	
22+00	1	50	14.18	3.00	91.46	5.53	Fine to medium sand
	2	100	10.74	32.69	64.65	2.66	Fine to coarse sand with gravel
	3	150	8.03	2.00	94.17	3.83	Fine to coarse sand
	4	200	5.95	2.91	88.95	8.15	Fine to very coarse sand
	5	246	2.79	5.78	93.78	0.44	Medium to very coarse sand
	6	276	1.04	0	99.44	0.56	Medium sand
24+00	1	50	13.96	1.35	96.01	2.54	Fine to medium sand
	2	100	10.90	1.44	94.47	4.09	Very fine to medium sand
	3	150	8.04	2.26	94.16	3.58	Very fine to medium sand
	4	200	4.99	0.30	99.28	0.42	Fine to medium sand
	5	230	2.67	4.00	92.13	3.86	Very fine to medium sand
	6	260	1.07	0.32	99.50	0.50	Fine to very coarse sand
28+00	1	50	13.62	0.26	95.71	4.03	Very fine to fine sand
	2	98	10.60	1.41	95.86	2.73	Very fine to medium sand
	3	150	7.51	11.89	81.98	6.13	Very fine to fine sand
	4	194	2.69	0.08	99.09	0.83	Very fine to medium sand
	5	220	1.51	0.70	98.09	1.21	Fine to coarse sand
30+00	1	48	14.96	0.45	93.13	6.41	Very fine to fine sand
	2	100	11.35	0.28	90.07	9.65	Very fine to fine sand
	3	148	6.03	1.23	91.50	7.26	Very fine to fine sand
	4	184	2.87	0	99.38	0.62	Very fine to medium sand
	5	200	1.86	0	99.84	0.16	Medium to coarse sand

¹ Distances are from centerline of roadway

² MLW datum

³ Wentworth size nomenclature - See Table 6

TABLE 17 (cont.). TEXTURAL PARAMETERS OF HART-MILLER ISLAND RECREATIONAL BEACH SEDIMENT SAMPLES COLLECTED DURING THE JUNE 24-25, 1986 PROFILING SURVEY (AFTER BEACH REGRADING).

Profile Number	Stadia Station	Dist. ¹ (ft)	Elev. ² (ft)	Percent			Sand Description ³
				Gravel	Sand	Silt/Clay (Mud)	
32+00	1	50	15.06	10.01	86.64	3.35	Very fine to medium sand
	2	100	11.90	1.18	93.77	5.05	Very fine to coarse sand
	3	152	7.96	4.08	92.16	3.76	Fine to coarse sand
	4	184	3.10	1.70	96.60	1.70	Fine to coarse sand
	5	202	1.04	0	99.89	0.11	Fine to medium sand
36+00	1	50	14.04	19.98	73.70	6.32	Very fine to fine sand
	2	100	11.63	17.47	76.30	6.23	Very fine to medium sand
	3	150	9.16	11.94	81.50	6.56	Very fine to medium sand
	4	172	7.28	1.04	92.14	6.82	Very fine to medium sand
	5	200	3.46	2.24	90.41	7.35	Fine to coarse sand
	6	210	2.73	0	99.88	0.12	Fine sand
	7	228	1.10	0.12	99.69	0.19	Fine to medium sand
40+00	1	50	14.83	24.22	69.04	6.74	Very fine to medium sand
	2	100	11.66	8.20	86.61	5.19	Very fine to fine sand
	3	152	9.20	36.37	59.00	5.63	Very fine to medium sand
	4	190	5.06	0.93	95.55	3.52	Fine to coarse sand
	5	200	4.23	0.38	94.41	5.21	Fine to medium sand
	6	218	2.99	0	99.86	0.14	Fine sand
	7	234	1.03	0	99.89	0.11	Fine to medium sand
44+00	1	50	14.64	18.00	75.34	6.66	Very fine to medium sand
	2	100	11.41	23.00	71.03	5.97	Fine to coarse sand
	3	152	7.28	9.00	62.74	28.26	Very fine to coarse sand
	4	168	4.47	2.00	91.10	6.90	Fine to coarse sand
	5	194	2.97	0	99.76	0.24	Fine sand
	6	208	0.90	0.82	98.94	0.24	Fine to coarse sand

¹ Distances are from centerline of roadway

² MLW datum

³ Wentworth size nomenclature - See Table 6

TABLE 17 (cont.). TEXTURAL PARAMETERS OF HART-MILLER ISLAND RECREATIONAL BEACH SEDIMENT SAMPLES COLLECTED DURING THE JUNE 24-25, 1986 PROFILING SURVEY (AFTER BEACH REGRADING).

Profile Number	Stadia Station	Dist. ¹ (ft)	Elev. ² (ft)	Percent			Sand Description ³
				Gravel	Sand	Silt/Clay (Mud)	
48+00	1	50	16.62	26.00	68.42	5.58	Fine to very coarse sand
	2	98	11.20	21.43	76.74	1.83	Fine to very coarse sand
	3	124	8.24	27.90	64.80	7.30	Fine to very coarse sand
	4	148	3.36	0	97.02	2.98	Fine to medium sand
	5	172	0.83	0	99.81	0.19	Medium sand
49+00	1	50	15.78	34.00	59.05	6.95	Fine to very coarse sand with gravel
	2	100	12.40	27.00	66.33	6.66	Very fine to very coarse sand
	3	148	6.82	41.00	52.48	6.52	Very fine to very coarse sand with gravel
	4	190	2.25	0	99.25	0.75	Medium sand
	5	200	0.70	0.42	99.51	0.07	Coarse to very coarse sand

¹ Distances are from centerline of roadway

² MLW datum

³ Wentworth size nomenclature - See Table 6

Project III - Biota

Benthic Data Report

University of Maryland, CEES-CBL

BENTHIC DATA REPORT

Benthic populations were sampled three times during this fifth consecutive year of monitoring. The sampling was done on December 10-11 1985; April 7-8 1986; and August 4-5 1986.

Sampling stations (Figure 1) were located with radar and LORAN-C navigational instruments. Depths and bottom profiles were recorded by a fathometer. Water temperatures and salinities were taken during each cruise by means of an induction salinometer. Nearfield infaunal stations, labeled S1 through S6, were located 90 m from the containment wall, while stations S7 and S8 were located 180 m from the wall. Reference stations for the infaunal samples were prefaced HM, and located outside any likely influence from the containment facility. At each station, three replicate grabs were taken by means of a 0.05 m Ponar grab. Each replicate was field-washed separately on a 0.7 millimeter screen. The material on the screen was fixed in 10% formalin and, later, in the laboratory, transferred to 70% ethyl alcohol. On microscopic examination of the samples, each organism was removed, identified and enumerated.

The epifaunal samples (R1 through R4) were taken from pilings located 25 meters from the dike. Each sample consisted of about 100 cm² of material scraped from the permanent pilings near the containment wall. Samples at each station were collected from 1 m below the water surface and also at 3 m depth. An epifaunal reference station (R5) was located on a navigational beacon at the entrance of the Pleasure Island channel. Due to the colonial nature of most organisms in these epifaunal samples, three estimates of abundance were made instead of counts of individuals. These estimates were (1) very abundant; (2) abundant; and (3) present. Other pertinent information on individual stations are presented on the accompanying data sheets.

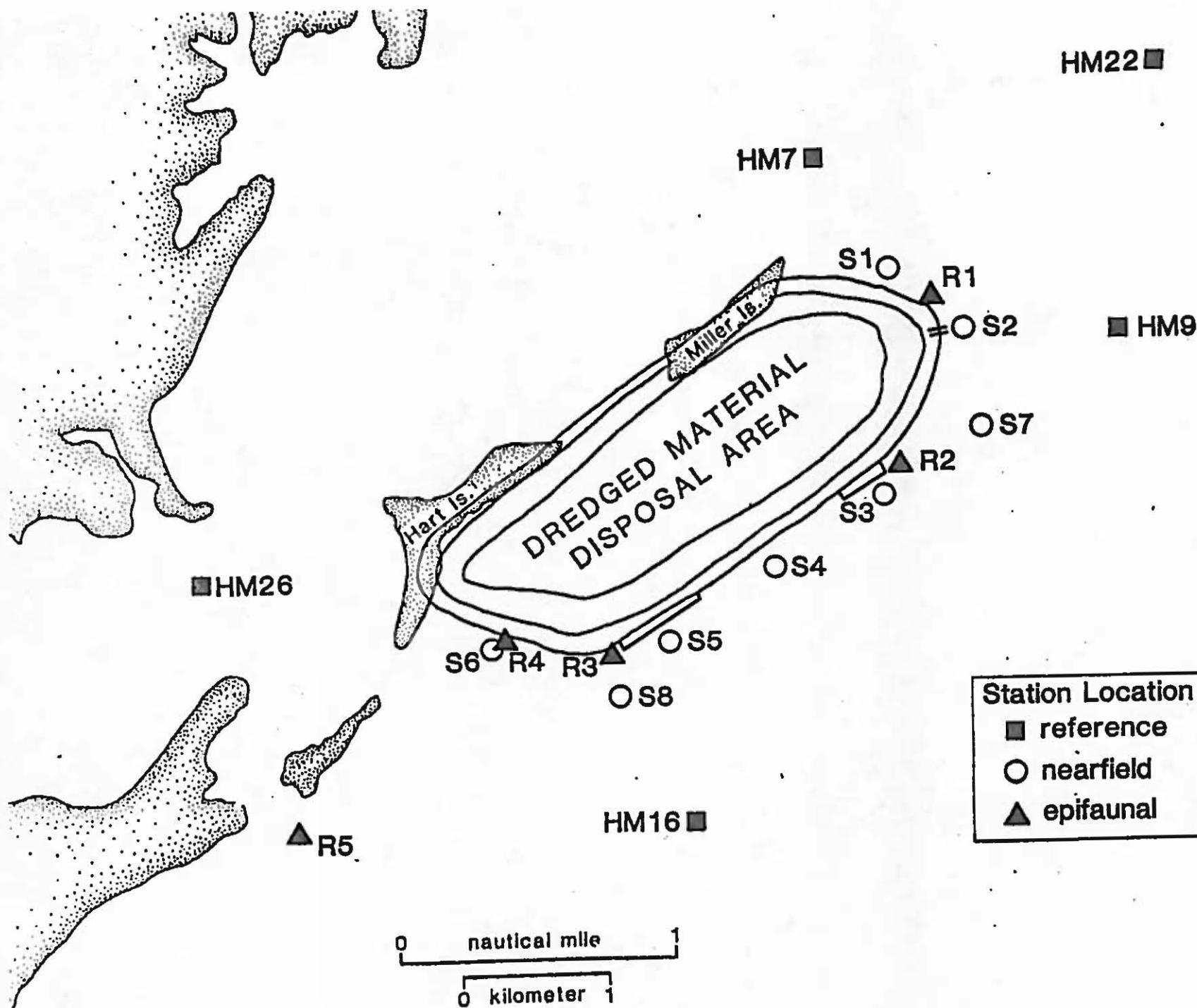


Figure 1

Sampling Stations

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1406 TIDE Flood
 STATION NO. S1 LAT. 39° 15' 46" LONG. 76° 20' 50"
 WATER DEPTH 6' WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>			
<i>Heteromastus filiformis</i>			
<i>Melinna sp.</i>			
<i>Nereis succinea</i>			
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora ligni</i>		4	5
<i>Scolecolepides viridis</i>			
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex sp.</i>		1	
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Corgeria leucophaeta</i>			
<i>Littoridinops sp.</i>			
<i>Macoma balthica</i>			
<i>Macoma mitchelli</i>			
<i>Rangia cuneata</i>		1	
<i>Mya arenaria</i>			
<i>Hydrobia sp.</i>			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i>		1	2
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i>			
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i>			
<i>Corophium lacustre</i>			
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>			
<i>Melita nitida</i>			
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid sp.</i>			
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 12/85 SAMPLE METHOD Ponar TIME 1350 TIDE Flood
 STATION NO. S2 LAT. 39° 15' 29" LONG. 76° 20' 41"
 WATER DEPTH 13 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>			
<i>Heteromastus filiformis</i> Z		2	
<i>Melinna</i> sp.			
<i>Nereis succinea</i>	25	13	10
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i>			
<i>Streblospio benedicti</i>	3	1	2
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Congeria leucophaeata</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i>			
<i>Macoma mitchelli</i>			
<i>Rangia cuneata</i>			
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>	104	43	35
<i>Balanus subalbidus</i>	6	5	1
<i>Leucon americanus</i>			
<i>Cyathura polita</i>	2	1	1
<i>Cassidinidea lunifrons</i>			
<i>Edotea tritoba</i>			
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i>			
<i>Corophium lacustre</i>	1		1
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>	1	1	
<i>Melita nitida</i>	9	4	5
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp.			
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1214 TIDE Flood
 STATION NO. X1F4811
S3 LAT. 39° 14' 58" LONG. 76° 21' 08"
 WATER DEPTH 16 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>	5		
<i>Heteromastus filiformis</i>			
<i>Melinna</i> sp.			
<i>Nereis succinea</i>	2	5	7
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i>	27	32	8
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Corgeria leucophaeta</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i>			
<i>Macoma mitchelli</i>	3		
<i>Rangia cuneata</i>			
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i>	5	14	6
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i>	1	1	
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i>	32	11	
<i>Corophium lacustre</i>			
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>			
<i>Melita nitida</i>			
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp.			
<i>Rithropanopeus harrisi</i>			1
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1153 TIDE Flo
 STATION NO. XF 4715
S4 LAT. 39° 14' 46" LONG. 76° 21' 33"
 WATER DEPTH 14' WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi			1
Heteromastus filiformis	1	2	4
Melinna sp.			
Nereis succinea	4	1	6
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda		2	1
Polydora ligni			
Scolecolepides viridis	10	11	13
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata	1		
Ischadium recurvus			
Corgeria leucophaeta			
Littoridinops sp.			
Macoma balthica	1		2
Macoma mitchelli	1	1	1
Rangia cuneata	17	12	17
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	7	5	7
Cassidinidea lunifrons			
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus	14	10	22
Corophium lacustre	1		1
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1133 TIDE Flood
 STATION NO. XIF4420
S5 LAT. 39° 14' 27" LONG. 76° 22' 00"
 WATER DEPTH 20 WATER TEMP. 6.4°C WATER SAL. 5.3 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>			
<i>Heteromastus filiformis</i>		4	4
<i>Melinna sp.</i>			
<i>Nereis succinea</i>			
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			1
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i>			
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex sp.</i>			
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Cergeria Leucophaeta</i>			
<i>Littoridinops sp.</i>			
<i>Macoma balthica</i>			
<i>Macoma mitchelli</i>	2		2
<i>Rangia cuneata</i>			
<i>Mya arenaria</i>			
<i>Hydrobia sp.</i>			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i>	4	4	3
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i>	1		
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i>		1	
<i>Corophium lacustre</i>			
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>			
<i>Melita nitida</i>			
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid sp.</i>			
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 12/85 SAMPLE METHOD Ponar TIME 1047 TIDE Flood
 STATION NO. S6 LAT. 39° 14' 20" LONG. 76° 22' 48"
 WATER DEPTH 10 WATER TEMP. 5.9°C WATER SAL. 5.3 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>		2	3
<i>Heteromastus filiformis</i>	28	17	9
<i>Melinna</i> sp.			
<i>Nereis succinea</i>	1	8	3
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>	1		1
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i>	22	41	9
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i>	1		
<i>Ischadium recurvus</i>			
<i>Congeria leucophaeta</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i>	1	2	1
<i>Macoma mitchelli</i>	7	5	
<i>Rangia cuneata</i>		1	
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i>	8	8	12
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i>	3	2	3
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i>	147	167	118
<i>Corophium lacustre</i>		1	1
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>	1		
<i>Melita nitida</i>			
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp.			
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1335 TIDE Flood
 STATION NO. S7 LAT. $39^{\circ} 15' 27''$ LONG. $76^{\circ} 20' 32''$
 WATER DEPTH 12 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi			
Heteromastus filiformis /		1	
MeTinna sp.			
Nereis succinea 122	58	22	42
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis /		1	
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Congeria leucophaeata			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli			
Rangia cuneata			
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus 104	47	28	29
Balanus subalbidus			1
Leucon americanus			
Cyathura polita 3	2		1
Cassidinidea lunifrons			
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus			
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida 49	17	13	19
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi 16	7	2	7
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1108 TIDE Flood
XJF4124
 STATION NO. 58 LAT. 39° 14' 09" LONG. 76° 22' 28"
 WATER DEPTH 12 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura teidyi	3		3
Heteromastus filiformis	2	3	
Melinna sp.			
Nereis succinea			
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	7	1	8
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corigeria leucophaeta			
Littoridinops sp.			
Macoma balthica		1	1
Macoma mitchelli	2	2	
Rangia cuneata	2	1	1
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	10	11	10
Cassidinidea lunifrons			
Edotea triloba		1	
Neohaustorius biarticulatus			
Leptocheirus plumulosus	6	19	14
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1407 TIDE Ebb
 HM STATION NO. XIF6385 LAT. 39° 16' 15" LONG. 76° 22' 42"
 WATER DEPTH 12 WATER TEMP. 5.3°C WATER SAL. 3.5 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>			
<i>Heteromastus filiformis</i>			
<i>Melinna</i> sp.			
<i>Nereis succinea</i>			2
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i>			5
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Congeria leucophaeta</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i>	1		
<i>Macoma mitchelli</i>			
<i>Rangia cuneata</i>	5	13	14
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i>	1	4	2
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i>			
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i>			1
<i>Corophium lacustre</i>			
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>			
<i>Melita nitida</i>			
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp.			
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1240 TIDE Ponar
 HM9 STATION NO. XIF5297 LAT. 39° 15' 55" LONG. 76° 20' 03"
 WATER DEPTH 15 WATER TEMP. 5.6°C WATER SAL. 4.0 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucopelma			
Micrura leidyi	1	1	
Heteromastus filiformis			
Melinna sp.			
Nereis succinea	1	1	
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	11	14	23
Streblospio benedicti	1	1	
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata	12	10	1
Ischadium recurvus			
Congeria leucophaeata			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli	2	1	1
Rangia cuneata	12	4	5
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	45	24	13
Cassidinidea lunifrons			6
Edotea triloba	2		1
Neohaustorius biarticulatus			
Leptocheirus plumulosus	10	4	
Corophium lacustre	1		1
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

	DATE	12/ 85	SAMPLE METHOD	Ponar	TIME	1009	TIDE
HM16	STATION NO.	XIF3325	LAT.	39° 13' 24"	LONG.	76° 22' 50"	Ebb
	WATER DEPTH	8	WATER TEMP.		WATER SAL.		
SPECIES	GRAB 1	GRAB 2	GRAB 3				
Diadumene leucolena							
Micrura leidyi		2					
Heteromastus filiformis	1			4			✓
Melinna sp.							
Nereis succinea	1	2		3			
Scoloplos fragilis							
Pectinaria gouldi							
Eteone heteropoda				1			
Polydora ligni							
Scolecolepides viridis	2	1					
Streblospio benedicti							
Hypaniola grayi							
Limnodrilus hoffmeisteri							
Peloscolex sp.							
Capitella capitata	7	4		2			
Ischadium recurvus							
Corgeria leucophaeta							
Littoridinops sp.							
Macoma balthica	2	4		6			
Macoma mitchelli	3	2		5			
Rangia cuneata							
Mya arenaria							
Hydrobia sp.							
Doridella obscura							
Balanus improvisus							
Balanus subalbidus							
Leucon americanus							
Cyathura polita	10	13		12			
Cassidinidea lunifrons							
Edotea triloba							
Neohaustorius biarticulatus							
Leptocheirus plumulosus	67	59		68			
Corophium lacustre				1			
Gammarus daiberi							
Gammarus tigrinus							
Melita nitida				1			
Chirodotea almyra							
Monoculodes edwardsi							
Chironomid sp.							
Rithropanopeus harrisi							
Gammarus mucronatus							
Cordylophora caspia							
Garveia franciscana							
Stylochus ellipticus							
Membranipora tenuis							
Victorella pavida							

DATE 12/ 85 SAMPLE METHOD Ponar TIME 1427 TIDE Flood
 STATION NO. XIG7689 LAT. 39° 17' 37" LONG. 76° 18' 51"
 WATER DEPTH 14' WATER TEMP. 5.7°C WATER SAL. 4.0 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>			
<i>Heteromastus filiformis</i> 4			4
<i>Melinna</i> sp.			
<i>Nereis succinea</i> 6	1	2	3
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i> 51	11	17	23
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Congeria leucophaeta</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i> 1	1		
<i>Macoma mitchelli</i> 6	1	3	2
<i>Rangia cuneata</i> 41	9	15	17
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i> 10	3	4	9
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i> 2	1	1	
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i> 02	34	38	30
<i>Corophium lacustre</i>			
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>			
<i>Melita nitida</i>			
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp. 4	2	1	1
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 4/ 86 SAMPLE METHOD Ponar TIME 1341 TIDE Flood
 STATION NO. S1 LAT. 39° 15' 46" LONG. 76° 20' 50"
 WATER DEPTH 5 WATER TEMP. WATER SAL. .2 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura teidyi</i>			
<i>Heteromastus filiformis</i> b	3	3	
<i>Melinna</i> sp.			
<i>Nereis succinea</i>			
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i> 1038	340	397	301
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Congeria leucophaeta</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i>			
<i>Macoma mitchelli</i>			
<i>Rangia cuneata</i>			
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i> 2			2
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i>			
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i> 21	3	14	4
<i>Corophium lacustre</i> 1		1	
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>			
<i>Melita nitida</i> 2			2
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp.			
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 4/ 86 SAMPLE METHOD Ponar TIME 1520 TIDE Flood
 STATION NO. S2 LAT. 39° 15' 29" LONG. 76° 20' 41"
 WATER DEPTH 12' WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i>			
<i>Heteromastus filiformis</i> 4	4		
<i>Melinna</i> sp.			
<i>Nereis succinea</i> /			1
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora ligni</i>			
<i>Scolecolepides viridis</i> 256	203	32	21
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i> 2	2		
<i>Ischadium recurvus</i>			
<i>Congeria leucophaeata</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i>			
<i>Macoma mitchelli</i>			
<i>Rangia cuneata</i>			
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i> 3	1		2
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i> 8	4	4	
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i> /	1		
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i> 2	2		
<i>Corophium lacustre</i> 4	2	1	1
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i> 33	19	13	1
<i>Melita nitida</i> 3	3		
<i>Chirodotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp. 3	1		2
<i>Rithropanopeus harrisi</i> 2		2	
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 4/ 86

SAMPLE METHOD Ponar

TIME 1208

TIDE Ebb

STATION NO. X1F4811
S3

LAT. 39° 14' 58"

LONG. 76° 21' 08"

WATER DEPTH 16

WATER TEMP.

WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi	9	1	5
Heteromastus filiformis	1		1
Melinna sp.			
Nereis succinea	4	1	3
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			1
Scolecolepides viridis	377	197	86
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Cergeria leucophaeta			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli	1		1
Rangia cuneata	32	19	1
Mya arenaria			12
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	11	7	3
Cassidinidea lunifrons			1
Edotea triloba	3	1	2
Neohaustorius biarticulatus			
Leptocheirus plumulosus	37	16	8
Corophium lacustre	3	1	1
Gammarus daiberi			
Gammarus tigrinus	8	3	5
Melita nitida			
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 4/ 86SAMPLE METHOD PonarTIME 1155TIDE ebbSTATION NO. X1F4715
S4LAT. 39° 14' 46"LONG. 76° 21' 33"WATER DEPTH 14WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
<i>Diadumene leucolena</i>			
<i>Micrura leidyi</i> 9	6	2	1
<i>Heteromastus filiformis</i>			
<i>Melinna</i> sp.			
<i>Nereis succinea</i>			
<i>Scoloplos fragilis</i>			
<i>Pectinaria gouldi</i>			
<i>Eteone heteropoda</i>			
<i>Polydora</i> Tigni			
<i>Scolecolepides viridis</i> 67	29	33	5
<i>Streblospio benedicti</i>			
<i>Hypaniola grayi</i>			
<i>Limnodrilus hoffmeisteri</i>			
<i>Peloscolex</i> sp.			
<i>Capitella capitata</i>			
<i>Ischadium recurvus</i>			
<i>Congeria leucophaeata</i>			
<i>Littoridinops</i> sp.			
<i>Macoma balthica</i>			
<i>Macoma mitchelli</i>			
<i>Rangia cuneata</i> 33	10	11	12
<i>Mya arenaria</i>			
<i>Hydrobia</i> sp.			
<i>Doridella obscura</i>			
<i>Balanus improvisus</i>			
<i>Balanus subalbidus</i>			
<i>Leucon americanus</i>			
<i>Cyathura polita</i> 17	5	7	5
<i>Cassidinidea lunifrons</i>			
<i>Edotea triloba</i> 1			
<i>Neohaustorius biarticulatus</i>			
<i>Leptocheirus plumulosus</i> 73	24	32	17
<i>Corophium lacustre</i>			
<i>Gammarus daiberi</i>			
<i>Gammarus tigrinus</i>			
<i>Melita nitida</i>			
<i>Chirotea almyra</i>			
<i>Monoculodes edwardsi</i>			
<i>Chironomid</i> sp.			
<i>Rithropanopeus harrisi</i>			
<i>Gammarus mucronatus</i>			
<i>Cordylophora caspia</i>			
<i>Garveia franciscana</i>			
<i>Stylochus ellipticus</i>			
<i>Membranipora tenuis</i>			
<i>Victorella pavida</i>			

DATE 4/86 SAMPLE METHOD Ponar TIME 1138 TIDE Ebb
 STATION NO. X1F4420 S5 LAT. 39° 14' 27" LONG. 76° 22' 00"
 WATER DEPTH 20 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi	1	1	
Heteromastus filiformis			
Melinna sp.			
Nereis succinea	1	2	
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora tigni			
Scolecolepides viridis	45	23	12
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Congeria leucophaeta			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli	2		
Rangia cuneata			2
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	5	2	6
Cassidinidea lunifrons			
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus	72	51	23
Corophium lacustre	1	1	
Gammarus daiberi			
Gammarus tigrinus	1		
Melita nitida			2
Chirotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 4/86

SAMPLE METHOD Ponar

TIME 1105 TIDE Ebb

STATION NO. X184327 S6

LAT. 39° 14' 20"

LONG. 76° 22' 48"

WATER DEPTH 10

WATER TEMP.

WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura teidyi	1	1	2
Heteromastus filiformis	9	25	7
Melinna sp.			
Nereis succinea	2	1	1
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	66 11 154	154 in circle	49
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Congeria leucophaeata			
Littoridinops sp.			
Macoma balthica			2
Macoma mitchelli	3	6	5
Rangia cuneata			
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	10	5	3
Cassidinidea lunifrons			
Edotea triloba	2		1
Neohaustorius biarticulatus			
Leptocheirus plumulosus	94	109	88
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			3
Melita nitida		1	
Chirotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 4/ 86 SAMPLE METHOD Ponar TIME 1317 TIDE Ebb
 STATION NO. X165405 LAT. $39^{\circ} 15' 27''$ LONG. $76^{\circ} 20' 32''$
 WATER DEPTH 12' WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura Teidyi			
Heteromastus filiformis 2		1	1
Melinna sp.			
Nereis succinea	1		1
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis 1/2	25	53	52
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus		1	
Cergeria leucophaeta			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli			
Rangia cuneata			
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus 1/1%	39	65	45
Balanus subalbidus			
Leucon americanus			
Cyathura polita 1			1
Cassidinidea lunifrons		7	6
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus			
Corophium lacustre 2			1
Gammarus daiberi			
Gammarus tigrinus		5	6
Melita nitida 12		17	14
Chirotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi 2		3	4
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 4/ 86 SAMPLE METHOD Ponar TIME 1119 TIDE E
 STATION NO. X1FH124 LAT. 39° 14' 09" LONG. 76° 22' 28"
 WATER DEPTH 12 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi			2
Heteromastus filiformis	3	3	2
Melinna sp.			
Nereis succinea		1	
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	52	83	79
Streblospio benedicti			
Hypniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corgeria leucophaeta			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli	1	2	6
Rangia cuneata			
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	8	4	7
Cassidinidea lunifrons			
Edotea triloba		2	
Neohaustorius biarticulatus			
Leptocheirus plumulosus	87	72	68
Corophium lacustre		1	
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida	2		3
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE	April, 1986	SAMPLE METHOD	PONAR	TIME	1353	TIDE
HM7 STATION NO.	XIF6388	LAT.	39°16'5"	LONG.	76°22'42"	
WATER DEPTH	12'	WATER TEMP.		WATER SAL.	.2°/oo	
SPECIES	GRAB 1	GRAB 2	GRAB 3			
Diadumene leucolena						
Micrura leidyi	2	2				
Heteromastus filiformis	1	1				
Melinna sp.						
Nereis succinea						
Scoloplos fragilis						
Pectinaria gouldi						
Eteone heteropoda						
Polydora ligni						
Scolecopelides viridis	183	78	72			33
Streblospio benedicti						
Hypaniola grayi						
Limnodrilus hoffmeisteri						
Peloscolex sp.						
Capitella capitata						
Ischadium recurvus						
Congeria leucophaeta						
Littoridinops sp.						
Macoma balthica						
Macoma mitchelli	1	1				
Rangia cuneata	18	3	9			6
Mya arenaria						
Hydrobia sp.						
Doridella obscura						
Balanus improvisus						
Balanus subalbidus						
Leucon americanus						
Cyathura polita	19	6	9			4
Cassidinidea lunifrons						
Edotea triloba						
Neohaustorius biarticulatus						
Leptocheirus plumulosus	37	10	15			9
Corophium lacustre						
Gammarus daiberi						
Gammarus tigrinus						
Melita nitida						
Chirodotea almyra						
Monoculodes edwardsi						
Chironomid sp.						
Rithropanopeus harrisi						
Gammarus mucronatus						
Cordylophora caspia						
Garveia franciscana						
Stylochus ellipticus						
Membranipora tenuis						
Victorella pavida						

	DATE	April, 1986	SAMPLE METHOD	PONAR	TIME	1327	TIDE	FLO
HM9	STATION NO.	XIF5297	LAT.	39°15'55"	LONG.	78°20'03"		
	WATER DEPTH	15'	WATER TEMP.		WATER SAL.			
	SPECIES		GRAB 1		GRAB 2		GRAB 3	
	Diadumene leucolena							
	Micrura leidyi	/	1					
	Heteromastus filiformis							
	Melinna sp.							
	Nereis succinea	4	1				3	
	Scoloplos fragilis							
	Pectinaria gouldi							
	Eteone heteropoda							
	Polydora ligni							
	Scolecolepides viridis	108	53		23		32	
	Streblospio benedicti							
	Hypaniola grayi							
	Limnodrilus hoffmeisteri							
	Peloscolex sp.							
	Capitella capitata							
	Ischadium recurvus							
	Corigeria leucophaeta							
	Littoridinops sp.							
	Macoma balthica							
	Macoma mitchelli							
	Rangia cuneata							
	Mya arenaria							
	Hydrobia sp.							
	Doridella obscura							
	Balanus improvisus	58	19		4		35	
	Balanus subalbidus	1	1					
	Leucon americanus							
	Cyathura polita	4	2		2			
	Cassidinidea lunifrons	3			1		2	
	Edotea triloba							
	Neohaustorius biarticulatus							
	Leptocheirus plumulosus	2	1		1			
	Corophium lacustre	5	5					5
	Gammarus daiberi	5						
	Gammarus tigrinus	10	9		1			
	Melita nitida	9	4		1		4	
	Chirodotea almyra							
	Monoculodes edwardsi							
	Chironomid sp.	1	1					
	Rithropanopeus harrisi	10	4		2		4	
	Gammarus mucronatus							
	Cordylophora caspia							
	Garveia franciscana							
	Stylochus ellipticus							
	Membranipora tenuis							
	Victorella pavida							

DATE	April, 1986	SAMPLE METHOD	PONAR	TIME	1042	TIDE	E
HN16 STATION NO.	XIF3325	LAT.	39° 13' 24"	LONG.	76° 22' 50"		
WATER DEPTH	8	WATER TEMP.		WATER SAL.			
SPECIES		GRAB 1		GRAB 2		GRAB 3	
Diadumene leucolena							
Micrura leidyi		3				1	
Heteromastus filiformis		1		1		2	
Melinna sp.							
Nereis succinea		1					
Scoloplos fragilis							
Pectinaria gouldi							
Eteone heteropoda							
Polydora ligni							
Scolecolepides viridis		52		20		28	
Streblospio benedicti							
Hypaniola grayi							
Limnodrilus hoffmeisteri							
Peloscolex sp.							
Capitella capitata							
Ischadium recurvus							
Corgeria leucophaeta							
Littoridinops sp.							
Macoma balthica				1		2	
Macoma mitchelli		1		1		1	
Rangia cuneata		1					
Mya arenaria							
Hydrobia sp.							
Doridella obscura							
Balanus improvisus							
Balanus subalbidus							
Leucon americanus							
Cyathura polita		12		7		7	
Cassidinidea lunifrons							
Edotea triloba							
Neohaustorius biarticulatus							
Leptocheirus plumulosus		24		5		8	
Corophium lacustre							
Gammarus daiberi							
Gammarus tigrinus							
Melita nitida							
Chirodotea almyra							
Monoculodes edwardsi							
Chironomid sp.							
Rithropanopeus harrisi							
Gammarus mucronatus							
Cordylophora caspia							
Garveia franciscana							
Stylochus ellipticus							
Membranipora tenuis							
Victorella pavida							

DATE April, 1986 SAMPLE METHOD PONAR TIME 1450 TIDE
 HM22 STATION NO. XIG7689 LAT. 39° 17' 37" LONG. 76° 18' 51"
 WATER DEPTH 14' WATER TEMP. WATER SAL. .5 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucopelma			
Micrura leidyi			
Heteromastus filiformis		1	
Melinna sp.			
Nereis succinea			1
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	86	53	54
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Congeria leucophaeta			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli			
Rangia cuneata	3	7	14
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	8	6	7
Cassidinidea lunifrons			
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus	51	25	34
Corophium lacustre	1		
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida	3		
Chirotea almyra			
Monoculodes edwardsi			
Chironomid sp.		1	
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 8/86

SAMPLE METHOD Ponar

TIME 1309

TIDE Ebb

STATION NO. S1

LAT. 39° 15' 46"

LONG. 76° 20' 50"

WATER DEPTH 5'

WATER TEMP.

WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi			1
Heteromastus filiformis	4	3	1
Melinna sp.			
Nereis succinea			
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	13	6	7
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Cergeria leucophaeta			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli			
Rangia cuneata	8	3	3
Mya arenaria			2
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	3	1	1
Cassidinidea lunifrons			
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus	25	12	4
Corophium lacustre	1		1
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida	2	1	1
Chirotea almyra	5	3	1
Monoculodes edwardsi			
Chironomid sp.	1		1
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE	8/ 86	SAMPLE METHOD	Ponar	TIME	1150	TIDE	Ebb
STATION NO.	S2	LAT.	39° 15' 29"	LONG.	76° 20' 41"		
WATER DEPTH	12	WATER TEMP.		WATER SAL.			
SPECIES		GRAB 1		GRAB 2	OK	GRAB 3	
Diadumene leucopelena							
Micrura leidyi	2			1		1	
Heteromastus filiformis	24	4		13		7	
Melinna sp.							
Nereis succinea	39	11		19		9	
Scoloplos fragilis							
Pectinaria gouldi							
Eteone heteropoda	/					1	
Polydora ligni							
Scolecopelides viridis							
Streblospio benedicti							
Hypaniola grayi							
Limnodrilus hoffmeisteri							
Peloscolex sp.							
Capitella capitata							
Ischadium recurvus	2	1		1			
Corigeria leucophaeta	2	1		1			
Littoridinops sp.							
Macoma balthica	2	1		1			
Macoma mitchelli	2					2	
Rangia cuneata							
Mya arenaria							
Hydrobia sp.							
Doridella obscura							
Balanus improvisus	368	105		116		147	
Balanus subalbidus	3	2		1			
Leucon americanus							
Cyathura polita	2	1		1			
Cassidinidea lunifrons	14	6		3		5	
Edotea triloba							
Neohaustorius biarticulatus							
Leptocheirus plumulosus							
Corophium lacustre	/	1					
Gammarus daiberi							
Gammarus tigrinus							
Melita nitida	48	23		13		12	
Chirodotea almyra							
Monoculodes edwardsi							
Chironomid sp.							
Rithropanopeus harrisi	23	7		10		6	
Gammarus mucronatus							
Cordylophora caspia							
Garveia franciscana							
Stylochus ellipticus							
Membranipora tenuis							
Victorella pavida							

DATE	8/ 86	SAMPLE METHOD	Ponar	TIME	1025	TIDE	Ebb
STATION NO.	53	LAT.	39° 14' 58"	LONG.	76° 21' 08"		
WATER DEPTH	16	WATER TEMP.		WATER SAL.	6 0/00		
SPECIES		GRAB 1		GRAB 2		GRAB 3	
<i>Diadumene leucolena</i>							
<i>Micrura teidiyi</i>		4		2		4	
<i>Heteromastus filiformis</i>		5		5		3	
<i>Melinna</i> sp.							
<i>Nereis succinea</i>							
<i>Scoloplos fragilis</i>							
<i>Pectinaria gouldi</i>							
<i>Eteone heteropoda</i>							
<i>Polydora ligni</i>							
<i>Scolecolepides viridis</i>		25		5		23	
<i>Streblospio benedicti</i>							
<i>Hypaniola grayi</i>							
<i>Limnodrilus hoffmeisteri</i>							
<i>Peloscolex</i> sp.							
<i>Capitella capitata</i>							
<i>Ischadium recurvus</i>							
<i>Corgeria leucophaeta</i>							
<i>Littoridinops</i> sp.							
<i>Macoma balthica</i>				1		1	
<i>Macoma mitchelli</i>				2			
<i>Rangia cuneata</i>		4		9		10	
<i>Mya arenaria</i>							
<i>Hydrobia</i> sp.							
<i>Doridella obscura</i>							
<i>Balanus improvisus</i>							
<i>Balanus subalbidus</i>							
<i>Leucon americanus</i>							
<i>Cyathura polita</i>		4		7		9	
<i>Cassidinidea lunifrons</i>							
<i>Edotea triloba</i>						1	
<i>Neohaustorius biarticulatus</i>							
<i>Leptocheirus plumulosus</i>		14		8			
<i>Corophium lacustre</i>							
<i>Gammarus daiberi</i>				3		2	
<i>Gammarus tigrinus</i>							
<i>Melita nitida</i>							
<i>Chirotea almyra</i>							
<i>Monoculodes edwardsi</i>							
<i>Chironomid</i> sp.							
<i>Rithropanopeus harrisi</i>							
<i>Gammarus mucronatus</i>							
<i>Cordylophora caspia</i>							
<i>Garveia franciscana</i>							
<i>Stylochus ellipticus</i>							
<i>Membranipora tenuis</i>							
<i>Victorella pavida</i>							

DATE	8/ 86	SAMPLE METHOD	Ponar	TIME	1114	TIDE	Ebb
STATION NO.	S4	LAT.	39° 14' 46"	LONG.	76° 21' 33"		
WATER DEPTH	14	WATER TEMP.		WATER SAL.			
SPECIES		GRAB 1		GRAB 2		GRAB 3	
Diadumene leucolena							
Micrura leidyi		2		1		6	
Heteromastus filiformis		4		12		7	
Melinna sp.							
Nereis succinea							
Scoloplos fragilis							
Pectinaria gouldi							
Eteone heteropoda							
Polydora ligni							
Scolecolepides viridis		9		15		9	
Streblospio benedicti							
Hypaniola grayi							
Limnodrilus hoffmeisteri							
Peloscolex sp.							
Capitella capitata							
Ischadium recurvus							
Corgeria Leucophaeta							
Littoridinops sp.							
Macoma balthica		1					
Macoma mitchelli				1		1	
Rangia cuneata		9		8		10	
Mya arenaria							
Hydrobia sp.							
Doridella obscura							
Balanus improvisus							
Balanus subalbidus							
Leucon americanus							
Cyathura polita		5		6		9	
Cassidinidea lunifrons							
Edotea triloba							
Neohaustorius biarticulatus							
Leptocheirus plumulosus		10		9		2	
Corophium lacustre							
Gammarus daiberi							
Gammarus tigrinus							
Melita nitida							
Chirotdea almyra							
Monoculodes edwardsi							
Chironomid sp.							
Rithropanopeus harrisi							
Gammarus mucronatus							
Cordylophora caspia							
Garveia franciscana							
Stylochus ellipticus							
Membranipora tenuis							
Victorella pavida							

Electronic has

DATE 8/ 86 SAMPLE METHOD Ponar TIME 1102 TID
 STATION NO. XIF4410 S5 LAT. 39° 14' 27" LONG. 76° 22' 00"
 WATER DEPTH 20 WATER TEMP. WATER SAL. 6 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi	5 ✓	2	3
Heteromastus filiformis	14 ✓	4	4
Melinna sp.			
Nereis succinea			
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	9 ✓	2	1
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri		1	
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corgeria leucophaeta			
Littoridinops sp. <i>(Snail)</i>		1	
Macoma balthica			
Macoma mitchelli	Entered electric file at 6 Rangia	1	4
Rangia cuneata			
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	9	10	8
Cassidinidea lunifrons			
Edotea tritoba		1	
Neohaustorius biarticulatus			
Leptocheirus plumulosus	5		
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirodotea almyra	1		
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			1
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 8/ 86 SAMPLE METHOD Ponar TIME 1025 TIDE Ebb
 STATION NO. S6 XIF 4327 LAT. 39° 14' 20" LONG. 76° 22' 48"
 WATER DEPTH 10 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi	7	6	1
Heteromastus filiformis	77	20	29
Melinna sp.			
Nereis succinea			
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	65	12	39
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corgeria leucophaeta			
Littoridinops sp.			
Macoma balthica	74	8	10
Macoma mitchelli	4	1	3
Rangia cuneata	14	5	6
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	23	9	7
Cassidinidea lunifrons			
Edotea triloba	3	1	1
Neohaustorius biarticulatus			
Leptocheirus plumulosus	56	17	18
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirotdea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavidia			

DATE 8/ 86

see Page 170
SAMPLE METHOD Ponar

TIME 1203

TIDE Ebb

STATION NO. 57 X165405

LAT. 39° 15' 27"

LONG. 76° 20' 32"

WATER DEPTH 12

WATER TEMP.

WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi	3	1	2
Heteromastus filiformis	157	46	62
Melinna sp.			49
Nereis succinea	3	1	2
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	187	101	68
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corgeria leucophaeta	1	1	
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli	3	1	1
Rangia cuneata	21	8	4
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	18	2	7
Cassidinidea tunifrons			
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus	22	10	4
Corophium lacustre	8		5
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida	1	1	
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 8/ 86 SAMPLE METHOD Ponar TIME 1040 TIDE
 STATION NO. 58 LAT. 39° 14' 09" LONG. 76° 22' 28"
 WATER DEPTH XIF4124 WATER TEMP. 12 WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi	3		3
Heteromastus filiformis	10		5
Melinna sp.			
Nereis succinea			
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	17	9	2
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corgeria Leucophaeta			
Littoridinops sp.			
Macoma balthica	4		3
Macoma mitchelli	3	1	2
Rangia cuneata	2	1	1
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	15	3	3
Cassidinidea lunifrons			
Edotea triloba	1	1	
Neohaustorius biarticulatus			
Leptocheirus plumulosus	33	14	4
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE	8/ 86	SAMPLE METHOD	Ponar	TIME	1323	TIDE	E
HM7	STATION NO.	XIF6388	LAT.	39° 16' 15"	LONG.	76° 22' 42"	
	WATER DEPTH	12	WATER TEMP.		WATER SAL.		
SPECIES		GRAB 1		GRAB 2		GRAB 3	
Diadumene leucolena							
Micrura leidyi	?	1		2			
Heteromastus filiformis	1	1					
Melinna sp.							
Nereis succinea							
Scoloplos fragilis							
Pectinaria gouldi							
Eteone heteropoda							
Polydora ligni							
Scolecolepides viridis	1					1	
Streblospio benedicti							
Hypaniola grayi							
Limnodrilus hoffmeisteri							
Peloscolex sp.							
Capitella capitata							
Ischadium recurvus							
Corgeria leucophaeta							
Littoridinops sp.							
Macoma balthica							
Macoma mitchelli	2	2					
Rangia cuneata	27	9		11		7	
Mya arenaria							
Hydrobia sp.							
Doridella obscura							
Balanus improvisus							
Balanus subalbidus							
Leucon americanus							
Cyathura polita	14	6		4		4	
Cassidinidea lunifrons							
Edotea triloba							
Neohaustorius biarticulatus							
Leptocheirus plumulosus	10	23		8		9	
Corophium lacustre							
Gammarus daiberi							
Gammarus tigrinus							
Melita nitida							
Chirodotea almyra							
Monoculodes edwardsi							
Chironomid sp.	1	1					
Rithropanopeus harrisi							
Gammarus mucronatus							
Cordylophora caspia							
Garveia franciscana							
Stylochus ellipticus							
Membranipora tenuis							
Victorella pavida							

DATE	8/ 86	SAMPLE METHOD	Ponar	TIME	1252	TIDE	Ebt
HM9	STATION NO.	XIF5297	LAT.	39° 15' 55"	LONG.	76° 20' 03"	
	WATER DEPTH	15	WATER TEMP.		WATER SAL.	6.0/00	
SPECIES		GRAB 1		GRAB 2		GRAB 3	
Diadumene leucolena							
Micrura leidyi	5			4		1	
Heteromastus filiformis	49	7		25		17	
Melinna sp.							
Nereis succinea	44	10		20		14	
Scoloplos fragilis							
Pectinaria gouldi							
Eteone heteropoda							
Polydora ligni							
Scolecolepides viridis	10	2		2		6	
Streblospio benedicti							
Hypaniola grayi							
Limnodrilus hoffmeisteri							
Peloscolex sp.							
Capitella capitata							
Ischadium recurvus							
Corgeria leucophaeta	1			1			
Littoridinops sp.							
Macoma balthica							
Macoma mitchelli							
Rangia cuneata	6			2		4	
Mya arenaria							
Hydrobia sp.							
Doridella obscura							
Balanus improvisus	168	59		48		61	
Balanus subalbidus							
Leucon americanus							
Cyathura polita	10	3		4		3	
Cassidinidea lunifrons	16	2		10		4	
Edotea triloba							
Neohaustorius biarticulatus							
Leptocheirus plumulosus							
Corophium lacustre							
Gammarus daiberi							
Gammarus tigrinus							
Melita nitida	49	14		15		20	
Chirodotea almyra							
Monoculodes edwardsi							
Chironomid sp.							
Rithropanopeus harrisi	43	9		12		22	
Gammarus mucronatus							
Cordylophora caspia							
Garveia franciscana							
Stylochus ellipticus							
Membranipora tenuis							
Victorella pavida							

DATE 8/ 86

SAMPLE METHOD Ponar

TIME 1006

TIDE Ebb

HM16 STATION NO. XIF3325

LAT. 39° 13' 29"

LONG. 76° 22' 50"

WATER DEPTH 8'

WATER TEMP.

WATER SAL. 7 0/00

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi		3	1
Heteromastus filiformis	2	1	5
Melinna sp.			
Nereis succinea			
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	3	1	2
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corgeria leucophaeta			
Littoridinops sp.			
Macoma balthica	1		1
Macoma mitchelli	1		
Rangia cuneata	1	1	
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	6	4	4
Cassidinidea lunifrons			
Edotea triloba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus	1	5	1
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 8/ 86

SAMPLE METHOD Ponar

TIME 1358

TIDE Ebb

HM22 STATION NO. XIF7689

LAT. 39° 17' 37"

LONG. 76° 18' 51"

WATER DEPTH 14'

WATER TEMP.

WATER SAL.

SPECIES	GRAB 1	GRAB 2	GRAB 3
Diadumene leucolena			
Micrura leidyi	4		
Heteromastus filiformis		1	
Melinna sp.			
Nereis succinea			
Scoloplos fragilis			
Pectinaria gouldi			
Eteone heteropoda			
Polydora ligni			
Scolecolepides viridis	6	4	6
Streblospio benedicti			
Hypaniola grayi			
Limnodrilus hoffmeisteri			
Peloscolex sp.			
Capitella capitata			
Ischadium recurvus			
Corgeria leucophaeta			
Littoridinops sp.			
Macoma balthica			
Macoma mitchelli			
Rangia cuneata	7	8	8
Mya arenaria			
Hydrobia sp.			
Doridella obscura			
Balanus improvisus			
Balanus subalbidus			
Leucon americanus			
Cyathura polita	3	4	4
Cassidinidea lunifrons			
Edotea tritoba			
Neohaustorius biarticulatus			
Leptocheirus plumulosus	10	3	5
Corophium lacustre			
Gammarus daiberi			
Gammarus tigrinus			
Melita nitida			
Chirodotea almyra			
Monoculodes edwardsi			
Chironomid sp.			
Rithropanopeus harrisi			
Gammarus mucronatus			
Cordylophora caspia			
Garveia franciscana			
Stylochus ellipticus			
Membranipora tenuis			
Victorella pavida			

DATE 8/ 86 SAMPLE METHOD Ponar TIME 1652 TIDE Ebb
 HM26 STATION NO. XIF5145 LAT. 39° 15' 04" LONG. 76° 24' 21"
 WATER DEPTH 15 WATER TEMP. WATER SAL.

SPECIES	GRAB 1	GRAB 2	OK	GRAB 3
<i>Diadumene leucolena</i>				
<i>Micrura leidyi</i> 7	2	1		4
<i>Heteromastus filiformis</i> 15	6	2		7
<i>Melinna sp.</i>				
<i>Nereis succinea</i> 16	2	1		3
<i>Scoloplos fragilis</i>				
<i>Pectinaria gouldi</i>				
<i>Eteone heteropoda</i>				
<i>Polydora ligni</i>				
<i>Scolecolepides viridis</i> 5	1	3		1
<i>Streblospio benedicti</i>				
<i>Hypaniola grayi</i>				
<i>Limnodrilus hoffmeisteri</i>				
<i>Peloscolex sp.</i>				
<i>Capitella capitata</i>				
<i>Ischadium recurvus</i>				
<i>Corigeria Teucophaeta</i>				
<i>Littoridinops sp.</i>				
<i>Macoma balthica</i> 3	3			2
<i>Macoma mitchelli</i> 10	4	5		1
<i>Rangia cuneata</i> 14	5	5		4
<i>Mya arenaria</i>				
<i>Hydrobia sp.</i>				
<i>Doridella obscura</i>				
<i>Balanus improvisus</i>				
<i>Balanus subalbidus</i>				
<i>Leucon americanus</i>				
<i>Cyathura polita</i> 13	6	5		2
<i>Cassidinidea Tunifrons</i>				
<i>Edotea triloba</i> 4	2	1		1
<i>Neohaustorius biarticulatus</i>				
<i>Leptocheirus plumulosus</i> 99	30	33		36
<i>Corophium lacustre</i>				
<i>Gammarus daiberi</i>				
<i>Gammarus tigrinus</i>				
<i>Melita nitida</i>				
<i>Chirodotea almyra</i>				
<i>Monoculodes edwardsi</i>				
<i>Chironomid sp.</i>				
<i>Rithropanopeus harrisi</i>				
<i>Gammarus mucronatus</i>				
<i>Cordylophora caspia</i>				
<i>Garveia franciscana</i>				
<i>Stylochus ellipticus</i>				
<i>Membranipora tenuis</i>				
<i>Victorella pavida</i>				

RESOURCE MONITORING DATA BASE
HART MILLER ISLAND - SEDIMENT SAMPLES

THE FIRST (HEADER) LINE DENOTES THE FOLLOWING VARIABLES

SAMPLING STATION NO.
DATE YYMMDD
TIME OF SAMPLE
DEPTH IN FEET
BASIN SEGMENT
MEDIA CLASS
SUBMITTER CODE
SAMPLE METHOD
TIDE STATE
WEATHER
LATITUDE DDMMSSS
LONGITUDE DDMMSSS

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THE SECOND (TRAILER) LINE DENOTES THE FOLLOWING VARIABLES

MEDIA
PHYLUM
CLASS
SPECIES
PARAMETER
METHOD
UNITS % BY WEIGHT
VALUE
REMARKS

RESOURCE MONITORING DATA BASE

PAGE 1

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TYPE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS									REM
XIF2038	851106	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3911595	7623470		
					PHYSCHAR	.			WATERCON	56	%-BYWT	58.11		
					PHYSCHAR	.			SAND	56	%-BYWT	2.38		
					PHYSCHAR	.			SILT	56	%-BYWT	38.02		
					PHYSCHAR	.			CLAY	56	%-BYWT	55.6		
					CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	165.7	O K	
					CHEMCHAR	.			TCOPPER	182	UG/GM-DW	49.4	4/26/83	
					CHEMCHAR	.			TIRON	183	%-BYWT	6.1		
					CHEMCHAR	.			TMANGAN	184	UG/GM-DW	4234.1	4/26/83	
					CHEMCHAR	.			TNICKEL	185	UG/GM-DW	134.5		
					CHEMCHAR	.			TZINC	186	UG/GM-DW	486		
XIF3.64	851106	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3913005	7623390		
					PHYSCHAR	.			WATERCON	56	%-BYWT	60.4		
					PHYSCHAR	.			SAND	56	%-BYWT	1.97		
					PHYSCHAR	.			SILT	56	%-BYWT	39.23		
					PHYSCHAR	.			CLAY	56	%-BYWT	58.81		
					CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	142.4	O K	
					CHEMCHAR	.			TCOPPER	182	UG/GM-DW	33.3	4/26/83	
					CHEMCHAR	.			TIRON	183	%-BYWT	5.1		
					CHEMCHAR	.			TMANGAN	184	UG/GM-DW	3964.2		
					CHEMCHAR	.			TNICKEL	185	UG/GM-DW	7.16		
					CHEMCHAR	.			TZINC	186	UG/GM-DW	294.5		
XIF3430	851106	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3913240	7622596		
					PHYSCHAR	.			WATERCON	56	%-BYWT	31.56		
					PHYSCHAR	.			SAND	56	%-BYWT	75.98		
					PHYSCHAR	.			SILT	56	%-BYWT	10.12		
					PHYSCHAR	.			CLAY	56	%-BYWT	13.9	O K	
					CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	43.9	4/26/83	
					CHEMCHAR	.			TCOPPER	182	UG/GM-DW	2.9		
					CHEMCHAR	.			TIRON	183	%-BYWT	1.7		
					CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1503.5		
					CHEMCHAR	.			TNICKEL	185	UG/GM-DW	39.7		
					CHEMCHAR	.			TZINC	186	UG/GM-DW	123		
XIF3620	851106	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3913330	7621590		
					PHYSCHAR	.			WATERCON	56	%-BYWT	59.05		
					PHYSCHAR	.			SAND	56	%-BYWT	0.51		
					PHYSCHAR	.			SILT	56	%-BYWT	39.44		
					PHYSCHAR	.			CLAY	56	%-BYWT	60.06	O K	
					CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	142.6	4/26/83	
					CHEMCHAR	.			TCOPPER	182	UG/GM-DW	25.3		
					CHEMCHAR	.			TIRON	183	%-BYWT	4.3		
					CHEMCHAR	.			TMANGAN	184	UG/GM-DW	3701.7		
					CHEMCHAR	.			TNICKEL	185	UG/GM-DW	103		
					CHEMCHAR	.			TZINC	186	UG/GM-DW	248.7		

RESOURCE MONITORING DATA BASE

PAGE 2

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUR	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE											
													CLASS	METHOD	MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM	
XIF3639	851106	0	5	2139997	SEDIMENT	1	GRAB	BA		0	3913350	7623490												
													PHYSCHAR	.				WATERCON	56	X-BYWT	28.15			
													PHYSCHAR	.				SAND	56	X-BYWT	96.56			
													PHYSCHAR	.				SILT	56	X-BYWT	1.52			
													PHYSCHAR	.				CLAY	56	X-BYWT	1.51			
													CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	3			
													CHEMCHAR	.				TCOPPER	182	UG/GM-DW	2.9			
													CHEMCHAR	.				TIIRON	183	X-BYWT	0.3			
													CHEMCHAR	.				TMANGAN	184	UG/GM-DW	734			
													CHEMCHAR	.				TNICKEL	185	UG/GM-DW	8			
													CHEMCHAR	.				TZINC	186	UG/GM-DW	28.1			
XIF4116	851106	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3913580	7621350												
													PHYSCHAR	.				WATERCON	56	X-BYWT	61.61			
													PHYSCHAR	.				SAND	56	X-BYWT	1.2			
													PHYSCHAR	.				SILT	56	X-BYWT	40.3			
													PHYSCHAR	.				CLAY	56	X-BYWT	56.43			
													CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	142.6			
													CHEMCHAR	.				TCOPPER	182	UG/GM-DW	41.2			
													CHEMCHAR	.				TIIRON	183	X-BYWT	5			
													CHEMCHAR	.				TMANGAN	184	UG/GM-DW	3684			
													CHEMCHAR	.				TNICKEL	185	UG/GM-DW	71.4			
													CHEMCHAR	.				TZINC	186	UG/GM-DW	230.4			
XIF4126	851106	0	14	2139997	SEDIMENT	1	GRAB	BA		0	3914080	7622380												
													PHYSCHAR	.				WATERCON	56	X-BYWT	56.02			
													PHYSCHAR	.				SAND	56	X-BYWT	2.32			
													PHYSCHAR	.				SILT	56	X-BYWT	57.41			
													PHYSCHAR	.				CLAY	56	X-BYWT	40.27			
													CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	118.7			
													CHEMCHAR	.				TCOPPER	182	UG/GM-DW	17.6			
													CHEMCHAR	.				TIIRON	183	X-BYWT	3.8			
													CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1672.7			
													CHEMCHAR	.				TNICKEL	185	UG/GM-DW	71.4			
													CHEMCHAR	.				TZINC	186	UG/GM-DW	230.3			
XIF4121	851106	0	18	2139997	SEDIMENT	1	GRAE	BA		0	3914125	7622090												
													PHYSCHAR	.				WATERCON	56	X-BYWT	63.51			
													PHYSCHAR	.				SAND	56	X-BYWT	2.25			
													PHYSCHAR	.				SILT	56	X-BYWT	48.42			
													PHYSCHAR	.				CLAY	56	X-BYWT	49.32			
													CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	142.6			
													CHEMCHAR	.				TCOPPER	182	UG/GM-DW	25.3			
													CHEMCHAR	.				TIIRON	183	X-BYWT	4.3			
													CHEMCHAR	.				TMANGAN	184	UG/GM-DW	2911			
													CHEMCHAR	.				TNICKEL	185	UG/GM-DW	71.4			
													CHEMCHAR	.				TZINC	186	UG/GM-DW	267.1			

RESOURCE MONITORING DATA BASE

PAGE 3

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
														REM
XIF4317	851106	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3914185	7621400		
					PHYSCHAR	.					WATERCON	56	X-BYWT	50.25
					PHYSCHAR	.					SAND	56	X-BYWT	2.12
					PHYSCHAR	.					SILT	56	X-BYWT	46.73
					PHYSCHAR	.					CLAY	56	X-BYWT	51.15
					CHEMCHAR	.					TCHROMUM	181	UG/GM-DW	94.4
					CHEMCHAR	.					TCOPPER	182	UG/GM-DW	2.9
					CHEMCHAR	.					TIRON	183	X-BYWT	3.9
					CHEMCHAR	.					TMANGAN	184	UG/GM-DW	817.4
					CHEMCHAR	.					TNICKEL	185	UG/GM-DW	71.4
					CHEMCHAR	.					TZINC	186	UG/GM-DW	131.5
XIF4405	851106	0	19	2139997	SEDIMENT	1	GRAB	BA		0	3914220	7620290		
					PHYSCHAR	.					WATERCON	56	X-BYWT	60.68
					PHYSCHAR	.					SAND	56	X-BYWT	1.71
					PHYSCHAR	.					SILT	56	X-BYWT	41.38
					PHYSCHAR	.					CLAY	56	X-BYWT	56.91
					CHEMCHAR	.					TCHROMUM	181	UG/GM-DW	118.7
					CHEMCHAR	.					TCOPPER	182	UG/GM-DW	33.2
					CHEMCHAR	.					TIRON	183	X-BYWT	5.3
					CHEMCHAR	.					TMANGAN	184	UG/GM-DW	1527.6
					CHEMCHAR	.					TNICKEL	185	UG/GM-DW	103
					CHEMCHAR	.					TZINC	186	UG/GM-DW	341.5
XIF4509	851106	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3914370	7620570		
					PHYSCHAR	.					WATERCON	56	X-BYWT	61.59
					PHYSCHAR	.					SAND	56	X-BYWT	2.29
					PHYSCHAR	.					SILT	56	X-BYWT	43.08
					PHYSCHAR	.					CLAY	56	X-BYWT	57.63
					CHEMCHAR	.					TCHROMUM	181	UG/GM-DW	142.5
					CHEMCHAR	.					TCOPPER	182	UG/GM-DW	41.2
					CHEMCHAR	.					TIRON	183	X-BYWT	4.5
					CHEMCHAR	.					TMANGAN	184	UG/GM-DW	2390.1
					CHEMCHAR	.					TNICKEL	185	UG/GM-DW	103
					CHEMCHAR	.					TZINC	186	UG/GM-DW	313.2
XIF4615	851106	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3914370	7621300		
					PHYSCHAR	.					WATERCON	56	X-BYWT	52.51
					PHYSCHAR	.					SAND	56	X-BYWT	7.9
					PHYSCHAR	.					SILT	56	X-BYWT	54.61
					PHYSCHAR	.					CLAY	56	X-BYWT	37.3
					CHEMCHAR	.					TCHROMUM	181	UG/GM-DW	69.5
					CHEMCHAR	.					TCOPPER	182	UG/GM-DW	2.9
					CHEMCHAR	.					TIRON	183	X-BYWT	3.6
					CHEMCHAR	.					TMANGAN	184	UG/GM-DW	1351.9
					CHEMCHAR	.					TNICKEL	185	UG/GM-DW	39.7
					CHEMCHAR	.					TZINC	186	UG/GM-DW	185.1

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RESOURCE MONITORING DATA BASE

PAGE 4

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE															
													CLASS	METHOD	MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REF					
XIF4642	851106	C	12	2139957	SEDIMENT	1	GRAB	BA		0	3914360	7624140				WATERCON	SAND	SILT	CLAY	TCHROMUM	TCOPPER	TIRON	TMANGAN	TNICKEL	TZINC	%-BYWT	45.95	
													PHYSCHAR	.										%-BYWT	42.45			
													PHYSCHAR	.										%-BYWT	33.86			
													PHYSCHAR	.										%-BYWT	23.65			
													CHEMCHAR	.										TCHROMUM	181	UG/GM-DW	115.7	
													CHEMCHAR	.										TCOPPER	182	UG/GM-DW	2.9	OK
													CHEMCHAR	.										TIRON	183	%-BYWT	2.6	
													CHEMCHAR	.										TMANGAN	184	UG/GM-DW	1016.3	
													CHEMCHAR	.										TNICKEL	185	UG/GM-DW	39.7	
													CHEMCHAR	.										TZINC	186	UG/GM-DW	203	
XIF4606	851106	D	19	2139957	SEDIMENT	1	GRAB	BA		0	3914495	7620356				WATERCON	SAND	SILT	CLAY	TCHROMUM	TCOPPER	TIRON	TMANGAN	TNICKEL	TZINC	%-BYWT	56	
													PHYSCHAR	.										%-BYWT	2.4			
													PHYSCHAR	.										%-BYWT	35.75			
													PHYSCHAR	.										%-BYWT	52.86			
													CHEMCHAR	.										TCHROMUM	181	UG/GM-DW	118.7	
													CHEMCHAR	.										TCOPPER	182	UG/GM-DW	41.2	
													CHEMCHAR	.										TIRON	183	%-BYWT	4.6	
													CHEMCHAR	.										TMANGAN	184	UG/GM-DW	1578.7	
													CHEMCHAR	.										TNICKEL	185	UG/GM-DW	87.2	
													CHEMCHAR	.										TZINC	186	UG/GM-DW	322.7	
XIF5009	851106	D	14	2139957	SEDIMENT	1	GRAB	BA		0	3914575	7620510				WATERCON	SAND	SILT	CLAY	TCHROMUM	TCOPPER	TIRON	TMANGAN	TNICKEL	TZINC	%-BYWT	40.87	
													PHYSCHAR	.										%-BYWT	25.31			
													PHYSCHAR	.										%-BYWT	45.37			
													PHYSCHAR	.										%-BYWT	34.32			
													CHEMCHAR	.										TCHROMUM	181	UG/GM-DW	54.4	
													CHEMCHAR	.										TCOPPER	182	UG/GM-DW	17.6	
													CHEMCHAR	.										TIRON	183	%-BYWT	3	
													CHEMCHAR	.										TMANGAN	184	UG/GM-DW	568.5	
													CHEMCHAR	.										TNICKEL	185	UG/GM-DW	55.6	
													CHEMCHAR	.										TZINC	186	UG/GM-DW	114.3	
XIF5203	851106	D	16	2139957	SEDIMENT	1	GRAB	BA		0	3915100	7620210				WATERCON	SAND	SILT	CLAY	TCHROMUM	TCOPPER	TIRON	TMANGAN	TNICKEL	TZINC	%-BYWT	29.69	
													PHYSCHAR	.										%-BYWT	81.55			
													PHYSCHAR	.										%-BYWT	7.3			
													PHYSCHAR	.										%-BYWT	11.11			
													CHEMCHAR	.										TCHROMUM	181	UG/GM-DW	69.5	
													CHEMCHAR	.										TCOPPER	182	UG/GM-DW	2.9	
													CHEMCHAR	.										TIRON	183	%-BYWT	1.3	
													CHEMCHAR	.										TMANGAN	184	UG/GM-DW	833.6	
													CHEMCHAR	.										TNICKEL	185	UG/GM-DW	23.9	
													CHEMCHAR	.										TZINC	186	UG/GM-DW	105.5	

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RESOURCE MONITORING DATA BASE

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE					
													CLASS	METHOD	UNITS	VALUE	PER	
XIF5302	851106	0	30	2139957	SEDIMENT	1	GRAB	BA			0	3915010	7620035	WATERCON	56	X-BYWT	45.54	
													SAND	56	X-BYWT	45.23		
													SILT	56	X-BYWT	22.25		
													CLAY	56	X-BYWT	29.5		
													TCHROMUM	181	UG/GM-DW	69.4		
													TCOPPER	182	UG/GM-DW	2.9	E	
													TIRON	183	X-BYWT	3.3		
													TMANGAN	184	UG/GM-DW	2148.6		
													TNICKEL	185	UG/GM-DW	39.7		
													TZINC	186	UG/GM-DW	203		
XIF5302	851106	i	20	2139957	SEDIMENT	1	GRAB	BA			0	3915010	7620035	WATERCON	56	X-BYWT	51.44	
													SAND	56	X-BYWT	25.76		
													SILT	56	X-BYWT	26.54		
													CLAY	56	X-BYWT	44.31		
													TCHROMUM	181	UG/GM-DW	142.5		
													TCOPPER	182	UG/GM-DW	17.6		
													TIRON	183	X-BYWT	4.3		
													TMANGAN	184	UG/GM-DW	2025.9		
													TNICKEL	185	UG/GM-DW	55.6		
													TZINC	186	UG/GM-DW	230.3		
XIF5302	851106	2	20	2139957	SEDIMENT	1	GRAB	BA			0	3915010	7620035	WATERCON	56	X-BYWT	56.54	
													SAND	56	X-BYWT	9.26		
													SILT	56	X-BYWT	37.66		
													CLAY	56	X-BYWT	53.05		
													TCHROMUM	181	UG/GM-DW	118.7		
													TCOPPER	182	UG/GM-DW	25.3		
													TIRON	183	X-BYWT	4.7		
													TMANGAN	184	UG/GM-DW	4216.1		
													TNICKEL	185	UG/GM-DW	55.6		
													TZINC	186	UG/GM-DW	285.4		
XIF5301	851106	1	15	2139957	SEDIMENT	1	GRAB	BA			0	3915275	7620030	WATERCON	56	X-BYWT	19.71	
													SAND	56	X-BYWT	95.59		
													SILT	56	X-BYWT	1.05		
													CLAY	56	X-BYWT	2.73		
													TCHROMUM	181	UG/GM-DW	0		
													TCOPPER	182	UG/GM-DW	0		
													TIRON	183	X-BYWT	0		
													TMANGAN	184	UG/GM-DW	0		
													TNICKEL	185	UG/GM-DW	0		
													TZINC	186	UG/GM-DW	0		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB CLASS	SAMPLE CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
												METHOD	UNITS	VALUE	REM
XIF5501	651106	2	15	2139997	SEDIMENT	1	GRAB	BA		3915275	7620090				
					PHYSCHAR	.				WATERCON	56	%-BYWT	25.46		
					PHYSCHAR	.				SAND	56	%-BYWT	95.05		
					PHYSCHAR	.				SILT	56	%-BYWT	5.06		
					PHYSCHAR	.				CLAY	56	%-BYWT	9.09		
					CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	43.9		
					CHEMCHAR	.				TCOPPER	182	UG/GM-DW	2.9	B	
					CHEMCHAR	.				TIRON	183	%-PYNT	1		
					CHEMCHAR	.				TMANGAN	184	UG/GM-DW	387.1		
					CHEMCHAR	.				TRICKEL	185	UG/GM-DW	55.5		
					CHEMCHAR	.				TZINC	186	UG/GM-DW	53.6		
XIF5501	651106	3	15	2139997	SEDIMENT	1	GRAB	BA	0	3915275	7620090				OK
					PHYSCHAR	.				WATERCON	56	%-BYWT	44.8		
					PHYSCHAR	.				SAND	56	%-BYWT	52.35		
					PHYSCHAR	.				SILT	56	%-BYWT	18.54		
					PHYSCHAR	.				CLAY	56	%-BYWT	29.14		
					CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	69.5		
					CHEMCHAR	.				TCOPPER	182	UG/GM-DW	2.9	B	
					CHEMCHAR	.				TIRON	183	%-BYWT	3		
					CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1521.2		
					CHEMCHAR	.				TRICKEL	185	UG/GM-DW	55.6		
					CHEMCHAR	.				TZINC	186	UG/GM-DW	230.4		
XIF5505	651106	0	17	2139997	SEDIMENT	1	GRAB	BA	0	3915275	7620310				
					PHYSCHAR	.				WATERCON	56	%-BYWT	24.26		
					PHYSCHAR	.				SAND	56	%-BYWT	57.23		
					PHYSCHAR	.				SILT	56	%-BYWT	1.14		
					PHYSCHAR	.				CLAY	56	%-BYWT	1.58		
					CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	3		
					CHEMCHAR	.				TCOPPER	182	UG/GM-DW	2.9	H	
					CHEMCHAR	.				TIRON	183	%-BYWT	0.4		
					CHEMCHAR	.				TMANGAN	184	UG/GM-DW	568.5		
					CHEMCHAR	.				TRICKEL	185	UG/GM-DW	9		
					CHEMCHAR	.				TZINC	186	UG/GM-DW	19.6		
XIF5505	651106	1	13	2039997	SEDIMENT	1	GRAB	BA	0	3915275	7620310				
					PHYSCHAR	.				WATERCON	56	%-BYWT	19.7		
					PHYSCHAR	.				SAND	56	%-BYWT	96.57		
					PHYSCHAR	.				SILT	56	%-BYWT	1.66		
					PHYSCHAR	.				CLAY	56	%-BYWT	1.77		
					CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	3		
					CHEMCHAR	.				TCOPPER	182	UG/GM-DW	2.9		
					CHEMCHAR	.				TIRON	183	%-BYWT	0.4		
					CHEMCHAR	.				TMANGAN	184	UG/GM-DW	750.2		
					CHEMCHAR	.				TRICKEL	185	UG/GM-DW	23.8		
					CHEMCHAR	.				TZINC	186	UG/GM-DW	11.2		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS	METHOD								REM
XIF605	851106	0	9	2139997	SEDIMENT	1	GRAB	HA	0	3916000	7620500			
					PHYSCHAR	.				WATERCON	56	%-BYWT	18.14	
					PHYSCHAR	.				SAND	56	%-BYWT	96.22	
					PHYSCHAR	.				SILT	56	%-BYWT	1.73	
					PHYSCHAR	.				CLAY	56	%-BYWT	1.98	
					CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	17.8	
					CHEMCHAR	.				TCOPPER	182	UG/GM-DW	2.9	E 61
					CHEMCHAR	.				TIIRON	183	%-BYWT	0.4	
					CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1960.7	
					CHEMCHAR	.				TNICKEL	185	UG/GM-DW	8	
					CHEMCHAR	.				TZINC	186	UG/GM-DW	28.1	
XIF607	851106	0	13	2139997	SEDIMENT	1	GRAB	HA	0	3916200	7620420			
					PHYSCHAR	.				WATERCON	56	%-BYWT	62.51	
					PHYSCHAR	.				SAND	56	%-BYWT	1.13	
					PHYSCHAR	.				SILT	56	%-BYWT	45.91	
					PHYSCHAR	.				CLAY	56	%-BYWT	52.97	
					CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	142.5	
					CHEMCHAR	.				TCOPPER	182	UG/GM-DW	25.3	
					CHEMCHAR	.				TIIRON	183	%-BYWT	4.5	
					CHEMCHAR	.				TMANGAN	184	UG/GM-DW	2979.3	
					CHEMCHAR	.				TNICKEL	185	UG/GM-DW	71.4	
					CHEMCHAR	.				TZINC	186	UG/GM-DW	276.2	
XIG7555	851106	0	11	2139997	SEDIMENT	1	GRAB	TBA	0	3917290	7618545			
					PHYSCHAR	.				WATERCON	56	%-BYWT	44.71	
					PHYSCHAR	.				SAND	56	%-BYWT	58.5	
					PHYSCHAR	.				SILT	56	%-BYWT	19.15	
					PHYSCHAR	.				CLAY	56	%-BYWT	21.95	
					CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	118.8	
					CHEMCHAR	.				TCOPPER	182	UG/GM-DW	2.9	
					CHEMCHAR	.				TIIRON	183	%-BYWT	2.4	
					CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1000.6	
					CHEMCHAR	.				TNICKEL	185	UG/GM-DW	39.7	
					CHEMCHAR	.				TZINC	186	UG/GM-DW	167.3	

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS		METHOD							REM
XIF3638	860428	0	9	2139997	SEDIMENT	1	GRAB	BA						
							PHYSCHAR	.						
							PHYSCHAR	.						
							PHYSCHAR	.						
							PHYSCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
XIF3430	860428	0	16	2139997	SEDIMENT	1	GRAB	BA						
							PHYSCHAR	.						
							PHYSCHAR	.						
							PHYSCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
XIF4126	860428	0	15	2139997	SEDIMENT	1	GRAB	BA						
							PHYSCHAR	.						
							PHYSCHAR	.						
							PHYSCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
XIF4221	860428	0	19	2139997	SEDIMENT	1	GRAB	BA						
							PHYSCHAR	.						
							PHYSCHAR	.						
							PHYSCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						
							CHEMCHAR	.						

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
													FT	CLASS	METHOD			UNITS	VALUE	REM
XIF4317	860428	0	18	2139997	SEDIMENT	1	GRAB	BA				3914185	7621400			
								PHYSCHAR	.			WATERCON	56	%-BYWT	58.05	
								PHYSCHAR	.			SAND	56	%-BYWT	0.96	
								PHYSCHAR	.			SILT	56	%-BYWT	40.78	
								PHYSCHAR	.			CLAY	56	%-BYWT	58.26	
								CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	144.5	OK
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	35.3	
								CHEMCHAR	.			TIRON	183	%-BYWT	4.02	
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1572.5	
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	84.4	
								CHEMCHAR	.			TZINC	186	UG/GM-DW	176.3	
XIF4609	860428	0	18	2139997	SEDIMENT	1	GRAB	BA				3914370	7620570			
								PHYSCHAR	.			WATERCON	56	%-BYWT	66.35	
								PHYSCHAR	.			SAND	56	%-BYWT	3.31	
								PHYSCHAR	.			SILT	56	%-BYWT	37.14	
								PHYSCHAR	.			CLAY	56	%-BYWT	59.54	
								CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	124	
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	45.3	
								CHEMCHAR	.			TIRON	183	%-BYWT	4.82	
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2285.8	
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	96.2	
								CHEMCHAR	.			TZINC	186	UG/GM-DW	261.4	
XIF5009	860428	0	15	2139997	SEDIMENT	1	GRAB	BA				3914575	7620510			
								PHYSCHAR	.			WATERCON	56	%-BYWT	47.42	
								PHYSCHAR	.			SAND	56	%-BYWT	59	
								PHYSCHAR	.			SILT	56	%-BYWT	25.19	
								PHYSCHAR	.			CLAY	56	%-BYWT	15.81	
								CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	41.6	
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	35.4	
								CHEMCHAR	.			TIRON	183	%-BYWT	1.58	
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	75.85	OK
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	28	
								CHEMCHAR	.			TZINC	186	UG/GM-DW	65.1	
XIF4906	860428	0	20	2139997	SEDIMENT	1	GRAB	BA				3914490	7620356			
								PHYSCHAR	.			WATERCON	56	%-BYWT	64.46	
								PHYSCHAR	.			SAND	56	%-BYWT	2.94	
								PHYSCHAR	.			SILT	56	%-BYWT	32.3	
								PHYSCHAR	.			CLAY	56	%-BYWT	64.76	
								CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	124	
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	45.3	
								CHEMCHAR	.			TIRON	183	%-BYWT	4.98	
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1970.6	
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	84.4	
								CHEMCHAR	.			TZINC	186	UG/GM-DW	285.8	

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE		
			FT		CLASS		METHOD							REM	
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF5203	860428	0	16	2139997	SEDIMENT	1	GRAB	BA			3915100	7620210			
							PHYSCHAR			WATERCON	56	%-BYWT	25.42		
							PHYSCHAR			SAND	56	%-BYWT	51.86		
							PHYSCHAR			SILT	56	%-BYWT	2.3		
							PHYSCHAR			CLAY	56	%-BYWT	5.64		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	0.1		
							CHEMCHAR			TCOPPER	182	UG/GM-DW	5.1		B
							CHEMCHAR			TIRON	183	%-BYWT	0.93		
							CHEMCHAR			TMANGAN	184	UG/GM-DW	619.3		
							CHEMCHAR			TNICKEL	185	UG/GM-DW	37.5		
							CHEMCHAR			TZINC	186	UG/GM-DW	52.4		
XIF5501	860428	0	15	2139997	SEDIMENT	1	GRAB	BA			3915275	7620090			
							PHYSCHAR			WATERCON	56	%-BYWT	20.37		
							PHYSCHAR			SAND	56	%-BYWT	94.64		
							PHYSCHAR			SILT	56	%-BYWT	2.72		
							PHYSCHAR			CLAY	56	%-BYWT	2.64		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	0.1		
							CHEMCHAR			TCOPPER	182	UG/GM-DW	0.1		B
							CHEMCHAR			TIRON	183	%-BYWT	0.41		
							CHEMCHAR			TMANGAN	184	UG/GM-DW	453.3		
							CHEMCHAR			TNICKEL	185	UG/GM-DW	6.1		
							CHEMCHAR			TZINC	186	UG/GM-DW	24.1		
							PHYSCHAR			WATERCON	56	%-BYWT	13.95		
							PHYSCHAR			SAND	56	%-BYWT	98.45		
							PHYSCHAR			SILT	56	%-BYWT	6.75		
							PHYSCHAR			CLAY	56	%-BYWT	0.8		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	0.1		
							CHEMCHAR			TCOPPER	182	UG/GM-DW	5.1		
							CHEMCHAR			TIRON	183	%-BYWT	0.41		
							CHEMCHAR			TMANGAN	184	UG/GM-DW	564.8		
							CHEMCHAR			TNICKEL	185	UG/GM-DW	0.1		B
							CHEMCHAR			TZINC	186	UG/GM-DW	30.4		
							PHYSCHAR			WATERCON	56	%-BYWT	19.72		
							PHYSCHAR			SAND	56	%-BYWT	97.36		
							PHYSCHAR			SILT	56	%-BYWT	1.25		
							PHYSCHAR			CLAY	56	%-BYWT	1.35		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	20.8		
XIF5501	860428	0	15	2139997	SEDIMENT	1	GRAB	BA			3915275	7620090			
							CHEMCHAR			TCOPPER	182	UG/GM-DW	0.1		
							CHEMCHAR			TIRON	183	%-BYWT	0.5		
							CHEMCHAR			TMANGAN	184	UG/GM-DW	508.8		
							CHEMCHAR			TNICKEL	185	UG/GM-DW	14.4		
							CHEMCHAR			TZINC	186	UG/GM-DW	24.1		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE		
			FT		CLASS		METHOD							REM	
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	
XIF5805	860428	0	14	2139997	SEDIMENT	1	GRAB	BA			3915510	7620315			
								PHYSCHAR	.	WATERCON	56	%-BYWT	39.51		
								PHYSCHAR	.	SAND	56	%-BYWT	43.8		
								PHYSCHAR	.	SILT	56	%-BYWT	32.22		
								PHYSCHAR	.	CLAY	56	%-BYWT	23.98		
								CHEMCHAR	.	TCHROMUM	181	UG/GM-DW	41.6		
								CHEMCHAR	.	TCOPPER	182	UG/GM-DW	16.2		
								CHEMCHAR	.	TIRON	183	%-BYWT	2.36		
								CHEMCHAR	.	TMANGAN	184	UG/GM-DW	1178.3		
								CHEMCHAR	.	TNICKEL	185	UG/GM-DW	37.6		
								CHEMCHAR	.	TZINC	186	UG/GM-DW	116.8		
XIF6008	860428	0	10	2139997	SEDIMENT	1	GRAB	BA			3916000	7620500			
								PHYSCHAR	.	WATERCON	56	%-BYWT	18.08		
								PHYSCHAR	.	SAND	56	%-BYWT	98.16		
								PHYSCHAR	.	SILT	56	%-BYWT	1		
								PHYSCHAR	.	CLAY	56	%-BYWT	0.84		
								CHEMCHAR	.	TCHROMUM	181	UG/GM-DW	0.1	B	
								CHEMCHAR	.	TCOPPER	182	UG/GM-DW	0.1	B	
								CHEMCHAR	.	TIRON	183	%-BYWT	0.33		
								CHEMCHAR	.	TMANGAN	184	UG/GM-DW	1150.3		
								CHEMCHAR	.	TNICKEL	185	UG/GM-DW	0.1		
								CHEMCHAR	.	TZINC	186	UG/GM-DW	27.2		
XIF6407	860428	0	14	2139997	SEDIMENT	1	GRAB	BA			3916200	7620420			
								PHYSCHAR	.	WATERCON	56	%-BYWT	68.7		
								PHYSCHAR	.	SAND	56	%-BYWT	1.13		
								PHYSCHAR	.	SILT	56	%-BYWT	43.54		
								PHYSCHAR	.	CLAY	56	%-BYWT	55.33		
								CHEMCHAR	.	TCHROMUM	181	UG/GM-DW	82.5		
								CHEMCHAR	.	TCOPPER	182	UG/GM-DW	45.3		
								CHEMCHAR	.	TIRON	183	%-BYWT	4.56		
								CHEMCHAR	.	TMANGAN	184	UG/GM-DW	4101.2		
								CHEMCHAR	.	TNICKEL	185	UG/GM-DW	60.9		
								CHEMCHAR	.	TZINC	186	UG/GM-DW	244.1		
XIF5722	860428	0	12	2139997	SEDIMENT	1	GRAB	BA			3915410	7622135			
								PHYSCHAR	.	WATERCON	56	%-BYWT	57.17		
								PHYSCHAR	.	SAND	56	%-BYWT	18.36		
								PHYSCHAR	.	SILT	56	%-BYWT	40.26		
								PHYSCHAR	.	CLAY	56	%-BYWT	41.39		
								CHEMCHAR	.	TCHROMUM	181	UG/GM-DW	103.4		
								CHEMCHAR	.	TCOPPER	182	UG/GM-DW	35.3		
								CHEMCHAR	.	TIRON	183	%-BYWT	3.72		
								CHEMCHAR	.	TMANGAN	184	UG/GM-DW	953.7		
								CHEMCHAR	.	TNICKEL	185	UG/GM-DW	60.9		
								CHEMCHAR	.	TZINC	186	UG/GM-DW	216.9		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
			FT		CLASS		METHOD									
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM	
XIF3620	860428	0	18	2139997	SEDIMENT	1	GRAB	BA			3913330	7621590				
								PHYSCHAR		WATERCON	56	X-BYWT	62.27			
								PHYSCHAR		SAND	56	X-BYWT	0.62			
								PHYSCHAR		SILT	56	X-BYWT	36.67			
								PHYSCHAR		CLAY	56	X-BYWT	62.72			
								CHEMCHAR		TCHROMUM	181	UG/GM-DW	103.4			
								CHEMCHAR		TCOPPER	182	UG/GM-DW	65.2			
								CHEMCHAR		TIRON	183	X-BYWT	5.02			
								CHEMCHAR		TMANGAN	184	UG/GM-DW	5733.2			
								CHEMCHAR		TNICKEL	185	UG/GM-DW	106			
								CHEMCHAR		TZINC	186	UG/GM-DW	282.1			
XIF3064	860428	0	15	2139997	SEDIMENT	1	GRAB	BA			3913005	7623390				
								PHYSCHAR		WATERCON	56	X-BYWT	65.11			
								PHYSCHAR		SAND	56	X-BYWT	37.61			
								PHYSCHAR		SILT	56	X-BYWT	24.5			
								PHYSCHAR		CLAY	56	X-BYWT	37.9			
								CHEMCHAR		TCHROMUM	181	UG/GM-DW	165			
								CHEMCHAR		TCOPPER	182	UG/GM-DW	55.3			
								CHEMCHAR		TIRON	183	X-BYWT	5.16			
								CHEMCHAR		TMANGAN	184	UG/GM-DW	5524.1			
								CHEMCHAR		TNICKEL	185	UG/GM-DW	108.1			
								CHEMCHAR		TZINC	186	UG/GM-DW	276.9			
XIF5505	860428	0	14	2139997	SEDIMENT	1	GRAB	BA			3915275	7620310				
								PHYSCHAR		WATERCON	56	X-BYWT	26.39			
								PHYSCHAR		SAND	56	X-BYWT	38.51			
								PHYSCHAR		SILT	56	X-BYWT	45.06			
								PHYSCHAR		CLAY	56	X-BYWT	16.43			
								CHEMCHAR		TCHROMUM	181	UG/GM-DW	0.1	B		
								CHEMCHAR		TCOPPER	182	UG/GM-DW	15.2			
								CHEMCHAR		TIRON	183	X-BYWT	0.98			
								CHEMCHAR		TMANGAN	184	UG/GM-DW	953.2			
								CHEMCHAR		TNICKEL	185	UG/GM-DW	25.9			
								CHEMCHAR		TZINC	186	UG/GM-DW	46.1			
								PHYSCHAR		WATERCON	56	X-BYWT	25.82			
								PHYSCHAR		SAND	56	X-BYWT	95.63			
								PHYSCHAR		SILT	56	X-BYWT	2.68			
								PHYSCHAR		CLAY	56	X-BYWT	1.69			
								CHEMCHAR		TCHROMUM	181	UG/GM-DW	0.1	B		
								CHEMCHAR		TCOPPER	182	UG/GM-DW	0.1			
								CHEMCHAR		TIRON	183	X-BYWT	0.46			
								CHEMCHAR		TMANGAN	184	UG/GM-DW	731.1			
								CHEMCHAR		TNICKEL	185	UG/GM-DW	26			
								CHEMCHAR		TZINC	186	UG/GM-DW	30.4			
								PHYSCHAR		WATERCON	56	X-BYWT	20.84			
								PHYSCHAR		SAND	56	X-BYWT	39.8			
								PHYSCHAR		SILT	56	X-BYWT	58.4			
								PHYSCHAR		CLAY	56	X-BYWT	1.8			
								CHEMCHAR		TCHROMUM	181	UG/GM-DW	0.1	B		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE		
FT					CLASS		METHOD							REM	
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	
XIF5505	860428	0	14	2139997	SEDIMENT	1	GRAB	BA			3915275	7620310			
					CHEMCHAR					TCOPPER	182	UG/GM-DW	15.2		
					CHEMCHAR					TIRON	183	%-BYWT	0.72		
					CHEMCHAR					TMANGAN	184	UG/GM-DW	730.7		
					CHEMCHAR					TNICKEL	185	UG/GM-DW	14.4		
					CHEMCHAR					TZINC	186	UG/GM-DW	30.4		
XIG7589	860428	0	13	2139997	SEDIMENT	1	GRAB	BA			3917290	7618545			
					PHYSCHAR					WATERCON	56	%-BYWT	40.9		
					PHYSCHAR					SAND	56	%-BYWT	62.41		
					PHYSCHAR					SILT-	56	%-BYWT	16.16		
					PHYSCHAR					CLAY:	56	%-BYWT	21.03		
					CHEMCHAR					TCHROMUM	181	UG/GM-DW	82.9		
					CHEMCHAR					TCOPPER	182	UG/GM-DW	35.3		
					CHEMCHAR					TIRON	183	%-BYWT	2.57		
					CHEMCHAR					TMANGAN	184	UG/GM-DW	1038.6		
					CHEMCHAR					TNICKEL	185	UG/GM-DW	37.6		
					CHEMCHAR					TZINC	186	UG/GM-DW	136.6		
XIF4642	860428	0	13	2139997	SEDIMENT	1	GRAB	BA			3914360	7624140			
					PHYSCHAR					WATERCON	56	%-BYWT	54.54		
					PHYSCHAR					SAND	56	%-BYWT	49.93		
					PHYSCHAR					SILT-	56	%-BYWT	27.81		
					PHYSCHAR					CLAY:	56	%-BYWT	22.26		
					CHEMCHAR					TCHROMUM	181	UG/GM-DW	82.9		
					CHEMCHAR					TCOPPER	182	UG/GM-DW	55.3		
					CHEMCHAR					TIRON	183	%-BYWT	2.78		
					CHEMCHAR					TMANGAN	184	UG/GM-DW	758.5		
					CHEMCHAR					TNICKEL	185	UG/GM-DW	49.2		
					CHEMCHAR					TZINC	186	UG/GM-DW	199.8		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE		
			FT		CLASS		METHOD							REM	
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF5302	860428	0	19	2139997	SEDIMENT	1	GRAB - BA				3915010	7620035			
							PHYSCHAR			WATERCON	56	%-BYWT	60.28		
							PHYSCHAR			SAND	56	%-BYWT	14.2		
							PHYSCHAR			SILT	56	%-BYWT	36.11		
							PHYSCHAR			CLAY	56	%-BYWT	49.69		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	82.9		
							CHEMCHAR			TCOPPER	182	UG/GM-DW	65.3	OK	
							CHEMCHAR			TIRON	183	%-BYWT	4.65		
							CHEMCHAR			TMANGAN	184	UG/GM-DW	2836.5		
							CHEMCHAR			TNICKEL	185	U6/GM-DW	84.4		
							CHEMCHAR			TZINC	186	U6/GM-DW	258.1		
							PHYSCHAR			WATERCON	56	%-BYWT	51.83		
							PHYSCHAR			SAND	56	%-BYWT	54.45		
							PHYSCHAR			SILT	56	%-BYWT	17.49		
							PHYSCHAR			CLAY	56	%-BYWT	28.06		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	62.3		
							CHEMCHAR			TCOPPER	182	UG/GM-DW	35.3		
							CHEMCHAR			TIRON	183	%-BYWT	2.53		
							CHEMCHAR			TMANGAN	184	U6/GM-DW	1488.4		
							CHEMCHAR			TNICKEL	185	U6/GM-DW	49.2	OK	
							CHEMCHAR			TZINC	186	U6/GM-DW	143.1		
							PHYSCHAR			WATERCON	56	%-BYWT	44.18		
							PHYSCHAR			SAND	56	%-BYWT	57.24		
							PHYSCHAR			SILT	56	%-BYWT	15.84		
							PHYSCHAR			CLAY	56	%-BYWT	26.92		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	0.1		R
XIF5302	860428	0	19	2139997	SEDIMENT	1	UNKNOWN - BA				3915010	7620035			
							CHEMCHAR			TCOPPER	182	UG/GM-DW	25.3		
							CHEMCHAR			TIRON	183	%-BYWT	2.49		
							CHEMCHAR			TMANGAN	184	UG/GM-DW	1630		
							CHEMCHAR			TNICKEL	185	UG/GM-DW	37.6		
							CHEMCHAR			TZINC	186	UG/GM-DW	149.7		
XIF4405	860428	0	19	2139997	SEDIMENT	1	GRAB - BA				3914220	7620290			
							PHYSCHAR			WATERCON	56	%-BYWT	59.21		
							PHYSCHAR			SAND	56	%-BYWT	2.14		
							PHYSCHAR			SILT	56	%-BYWT	34.67		
							PHYSCHAR			CLAY	56	%-BYWT	63.19		
							CHEMCHAR			TCHROMUM	181	UG/GM-DW	103.5		
							CHEMCHAR			TCOPPER	182	UG/GM-DW	85		
							CHEMCHAR			TIRON	183	%-BYWT	5.16		
							CHEMCHAR			TMANGAN	184	UG/GM-DW	2373.3		
							CHEMCHAR			TNICKEL	185	UG/GM-DW	84.4		
							CHEMCHAR			TZINC	186	UG/GM-DW	275.5		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUB METHOD	SAMPLE CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
												MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF4016	860428	0	17	2139997	SEDIMENT	1	GRAB BA			3913580	7621350	WATERCON	56	%-BYWT	63.91	
							PHYSCHAR					SAND	56	%-BYWT	4.41	
							PHYSCHAR					SILT	56	%-BYWT	37.9	
							PHYSCHAR					CLAY	56	%-BYWT	57.69	
							CHEMCHAR					TCHROMUM	181	UG/GM-DW	103.5	OK
							CHEMCHAR					TCOPPER	182	UG/GM-DW	65.3	
							CHEMCHAR					TIRON	183	%-BYWT	4.86	
							CHEMCHAR					TMANGAN	184	UG/GM-DW	4733.4	
							CHEMCHAR					TNICKEL	185	UG/GM-DW	96.2	
							CHEMCHAR					TZINC	186	UG/GM-DW	227.1	
XIF2038	860428	0	16	2139997	SEDIMENT	1	GRAB BA			3911595	7623470	WATERCON	56	%-BYWT	64.77	
							PHYSCHAR					SAND	56	%-BYWT	3.17	
							PHYSCHAR					SILT	56	%-BYWT	36.95	
							PHYSCHAR					CLAY	56	%-BYWT	59.87	
							CHEMCHAR					TCHROMUM	181	UG/GM-DW	124	
							CHEMCHAR					TCOPPER	182	UG/GM-DW	75.2	
							CHEMCHAR					TIRON	183	%-BYWT	5.82	
							CHEMCHAR					TMANGAN	184	UG/GM-DW	5769.7	
							CHEMCHAR					TNICKEL	185	UG/GM-DW	120	
							CHEMCHAR					TZINC	186	UG/GM-DW	407.6	
108 XIF4615	860428	0	16	2139997	SEDIMENT	1	GRAB BA			3914370	7621300	WATERCON	56	%-BYWT	64.06	
							PHYSCHAR					SAND	56	%-BYWT	6.25	
							PHYSCHAR					SILT	56	%-BYWT	53.11	
							PHYSCHAR					CLAY	56	%-BYWT	40.64	
							CHEMCHAR					TCHROMUM	181	UG/GM-DW	103.4	
							CHEMCHAR					TCOPPER	182	UG/GM-DW	55.3	
							CHEMCHAR					TIRON	183	%-BYWT	3.93	
							CHEMCHAR					TMANGAN	184	UG/GM-DW	2372.1	
							CHEMCHAR					TNICKEL	185	UG/GM-DW	37.6	
							CHEMCHAR					TZINC	186	UG/GM-DW	193.1	
							PHYSCHAR					WATERCON	56	%-BYWT	59.98	
							PHYSCHAR					SAND	56	%-BYWT	5.6	
							PHYSCHAR					SILT	56	%-BYWT	47.75	
							PHYSCHAR					CLAY	56	%-BYWT	46.45	
							CHEMCHAR					TCHROMUM	181	UG/GM-DW	82.9	
							CHEMCHAR					TCOPPER	182	UG/GM-DW	45.3	
							CHEMCHAR					TIRON	183	%-BYWT	3.98	
							CHEMCHAR					TMANGAN	184	UG/GM-DW	2575.4	
							CHEMCHAR					TNICKEL	185	UG/GM-DW	60.9	
							CHEMCHAR					TZINC	186	UG/GM-DW	234	
							PHYSCHAR					WATERCON	56	%-BYWT	61.99	
							PHYSCHAR					SAND	56	%-BYWT	4.19	
							PHYSCHAR					SILT	56	%-BYWT	48.55	
							PHYSCHAR					CLAY	56	%-BYWT	47.26	
							CHEMCHAR					TCHROMUM	181	UG/GM-DW	124	

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
													FT	CLASS	METHOD	MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF4615	860428	0	16	2139997	SEDIMENT	1	GRAB	BA			3914370	7621300	TCOPPER	182	UG/GM-DW	35.3	
								CHEMCHAR	.			TIRON	183	X-BYWT	3.97		
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2027.8		
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	72.6		
								CHEMCHAR	.			TZINC	186	UG/GM-DW	233.6		
XIF5925	860428	0	12	2139997	SEDIMENT	1	GRAB	BA			3915510	7622340	TCOPPER	182	UG/GM-DW	54.96	5
								PHYSCHAR	.			WATERCON	56	X-BYWT	2.31		
								PHYSCHAR	.			SAND	56	X-BYWT	35.06		
								PHYSCHAR	.			SILT	56	X-BYWT	62.63		
								PHYSCHAR	.			CLAY	56	X-BYWT	124		
								CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	65.3		
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	5.03		
								CHEMCHAR	.			TIRON	183	X-BYWT	1460.1		
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	72.6		
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	314.1		
								CHEMCHAR	.			TZINC	186	UG/GM-DW	64.45		
								PHYSCHAR	.			WATERCON	56	X-BYWT	2.13		
								PHYSCHAR	.			SAND	56	X-BYWT	35.48		
								PHYSCHAR	.			SILT	56	X-BYWT	62.39		
								CHEMCHAR	.			CLAY	56	X-BYWT	103.4		
								CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	75.1		
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	5.02		
								CHEMCHAR	.			TIRON	183	X-BYWT	1317.7		
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	155.7		
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	282.1		
								CHEMCHAR	.			TZINC	186	UG/GM-DW	63.05		
								PHYSCHAR	.			WATERCON	56	X-BYWT	1.72		
								PHYSCHAR	.			SAND	56	X-BYWT	35.21		
								PHYSCHAR	.			SILT	56	X-BYWT	63.07		
								PHYSCHAR	.			CLAY	56	X-BYWT	123.9	7	
XIF5925	860428	0	12	2139997	SEDIMENT	1	GRAB	BA			3915510	7622340	TCHROMUM	181	UG/GM-DW	65.2	
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	4.98		
								CHEMCHAR	.			TIRON	183	X-BYWT	1289.5		
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	108.		
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	327.9		
								CHEMCHAR	.			TZINC	186	UG/GM-DW			

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
							CLASS	METHOD	MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF4024	860429	0	15	2139997	SEDIMENT	1	CORES	BA			3914010	7622210				
								PHYSCHAR	99900003		WATERCON	56	X-BYWT	55.46		
								PHYSCHAR	99900003		SAND	56	X-BYWT	1.22		
								PHYSCHAR	99900003		SILT	56	X-BYWT	50.71		
								PHYSCHAR	99900003		CLAY	56	X-BYWT	48.06		
								CHEMCHAR	99900003		TCHROMUM	181	UG/GM-DW	106.7		
								CHEMCHAR	99900003		TCOPPER	182	UG/GM-DW	39.1		
								CHEMCHAR	99900003		TIRON	183	X-BYWT	2.58		
								CHEMCHAR	99900003		TMANGAN	184	UG/GM-DW	810.5		
								CHEMCHAR	99900003		TNICKEL	185	UG/GM-DW	50.5		
								CHEMCHAR	99900003		TZINC	186	UG/GM-DW	109.5		
								PHYSCHAR	99907009		WATERCON	56	X-BYWT	39.66		
								PHYSCHAR	99907009		SAND	56	X-BYWT	0.84		
								PHYSCHAR	99907009		SILT	56	X-BYWT	53.03		
								PHYSCHAR	99907009		CLAY	56	X-BYWT	46.13		
								CHEMCHAR	99907009		TCHROMUM	181	UG/GM-DW	88.1		
								CHEMCHAR	99907009		TCOPPER	182	UG/GM-DW	28.7		
								CHEMCHAR	99907009		TIRON	183	X-BYWT	2.39		
								CHEMCHAR	99907009		TMANGAN	184	UG/GM-DW	276.5		
								CHEMCHAR	99907009		TNICKEL	185	UG/GM-DW	32.9		
								CHEMCHAR	99907009		TZINC	186	UG/GM-DW	75.9		
								PHYSCHAR	99914016		WATERCON	56	X-BYWT	44.68		
								PHYSCHAR	99914016		SAND	56	X-BYWT	0.29		
								PHYSCHAR	99914016		SILT	56	X-BYWT	49.21		
								PHYSCHAR	99914016		CLAY	56	X-BYWT	50.5		
								CHEMCHAR	99914016		TCHROMUM	181	UG/GM-DW	101.7		
XIF4024.	860429	0	15	2139997	SEDIMENT	1	CORES	BA			3914010	7622210				
								CHEMCHAR	99914016		TCOPPER	182	UG/GM-DW	28.7		
								CHEMCHAR	99914016		TIRON	183	X-BYWT	2.77		
								CHEMCHAR	99914016		TMANGAN	184	UG/GM-DW	373.1		
								CHEMCHAR	99914016		TNICKEL	185	UG/GM-DW	32.9		
								CHEMCHAR	99914016		TZINC	186	UG/GM-DW	83.3		
								PHYSCHAR	99921024		WATERCON	56	X-BYWT	56.55		
								PHYSCHAR	99921024		SAND	56	X-BYWT	0.63		
								PHYSCHAR	99921024		SILT	56	X-BYWT	37.07		
								PHYSCHAR	99921024		CLAY	56	X-BYWT	62.3		
								CHEMCHAR	99921024		TCHROMUM	181	UG/GM-DW	112		
								CHEMCHAR	99921024		TCOPPER	182	UG/GM-DW	28.7		
								CHEMCHAR	99921024		TIRON	183	X-BYWT	4.17		
								CHEMCHAR	99921024		TMANGAN	184	UG/GM-DW	1055.5		
								CHEMCHAR	99921024		TNICKEL	185	UG/GM-DW	50.5		
								CHEMCHAR	99921024		TZINC	186	UG/GM-DW	162.2		
								PHYSCHAR	99931034		WATERCON	56	X-BYWT	59.53		
								PHYSCHAR	99931034		SAND	56	X-BYWT	7.83		
								PHYSCHAR	99931034		SILT	56	X-BYWT	36.9		
								PHYSCHAR	99931034		CLAY	56	X-BYWT	55.27		
								CHEMCHAR	99931034		DCHROMUM	181	UG/GM-DW	128.4		
								CHEMCHAR	99931034		TCOPPER	182	UG/GM-DW	60.1		
								CHEMCHAR	99931034		TIRON	183	X-BYWT	5.82		
								CHEMCHAR	99931034		TMANGAN	184	UG/GM-DW	2656.7		
								CHEMCHAR	99931034		1480	185	UG/GM-DW	121.4		
								CHEMCHAR	99931034		TZINC	186	UG/GM-DW	508.8		

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB CLASS	SAMPLE CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT										REM
XIF4024	860429	0	15	2139997	SEDIMENT	1	CORES BA			3914010	7622210		
							PHYSCHAR	99950052		WATERCON	56	%-BYWT	53.36
							PHYSCHAR	99950052		SAND	56	%-BYWT	5.86
							PHYSCHAR	99950052		SILT	56	%-BYWT	37.17
							PHYSCHAR	99950052		CLAY	56	%-BYWT	56.57
							CHEMCHAR	99950052		TCHROMUM	181	UG/GM-DW	96.1
							CHEMCHAR	99950052		TCOPPER	182	UG/GM-DW	28.7
							CHEMCHAR	99950052		TIRON	183	%-BYWT	5.02
							CHEMCHAR	99950052		TMANGAN	184	UG/GM-DW	1926.8
							CHEMCHAR	99950052		TNICKEL	185	UG/GM-DW	68.2
							CHEMCHAR	99950052		TZINC	186	UG/GM-DW	117.2
							PHYSCHAR	99960062		WATERCON	56	%-BYWT	60.04
							PHYSCHAR	99960062		SAND	56	%-BYWT	3.66
							PHYSCHAR	99960062		SILT	56	%-BYWT	39.73
							PHYSCHAR	99960062		CLAY	56	%-BYWT	56.58
							CHEMCHAR	99960062		TCHROMUM	181	UG/GM-DW	95.2
							CHEMCHAR	99960062		TCOPPER	182	UG/GM-DW	18.3
							CHEMCHAR	99960062		TIRON	183	%-BYWT	5.09
							CHEMCHAR	99960062		TMANGAN	184	UG/GM-DW	1226.3
							CHEMCHAR	99960062		TNICKEL	185	UG/GM-DW	32.9
							CHEMCHAR	99960062		TZINC	186	UG/GM-DW	113.4
							PHYSCHAR	99980082		WATERCON	56	%-BYWT	60.73
							PHYSCHAR	99980082		SAND	56	%-BYWT	4.44
							PHYSCHAR	99980082		SILT	56	%-BYWT	42.23
							PHYSCHAR	99980082		CLAY	56	%-BYWT	53.32
							CHEMCHAR	99980082		TCHROMUM	181	UG/GM-DW	95.2
XIF4024	860429	0	15	2139997	SEDIMENT	1	CORES BA			3914010	7622210		
							CHEMCHAR	99980082		TCOPPER	182	UG/GM-DW	19.2
							CHEMCHAR	99980082		TIRON	183	%-BYWT	5.15
							CHEMCHAR	99980082		TMANGAN	184	UG/GM-DW	1178.4
							CHEMCHAR	99980082		TNICKEL	185	UG/GM-DW	32.9
							CHEMCHAR	99980082		TZINC	186	UG/GM-DW	109.5

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE						
													CLASS	METHOD	MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF4285	860429	0	16	2139997	SEDIMENT	1	CORES	BA			3914125	7621090							
							PHYSCHAR	99900004					WATERCON	56	%-BYWT	61.81			
							PHYSCHAR	99900004					SAND	56	%-BYWT	2.66			
							PHYSCHAR	99900004					SILT	56	%-BYWT	37.63			
							PHYSCHAR	99900004					CLAY	56	%-BYWT	59.71			
							CHEMCHAR	99900004					TCHROMUM	181	UG/GM-DW	126.			
							CHEMCHAR	99900004					TCOPPER	182	UG/GM-DW	70.6			
							CHEMCHAR	99900004					TIRON	183	%-BYWT	6.09			
							CHEMCHAR	99900004					TMANGAN	184	UG/GM-DW	1695.5			
							CHEMCHAR	99900004					TNICKEL	185	UG/GM-DW	103.6			
							CHEMCHAR	99900004					TZINC	186	UG/GM-DW	378.1			
							PHYSCHAR	99928052					WATERCON	56	%-BYWT	57.13			
							PHYSCHAR	99928032					SAND	56	%-BYWT	2.15			
							PHYSCHAR	99928032					SILT	56	%-BYWT	34.21			
							PHYSCHAR	99928032					CLAY	56	%-BYWT	63.64			
							CHEMCHAR	99928032					TCHROMUM	181	UG/GM-DW	107.6			
							CHEMCHAR	99928032					TCOPPER	182	UG/GM-DW	81.1			
							CHEMCHAR	99928032					TIRON	183	%-BYWT	5.89			
							CHEMCHAR	99928032					TMANGAN	184	UG/GM-DW	2048.8			
							CHEMCHAR	99928032					TNICKEL	185	UG/GM-DW	103.6			
							CHEMCHAR	99928032					TZINC	186	UG/GM-DW	300.4			
							PHYSCHAR	99950054					WATERCON	56	%-BYWT	58.96			
							PHYSCHAR	99950054					SAND	56	%-BYWT	1.17			
							PHYSCHAR	99950054					SILT	56	%-BYWT	36.9			
							PHYSCHAR	99950054					CLAY	56	%-BYWT	61.93			
							CHEMCHAR	99950054					TCHROMUM	181	UG/GM-DW	95.2			
112	XIF4285.	860429	0	16	2139997	SEDIMENT	1	CORES	BA		3914125	7621090							
							CHEMCHAR	99950054					TCOPPER	182	UG/GM-DW	49.6			
							CHEMCHAR	99950054					TIRON	183	%-BYWT	5.69			
							CHEMCHAR	99950054					TMANGAN	184	UG/GM-DW	2351.1			
							CHEMCHAR	99950054					TNICKEL	185	UG/GM-DW	85.9			
							CHEMCHAR	99950054					TZINC	186	UG/GM-DW	189.8			
							PHYSCHAR	99994098					WATERCON	56	%-BYWT	60.12			
							PHYSCHAR	99994098					SAND	56	%-BYWT	1.78			
							PHYSCHAR	99994098					SILT	56	%-BYWT	34.7			
							PHYSCHAR	99994098					CLAY	56	%-BYWT	63.52			
							CHEMCHAR	99994098					TCHROMUM	181	UG/GM-DW	91.2			
							CHEMCHAR	99994098					TCOPPER	182	UG/GM-DW	18.3			
							CHEMCHAR	99994098					TIRON	183	%-BYWT	5.45			
							CHEMCHAR	99994098					TMANGAN	184	UG/GM-DW	1179			
							CHEMCHAR	99994098					TNICKEL	185	UG/GM-DW	32.9			
							CHEMCHAR	99994098					TZINC	186	UG/GM-DW	109.6			

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE									
								MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM						
XIF4615	860428	0	14	2139997	SEDIMENT	1	CORES	BA	3914370	7621300												
							PHYSCHAR	99900004		WATERCON	56	X-BYWT				S						
							PHYSCHAR	99900004		SAND	56	X-BYWT	9.39									
							PHYSCHAR	99900004		SILT	56	X-BYWT	49.82									
							PHYSCHAR	99900004		CLAY	56	X-BYWT	40.8									
							CHEMCHAR	99900004		TCHROMUM	181	UG/GM-DW	94.4									
							CHEMCHAR	99900004		TCOPPER	182	UG/GM-DW	39.1									
							CHEMCHAR	99900004		TIRON	183	X-BYWT	6.09									
							CHEMCHAR	99900004		TMANGAN	184	UG/GM-DW	1624									
							CHEMCHAR	99900004		TNICKEL	185	UG/GM-DW	68.2									
							CHEMCHAR	99900004		TZINC	186	UG/GM-DW	228.8									
							PHYSCHAR	99910014		WATERCON	56	X-BYWT				S						
							PHYSCHAR	99910014		SAND	56	X-BYWT	9.53									
							PHYSCHAR	99910014		SILT	56	X-BYWT	62.08									
							PHYSCHAR	99910014		CLAY	56	X-BYWT	28.39									
							CHEMCHAR	99910014		TCHROMUM	181	UG/GM-DW	90.9									
							CHEMCHAR	99910014		TCOPPER	182	UG/GM-DW	25.7									
							CHEMCHAR	99910014		TIRON	183	X-BYWT	5.49									
							CHEMCHAR	99910014		TMANGAN	184	UG/GM-DW	543									
							CHEMCHAR	99910014		TNICKEL	185	UG/GM-DW	32.9									
							CHEMCHAR	99910014		TZINC	186	UG/GM-DW	102.1									
							PHYSCHAR	99916020		WATERCON	56	X-BYWT	39.24									
							PHYSCHAR	99916020		SAND	56	X-BYWT	1.92									
							PHYSCHAR	99916020		SILT	56	X-BYWT	55.65									
							PHYSCHAR	99916020		CLAY	56	X-BYWT	42.43									
							CHEMCHAR	99916020		TCHROMUM	181	UG/GM-DW	55.1									
							XIF4615	860428	0	14	2139997	SEDIMENT	1	CORES	BA	3914370	7621300					
							CHEMCHAR	99916020		TCOPPER	182	UG/GM-DW	28.7									
							CHEMCHAR	99916020		TIRON	183	X-BYWT	6.16									
							CHEMCHAR	99916020		TMANGAN	184	UG/GM-DW	349.1									
							CHEMCHAR	99916020		TNICKEL	185	UG/GM-DW	32.9									
							CHEMCHAR	99916020		TZINC	186	UG/GM-DW	75.9									
							PHYSCHAR	99922026		WATERCON	56	X-BYWT	56.2									
							PHYSCHAR	99922026		SAND	56	X-BYWT	1.87									
							PHYSCHAR	99922026		SILT	56	X-BYWT	47.12									
							PHYSCHAR	99922026		CLAY	56	X-BYWT	51.01									
							CHEMCHAR	99922026		TCHROMUM	181	UG/GM-DW	96.6									
							CHEMCHAR	99922026		TCOPPER	182	UG/GM-DW	39.1									
							CHEMCHAR	99922026		TIRON	183	X-BYWT	6.64									
							CHEMCHAR	99922026		TMANGAN	184	UG/GM-DW	1923.5									
							CHEMCHAR	99922026		TNICKEL	185	UG/GM-DW	65.2									
							CHEMCHAR	99922026		TZINC	186	UG/GM-DW	213.1									
							PHYSCHAR	99928032		WATERCON	56	X-BYWT	58.45									
							PHYSCHAR	99928032		SAND	56	X-BYWT	4.2									
							PHYSCHAR	99928032		SILT	56	X-BYWT	37.29									
							PHYSCHAR	99928032		CLAY	56	X-BYWT	58.51									
							CHEMCHAR	99928032		TCHROMUM	181	UG/GM-DW	108									
							CHEMCHAR	99928032		TCOPPER	182	UG/GM-DW	49.6									
							CHEMCHAR	99928032		TIRON	123	X-BYWT	4.96									
							CHEMCHAR	99928032		TMANGAN	184	UG/GM-DW	1849.3									
							CHEMCHAR	99928032		TNICKEL	185	UG/GM-DW	85.9									
							CHEMCHAR	99928032		TZINC	186	UG/GM-DW	349.3									

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS		METHOD							REM
					MEDIA		PHYLUM		CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE
XIF4615	860428	0	14	2139997	SEDIMENT	1	CORES	BA			3914370	7621300		
					PHYSCHAR		99948052		WATERCON	56	X-BYWT	51.		
					PHYSCHAR		99948052		- SAND	56	X-BYWT	5.13		
					PHYSCHAR		99948052		SILT	56	X-BYWT	40.02		
					PHYSCHAR		99948052		CLAY	56	X-BYWT	54.85		
					CHEMCHAR		99948052		TCHROMUM	181	UG/GM-DW	92.7		
					CHEMCHAR		99948052		TCOPPER	182	UG/GM-DW	70.6		
					CHEMCHAR		99948052		TIIRON	183	X-BYWT	4.82		
					CHEMCHAR		99948052		TMANGAN	184	UG/GM-DW	1624.8		
					CHEMCHAR		99948052		TNICKEL	185	UG/GM-DW	103.6		
					CHEMCHAR		99948052		TZINC	186	UG/GM-DW	305.6		
					PHYSCHAR		99988092		WATERCON	56	X-BYWT	61.46		
					PHYSCHAR		99988092		- SAND	56	X-BYWT	2.91		
					PHYSCHAR		99988092		SILT	56	X-BYWT	39.22		
					PHYSCHAR		99988092		CLAY	56	X-BYWT	57.82		
					CHEMCHAR		99988092		TCHROMUM	181	UG/GM-DW	76.7		
					CHEMCHAR		99988092		TCOPPER	182	UG/GM-DW	18.2		
					CHEMCHAR		99988092		TIIRON	183	X-BYWT	4.62		
					CHEMCHAR		99988092		TMANGAN	184	UG/GM-DW	1178.4		
					CHEMCHAR		99988092		TNICKEL	185	UG/GM-DW	32.9		
					CHEMCHAR		99988092		TZINC	186	UG/GM-DW	113.3		
XIF4703	860428	0	18	2139997	SEDIMENT	1	CORES	BA			3914420	7620200		
					PHYSCHAR		99900004		WATERCON	56	X-BYWT	61.56		
					PHYSCHAR		99900004		SAND	56	X-BYWT	3.82		
					PHYSCHAR		99900004		SILT	56	X-BYWT	40.27		
					PHYSCHAR		99900004		CLAY	56	X-BYWT	56.71		
					CHEMCHAR		99900004		TCHROMUM	181	UG/GM-DW	89.4		
					CHEMCHAR		99900004		TCOPPER	182	UG/GM-DW	60.1		
					CHEMCHAR		99900004		TIIRON	183	X-BYWT	5.28		
					CHEMCHAR		99900004		TMANGAN	184	UG/GM-DW	4075		
					CHEMCHAR		99900004		TNICKEL	185	UG/GM-DW	103.6		
					CHEMCHAR		99900004		TZINC	186	UG/GM-DW	478.6		
					PHYSCHAR		99934038		WATERCON	56	X-BYWT	60.2		
					PHYSCHAR		99934038		SAND	56	X-BYWT	1.22		
					PHYSCHAR		99934038		SILT	56	X-BYWT	32.22		
					PHYSCHAR		99934038		CLAY	56	X-BYWT	66.5		
					CHEMCHAR		99934038		TCHROMUM	181	UG/GM-DW	85.4		
					CHEMCHAR		99934038		TCOPPER	182	UG/GM-DW	18.2		
					CHEMCHAR		99934038		TIIRON	183	X-BYWT	4.95		
					CHEMCHAR		99934038		TMANGAN	184	UG/GM-DW	1648.9		
					CHEMCHAR		99934038		TNICKEL	185	UG/GM-DW	32.9		
					CHEMCHAR		99934038		TZINC	186	UG/GM-DW	117.1		
					PHYSCHAR		99956060		WATERCON	56	X-BYWT	61.15		
					PHYSCHAR		99956060		SAND	56	X-BYWT	1.72		
					PHYSCHAR		99956061		SILT	56	X-BYWT	39.9		
					PHYSCHAR		99956060		CLAY	56	X-BYWT	58.38		
					CHEMCHAR		99956060		TCHROMUM	181	UG/GM-DW	78.5		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS		METHOD							REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE
XIF4703	860428	0	18	2139997	SEDIMENT	1	UNKNOWN	BA			3914420	7620200		
							CHEMCHAR	99956060		TCOPPER	182	UG/GM+DW	15.3	
							CHEMCHAR	99956060		TIRON	183	%-BYWT	4.69	
							CHEMCHAR	99956060		TMANGAN	184	UG/GM+DW	1203.7	
							CHEMCHAR	99956060		TNICKEL	185	UG/GM+DW	32.9	
							CHEMCHAR	99956060		TZINC	186	UG/GM+DW	109.6	
							PHYSCHAR	99990094		WATERCON	56	%-BYWT	61.22	
							PHYSCHAR	99990094		SAND	56	%-BYWT	1.64	
							PHYSCHAR	99990094		SILT	56	%-BYWT	40.45	
							PHYSCHAR	99990094		CLAY	56	%-BYWT	57.91	
							CHEMCHAR	99990094		TCHROMUM	181	UG/GM+DW	78	
							CHEMCHAR	99990094		TCOPPER	182	UG/GM+DW	18.2	
							CHEMCHAR	99990094		TIRON	183	%-BYWT	4.36	
							CHEMCHAR	99990094		TMANGAN	184	UG/GM+DW	1276.4	
							CHEMCHAR	99990094		TNICKEL	185	UG/GM+DW	15.3	
							CHEMCHAR	99990094		TZINC	186	UG/GM+DW	109.6	
XIF6388	860428	0	8	2139997	SEDIMENT	1	UNKNOWN	BA		3916160	7621120			
							PHYSCHAR	99900004		WATERCON	56	%-BYWT	63.09	
							PHYSCHAR	99900004		SAND	56	%-BYWT	3.13	
							PHYSCHAR	99900004		SILT	56	%-BYWT	32.6	
							PHYSCHAR	99900004		CLAY	56	%-BYWT	64.27	
							CHEMCHAR	99900004		TCHROMUM	181	UG/GM+DW	67.4	
							CHEMCHAR	99900004		TCOPPER	182	UG/GM+DW	39.1	
							CHEMCHAR	99900004		TIRON	183	%-BYWT	4.76	
							CHEMCHAR	99900004		TMANGAN	184	UG/GM+DW	2782.7	
							CHEMCHAR	99900004		TNICKEL	185	UG/GM+DW	68.2	
							CHEMCHAR	99900004		TZINC	186	UG/GM+DW	296.4	
							PHYSCHAR	99904008		WATERCON	56	%-BYWT	63.92	
							PHYSCHAR	99904008		SAND	56	%-BYWT	3.39	
							PHYSCHAR	99904008		SILT	56	%-BYWT	35.72	
							PHYSCHAR	99904008		CLAY	56	%-BYWT	60.89	
							CHEMCHAR	99904008		TCHROMUM	181	UG/GM+DW	85.8	
							CHEMCHAR	99904008		TCOPPER	182	UG/GM+DW	28.7	
							CHEMCHAR	99904008		TIRON	183	%-BYWT	4.82	
							CHEMCHAR	99904008		TMANGAN	184	UG/GM+DW	1973.6	
							CHEMCHAR	99904008		TNICKEL	185	UG/GM+DW	85.9	
							CHEMCHAR	99904008		TZINC	186	UG/GM+DW	217	
							PHYSCHAR	99908010		WATERCON	56	%-BYWT	65.87	
							PHYSCHAR	99908010		SAND	56	%-BYWT	2.09	
							PHYSCHAR	99908010		SILT	56	%-BYWT	40.05	
							PHYSCHAR	99908010		CLAY	56	%-BYWT	57.66	
							CHEMCHAR	99908010		TCHROMUM	181	UG/GM+DW	95	

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB CLASS	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
			FT		METHOD		MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM	
XIF6388	860428	0	8	2139997	SEDIMENT	1	UNKNOWN BA				3916160	7621120				
					CHEMCHAR		99908010				TCOPPER	182	UG/GM-DW	70.6		
					CHEMCHAR		99906010				TIRON	183	X-BYWT	5.02		
					CHEMCHAR		99908010				TMANGAN	184	UG/GM-DW	4973.3		
					CHEMCHAR		99908010				TNICKEL	185	UG/GM-DW	65.9		
					CHEMCHAR		99908010				TZINC	186	UG/GM-DW	457.4		
					PHYSCHAR		99928032				WATERCON	56	X-BYWT	56.72		
					PHYSCHAR		99928032				SAND	56	X-BYWT	2.3		
					PHYSCHAR		99928032				SILT	56	X-BYWT	43.23		
					PHYSCHAR		99928032				CLAY	56	X-BYWT	54.42		
					CHEMCHAR		99928032				TCHROMUM	181	UG/GM-DW	70.5		
					CHEMCHAR		99928032				TCOPPER	182	UG/GM-DW	60.1		
					CHEMCHAR		99928032				TIRON	183	X-BYWT	5.09		
					CHEMCHAR		99928032				TMANGAN	184	UG/GM-DW	1798.4		
					CHEMCHAR		99928032				TNICKEL	185	UG/GM-DW	68.2		
					CHEMCHAR		99928032				TZINC	186	UG/GM-DW	213.1		
					PHYSCHAR		99970074				WATERCON	56	X-BYWT	61.07		
					PHYSCHAR		99970074				SAND	56	X-BYWT	1.71		
					PHYSCHAR		99970074				SILT	56	X-BYWT	39.13		
					PHYSCHAR		99970074				CLAY	56	X-BYWT	39.16		
					CHEMCHAR		99970074				TCHROMUM	181	UG/GM-DW	76.8		
					CHEMCHAR		99970074				TCOPPER	182	UG/GM-DW	0.1	E	
					CHEMCHAR		99970074				TIRON	183	X-BYWT	4.69		
					CHEMCHAR		99970074				TMANGAN	184	UG/GM-DW	1080.6		
					CHEMCHAR		99970074				TNICKEL	185	UG/GM-DW	68.2		
					CHEMCHAR		99970074				TZINC	186	UG/GM-DW	113.4		
XIF5925	860428	0	9	2139997	SEDIMENT	1	UNKNOWN BA			3915510	7622340					
					PHYSCHAR		99900004				WATERCON	56	X-BYWT	65.03		
					PHYSCHAR		99900004				SAND	56	X-BYWT	3.51		
					PHYSCHAR		99900004				SILT	56	X-BYWT	34.7		
					PHYSCHAR		99900004				CLAY	56	X-BYWT	61.73		
					CHEMCHAR		99900034				TCHROMUM	181	UG/GM-DW	100.8		
					CHEMCHAR		99900004				TCOPPER	182	UG/GM-DW	70.5		
					CHEMCHAR		99900004				TIRON	183	X-BYWT	4.82		
					CHEMCHAR		99900004				TMANGAN	184	UG/GM-DW	1351.8		
					CHEMCHAR		99900004				TNICKEL	185	UG/GM-DW	121.4		
					CHEMCHAR		99900004				TZINC	186	UG/GM-DW	386.4		
					PHYSCHAR		99906010				WATERCON	56	X-BYWT	53.36		
					PHYSCHAR		99906010				SAND	56	X-BYWT	5.94		
					PHYSCHAR		99906010				SILT	56	X-BYWT	44.54		
					PHYSCHAR		99906010				CLAY	56	X-BYWT	49.52		
					CHEMCHAR		99906010				TCHROMUM	181	UG/GM-DW	122.3		
					CHEMCHAR		99906010				TCOPPER	182	UG/GM-DW	70.5		
					CHEMCHAR		99906010				TIRON	183	X-BYWT	4.95		
					CHEMCHAR		99906010				TMANGAN	184	UG/GM-DW	1276.4		
					CHEMCHAR		99906010				TNICKEL	185	UG/GM-DW	68.1		
					PHYSCHAR		99928032				WATERCON	56	X-BYWT	63.09		
					PHYSCHAR		99928032				SAND	56	X-BYWT	1.93		
					PHYSCHAR		99928032				SILT	56	X-BYWT	51.66		
					PHYSCHAR		99928032				CLAY	56	X-BYWT	46.41		
					CHEMCHAR		99928032				TCHROMUM	181	UG/GM-DW	112.6	3	

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INPUT DATA DWSP86***

RESOURCE MONITORING DATA BASE

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE								
													CLASS	METHOD	MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF5925	860428	0	9	2139997	SEDIMENT	1	UNKNOWN	BA					3915510	76222340							
							CHEMCHAR	99928032		TCOPPER	182	UG/GM-DW	18.3								
							CHEMCHAR	99928032		TIRON	183	%-BYWT	5.29								
							CHEMCHAR	99928032		TMANGAN	184	UG/GM-DW	1624.8								
							CHEMCHAR	99928032		TNICKEL	185	UG/GM-DW	32.9								
							CHEMCHAR	99928032		TZINC	186	UG/GM-DW	109.6								
							PHYSCHAR	99970074		WATERCON	56	%-BYWT	64.35	4							
							PHYSCHAR	99970074		SAND	56	%-BYWT	2.72								
							PHYSCHAR	99970074		SILT	56	%-BYWT	35.82								
							PHYSCHAR	99970074		CLAY	56	%-BYWT	61.45								
							CHEMCHAR	99970074		TCHROMUM	181	UG/GM-DW	118.5	4							
							CHEMCHAR	99970074		TCOPPER	182	UG/GM-DW	28.7								
							CHEMCHAR	99970074		TIRON	183	%-BYWT	5.42								
							CHEMCHAR	99970074		TMANGAN	184	UG/GM-DW	2024.7								
							CHEMCHAR	99970074		TNICKEL	185	UG/GM-DW	50.6								
							CHEMCHAR	99970074		TZINC	186	UG/GM-DW	113.4								
XIF4964	860428	0	18	2139997	SEDIMENT	1	UNKNOWN	BA					3914560	76232380							
							PHYSCHAR	99900004		WATERCON	56	%-BYWT	54.53								
							PHYSCHAR	99900004		SAND	56	%-BYWT	4.73								
							PHYSCHAR	99900004		SILT	56	%-BYWT	36.1								
							PHYSCHAR	99900004		CLAY	56	%-BYWT	57.28								
							CHEMCHAR	99900004		TCHROMUM	181	UG/GM-DW	152.5								
							CHEMCHAR	99900004		TCOPPER	182	UG/GM-DW	60.1								
							CHEMCHAR	99900004		TIRON	183	%-BYWT	4.1								
							CHEMCHAR	99900004		TMANGAN	184	UG/GM-DW	1203.7								
							CHEMCHAR	99900004		TNICKEL	185	UG/GM-DW	50.6								
							CHEMCHAR	99900004		TZINC	186	UG/GM-DW	272.5								
							PHYSCHAR	99904008		WATERCON	56	%-BYWT	53.98								
							PHYSCHAR	99904008		SAND	56	%-BYWT	4.33								
							PHYSCHAR	99904008		SILT	56	%-BYWT	52.35								
							PHYSCHAR	99904008		CLAY	56	%-BYWT	43.32								
							CHEMCHAR	99904008		TCHROMUM	181	UG/GM-DW	154.1								
							CHEMCHAR	99904008		TCOPPER	182	UG/GM-DW	60.1								
							CHEMCHAR	99904008		TIRON	183	%-BYWT	4.23								
							CHEMCHAR	99904008		TMANGAN	184	UG/GM-DW	786.5								
							CHEMCHAR	99904008		TNICKEL	185	UG/GM-DW	68.2								
							CHEMCHAR	99904008		TZINC	186	UG/GM-DW	296.5								
							PHYSCHAR	99932036		WATERCON	56	%-BYWT	69.78								
							PHYSCHAR	99932036		SAND	56	%-BYWT	4.51								
							PHYSCHAR	99932036		SILT	56	%-BYWT	45.25								
							PHYSCHAR	99932036		CLAY	56	%-BYWT	50.24								
							CHEMCHAR	99932036		TCHROMUM	181	UG/GM-DW	177.6								

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INPUT DATA DWSP86****

RESOURCE MONITORING DATA BASE

PAGE 18

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE		
			FT		CLASS		METHOD							REM	
					MEDIA		PHYLUM		CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	
XIF4964	860428	0	18	2139997	SEDIMENT	1	UNKNOWN	BA			3914560	7623380			
					CHEMCHAR		99932036			TCOPPER	182	UG/GM-DW	81.1		
					CHEMCHAR		99932036			TIRON	183	X-BYWT	4.75		
					CHEMCHAR		99932036			TMANGAN	184	UG/GM-DW	863.4		
					CHEMCHAR		99932036			TNICKEL	185	UG/GM-DW	103.5		
					CHEMCHAR		99932036			TZINC	186	UG/GM-DW	423.5		
					PHYSCHAR		99937040			WATERCON	56	X-BYWT	66.67		
					PHYSCHAR		99937040			SAND	56	X-BYWT	1.85		
					PHYSCHAR		99937040			SILT	56	X-BYWT	44.69		
					PHYSCHAR		99937040			CLAY	56	X-BYWT	53.47		
					CHEMCHAR		99937040			TCHROMUM	181	UG/GM-DW	177.3		
					CHEMCHAR		99937040			TCOPPER	182	UG/GM-DW	81.1		
					CHEMCHAR		99937040			TIRON	183	X-BYWT	5.02		
					CHEMCHAR		99937040			TMANGAN	184	UG/GM-DW	1105.2		
					CHEMCHAR		99937040			TNICKEL	185	UG/GM-DW	156.9		
					CHEMCHAR		99937040			TZINC	186	UG/GM-DW	466.1		
					PHYSCHAR		99978082			WATERCON	56	X-BYWT	69.73		
					PHYSCHAR		99978082			SAND	56	X-BYWT	3.07		
					PHYSCHAR		99978082			SILT	56	X-BYWT	43.87		
					PHYSCHAR		99978082			CLAY	56	X-BYWT	53.06		
					CHEMCHAR		99978082			TCHROMUM	181	UG/GM-DW	129.3		
					CHEMCHAR		99978082			TCOPPER	182	UG/GM-DW	81.1		
					CHEMCHAR		99978082			TIRON	183	X-BYWT	4.82		
					CHEMCHAR		99978082			TMANGAN	184	UG/GM-DW	1031.4		
					CHEMCHAR		99978082			TNICKEL	185	UG/GM-DW	135.1		
					CHEMCHAR		99978082			TZINC	186	UG/GM-DW	957.6		
XIF5505.	860428	0	14	2139997	SEDIMENT	1	UNKNOWN	-BA		3915275	7620310				
					PHYSCHAR		99900004			WATERCON	56	X-BYWT	19.14		
					PHYSCHAR		99900004			SAND	56	X-BYWT	94.03		
					PHYSCHAR		99900004			SILT	56	X-BYWT	3.71		
					PHYSCHAR		99900004			CLAY	56	X-BYWT	2.26		
					CHEMCHAR		99900004			TCHROMUM	181	UG/GM-DW	33.		
					CHEMCHAR		99900004			TCOPPER	182	UG/GM-DW	0.1	P	
					CHEMCHAR		99900004			TIRON	183	X-BYWT	0.52		
					CHEMCHAR		99900004			TMANGAN	184	UG/GM-DW	907.9		
					CHEMCHAR		99900004			TNICKEL	185	UG/GM-DW	152.		
					CHEMCHAR		99900004			TZINC	186	UG/GM-DW	35.6		
					PHYSCHAR		99906010			WATERCON	56	X-BYWT	20.05		
					PHYSCHAR		99906010			SAND	56	X-BYWT	92.72		
					PHYSCHAR		99906010			SILT	56	X-BYWT	0.9		
					PHYSCHAR		99906010			CLAY	56	X-BYWT	0.36		
					CHEMCHAR		99906010			TCHROMUM	181	UG/GM-DW	20.1		
					CHEMCHAR		99906010			TCOPPER	182	UG/GM-DW	0.1		
					CHEMCHAR		99906010			TIRON	0	X-BYWT	0.35		
					CHEMCHAR		99906010			TMANGAN	0	UG/GM-DW	421.3		
					CHEMCHAR		99906010			TNICKEL	0	UG/GM-DW	15.4		
					CHEMCHAR		99906010			TZINC	0	UG/GM-DW	28.1		

Project III - Biota

Benthic Data

University of Maryland, CEES-CBL

RESOURCE MONITORING DATA BASE
HART MILLER ISLAND - BENTHIC DATA

THE FIRST (HEADER) LINE DENOTES THE FOLLOWING VARIABLES

SAMPLING STATION NO.	
DATE	YYMMDD
TIME OF SAMPLE	
DEPTH IN FEET	
BASIN SEGMENT	
MEDIA CLASS	
SUBMITTER CODE	
SAMPLE METHOD	
COUNTY CODE	
TIDE STATE	
WEATHER	
LATITUDE	DDMMSSS
LONGITUDE	DDMMSSS

THE SECOND (TRAILER) LINE DENOTES THE FOLLOWING VARIABLES

MEDIA	
PHYLUM	
CLASS	
SPECIES	
PARAMETER	
METHOD	
UNITS	BY COUNT
VALUE	
REMARKS	

RESOURCE MONITORING DATA BASE

PAGE 1

STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS		METHOD							PER
XIF3325	851210	1005	8	2139997	BIOTA	1	SPACECOM BA	E	O	3913290	762250			
					BIOTA			NICRURA LEIDYI		NO-CF-IND	62	COUNT	2	
					BIOTA			HETEROMASTUS FILIFORMIS	NO-CF-IND	62	COUNT	5		
					BIOTA			CLAM WORM		NO-CF-IND	62	COUNT	6	
					BIOTA			PADDLE WORM		NO-CF-IND	62	COUNT	1	
					BIOTA			GREEN WORM		NO-CF-IND	62	COUNT	3	
					BIOTA			CAPITELLA CAPITATA		NO-CF-IND	62	COUNT	13	
					BIOTA			BALTIC CLAM		NO-CF-IND	62	COUNT	12	
					BIOTA			MITCHELLS CLAM		NO-CF-IND	62	COUNT	13	
					BIOTA			CYATHURA POLITA		NO-CF-IND	62	COUNT	35	
					BIOTA			LEPTOCHIRUS PLUMULOSUS	NO-CF-IND	62	COUNT	194		
					BIOTA			COPROPHUM LACUSTRE		NO-CF-IND	62	COUNT	1	
					BIOTA			MELITA NITIDA		NO-CF-IND	62	COUNT	1	
XIF3638	851211	920	3	2139997	BIOTA	1	CONTINUOUS BA	E	O	3913430	762355			
					BIOTA			CLAM WORM		NO-CF-IND	154	ESTDNSTY	1	
					BIOTA			POLYDORA LIGNI		NO-CF-IND	154	ESTDNSTY	2	
					BIOTA			BARNACLE		NO-CF-IND	154	ESTDNSTY	2	
					BIOTA			WHITE BARNACLE		NO-CF-IND	154	ESTDNSTY	2	11
					BIOTA			COPROPHUM LACUSTRE		NO-CF-IND	154	ESTDNSTY	1	
					BIOTA			VICTORELLA PAVIDA		NO-CF-IND	154	ESTDNSTY	2	
XIF3639	851211	925	6	2139997	BIOTA	1	CONTINUOUS BA	E	O	3913430	762355			
121					BIOTA			CLAM WORM		NO-CF-IND	154	ESTDNSTY	2	
					BIOTA			POLYDORA LIGNI		NO-CF-IND	154	ESTDNSTY	2	
					BIOTA			BARNACLE		NO-CF-IND	154	ESTDNSTY	2	
					BIOTA			WHITE BARNACLE		NO-CF-IND	154	ESTDNSTY	2	
					BIOTA			COPROPHUM LACUSTRE		NO-CF-IND	154	ESTDNSTY	1	
					BIOTA			VICTORELLA PAVIDA		NO-CF-IND	154	ESTDNSTY	2	12
XIF4124	851210	1105	12	2139997	BIOTA	1	SPACECOM BA	F	O	3914090	762228			
					BIOTA			NICRURA LEIDYI		NO-CF-IND	62	COUNT	6	
					BIOTA			HETEROMASTUS FILIFORMIS	NO-CF-IND	62	COUNT	5		
					BIOTA			GREEN WORM		NO-CF-IND	62	COUNT	16	
					BIOTA			BALTIC CLAM		NO-CF-IND	62	COUNT	2	
					BIOTA			MITCHELLS CLAM		NO-CF-IND	62	COUNT	4	
					BIOTA			BRACKISH WATER CLAM		NO-CF-IND	62	COUNT	4	
					BIOTA			CYATHURA POLITA		NO-CF-IND	62	COUNT	31	
					BIOTA			SCOTEA TRILOBA		NO-CF-IND	62	COUNT	1	
					BIOTA			LEPTOCHIRUS PLUMULOSUS	NO-CF-IND	62	COUNT	39		
XIF4327	851210	1047	10	2139997	BIOTA	1	SPACECOM BA	F	O	3914200	762248			
					BIOTA			NICRURA LEIDYI		NO-CF-IND	62	COUNT	5	
					BIOTA			HETEROMASTUS FILIFORMIS	NO-CF-IND	62	COUNT	54		
					BIOTA			CLAM WORM		NO-CF-IND	62	COUNT	12	
					BIOTA			PADDLE WORM		NO-CF-IND	62	COUNT	2	
					BIOTA			GREEN WORM		NO-CF-IND	62	COUNT	72	
					BIOTA			CAPITELLA CAPITATA		NO-CF-IND	62	COUNT	1	
					BIOTA			BALTIC CLAM		NO-CF-IND	62	COUNT	4	
					BIOTA			MITCHELLS CLAM		NO-CF-IND	62	COUNT	12	
					BIOTA			BRACKISH WATER CLAM		NO-CF-IND	62	COUNT	1	
					BIOTA			CYATHURA POLITA		NO-CF-IND	62	COUNT	28	
					BIOTA			SCOTEA TRILOBA		NO-CF-IND	62	COUNT	5	
					BIOTA			LEPTOCHIRUS PLUMULOSUS	NO-CF-IND	62	COUNT	432		
					BIOTA			COPROPHUM LACUSTRE		NO-CF-IND	62	COUNT	2	
					BIOTA			GAHRMARUS TIGRIUS		NO-CF-IND	62	COUNT	2	

RESOURCE MONITORING DATA BASE

PAGE 2

STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE								
													MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF4420	851210	1137	20	2139997	BIOTA	1	SPACECOM	BA	F	0	3914270	762200									
					BIOTA				HISTEROMASTUS	FILIFORMIS	NO-CF-IND	62	COUNT								
					BIOTA				PADDLE WORM		NO-CF-IND	62	COUNT	1							
					BIOTA				MITCHELLS CLAM		NO-CF-IND	62	COUNT	4							
					BIOTA				CYATHURA POLITA		NO-CF-IND	62	COUNT	11							
					BIOTA				EGOSEA TRILOBA		NO-CF-IND	62	COUNT	1							
					BIOTA				LEPTOCHEIRUS PLUMULOSUS	IND	NO-CF-IND	62	COUNT	1							
XIF4514	851211	1010	3	2139997	BIOTA	1	CONTINUUS	BA	E	0	3914320	762123									
					BIOTA				CLAM WORM		NO-CF-IND	154	ESTDNSTY	3							
					BIOTA				POLYDORA LIGNI		NO-CF-IND	154	ESTDNSTY	3							
					BIOTA				GREEN WORM		NO-CF-IND	154	ESTDNSTY	3							
					BIOTA				BARNACLE		NO-CF-IND	154	ESTDNSTY	1							
					BIOTA				COROPHİUM LACUSTRE		NO-CF-IND	154	ESTDNSTY	1							
XIF4514	851211	1010	6	2139997	BIOTA	1	CONTINUUS	BA	E	0	3914320	762123									
					BIOTA				CLAM WORM		NO-CF-IND	154	ESTDNSTY	3							
					BIOTA				POLYDORA LIGNI		NO-CF-IND	154	ESTDNSTY	3							
					BIOTA				BARNACLE		NO-CF-IND	154	ESTDNSTY	2							
					BIOTA				COROPHİUM LACUSTRE		NO-CF-IND	154	ESTDNSTY	1							
					BIOTA				VICTORELLA PAVIDA		NO-CF-IND	154	ESTDNSTY	3							
XIF4518	851211	955	3	2139997	BIOTA	1	CONTINUUS	BA	E	0	3914280	762150									
122					BIOTA				CLAM WORM		NO-CF-IND	154	ESTDNSTY	2							
					BIOTA				POLYDORA LIGNI		NO-CF-IND	154	ESTDNSTY	2							
					BIOTA				GREEN WORM		NO-CF-IND	154	ESTDNSTY	3							
					BIOTA				COROPHİUM LACUSTRE		NO-CF-IND	154	ESTDNSTY	1							
XIF4518	851211	1000	6	2139997	BIOTA	1	CONTINUUS	BA	E	0	3914280	762150									
					BIOTA				CLAM WORM		NO-CF-IND	154	ESTDNSTY	2							
					BIOTA				POLYDORA LIGNI		NO-CF-IND	154	ESTDNSTY	2							
					BIOTA				BARNACLE		NO-CF-IND	154	ESTDNSTY	2							
					BIOTA				WHITE BARNACLE		NO-CF-IND	154	ESTDNSTY	3							
					BIOTA				COROPHİUM LACUSTRE		NO-CF-IND	154	ESTDNSTY	1							
					BIOTA				VICTORELLA PAVIDA		NO-CF-IND	154	ESTDNSTY	3							
XIF4715	851210	1153	14	2139997	BIOTA	1	SPACECOM	BA	F	0	3914460	762133									
					BIOTA				HIPURA LEIDYI		NO-CF-IND	62	COUNT	1							
					BIOTA				HETEROMASTUS	FILIFORMIS	NO-CF-IND	62	COUNT	7							
					BIOTA				CLAM WORM		NO-CF-IND	62	COUNT	11							
					BIOTA				PADDLE WORM		NO-CF-IND	62	COUNT	3							
					BIOTA				GREEN WORM		NO-CF-IND	62	COUNT	34							
					BIOTA				CAPITELLA CAPITATA		NO-CF-IND	62	COUNT	1							
					BIOTA				BALMIC CLAM		NO-CF-IND	62	COUNT	2							
					BIOTA				MITCHELLS CLAM		NO-CF-IND	62	COUNT	3							
					BIOTA				BRACKISH WATER CLAM		NO-CF-IND	62	COUNT	46							
					BIOTA				CYATHURA POLITA		NO-CF-IND	62	COUNT	10							
					BIOTA				EGOSEA TRILOBA		NO-CF-IND	62	COUNT	1							
					BIOTA				LEPTOCHEIRUS FLUFLUDOSUS	IND	NO-CF-IND	62	COUNT	46							
					BIOTA				COROPHİUM LACUSTRE		NO-CF-IND	62	COUNT	2							

RESOURCE MONITORING DATA BASE

PAGE 3

STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUB METHOD	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE									
													MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	PER	
XIF4#11	851210	1214	16	2139997	BIOTA	1	SPACECOM BA	F	0	3914580	762108											
					BIOTA			MICRURA LEIDYI			NO-CF-IND	62	COUNT									
					BIOTA			CLAM WORM			NO-CF-IND	62	COUNT	14								
					BIOTA			GREEN WORM			NO-CF-IND	62	COUNT	67								
					BIOTA			BALTIC CLAM			NO-CF-IND	62	COUNT	1								
					BIOTA			MITCHELLS CLAM			NO-CF-IND	62	COUNT	3								
					BIOTA			BRACKISH WATER CLAM			NO-CF-IND	62	COUNT	20								
					BIOTA			CYATHURA POLITA			NO-CF-IND	62	COUNT	26								
					BIOTA			ECOTEA TRILOBA			NO-CF-IND	62	COUNT	1								
					BIOTA			LEPTOCHIRUS PLUMULOSUS			NO-CF-IND	62	COUNT	43								
					BIOTA			MUD CRAB			NO-CF-IND	62	COUNT	1								
XIF4#11	851211	1052	3	2139997	BIOTA	1	CONTINUUS BA	E	0	3914490	762107											
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	3								
					BIOTA			BARNAACLE			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			COROPHİUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1	13							
					BIOTA			CORDYLOCOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	3								
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	3								
XIF4#11	851211	1057	6	2139997	BIOTA	1	CONTINUUS BA	E	0	3914490	762107											
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	3								
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	3								
					BIOTA			BARNAACLE			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			WHITE BARNAACLE			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			COROPHİUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1	17							
					BIOTA			CORDYLOCOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	3								
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	3								
XIF4#13	851211	1025	3	2139997	BIOTA	1	CONTINUUS BA	E	0	3914490	762116											
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			BARNAACLE			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			COROPHİUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1	13							
					BIOTA			CORDYLOCOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	3								
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	3								
XIF4#13	851211	1034	6	2139997	BIOTA	1	CONTINUUS BA	E	0	3914490	762116											
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	3	12							
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	3								
					BIOTA			BARNAACLE			NO-CF-IND	154	ESTDNSTY	2								
					BIOTA			COROPHİUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1								
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	3								
XIF5145	851215	0	3	2139997	BIOTA	1	SPACECOM BA	0	0	3915040	762421											
XIF5297	851210	1240	15	2139997	BIOTA	1	SPACECOM BA	F	0	3915550	762903											
					BIOTA			MICRURA LEIDYI			NO-CF-IND	62	COUNT	1								
					BIOTA			CLAM WORM			NO-CF-IND	62	COUNT	1								
					BIOTA			GREEN WORM			NO-CF-IND	62	COUNT	41								
					BIOTA			CAPITELLA CAPITATA			NO-CF-IND	62	COUNT	12								
					BIOTA			MITCHELLS CLAM			NO-CF-IND	62	COUNT	2								
					BIOTA			BRACKISH WATER CLAM			NO-CF-IND	62	COUNT	17								
					BIOTA			CYATHURA POLITA			NO-CF-IND	62	COUNT	43								
					BIOTA			ECOTEA TRILOBA			NO-CF-IND	62	COUNT	2								
					BIOTA			LEPTOCHIRUS PLUMULOSUS			NO-CF-IND	62	COUNT	10								
					BIOTA			COROPHİUM LACUSTRE			NO-CF-IND	62	COUNT	1								

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS		METHOD							PPM
XIF3325	860407	1042	8	2139957	BIOTA	1	SPACECOM BA	E	0	3913290	762250			
					BIOTA		MICRURA LEIDYI		NO-CF-IND		62	COUNT	4	
					BIOTA		HETEROMASTUS FILIFORMIS		NO-CF-IND		62	COUNT	4	
					BIOTA		CLAM WORM		NO-CF-IND		62	COUNT	1	
					BIOTA		GREEN WORM		NO-CF-IND		62	COUNT	100	
					BIOTA		BALTIC CLAM		NO-CF-IND		62	COUNT	3	
					BIOTA		MITCHELLS CLAM		NO-CF-IND		62	COUNT	3	
					BIOTA		BRACKISH WATER CLAM		NO-CF-IND		62	COUNT	1	
					PIOTA		CYATHURA POLITA		NO-CF-IND		62	COUNT	26	
					BIOTA		EDOTEA TRILOBA		NO-CF-IND		62	COUNT	1	
					BIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-CF-IND		62	COUNT	37	
XIF3638	860408	1027	3	2139957	BIOTA	1	CONTINUS BA	E	0	3913430	762355			
					BIOTA		*		NO-CF-IND		154	ESTDNSTY	0	
XIF3638	860408	1032	6	2139957	BIOTA	1	CONTINUS BA	E	0	3913430	762355			
					BIOTA		CLAM WORM		NO-CF-IND		154	ESTDNSTY	3	
					BIOTA		BIVALVE		NO-CF-IND		154	ESTDNSTY	2	
					BIOTA		COPROPHIUM LACUSTRE		NO-CF-IND		154	ESTDNSTY	3	
					BIOTA		UNIDENTIFIED CHIRONOMID		NO-CF-IND		154	ESTDNSTY	3	
XIF4124	860407	1119	12	2139957	BIOTA	1	SPACECOM BA	E	0	3914050	762228			
					BIOTA		MICRURA LEIDYI		NO-CF-IND		62	COUNT	2	
					BIOTA		HETEROMASTUS FILIFORMIS		NO-CF-IND		62	COUNT	6	
					BIOTA		CLAM WORM		NO-CF-IND		62	COUNT	1	
					BIOTA		GREEN WORM		NO-CF-IND		62	COUNT	214	
					BIOTA		MITCHELLS CLAM		NO-CF-IND		62	COUNT	5	
					BIOTA		CYATHURA POLITA		NO-CF-IND		62	COUNT	19	
					BIOTA		EDOTEA TRILOBA		NO-CF-IND		62	COUNT	2	
					BIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-CF-IND		62	COUNT	227	
					PIOTA		COPROPHIUM LACUSTRE		NO-CF-IND		62	COUNT	1	
					BIOTA		MELITA NITIDA		NO-CF-IND		62	COUNT	5	
XIF4327	860407	1105	10	2139957	BIOTA	1	SPACECOM BA	E	0	3914206	762248			
					BIOTA		MICRURA LEIDYI		NO-CF-IND		62	COUNT	4	
					PIOTA		HETEROMASTUS FILIFORMIS		NO-CF-IND		62	COUNT	41	
					PIOTA		CLAM WORM		NO-CF-IND		62	COUNT	4	
					PIOTA		GREEN WORM		NO-CF-IND		62	COUNT	154	
					BIOTA		BALTIC CLAM		NO-CF-IND		62	COUNT	2	
					BIOTA		MITCHELLS CLAM		NO-CF-IND		62	COUNT	14	
					BIOTA		CYATHURA POLITA		NO-CF-IND		62	COUNT	18	
					BIOTA		EDOTEA TRILOBA		NO-CF-IND		62	COUNT	2	
					PIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-CF-IND		62	COUNT	21	
					PIOTA		GAMMARUS TIGRINUS		NO-CF-IND		62	COUNT	3	
					BIOTA		MELITA NITIDA		NO-CF-IND		62	COUNT	1	
XIF4426	860407	1135	20	2139957	BIOTA	1	SPACECOM BA	E	0	3914270	762209			
					PIOTA		MICRURA LEIDYI		NO-CF-IND		62	COUNT	2	
					PIOTA		CLAM WORM		NO-CF-IND		62	COUNT	2	
					PIOTA		GREEN WORM		NO-CF-IND		62	COUNT	62	
					BIOTA		MITCHELLS CLAM		NO-CF-IND		62	COUNT	2	
					BIOTA		BRACKISH WATER CLAM		NO-CF-IND		62	COUNT	2	
					BIOTA		CYATHURA POLITA		NO-CF-IND		62	COUNT	13	
					PIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-CF-IND		62	COUNT	146	
					BIOTA		COPROPHIUM LACUSTRE		NO-CF-IND		62	COUNT	2	
					BIOTA		GAMMARUS TIGRINUS		NO-CF-IND		62	COUNT	1	
					PIOTA		MELITA NITIDA		NO-CF-IND		62	COUNT	2	

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUB	SAMPLE	CITY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
													METHOD	UNITS	VALUE	FOM	
XIF4514	860408	545	3	2139997	BIOTA	1	CONTINUOUS	HA	E	0	3914320	762123					
					BIOTA		COPROPHIUM LACUSTRE				NO-CF-IND		154	ESTDNSTY	3	5	
					BIOTA		GAMMARUS TIGRINUS				NO-CF-IND		154	ESTDNSTY	2		
XIF4514	860408	950	6	2139997	BIOTA	1	CONTINUOUS	BA	E	0	3914320	762123					
					BIOTA		CLAM WORM				NO-CF-IND		154	ESTDNSTY	2		
					BIOTA		POLYDORA LIGNI				NO-CF-IND		154	ESTDNSTY	3		
					BIOTA		WHITE BARNACLE				NO-CF-IND		154	ESTDNSTY	2		
					BIOTA		COPROPHIUM LACUSTRE				NO-CF-IND		154	ESTENSTY	1		
					BIOTA		GAMMARUS TIGRINUS				NO-CF-IND		154	ESTDNSTY	2		
					BIOTA		UNIDENTIFIED CHIRONOMID	NO-CF-IND			154	ESTDNSTY	3				
					BIOTA		CORDYLOPHORA CASPIA				NO-CF-IND		154	ESTDNSTY	3		
					BIOTA		VICTORELLA PAVIDA				NO-CF-IND		154	ESTDNSTY	3		
XIF4515	860408	1005	3	2139997	BIOTA	1	CONTINUOUS	BA	E	0	3914280	762150					
					BIOTA		CLAM WORM				NO-CF-IND		154	ESTDNSTY	2		
					BIOTA		GREEN WORM				NO-CF-IND		154	ESTDNSTY	3		
					BIOTA		COPROPHIUM LACUSTRE				NO-CF-IND		154	ESTDNSTY	1		
					BIOTA		GAMMARUS DAIBERI				NO-CF-IND		154	ESTDNSTY	2		
					BIOTA		UNIDENTIFIED CHIRONOMID	NO-CF-IND			154	ESTDNSTY	3				
XIF4515	860408	1010	6	2139997	BIOTA	1	CONTINUOUS	BA	E	0	3914280	762150					
					BIOTA		CLAM WORM				NO-CF-IND		154	ESTDNSTY	3		
					BIOTA		GREEN WORM				NO-CF-IND		154	ESTDNSTY	3		
					BIOTA		WHITE BARNACLE				NO-CF-IND		154	ESTDNSTY	2		
					BIOTA		COPROPHIUM LACUSTRE				NO-CF-IND		154	ESTDNSTY	1		
					BIOTA		GAMMARUS DAIBERI				NO-CF-IND		154	ESTDNSTY	2		
					BIOTA		UNIDENTIFIED CHIRONOMID	NO-CF-IND			154	ESTDNSTY	3				
					BIOTA		CORDYLOPHORA CASPIA				NO-CF-IND		154	ESTDNSTY	3		
					BIOTA		VICTORELLA PAVIDA				NO-CF-IND		154	ESTDNSTY	3		
XIF4715	860407	1155	14	2139997	BIOTA	1	SPACECOM	BA	E	0	3914460	762133					
					BIOTA		MICRURA LEIDYI				NO-CF-IND		62	COUNT	5		
					BIOTA		GREEN WORM				NO-CF-IND		62	COUNT	67		
					BIOTA		BRACKISH WATER CLAM				NO-CF-IND		62	COUNT	33		
					BIOTA		CYATHURA POLITA				NO-CF-IND		62	COUNT	17		
					BIOTA		EDOTEA TRILOBI				NO-CF-IND		62	COUNT	1		
					BIOTA		LEPTOCHEIRUS PLUMULOSUS	NO-CF-IND			62	COUNT	73				
XIF4711	860407	1200	16	2139997	BIOTA	1	SPACECOM	BA	E	0	3914580	762106					
					BIOTA		MICRURA LEIDYI				NO-CF-IND		62	COUNT	6		
					BIOTA		HETEROMASTUS FILIFORMIS	NO-CF-IND			62	COUNT	1				
					BIOTA		CLAM WORM				NO-CF-IND		62	COUNT	4		
					BIOTA		POLYDORA LIGNI				NO-CF-IND		62	COUNT	1		
					BIOTA		GREEN WORM				NO-CF-IND		62	COUNT	377		
					BIOTA		HITCHILLS CLAM				NO-CF-IND		62	COUNT	1		
					BIOTA		BRACKISH WATER CLAM				NO-CF-IND		62	COUNT	31		
					BIOTA		CYATHURA POLITA				NO-CF-IND		62	COUNT	11		
					BIOTA		EDOTEA TRILOBI				NO-CF-IND		62	COUNT	3		
					BIOTA		LEPTOCHEIRUS PLUMULOSUS	NO-CF-IND			62	COUNT	35				
					BIOTA		COPROPHIUM LACUSTRE				NO-CF-IND		62	COUNT	33		
					BIOTA		GAMMARUS TIGRINUS				NO-CF-IND		62	COUNT	33		
XIF4711	860408	546	3	2139997	BIOTA	1	CONTINUOUS	BA	E	0	3914490	762107					
					BIOTA		CORDYLOPHORA CASPIA				NO-CF-IND		154	ESTDNSTY	3		

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUB METHOD	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	VALUE	REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS		
XIF9211	860408	854	6	2139997	BIOTA	1	CONTINUUS BA	E	O	3914490	762107				
					BIOTA		GREEN WORM			NO-OF-IND	154	ESTDNSTY		7	
					BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		UNIDENTIFIED CHIRONOMIDNO-OF-IND			154	ESTDNSTY		3		
					BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY		7	
XIF4R13	860408	924	3	2139997	BIOTA	1	CONTINUUS BA	E	O	3914480	762116				
					BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY		3	
XIF4n13	860409	929	6	2139997	BIOTA	1	CONTINUUS BA	E	O	3914460	762116				
					BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		GREEN WORM			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY		7	
					BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY		1	
					BIOTA		GAMMARUS DAIBERI			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		UNIDENTIFIED CHIRONOMIDNO-OF-IND			154	ESTDNSTY		3		
					BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		ACANTHEDESIA TENUIS			NO-OF-IND	154	ESTDNSTY		3	
					BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY		3	
XIF5145	860407	1420	15	2139997	BIOTA	1	SPACECOM BA	F	O	3915040	762421				
27					BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT		4	
					BIOTA		HETEROMASTUS FILIFORMISNO-OF-IND			62	COUNT		142		
					BIOTA		CLAM WORM			NO-OF-IND	62	COUNT		23	
					BIOTA		GREEN WORM			NO-OF-IND	62	COUNT		526	
					BIOTA		MITCHELLS CLAM			NO-OF-IND	62	COUNT		5	
					BIOTA		PACKISH WATER CLAM			NO-OF-IND	62	COUNT		2	
					BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT		6	
					BIOTA		EDOTEA TRILoba			NO-OF-IND	62	COUNT		4	
					BIOTA		LEPTOCHEIRUS PLUMULOSUSNO-OF-IND			62	COUNT		179		
XIF5297	860407	1327	15	2139997	BIOTA	1	SPACECOM BA	F	O	3915550	762003				
					BIOTA		MICPURA LEIDYI			NO-OF-IND	62	COUNT		1	
					BIOTA		CLAM WORM			NO-OF-IND	62	COUNT		4	
					BIOTA		GREEN WORM			NO-OF-IND	62	COUNT		178	
					BIOTA		BARNACLE			NO-OF-IND	62	COUNT		5	
					BIOTA		WHITE BARNACLE			NO-OF-IND	62	COUNT		1	
					BIOTA		CYATHUFA POLITA			NO-OF-IND	62	COUNT		4	
					BIOTA		CASSIDINICEA LUNIFFCNS			NO-OF-IND	62	COUNT		3	
					BIOTA		LEPTOCHEIRUS FLUPULCSUSNO-OF-IND			62	COUNT		2		
					BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT		5	
					BIOTA		GAMMARUS DAIBERI			NO-OF-IND	62	COUNT		5	
					BIOTA		GAMMARUS TIGRINUS			NO-OF-IND	62	COUNT		10	
					BIOTA		MELITA NITIDA			NO-OF-IND	62	COUNT		9	
					BIOTA		UNIDENTIFIED CHIRONOMIDNO-OF-IND			62	COUNT		1		
					BIOTA		MUD CRAB			NO-OF-IND	62	COUNT		10	

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUR	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
													MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REV
XIF5406	860407	1520	12	2139997	BIOTA	1	SPACECOM BA	F	0	3915250	762041						
					PIOTA		HETEROMASTUS FILIFORMISNO-CF-IND			62	COUNT	4					
					PIOTA		CLAM WORM			62	COUNT	1					
					BIOTA		GREEN WORM			62	COUNT	166					
					BIOTA		CAPITELLA CAPITATA			62	COUNT	2					
					BIOTA		BARNACLE			62	COUNT	3					
					PIOTA		CYATHURA POLITA			62	COUNT	4					
					BIOTA		EDOTEA TRILOBA			62	COUNT	1					
					BIOTA		LEPTOCHIRUS FLUMULOSUSNO-CF-IND			62	COUNT	2					
					BIOTA		COROPHİUM LACUSTRE			62	COUNT	4					
					BIOTA		GAMMARUS TIGRINUS			62	COUNT	33					
					BIOTA		MELITA NITIDA			62	COUNT	3					
					BIOTA		UNIDENTIFIED CHIRONOMIDNO-CF-IND			62	COUNT	3					
					BIOTA		MUD CRAB			62	COUNT	2					
XIF5710	860407	1341	5	2139997	BIOTA	1	SPACECOM BA	F	0	3915465	762053						
					PIOTA		HETEROMASTUS FILIFORMISNO-CF-IND			62	COUNT	6					
					PIOTA		GREEN WORM			62	COUNT	1036					
					PIOTA		CYATHURA POLITA			62	COUNT	2					
					PIOTA		LEPTOCHIRUS FLUMULOSUSNO-CF-IND			62	COUNT	31					
					PIOTA		COROPHİUM LACUSTRE			62	COUNT	1					
					PIOTA		CHIRODOTEA ALHYRA			62	COUNT	2					
128	XIF6388	860407	1353	12	2139997	BIOTA	1	SPACECOM BA	F	0	3916150	762242					
					PIOTA		MICRURA LEIDYI			62	COUNT	2					
					PIOTA		HETEROMASTUS FILIFORMISNO-CF-IND			62	COUNT	1					
					PIOTA		GREEN WORM			62	COUNT	163					
					PIOTA		MITCHELLS CLAM			62	COUNT	1					
					PIOTA		BRACKISH WATER CLAM			62	COUNT	1					
					PIOTA		CYATHURA POLITA			62	COUNT	15					
					PIOTA		EDOTEA TRILOBA			62	COUNT	1					
					PIOTA		LEPTOCHIRUS FLUMULOSUSNO-CF-IND			62	COUNT	34					
XIG5405	860407	1317	12	2139997	BIOTA	1	SPACECOM BA	E	0	3915270	762032						
					PIOTA		HETEROMASTUS FILIFORMISNO-CF-IND			62	COUNT	2					
					PIOTA		CLAM WORM			62	COUNT	2					
					PIOTA		GREEN WORM			62	COUNT	170					
					PIOTA		ISCHADIA RECURVUM			62	COUNT	1					
					PIOTA		BARNACLE			62	COUNT	145					
					PIOTA		CYATHURA POLITA			62	COUNT	1					
					PIOTA		CASSIDINIDEA LUNIFRONS			62	COUNT	12					
					PIOTA		COROPHİUM LACUSTRE			62	COUNT	3					
					PIOTA		GAMMARUS TIGRINUS			62	COUNT	11					
					PIOTA		MELITA NITIDA			62	COUNT	33					
					PIOTA		MUD CRAB			62	COUNT	9					
XIG7689	860407	1450	14	2139997	PIOTA	1	SPACECOM BA	F	0	3917270	761851						
					PIOTA		HETEROMASTUS FILIFORMISNO-CF-IND			62	COUNT	1					
					PIOTA		CLAM WORM			62	COUNT	1					
					PIOTA		GREEN WORM			62	COUNT	163					
					PIOTA		BRACKISH WATER CLAM			62	COUNT	14					
					PIOTA		CYATHURA POLITA			62	COUNT	22					
					PIOTA		LEPTOCHIRUS FLUMULOSUSNO-CF-IND			62	COUNT	110					
					PIOTA		COROPHİUM LACUSTRE			62	COUNT	1					
					PIOTA		MELITA NITIDA			62	COUNT	3					
					PIOTA		UNIDENTIFIED CHIRONOMIDNO-CF-IND			62	COUNT	1					

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT		CLASS		METHOD							REM
XIF5710	860804	1307	5	2139997	BIOTA	1	SPACECOM BA	E	O	3915460	762050			
					BIOTA		MICRURA LEIDYI			NO-OF-IND	62	METERS	1	
					BIOTA		HETEROMASTUS FILIFORMISNO-OF-IND			62	METERS	4		
					BIOTA		GREEN WORM			NO-OF-IND	62	METERS	13	
					BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	METERS	8	
					BIOTA		CYATHURA POLITA			NO-OF-IND	62	METERS	3	
					BIOTA		LEPTOCHIRUS PLUMULOSUSNO-OF-IND			62	METERS	25		
					BIOTA		COROPHİUM LACUSTRE			NO-OF-IND	62	METERS	1	
					BIOTA		MELITA NITIDA			NO-OF-IND	62	METERS	2	
					BIOTA		CHIRODOTEA ALMYRA			NO-OF-IND	62	METERS	5	
					BIOTA		UNIDENTIFIED CHIRONOMIDNO-OF-IND			62	METERS	1		
XIF5406	860804	1150	12	2139997	BIOTA	1	SPACECOM BA	E	O	3915290	762041			
					BIOTA		MICRURA LEIDYI			NO-OF-IND	62	METERS	2	
					BIOTA		HETEROMASTUS FILIFORMISNO-OF-IND			62	METERS	24		
					BIOTA		CLAM WORM			NO-OF-IND	62	METERS	39	
					BIOTA		POLYDOPA LIGNI			NO-OF-IND	62	METERS	1	
					BIOTA		ISCHADİUM RECURVUM			NO-OF-IND	62	METERS	2	
					BIOTA		PLATFCRM MUSSel			NO-OF-IND	62	METERS	2	
					BIOTA		BALTIC CLAM			NO-OF-IND	62	METERS	2	
					BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	METERS	2	
					BIOTA		BARNACLE			NO-OF-IND	62	METERS	368	
					BIOTA		WHITE BARNACLE			NO-OF-IND	62	METERS	3	
					BIOTA		CYATHURA POLITA			NO-OF-IND	62	METERS	2	
					BIOTA		CASSIDINIDEA LUNIFRONS			NO-OF-IND	62	METERS	14	
					BIOTA		COROPHİUM LACUSTRE			NO-OF-IND	62	METERS	1	
					BIOTA		MELITA NITIDA			NO-OF-IND	62	METERS	48	
					BIOTA		MUD CRAB			NO-OF-IND	62	METERS	23	
XIF4511	860804	1025	16	2139997	BIOTA	1	SPACECOM BA	E	O	3914580	762108			
					BIOTA		MICRURA LEIDYI			NO-OF-IND	62	METERS	10	
					BIOTA		HETEROMASTUS FILIFORMISNO-CF-IND			62	METERS	13		
					BIOTA		GREEN WORM			NO-OF-IND	62	METERS	53	
					BIOTA		BALTIC CLAM			NO-OF-IND	62	METERS	2	
					BIOTA		MITCHELLS CLAM			NO-OF-IND	62	METERS	2	
					BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	METERS	23	
					BIOTA		CYATHURA POLITA			NO-OF-IND	62	METERS	20	
					BIOTA		EDCTEA TRILoba			NO-OF-IND	62	METERS	1	
					BIOTA		LEPTOCHIRUS PLUMULOSUSNO-OF-IND			62	METERS	22		
					BIOTA		GAMMARUS DAIBERI			NO-OF-IND	62	METERS	5	
XIF4715	860804	1114	14	2139997	BIOTA	1	SPACECOM BA	E	O	3914460	762133			
					BIOTA		MICRURA LEIDYI			NO-OF-IND	62	METERS	9	
					BIOTA		HETEROMASTUS FILIFORMISNO-OF-IND			62	METERS	23		
					BIOTA		GREEN WORM			NO-OF-IND	62	METERS	33	
					BIOTA		BALTIC CLAM			NO-OF-IND	62	METERS	1	
					BIOTA		MITCHELLS CLAM			NO-OF-IND	62	METERS	2	
					BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	METERS	27	
					BIOTA		CYATHURA POLITA			NO-OF-IND	62	METERS	20	
					BIOTA		LEPTOCHIRUS PLUMULOSUSNO-OF-IND			62	METERS	21		

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RESOURCE MONITORING DATA BASE

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	CLASS	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE		
			FT					METHOD								
								MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF4420	860804	1102	20	2139997	BIOTA		1	SPACECOM BA	E	0	3914270	762200				
					BIOTA				MICRURA LEIDYI		NO-OF-IND	62	METERS	5		
					BIOTA				HETEROMASTUS FILIFORMISNO-OF-IND		62	METERS	14			
					BIOTA				GREEN WORM		NO-OF-IND	62	METERS	9		
					BIOTA				BALTIC CLAM		NO-OF-IND	62	METERS	1		
					BIOTA				BRACKISH WATER CLAM		NO-OF-IND	62	METERS	11		
					BIOTA				CYATHURA POLITA		NO-OF-IND	62	METERS	27		
					BIOTA				EDOTEA TRILoba		NO-OF-IND	62	METERS	1		
					BIOTA				LEPTOCHIRUS PLUMULOSUSNO-OF-IND		62	METERS	5			
					BIOTA				CHIRODOTEA ALMYRA		NO-OF-IND	62	METERS	1		
					BIOTA				MUD CRAB		NO-OF-IND	62	METERS	1		
XIF4127	860804	1025	10	2139997	BIOTA		1	SPACECOM BA	E	0	3914200	762243				
					BIOTA				TUBULANUS PELLUCIDUS		NO-OF-IND	62	METERS	7		
					BIOTA				PARAPRIONOSPONGIA PINNATA		NO-OF-IND	62	METERS	71		
					BIOTA				GREEN WORM		NO-OF-IND	62	METERS	65		
					BIOTA				BALTIC CLAM		NO-OF-IND	62	METERS	24		
					BIOTA				MITCHells CLAM		NO-OF-IND	62	METERS	4		
					BIOTA				BRACKISH WATER CLAM		NO-OF-IND	62	METERS	14		
					BIOTA				CYATHURA POLITA		NO-OF-IND	62	METERS	23		
					BIOTA				EDOTEA TRILoba		NO-OF-IND	62	METERS	3		
					BIOTA				LEPTOCHIRUS PLUMULOSUSNO-OF-IND		62	METERS	56			
XIG5405	860804	1203	12	2139997	BIOTA		1	SPACECOM BA	E	0	3915270	762032				
					BIOTA				MICRURA LEIDYI		NO-OF-IND	62	METERS	3		
					BIOTA				HETEROMASTUS FILIFORMISNO-OF-IND		62	METERS	157			
					BIOTA				CLAM WORM		NO-OF-IND	62	METERS	3		
					BIOTA				GREEN WORM		NO-OF-IND	62	METERS	127		
					BIOTA				PLATFORM MUSSEL		NO-OF-IND	62	METERS	1		
					BIOTA				MITCHells CLAM		NO-OF-IND	62	METERS	3		
					BIOTA				BRACKISH WATER CLAM		NO-OF-IND	62	METERS	21		
					BIOTA				CYATHURA POLITA		NO-OF-IND	62	METERS	18		
					BIOTA				LEPTOCHIRUS PLUMULOSUSNO-OF-IND		62	METERS	22			
					BIOTA				COROPHium LACUSTRE		NO-OF-IND	62	METERS	8		
					BIOTA				MELITA NITIDA		NO-OF-IND	62	METERS	1		
XIF4124	860807	1040	12	2139997	BIOTA		1	SPACECOM BA	E	0	3914090	762228				
					BIOTA				MICRURA LEIDYI		NO-OF-IND	62	METERS	3		
					BIOTA				HETEROMASTUS FILIFORMISNO-OF-IND		62	METERS	10			
					BIOTA				GREEN WORM		NO-OF-IND	62	METERS	17		
					BIOTA				BALTIC CLAM		NO-OF-IND	62	METERS	4		
					BIOTA				MITCHells CLAM		NO-OF-IND	62	METERS	3		
					BIOTA				BRACKISH WATER CLAM		NO-OF-IND	62	METERS	2		
					BIOTA				CYATHURA POLITA		NO-OF-IND	62	METERS	15		
					BIOTA				EDOTEA TRILoba		NO-OF-IND	62	METERS	1		
					BIOTA				LEPTOCHIRUS PLUMULOSUSNO-OF-IND		62	METERS	33			
XIF6368	860804	1323	12	2139997	BIOTA		1	SPACECOM BA	E	0	3916150	762242				
					BIOTA				MICRURA LEIDYI		NO-OF-IND	62	METERS	3		
					BIOTA				HETEROMASTUS FILIFORMISNO-OF-IND		62	METERS	3			
					BIOTA				GREEN WORM		NO-OF-IND	62	METERS	1		
					BIOTA				MITCHells CLAM		NO-OF-IND	62	METERS	2		
					BIOTA				BRACKISH WATER CLAM		NO-OF-IND	62	METERS	27		
					BIOTA				CYATHURA POLITA		NO-OF-IND	62	METERS	14		
					BIOTA				LEPTOCHIRUS PLUMULOSUSNO-OF-IND		62	METERS	40			
					BIOTA				UNIDENTIFIED CHIRONOMIDNO-OF-IND		62	METERS	1			

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUR	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
								MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF5297	860804	1252	15	2139997	BIOTA	1	SPACECOM BA	E	0	3915550	762003				.	
					BIOTA			MICRURA LEIDYI		NO-OFF-IND	62	METERS		5		
					BIOTA			HETEROMASTUS FILIFORMIS	NO-OFF-IND	62	METERS		49			
					BIOTA			CLAM WORM	NO-OFF-IND	62	METERS		44			
					BIOTA			GREEN WORM	NO-OFF-IND	62	METERS		10			
					BIOTA			PLATECRM MUSSEL	NO-OFF-IND	62	METERS		11			
					BIOTA			BRACKISH WATER CLAM	NO-OFF-IND	62	METERS		6			
					BIOTA			BARNACLE	NO-OFF-IND	62	METERS		158			
					BIOTA			CYATHURA POLITA	NO-OFF-IND	62	METERS		10			
					BIOTA			CASSIDINIDEA LUNIFRONS	NO-OFF-IND	62	METERS		16			
					BIOTA			MELITA NITIDA	NO-OFF-IND	62	METERS		49			
					BIOTA			MUD CRAB	NO-OFF-IND	62	METERS		43			
XIF3325	860804	1006	8	2139997	BIOTA	1	SPACECOM BA	E	0	3913290	762250					
					BIOTA			MICRURA LEIDYI	NO-OFF-IND	62	METERS		4			
					BIOTA			HETEROMASTUS FILIFORMIS	NO-OFF-IND	62	METERS		8			
					BIOTA			GREEN WORM	NO-OFF-IND	62	METERS		6			
					BIOTA			BALTIC CLAM	NO-OFF-IND	62	METERS		2			
					BIOTA			MITCHELLS CLAM	NO-OFF-IND	62	METERS		1			
					BIOTA			BRACKISH WATER CLAM	NO-OFF-IND	62	METERS		2			
					BIOTA			CYATHURA POLITA	NO-OFF-IND	62	METERS		14			
					BIOTA			LEPTOCHEIRUS PLUMULOSUS	NO-OFF-IND	62	METERS		7			
131	XIG7690	860804	1359	14	2139997	BIOTA	1	SPACECOM BA	E	0	3917370	761851				
					BIOTA			MICRURA LEIDYI	NO-OFF-IND	62	METERS		4			
					BIOTA			HETEROMASTUS FILIFORMIS	NO-OFF-IND	62	METERS		1			
					BIOTA			GREEN WORM	NO-OFF-IND	62	METERS		16			
					BIOTA			BRACKISH WATER CLAM	NO-OFF-IND	62	METERS		23			
					BIOTA			CYATHURA POLITA	NO-OFF-IND	62	METERS		11			
					BIOTA			LEPTOCHEIRUS PLUMULOSUS	NO-OFF-IND	62	METERS		18			
XIF5145	860804	1652	15	2139997	BIOTA	1	SPACECOM BA	E	0	3915040	762421					
					BIOTA			MICRURA LEIDYI	NO-OFF-IND	62	METERS		7			
					BIOTA			HETEROMASTUS FILIFORMIS	NO-OFF-IND	62	METERS		15			
					BIOTA			CLAM WORM	NO-OFF-IND	62	METERS		6			
					BIOTA			GREEN WORM	NO-OFF-IND	62	METERS		5			
					BIOTA			BALTIC CLAM	NO-OFF-IND	62	METERS		5			
					BIOTA			MITCHELLS CLAM	NO-OFF-IND	62	METERS		10			
					BIOTA			BRACKISH WATER CLAM	NO-OFF-IND	62	METERS		14			
					BIOTA			CYATHURA POLITA	NO-OFF-IND	62	METERS		13			
					BIOTA			EDOTEA TRILOBA	NO-OFF-IND	62	METERS		4			
					BIOTA			LEPTOCHEIRUS PLUMULOSUS	NO-OFF-IND	62	METERS		99			
XIF4211	860805	950	3	2139997	BIOTA	1	CONTINUUS BA	E	0	3914490	762107					
					BIOTA			CLAM WORM	NO-OFF-IND	154	ESTDNSTY		3			
					BIOTA			WHITE BARNACLE	NO-OFF-IND	154	ESTDNSTY		2			
					BIOTA			COROPHİUM LACUSTRE	NO-OFF-IND	154	ESTDNSTY		1			
					BIOTA			CORDYLOPHORA CASPIA	NO-OFF-IND	154	ESTDNSTY		2			
					BIOTA			VICTORELLA PAVIDA	NO-OFF-IND	154	ESTDNSTY		3			
XIF4211	860805	955	6	2139997	BIOTA	1	CONTINUUS BA	E	0	3914490	762107					
					BIOTA			CLAM WORM	NO-OFF-IND	154	ESTDNSTY		3			
					BIOTA			BARNACLE	NO-OFF-IND	154	ESTDNSTY		3			
					BIOTA			WHITE BARNACLE	NO-OFF-IND	154	ESTDNSTY		3			
					BIOTA			COROPHİUM LACUSTRE	NO-OFF-IND	154	ESTDNSTY		2			
					BIOTA			CORDYLOPHORA CASPIA	NO-OFF-IND	154	ESTDNSTY		3			
					BIOTA			VICTORELLA PAVIDA	NO-OFF-IND	154	ESTDNSTY		3			

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA	SUB	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
			FT		CLASS	METHOD		MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF4513	860405	930	3	2139957	BIOTA	1	CONTINUUS	BA	E	O	3914460	762116				
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			BARNACLE			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			COPROPHIUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1	10	
					BIOTA			CORDYLOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	2		
XIF4513	860405	935	6	2139957	BIOTA	1	CONTINUUS	BA	E	O	3914460	762116				
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			ISCHADIAUM RECURVUM			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			BARNACLE			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			WHITE BARNACLE			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			COPROPHIUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1		
					BIOTA			GAMMARUS TIGRINUS			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			MUD CRAB			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			CORDYLOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			ACANTHEDESIA TENUIS			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	3		
XIF4514	860405	913	3	2139957	BIOTA	1	CONTINUUS	BA	H	O	3914320	762123				
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			WHITE BARNACLE			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			COPROPHIUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1	14	
					BIOTA			CORDYLOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	2		
XIF4514	860405	916	6	2139957	BIOTA	1	CONTINUUS	BA	H	O	3914320	762123				
					BIOTA			CLAM WCRM			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			COPROPHIUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	1		
					BIOTA			GAMMARUS TIGRINUS			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			MUD CRAB			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			CORDYLOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	1		
					BIOTA			ACANTHEDESIA TENUIS			NO-CF-IND	154	ESTDNSTY	1		
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	2		
XIF4516	860405	855	1	2139957	BIOTA	1	CONTINUUS	BA	H	O	3914280	762150				
					BIOTA			MICRUPA LEIDYI			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			CLAM WCRM			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			BARNACLE			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			WHITE BARNACLE			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			COPROPHIUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			CORDYLOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			ACANTHEDESIA TENUIS			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	3		
XIF4518	860405	900	6	2139957	BIOTA	1	CONTINUUS	BA	H	O	3914280	762150				
					BIOTA			CLAM WORM			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			POLYDORA LIGNI			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			BARNACLE			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			WHITE BARNACLE			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			COPROPHIUM LACUSTRE			NO-CF-IND	154	ESTDNSTY	2		
					BIOTA			CORDYLOPHORA CASPIA			NO-CF-IND	154	ESTDNSTY	3		
					BIOTA			VICTORELLA PAVIDA			NO-CF-IND	154	ESTDNSTY	3	20	

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RESOURCE MONITORING DATA PAGE

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STATION	DATE	TIME	DEPTH	BASIN	MEDIA CLASS	SUR	SAMPLE	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE	
			FT				METHOD							REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE
XIF3639	860505	830	1	2139997	BIOTA	1	CONTINUOUS	BA	H	O	3913430	762355	.	.
							BIOTA	CLAM WORM			NO-OFF-IND	154	ESTDNSTY	3
							BIOTA	BARNACLE			NO-OFF-IND	154	ESTDNSTY	3
							BIOTA	WHITE BARNACLE			NO-OFF-IND	154	ESTDNSTY	3
							BIOTA	COROPHUM LACUSTRE			NO-OFF-IND	154	ESTDNSTY	2
							BIOTA	VICTORELLA PAVIDA			NO-OFF-IND	154	ESTDNSTY	2
XIF3632	860505	835	6	2139997	BIOTA	1	CONTINUOUS	BA	H	O	3913430	762355	.	.
							BIOTA	CLAM WORM			NO-OFF-IND	154	ESTDNSTY	3
							BIOTA	POLYDORA LIGNI			NO-OFF-IND	154	ESTDNSTY	3
							BIOTA	WHITE BARNACLE			NO-OFF-IND	154	ESTDNSTY	3
							BIOTA	COROPHUM LACUSTRE			NO-OFF-IND	154	ESTDNSTY	2
							BIOTA	ACANTHEDESIA TENUIS			NO-OFF-IND	154	ESTDNSTY	3
							BIOTA	VICTORELLA PAVIDA			NO-OFF-IND	154	ESTDNSTY	2

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Project III - Biota

Fish Data

Department of Natural Resources

Fisheries Division

List of Fish Population Site Codes

CODES

DTP	<u>GEAR</u>
EP6	D-TRAP
E17	EEL POTS
E20	EEL POTS
HM1	EEL POTS
MTO	GILL NET
S20	MORTON TRAP
TAQ	200' SEINE
T25	25' AQUARIUS TRAWL
	25' INSHORE TRAWL

CODES

HG1-5	<u>SITES</u>
HS2,4,5	GILL NET SITES
HT0,1,2,4,5,6,7,9	200' SEINE SITES
	OFFSHORE TRAWL SITES

CODES

0 OR A	<u>WEATHER</u>
1 OR B	CLEAR
2 OR C	PARTLY CLOUDY
4 OR E	OVERCAST
5 OR F	FOG, HAZE, OR THICK DUST
6 OR G	DRIZZLE
7 OR H	RAIN
8 OR I	SNOW OR RAIN AND SNOW MIXED
9 OR J	SHOWERS
	THUNDERSTORM

CODES

E	<u>TIDE</u>
F	EBB
H	FLOOD
L	HIGH SLACK
	LOW SLACK

CODES

M	<u>SEX</u>
F	MALE
I	FEMALE
	IMMATURE

WATRTEMP
WINDSPD
SALINITY

°C
MPH
0/00

FISH POPULATION SPECIES CODE

Code	Common Name	Scientific Name
1	striped bass	<i>Morone saxatilis</i>
2	white perch	<i>Morone americana</i>
8	Atlantic menhaden	<i>Brevoortia tyrannus</i>
9	gizzard shad	<i>Dorosoma cepedianum</i>
10	threadfin shad	<i>Dorosoma petenense</i>
12	Atlantic herring	<i>Clupea harengus harengus</i>
13	sea lamprey	<i>Petromyzon marinus</i>
14	cownose ray	<i>Rhinoptera bonasus</i>
21	American eel	<i>Anguilla rostrata</i>
25	bay anchovy	<i>Anchoa mitchilli</i>
29	carp	<i>Cyprinus carpio</i>
41	white catfish	<i>Ictalurus catus</i>
42	brown bullhead	<i>Ictalurus nebulosus</i>
43	channel catfish	<i>Ictalurus punctatus</i>
53	banded killifish	<i>Fundulus diaphanus</i>
55	striped killifish	<i>Fundulus majalis</i>
60	rough silverside	<i>Membras martinica</i>
62	Atlantic silverside	<i>Menidia menidia</i>
67	northern pipefish	<i>Sygnathus fuscus</i>
72	pumpkinseed	<i>Lepomis gibbosus</i>
75	yellow perch	<i>Perca flavescens</i>
76	bluefish	<i>Pomatomus saltatrix</i>
82	spot	<i>Leiostomus xanthurus</i>
92	harvestfish	<i>Pepilus alepidotus</i>
96	summer flounder	<i>Paralichthys dentatus</i>
98	hogchoker	<i>Trinectes maculatus</i>

PERIOD=85/06/01 -- 86/07/31 YY=85 MM=10 DD=4

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HT0	930	TAQ	.	36000	20	.	8.0	19.5		NW	5	2	.	0082	25	141	170	
HT0	930	TAQ	.	36000	20	.	8.0	19.5		NW	5	2	.	0025	250	45	84	
HT0	930	TAQ	.	35000	20	.	8.0	19.5		NW	5	2	.	0081	4	102	157	
HT0	930	TAQ	.	36000	20	.	8.0	19.5		NW	5	2	.	0076	1	129	.	
HT0	930	TAQ	.	36000	20	.	8.0	19.5		NW	5	2	.	0092	42	64	127	
HT1	1100	TAQ	.	36000	20	.	7.6	19.5		NW	5	2	.	0082	22	138	158	
HT1	1100	TAQ	.	36000	20	.	7.6	19.5		NW	5	2	.	0092	2	80	95	
HT1	1100	TAQ	.	36000	20	.	7.6	19.5		NW	5	2	.	0098	1	41	.	
HT1	1100	TAQ	.	36000	20	.	7.6	19.5		NW	5	2	.	0025	32	46	80	
HT2	1030	TAQ	.	36000	20	.	7.5	19.5		NW	5	2	.	0082	23	140	155	
HT2	1030	TAQ	.	36000	20	.	7.5	19.5		NW	5	2	.	0025	37	45	73	
HT4	1130	TAQ	.	36000	20	.	7.8	19.8		NW	5	2	.	0001	1	280	.	
HT4	1130	TAQ	.	36000	20	.	7.8	19.8		NW	5	2	.	0002	6	186	250	
HT4	1130	TAQ	.	36000	20	.	7.8	19.8		NW	5	2	.	0082	8	145	160	
HT4	1130	TAQ	.	36000	20	.	7.8	19.8		NW	5	2	.	0025	19	50	75	
HT5	1200	TAQ	.	36000	20	.	7.2	19.5		NW	5	2	.	0029	1	850	.	
HT5	1200	TAQ	.	36000	20	.	7.2	19.5		NW	5	2	.	0082	38	130	170	
HT5	1200	TAQ	.	36000	20	.	7.2	19.5		NW	5	2	.	0025	100	40	62	
HT5	1200	TAQ	.	36000	20	.	7.2	19.5		NW	5	2	.	0076	1	342	.	
HT6	1230	TAQ	.	36000	20	.	7.9	19.8		NW	5	2	.	0082	2	155	160	
HT6	1230	TAQ	.	36000	20	.	7.9	19.8		NW	5	2	.	0025	29	42	67	
HT6	1230	TAQ	.	36000	20	.	7.9	19.8		NW	5	2	.	0081	1	112	.	
HT7	1300	TAQ	.	36000	12	.	8.0	19.8		NW	5	2	.	0082	16	122	148	
HT7	1300	TAQ	.	36000	12	.	8.0	19.8		NW	5	2	.	0025	300	41	70	
HT9	1000	TAQ	.	36000	20	.	7.8	19.0		NW	5	2	.	0082	11	151	166	
HT9	1000	TAQ	.	36000	20	.	7.8	19.0		NW	5	2	.	0025	57	49	70	
HT9	1000	TAQ	.	36000	20	.	7.8	19.0		NW	5	2	.	0081	1	100	.	

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PERIOD=85/08/01 -- 86/07/31 YY=85 MM=10 DD=9

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0002	51	100	210	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0072	2	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0042	18	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0025	113	35	85	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0082	4	40	66	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0075	7	183	232	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0098	3	85	130	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0008	1	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	0001	3	145	190	
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	2612	3	.	.	M
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	2612	1	.	.	F
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	2613	11	.	.	H
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	2613	9	.	.	F
HG3	.	T25	.	36000	18	.	4.5	18		SE	10	.	.	2614	7	.	.	M
HG3	.	DTP	240	.	18	.	4.5	18		SE	10	.	.	0072	1	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		SE	10	.	.	0075	5	173	256	
HG3	.	DTP	240	.	18	.	4.5	18		SE	10	.	.	0002	6	137	222	
HG3	.	DTP	240	.	18	.	4.5	18		SE	10	.	.	0042	1	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		SE	10	.	.	2613	2	.	.	M
HG3	.	DTP	240	.	18	.	4.5	18		SE	10	.	.	2613	2	.	.	F
HG3	.	DTP	240	.	18	.	4.5	18		SE	10	.	.	2614	1	.	.	M

PERIOD=85/08/1 -- 86/07/31 YY=85 MM=10 DD=15 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINCDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0001	1	161	.		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0082	134	135	160		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0002	20	145	16P		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0050	1	332	.		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0062	200	65	92		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0061	3	32	41		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0055	3	45	71		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	0025	1	53	.		
HS2	1010	S20	.	6368	3	.	7.0	19.9		.	2	.	2614	2	.	.	F	
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	0097	1	165	.		
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	0082	1	138	.		
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	0062	204	51	67		
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	0025	3	51	59		
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	0061	8	39	43		
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	0055	8	49	93		
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	2612	3	.	.	H	
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	2612	3	.	.	H	
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	2613	2	.	.	H	
HS2	1055	S20	.	6368	3	.	7.0	19.9		.	2	.	2614	1	.	.		
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0029	1	880	.	
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0046	1	108	.	
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0053	48	58	78	
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0062	28	67	91	
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	2612	1	.	.	H
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	2612	1	.	.	F
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	2613	1	.	.	
HS4	1130	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0001	1	220	.	
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0055	4	58	63	
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0062	72	58	101	
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0067	1	172	.	
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0053	7	54	75	
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0025	9	51	58	
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0061	3	61	64	
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	2612	1	.	.	H
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	2612	2	.	.	F
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	2613	3	.	.	H
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	2613	2	.	.	F
HS4	1200	S20	.	6368	6	.	7.0	19.2		SE	5	1	.	0002	1	214	.	
HS5	1240	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	0062	31	60	86	
HS5	1240	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	0009	2	300	370	
HS5	1300	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	0082	1	140	.	
HS5	1300	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	0042	1	223	.	
HS5	1300	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	0060	3	74	98	
HS5	1300	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	0062	56	57	90	
HS5	1300	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	0025	8	52	55	
HS5	1300	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	2613	1	.	.	H
HS5	1300	S20	.	6368	6	.	7.5	18.6		SE	5	1	.	2613	1	.	.	F

----- PERIOD=85/08/01 -- 86/07/31 YY=85 MM=10 DD=17 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	1045	T25	.	36000	15	.	6.8	22.0	H	NE	15	.	.	0082	3	140	157	.
HG2	1045	T25	.	36000	15	.	6.8	22.0	H	NE	15	.	.	0084	1	25	.	
HG2	1045	T25	.	36000	15	.	6.8	22.0	H	NE	15	.	.	0025	13	45	77	M
HG2	1045	T25	.	36000	15	.	6.8	22.0	H	NE	15	.	.	2612	2	.	.	F
HG2	1045	T25	.	36000	15	.	6.8	22.0	H	NE	15	.	.	2613	3	.	.	
HG2	1045	T25	.	36000	15	.	6.8	22.0	H	NE	15	.	.	2613	1	.	.	F
HG2	1045	T25	.	36000	15	.	6.8	22.0	H	NE	15	.	.	2614	1	.	.	
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	0002	1	198	.	
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	0025	27	50	78	
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	0082	12	145	155	
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	0081	1	121	.	
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	2612	1	.	.	M
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	2612	1	.	.	F
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	2613	4	.	.	
HG3	1110	T25	.	36000	20	.	7.0	22.0	H	NE	15	.	.	2614	1	.	.	M
HG4	1015	T25	.	36000	6	.	6.2	20.5	H	NE	15	.	.	0082	12	160	180	
HG4	1015	T25	.	36000	6	.	6.2	20.5	H	NE	15	.	.	0062	3	76	91	
HG4	1015	T25	.	36000	6	.	6.2	20.5	H	NE	15	.	.	0025	270	44	61	
HG4	1015	T25	.	36000	6	.	6.2	20.5	H	NE	15	.	.	0024	1	30	.	
HG4	1015	T25	.	36000	6	.	6.2	20.5	H	NE	15	.	.	2612	2	.	.	M
HG4	1015	T25	.	36000	6	.	6.2	20.5	H	NE	15	.	.	2614	1	.	.	F
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	0002	120	150	205	
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	0042	40	190	257	
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	0082	64	130	162	
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	0025	200	40	87	
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	0098	1	111	.	
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	0008	1	110	.	
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	2612	2	.	.	M
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	2613	6	.	.	M
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	2613	9	.	.	F
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	2614	4	.	.	M
HG5	1135	T25	.	36000	10	.	7.1	22.0	H	NE	15	.	.	2614	5	.	.	F

----- PERIOD=85/08/01 -- 86/07/31 YY=85 MM=10 DD=18 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	0062	2	65	75	
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	0053	2	62	70	
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	0106	21	.	.	
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	0067	1	157	.	
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	2612	6	.	.	M
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	2613	1	.	.	M
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	2613	2	.	.	F
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	2614	1	.	.	M
HG1	935	T25	.	36000	5	.	5.8	21.0	H	SE	10	1	.	2614	1	.	.	F
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	0082	25	155	165	
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	0002	3	170	205	
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	0025	31	43	74	
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	0084	6	28	48	
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	2612	4	.	.	M
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	2612	1	.	.	F
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	2613	7	.	.	M

----- PERIOD=85/08/01 -- 86/07/31 YY=85 MM=10 DD=18 -----

STTE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MFSH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	1035	T25	.	36000	15	.	7.0	20.2	H	SE	12	1	.	2613	14	.	.	F
HG3	1100	T25	.	36000	20	.	7.0	20.2	H	SE	12	1	.	0082	16	142	147	
HG3	1100	T25	.	36000	20	.	7.0	20.2	H	SE	12	1	.	0081	1	152	.	
HG3	1100	T25	.	36000	20	.	7.0	20.2	H	SE	12	1	.	0025	14	48	75	
HG3	1100	T25	.	36000	20	.	7.0	20.2	H	SE	12	1	.	0084	2	28	39	
HG3	1100	T25	.	36000	20	.	7.0	20.2	H	SE	12	1	.	2613	1	.	.	M
HG3	1100	T25	.	36000	20	.	7.0	20.2	H	SE	12	1	.	2613	1	.	.	F
HG3	1100	T25	.	36000	20	.	7.0	20.2	H	SE	12	1	.	2614	1	.	.	
HG3	1120	EP6	720	.	15	.	7.0	20.2	H	SE	12	1	.	0021	6	.	.	
HG4	1000	T25	.	36000	7	.	6.0	20.5	H	SE	10	1	.	0062	9	85	90	
HG4	1000	T25	.	36000	7	.	6.0	20.5	H	SE	10	1	.	0025	21	41	63	
HG4	1000	T25	.	36000	7	.	6.0	20.5	H	SE	10	1	.	2612	1	.	.	M
HG4	1000	T25	.	36000	7	.	6.0	20.5	H	SE	10	1	.	2612	1	.	.	F
HG4	1000	T25	.	36000	7	.	6.0	20.5	H	SE	10	1	.	2613	1	.	.	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	0042	3	265	205	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	0002	96	152	205	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	0082	27	132	170	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	0097	1	92	.	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	0098	1	155	.	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	0009	1	170	.	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	0025	23	45	82	
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	2612	1	.	.	F
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	2613	23	.	.	M
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	2613	12	.	.	F
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	2614	7	.	.	M
HG5	1220	T25	.	36000	8	.	5.8	21.0	H	SE	12	.	.	2614	8	.	.	F

----- PERIOD=85/08/01 -- 86/07/31 YY=85 MM=10 DD=21 -----

STTE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MFSH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0001	1	165	.	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0002	10	176	216	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0042	1	240	.	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0067	2	132	148	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0025	112	45	57	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0062	1	85	.	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0106	24	.	.	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0082	3	160	170	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	0053	2	56	61	
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	2612	8	.	.	M
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	2612	2	.	.	F
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	2613	7	.	.	M
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	2613	6	.	.	F
HG1	1020	T25	.	36000	5	.	5.2	22.0	H	NE	15	6	.	2614	5	.	.	
HG3	1150	T25	.	36000	20	.	6.2	21.0	NE	15	6	.	0002	28	145	194		
HG3	1150	T25	.	36000	20	.	6.2	21.0	NE	15	6	.	0082	7	25	154		
HG3	1150	T25	.	36000	20	.	6.2	21.0	NE	15	6	.	0081	2	148	155		
HG3	1150	T25	.	36000	20	.	6.2	21.0	NE	15	6	.	0098	6	40	135		
HG3	1150	T25	.	36000	20	.	6.2	21.0	NE	15	6	.	0025	5	48	78		
HG3	1150	T25	.	36000	20	.	6.2	21.0	NE	15	6	.	2613	1	.	.	M	
HG3	1150	T25	.	36000	20	.	6.2	21.0	NE	15	6	.	2613	3	.	.	F	
HG4	1100	T25	.	36000	8	.	6.0	22.0	H	NE	15	6	.	0025	125	42	80	

----- PERIOD=85/08/11 -- 86/07/31 YY=85 MM=10 DD=21 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG4	1100	T25	.	36000	8	.	6.0	22.0	H	NE	15	6	.	0082	34	134	178	
HG4	1100	T25	.	36000	8	.	6.0	22.0	H	NE	15	6	.	0002	9	148	200	
HG4	1100	T25	.	36000	8	.	6.0	22.0	H	NE	15	6	.	0096	1	110	.	
HG4	1100	T25	.	36000	8	.	6.0	22.0	H	NE	15	6	.	0084	6	30	35	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	0002	49	146	212	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	0042	40	220	272	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	0081	1	155	.	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	0082	29	26	160	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	0090	1	53	.	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	0025	88	45	83	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	0098	2	130	140	
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	2613	8	.	*	M
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	2613	5	.	.	F
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	2614	1	.	.	M
HG5	1220	T25	.	36000	9	.	5.5	21.5		NE	15	6	.	2614	2	.	.	F

----- PERIOD=85/08/01 -- 86/07/31 YY=85 MM=10 DD=22 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0002	24	163	216	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0082	7	130	140	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0067	1	160	.	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0075	2	136	155	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0072	1	105	.	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0053	1	50	.	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0025	62	45	84	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	0042	1	251	.	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	2612	5	.	.	
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	2612	2	.	.	F
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	2613	6	.	.	H
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	2613	3	.	.	F
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	2614	4	.	.	M
HG1	945	T25	.	36000	6	.	6.0	22.0	H	NE	20	6	.	2614	2	.	.	F
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0002	34	162	217	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0082	12	36	148	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0025	141	42	85	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0001	1	200	.	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0067	1	199	.	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0098	2	38	130	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0062	2	70	76	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	0081	3	144	150	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	2613	2	.	.	
HG3	1100	T25	.	36000	20	.	5.8	21.8	H	NE	20	6	.	2613	1	.	.	F
HG4	1025	T25	.	36000	8	.	5.8	21.5	H	NE	20	6	.	0025	582	42	80	
HG4	1025	T25	.	36000	8	.	5.8	21.5	H	NE	20	6	.	0082	8	139	157	
HG4	1025	T25	.	36000	8	.	5.8	21.5	H	NE	20	6	.	0002	3	157	164	
HG4	1025	T25	.	36000	8	.	5.8	21.5	H	NE	20	6	.	0098	1	100	.	
HG5	1140	T25	.	36000	10	.	5.5	22.0	H	NE	20	6	.	0042	16	164	205	
HG5	1140	T25	.	36000	10	.	5.5	22.0	H	NE	20	6	.	0002	32	145	200	
HG5	1140	T25	.	36000	10	.	5.5	22.0	H	NE	20	6	.	0097	1	115	.	
HG5	1140	T25	.	36000	10	.	5.5	22.0	H	NE	20	6	.	0090	2	50	52	
HG5	1140	T25	.	36000	10	.	5.5	22.0	H	NE	20	6	.	0025	44	42	80	

----- PERIOD=85/08/11 -- 86/07/31 YY=85 MM=10 DD=23 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG5	1155	T25	.	36000	10	.	5.5	22	H	NE	12	2	.	0098	5	34	130	
HG5	1155	T25	.	36000	10	.	5.5	22	H	NE	12	2	.	0067	2	93	160	
HG5	1155	T25	.	36000	10	.	5.5	22	H	NE	12	2	.	0106	12	.	.	
HG5	1155	T25	.	36000	10	.	5.5	22	H	NE	12	2	.	2612	3	.	.	M
HG5	1155	T25	.	36000	10	.	5.5	22	H	NE	12	2	.	2612	1	.	.	F
HG5	1155	T25	.	36000	19	.	5.5	22	H	NE	12	2	.	2613	8	.	.	M
HG5	1155	T25	.	36000	10	.	5.5	22	H	NE	12	2	.	2613	4	.	.	F

----- PERIOD=85/08/01 -- 86/07/31 YY=85 MM=10 DD=24 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	945	EP6	240	.	6	.	5	21.5	.	.	6	.	.	0053	1	80	.	

PERIOD=85/09/01 -- 86/07/31 YY=86 MM=5 DD=13

SITE TIME GEAR SETOVER AREACOV DEPTH DO SALINITY WATFTEMP TIDE WINDDIR WINDSPD WEATHER MESH SPCODE COUNT MINSIZE MAXSIZE SEX

HG1	930	EP6	240	.	6	.	3.5	17.0	HF	SE	3	1	.	0021	1	.	.
HG1	930	EP6	240	.	6	.	3.5	17.0	HF	SE	3	1	.	0072	2	.	.
HG1	1115	T25	.	36000	8	.	3.3	18.0	HF	SE	3	1	.	0075	1	134	.
HG1	1115	T25	.	36000	8	.	3.3	18.0	HF	SE	3	1	.	0025	3	58	62
HG1	1115	T25	.	36000	8	.	3.3	18.0	HF	SE	3	1	.	2612	2	.	M
HG1	1115	T25	.	36000	8	.	3.3	18.0	HF	SE	3	1	.	2612	2	.	F
HG1	1115	T25	.	36000	8	.	3.3	18.0	HF	SE	3	1	.	2613	2	.	H
HG1	1115	T25	.	36000	8	.	3.3	18.0	HF	SE	3	1	.	2613	3	.	F
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	0002	9	145	220
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	0082	1	151	.
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	0003	2	144	163
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	1094	1	234	.
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	0025	12	48	75
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	0098	4	.	.
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	2612	1	.	M
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	2612	1	.	F
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	2613	9	.	H
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	2613	3	.	F
HG2	1340	T25	.	36000	12	.	3.5	18.0	HF	SW	10	1	.	2614	3	.	M
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	0002	4	145	223
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	0008	1	136	.
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	1094	2	234	248
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	0025	135	49	88
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	0098	2	.	.
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	0082	4	28	31
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	2612	1	.	M
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	2613	4	.	H
HG3	1440	T25	.	36000	15	.	4.0	18.2	HF	SW	10	1	.	2613	4	.	F
HG4	1205	T25	.	30000	6	.	3.3	18.0	HF	SE	3	1	.	0062	2	90	95
HG4	1205	T25	.	30000	6	.	3.3	18.0	HF	SE	3	1	.	0002	3	182	230
HG4	1205	T25	.	30000	6	.	3.3	18.0	HF	SE	3	1	.	2613	3	.	M
HG4	1205	T25	.	30000	6	.	3.3	18.0	HF	SE	3	1	.	2613	1	.	F
HG5	1330	T25	.	36000	8	.	3.0	18.0	HF	SE	3	1	.	0002	13	126	190
HG5	1330	T25	.	36000	8	.	3.0	18.0	HF	SE	3	1	.	0062	8	81	113

--- PERIOD=85/08 '01 -- 86/07/31 YY=86 MM=5 DD=13 ---

SITE TIME GEAR SETOVER AREACOV DEPTH DO SALINITY WATRTMP TIDE WINDDIR WINDSPD WEATHER MESH SPCODE COUNT MINSIZE MAXSIZE SEX

HG5	1330	T25	.	36000	9	.	3	18	HF	SE	3	1	.	0098	2	69	143
HG5	1330	T25	.	36000	8	.	3	18	HF	SE	3	1	.	0072	2	55	151
HG5	1330	T25	.	36000	8	.	3	18	HF	SE	3	1	.	0082	5	31	34
HG5	1330	T25	.	36000	8	.	3	18	HF	SE	3	1	.	0021	2	.	.
HG5	1330	T25	.	36000	8	.	3	18	HF	SE	3	1	.	0029	1	650	.
HG5	1330	T25	.	36000	8	.	3	18	HF	SE	3	1	.	1094	2	190	244
HG5	1330	T25	.	36000	8	.	3	18	HF	SE	3	1	.	0025	120	40	81

--- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=14 ---

SITE TIME GEAR SETOVER AREACOV DEPTH DO SALINITY WATRTMP TIDE WINDDIR WINDSPD WEATHER MESH SPCODE COUNT MINSIZE MAXSIZE SEX

HG1	1000	EP6	240	.	6	.	3.5	17	HF	SE	5	2	.	0072	1	.	.
HG1	1035	T25	.	36000	5	.	3.0	17	HF	SE	5	2	.	0003	1	170	.
HG1	1035	T25	.	36000	5	.	3.0	17	HF	SE	5	2	.	0025	2	50	55
HG1	1035	T25	.	36000	5	.	3.0	17	HF	SE	5	2	.	0062	1	72	.
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	1094	9	220	245
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	0002	21	90	230
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	0075	1	140	.
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	0098	1	.	.
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	0067	1	.	.
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	0025	225	41	82
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	0082	3	28	30
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	2613	1	.	.
HG2	1125	T25	.	36000	15	.	4.5	17	HF	SE	8	2	.	2614	2	.	.
HG3	1200	T25	.	36000	20	.	4.2	17	HF	SE	8	2	.	0008	2	180	182
HG3	1200	T25	.	36000	20	.	4.2	17	HF	SE	8	2	.	0002	8	152	235
HG3	1200	T25	.	36000	20	.	4.2	17	HF	SE	8	2	.	0082	12	26	32
HG3	1200	T25	.	36000	20	.	4.2	17	HF	SE	8	2	.	0025	410	38	85
HG3	1200	T25	.	36000	20	.	4.2	17	HF	SE	8	2	.	2613	1	.	.
HG3	1200	T25	.	36000	20	.	4.2	17	HF	SE	8	2	.	2613	1	.	.
HG4	1105	T25	.	36000	8	.	3.5	17	HF	SE	5	2	.	0002	2	180	236
HG4	1105	T25	.	36000	8	.	3.5	17	HF	SE	5	2	.	0075	1	161	.
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0029	1	730	.
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0072	3	67	142
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0002	9	138	184
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0008	3	135	140
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0098	1	.	.
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0062	5	98	110
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0025	156	43	78
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0082	3	28	32
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	1094	1	235	.
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	0021	1	.	.
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	2612	1	.	.
HG5	1225	T25	.	36000	8	.	4.0	17	HF	SE	8	2	.	2613	1	.	.

PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=15

SITE TIME GEAR SETCOVER AREACOV DEPTH DO SALINITY WATRTEMP TIDE WINDDIR WINDSPD WEATHER MESH SPCODE COUNT MINSIZE MAXSIZE SEX

HG2	1000	EP6	240	.	15	.	3.5	17	HF	SE	10	2	.	0000	.	.	.
HT0	1000	TAQ	.	36000	15	.	3.9	17	HF	SE	10	2	.	0002	48	120	205
HT0	1000	TAQ	.	36000	15	.	3.9	17	HF	SE	10	2	.	1094	1	195	.
HT0	1000	TAQ	.	36000	15	.	3.9	17	HF	SE	10	2	.	0025	530	40	75
HT0	1000	TAQ	.	36000	15	.	3.9	17	HF	SE	10	2	.	0008	4	128	144
HT1	1120	TAQ	.	36000	20	.	4.2	16	HF	SE	10	2	.	0002	4	155	215
HT1	1120	TAQ	.	36000	20	.	4.2	16	HF	SE	10	2	.	0098	1	120	.
HT1	1120	TAQ	.	36000	20	.	4.2	16	HF	SE	10	2	.	0025	365	55	85
HT2	1100	TAQ	.	36000	20	.	5.2	16	HF	SE	10	2	.	0002	10	110	212
HT2	1100	TAQ	.	36000	20	.	5.2	16	HF	SE	10	2	.	0025	667	60	85
HT4	1140	TAQ	.	36000	20	.	4.2	17	HF	SE	5	2	.	0008	1	140	.
HT4	1140	TAQ	.	36000	20	.	4.2	17	HF	SE	5	2	.	0025	524	40	90
HT4	1140	TAQ	.	36000	20	.	4.2	17	HF	SE	5	2	.	0082	1	154	.
HT5	1200	TAQ	.	36000	20	.	4.4	17	HF	SE	5	2	.	0002	19	125	230
HT5	1200	TAQ	.	36000	20	.	4.4	17	HF	SE	5	2	.	0075	1	140	.
HT5	1200	TAQ	.	36000	20	.	4.4	17	HF	SE	5	2	.	0062	1	70	.
HT5	1200	TAQ	.	36000	20	.	4.4	17	HF	SE	5	2	.	0025	704	38	60
HT5	1220	TAQ	.	36000	15	.	4.2	17	HF	SE	5	2	.	0029	1	800	.
HT6	1220	TAQ	.	36000	15	.	4.2	17	HF	SE	5	2	.	0008	9	140	170
HT6	1220	TAQ	.	36000	15	.	4.2	17	HF	SE	5	2	.	0002	5	110	195
HT6	1220	TAQ	.	36000	15	.	4.2	17	HF	SE	5	2	.	0075	1	160	.
HT6	1220	TAQ	.	36000	15	.	4.2	17	HF	SE	5	2	.	0025	719	42	70
HT7	1300	TAQ	.	36000	12	.	3.5	17	HF	SE	5	2	.	0002	19	122	190
HT7	1300	TAQ	.	36000	12	.	3.5	17	HF	SE	5	2	.	1094	5	160	245
HT7	1300	TAQ	.	36000	12	.	3.5	17	HF	SE	5	2	.	0001	2	225	260
HT7	1300	TAQ	.	36000	12	.	3.5	17	HF	SE	5	2	.	0025	542	36	65
HT9	1035	TAQ	.	36000	20	.	3.7	17	HF	SE	10	2	.	0002	8	115	200
HT9	1035	TAQ	.	36000	20	.	3.7	17	HF	SE	10	2	.	0025	301	40	68

PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=16

SITE TIME GEAR SETCOVER AREACOV DEPTH DO SALINITY WATRTEMP TIDE WINDDIR WINDSPD WEATHER MESH SPCODE COUNT MINSIZE MAXSIZE SEX

HG1	1010	T25	.	36000	12	.	3.5	16	SW	10	2	.	0002	6	173	265	
HG1	1010	T25	.	36000	12	.	3.5	16	SW	10	2	.	0003	3	148	178	
HG1	1010	T25	.	36000	12	.	3.5	16	SW	10	2	.	0025	52	36	75	
HG1	1010	T25	.	36000	12	.	3.5	16	SW	10	2	.	2612	1	.	M	
HG1	1010	T25	.	36000	12	.	3.5	16	SW	10	2	.	2613	2	.	M	
HG2	1020	EP6	240	.	15	.	3.5	17	HF	SW	10	1	.	0002	1	.	.
HG2	1055	T25	.	36000	18	.	3.7	16	HF	SW	10	1	.	0067	1	.	.
HG2	1055	T25	.	36000	18	.	3.7	16	HF	SW	10	1	.	0002	16	126	185
HG2	1055	T25	.	36000	18	.	3.7	16	HF	SW	10	1	.	0025	226	41	85
HG2	1055	T25	.	36000	18	.	3.7	16	HF	SW	10	1	.	0075	1	182	.
HG2	1055	T25	.	36000	18	.	3.7	16	HF	SW	10	1	.	2612	2	.	M
HG2	1055	T25	.	36000	18	.	3.7	16	HF	SW	10	1	.	2613	1	.	F M
HG2	1055	T25	.	36000	18	.	3.7	16	HF	SW	10	1	.	2614	1	.	.
HG4	1030	T25	.	36000	12	.	3.5	16	HF	SW	10	2	.	0075	1	183	.
HG4	1030	T25	.	36000	12	.	3.5	16	HF	SW	10	2	.	0025	5	37	71
HG4	1030	T25	.	36000	12	.	3.5	16	HF	SW	10	2	.	2612	1	.	M
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0008	4	115	129
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0002	19	112	205
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0003	5	148	199
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0043	1	460	.

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=16 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	1094	12	220	238	
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0072	8	137	168	
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0062	6	96	115	
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0025	139	38	73	
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0082	4	26	29	
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	0029	1	800	.	
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	2613	1	.	.	H
HG5	1210	T25	.	36000	10	.	3.8	16	HF	SW	10	1	.	2614	1	.	.	M

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=19 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	1030	T25	.	36000	10	.	3.5	17	LF	SW	15	1	.	.	.	.	.	.
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	0075	3	142	186	
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	0002	1	132	.	
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	1094	1	244	.	
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	0098	4	115	164	
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	0072	1	124	.	
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	0021	1	300	.	
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	0025	1380	38	82	
HG2	1100	T25	.	36000	15	.	4.0	17	LF	SW	15	1	.	0082	45	26	30	
HG4	1045	T25	.	36000	10	.	3.5	17	LF	SW	15	1	.	0003	1	160	.	
HG4	1045	T25	.	36000	10	.	3.5	17	LF	SW	15	1	.	0002	2	177	192	
HG4	1045	T25	.	36000	10	.	3.5	17	LF	SW	15	1	.	0062	2	109	122	
HG5	1145	T25	.	36000	8	.	4.0	18	LF	SW	15	1	.	0002	30	93	213	
HG5	1145	T25	.	36000	8	.	4.0	18	LF	SW	15	1	.	0008	2	118	176	
HG5	1145	T25	.	36000	8	.	4.0	18	LF	SW	15	1	.	0072	1	126	.	
HG5	1145	T25	.	36000	8	.	4.0	18	LF	SW	15	1	.	1094	6	210	246	
HG5	1145	T25	.	36000	8	.	4.0	18	LF	SW	15	1	.	0062	14	98	118	
HG5	1145	T25	.	36000	8	.	4.0	18	LF	SW	15	1	.	0025	950	42	82	

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=20 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	1140	T25	.	25000	6	.	3.5	17	LF	SE	20	6	.	0002	1	147	.	
HG3	1030	EP6	240	.	15	.	3.5	17	LF	SE	20	6	.	0021	2	.	.	
HG4	1210	T25	.	36000	9	.	3.5	17	LF	SE	20	6	.	0029	1	915	.	
HG4	1210	T25	.	36000	9	.	3.5	17	LF	SE	20	6	.	0025	2	48	56	
HG5	1240	T25	.	36000	10	.	3.7	17	LF	SE	20	6	.	0008	2	128	132	
HG5	1240	T25	.	36000	10	.	3.7	17	LF	SE	20	6	.	0043	4	310	405	
HG5	1240	T25	.	36000	10	.	3.7	17	LF	SE	20	6	.	1094	2	215	245	
HG5	1240	T25	.	36000	10	.	3.7	17	LF	SE	20	6	.	0002	7	122	176	
HG5	1240	T25	.	36000	10	.	3.7	17	LF	SE	20	6	.	0072	2	80	84	
HG5	1240	T25	.	36000	10	.	3.7	17	LF	SE	20	6	.	0025	475	44	94	
HG5	1240	T25	.	36000	10	.	3.7	17	LF	SE	20	6	.	0062	1	118	.	

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=21 -----

SITE TIME GEAR SETOVER AREACOV DEPTH DO SALINITY WATRTEMP TIDE WINDDIR WINDSPD WEATHER MESH SPCODE COUNT MINSIZE MAXSIZE SEX

HG1	1320	T25	.	36000	10	.	3.8	21	LF	SE	2	1	.	0025	40	43	58
HG1	1320	T25	.	36000	10	.	3.8	21	LF	SE	2	1	.	0002	1	176	.
HG2	1410	T25	.	36000	20	.	3.4	20	LF	SE	5	1	.	0025	10	45	60
HG3	1000	EP6	240	.	15	.	3.5	17	LF	NW	*	2	.	0021	1	*	.
HG3	1500	T25	.	36000	20	.	3.8	22	LF	SE	5	1	.	0025	5	51	75
HG4	1345	T25	.	36000	12	.	4.0	21	LF	SE	5	1	.	0002	2	203	211
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	0043	10	380	445
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	1094	8	215	265
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	0075	2	165	205
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	0002	4	160	227
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	0008	2	44	102
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	0072	1	80	.
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	0025	1250	42	70
HG5	1255	T25	.	36000	10	.	4.0	19	LF	SE	2	1	.	0062	2	97	102
HS2	1100	S20	.	6368	2	.	3.5	17	LF	NW	*	2	.	0055	3	110	120
HS2	1100	S20	.	6368	2	.	3.5	17	LF	NW	*	2	.	0062	80	50	101
HS2	1100	S20	.	6368	2	.	3.5	17	LF	NW	*	2	.	0053	11	47	76
HS2	1100	S20	.	6368	2	.	3.5	17	LF	NW	*	2	.	0082	1	39	.
HS4	1140	S20	.	6368	5	.	3.5	19	LF		*	2	.	0062	166	55	128
HS4	1140	S20	.	6368	5	.	3.5	19	LF		*	2	.	0025	3	51	62
HS4	1140	S20	.	6368	5	.	3.5	19	LF		*	2	.	0072	1	72	.
HS4	1140	S20	.	6368	5	.	3.5	19	LF		*	2	.	0008	30	41	49
HS4	1140	S20	.	6368	5	.	3.5	19	LF		*	2	.	0082	2	37	42
HS4	1140	S20	.	6368	5	.	3.5	19	LF		*	2	.	0002	1	142	.
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0008	19	35	179
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0009	2	167	390
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0075	2	157	190
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	1094	*	230	.
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0002	27	88	179
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0062	66	54	114
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0025	47	52	65
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0082	13	38	42
HS5	1220	S20	.	6368	4	.	3.5	19	LF		*	1	.	0067	2	*	.

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=22 -----

SITE TIME GEAR SETOVER AREACOV DEPTH DO SALINITY WATRTEMP TIDE WINDDIR WINDSPD WEATHER MESH SPCODE COUNT MINSIZE MAXSIZE SEX

HG1	1025	T25	.	36000	6	.	3.5	19.0	LF	NW	10	2	.	0072	1	155	.
HG1	1025	T25	.	36000	6	.	3.5	19.0	LF	NW	10	2	.	0025	2	58	62
HG2	1205	T25	.	36000	15	.	3.2	21.0	LF	NW	5	2	.	0075	1	162	.
HG2	1205	T25	.	36000	15	.	3.2	21.0	LF	NW	5	2	.	0002	1	143	.
HG2	1205	T25	.	36000	15	.	3.2	21.0	LF	NW	5	2	.	1094	1	245	.
HG2	1205	T25	.	36000	15	.	3.2	21.0	LF	NW	5	2	.	0098	1	115	.
HG2	1205	T25	.	36000	15	.	3.2	21.0	LF	NW	5	2	.	0025	870	48	92
HG2	1205	T25	.	36000	15	.	3.2	21.0	LF	NW	5	2	.	0008	5	34	50
HG2	1205	T25	.	36000	15	.	3.2	21.0	LF	NW	5	2	.	0082	1	28	.
HG3	1130	T25	.	36000	20	.	4.0	21.0	LF	NW	9	2	.	0098	2	56	128
HG3	1130	T25	.	36000	20	.	4.0	21.0	LF	NW	8	2	.	0002	1	158	.
HG3	1130	T25	.	36000	20	.	4.0	21.0	LF	NW	8	2	.	0025	645	46	87
HG3	1130	T25	.	36000	20	.	4.0	21.0	LF	NW	8	2	.	0082	3	24	29
HG4	920	EP6	240	.	15	.	3.5	18.0	LF	NW	10	2	.	0000	*	*	*

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=22 -----

SITE	TIME	GEAR	SETCOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG4	1230	T25	.	36000	10	.	3.2	21.5	LF	NW	5	2	.	0002	12	163	225	
HG4	1230	T25	.	36000	10	.	3.2	21.5	LF	NW	5	2	.	0062	2	98	100	
HG4	1230	T25	.	36000	10	.	3.2	21.5	LF	NW	5	2	.	0025	110	20	69	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	0098	3	38	155	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	0002	7	.	.	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	1094	12	215	255	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	0072	1	80	.	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	0025	540	36	82	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	0008	1	45	.	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	0062	1	103	.	
HG5	1055	T25	.	36000	8	.	4.0	21.0	LF	NW	8	2	.	0082	10	30	38	

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=23 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG4	1045	EP6	240	.	15	.	3.5	18	LF	SE	15	1	.	0102	.	.	.	.

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=27 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG5	1010	EP6	240	.	10	.	4	18	HF	SE	10	1	.	0021	1	.	.	
HG5	1010	EP6	240	.	10	.	4	18	HF	SE	10	1	.	0002	1	.	.	

----- PERIOD=85/08/01 -- 86/07/31 YY=86 MM=5 DD=28 -----

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG5	1035	EP6	240	.	10	.	4	18	HF	SE	10	1	.	0072	2	.	.	

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**Project IV - Analytic Services
Laboratory Analysis Data
Water Resources Administration
Environmental Protection Agency**

BDL = below detectable level

Laboratory Analysis Data

Sediment

Organic Analyses

Sample No.: DI H₂O

Lab ID No.: 851106 - DETECTION LIMITS

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units[#]</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

[#]Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 19 November 6, 1985

Lab ID No.: 851106-18

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,n,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 21-B-A

November 6, 1985

Lab ID No.: 851106-20

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 24-A November 6, 1985

Lab ID No.: 851106-21

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Phthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 3 November 6, 1985

Lab ID No.: 851106-22

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 21-B-B

November 6, 1985

Lab ID No.: 851106-25

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HI 21-B-C

November 6, 1985

Lab ID No.: 851106-26

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 23 November 5, 1985

Lab ID No.: 851106-28

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrone	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HI 23 November 5, 1985

Lab ID No.: 851106-28 - Duplicate

Polynuclear Aromatic Hydrocarbons

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Benzo (b) fluoranthene	ug/kg	BDL	128
Acenaphthene	ug/kg	BDL	128
Acenaphthylene	ug/kg	BDL	128
Anthracene	ug/kg	BDL	128
Benzo (a) anthracene	ug/kg	BDL	128
Benzo (a) pyrene	ug/kg	BDL	128
Benzo (g,h,i) perylene	ug/kg	BDL	128
Benzo (k) fluoranthene	ug/kg	BDL	128
Chrysene	ug/ug	BDL	128
Dibenz (a,h) anthracene	ug/kg	BDL	128
Fluoranthene	ug/kg	BDL	128
Flourcene	ug/kg	BDL	128
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	128
Naphthalene	ug/kg	BDL	128
Phenanthrene	ug/kg	BDL	128
Pyrene	ug/kg	BDL	128

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: DI H₂O

Lab ID No.: 851106 - DETECTION LIMITS

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dicldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 19 November 6, 1985

Lab ID No.: 851106-18

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 21-B-A

November 6, 1985

Lab ID No.: 851106-20

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 24-A

November 6, 1985

Lab ID No.: 851106-21

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 3 November 6, 1985

Lab ID No.: 851106-22

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 21-B-D November 6, 1985
Lab ID No.: 851106-25

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 21-B-C

November 6, 1985

Lab ID No.: 851106-26

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HM 23 November 6, 1985

Lab ID No.: 851106-28

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

Sample No.: HI 23 November 6, 1985

Lab ID No.: 851106-28 - Duplicate

Pesticides and PCBs

<u>Constituent</u>	<u>Units*</u>	<u>Amount</u>	<u>Detection Limit</u>
Aldrin	ug/kg	BDL	.6
Alpha BHC	ug/kg	BDL	.6
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.6
Chlordane	ug/kg	BDL	26.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.6
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.6
Toxaphene	ug/kg	BDL	320.
PCBs, Total	ug/kg	BDL	200.

*Concentrations of parameters were calculated in ug/kg dry weight in samples.

METALS ANALYSIS IN BIOTA

sample	type	Zn	Ni	Mn	Fe	Cr	Cu	% Moist
69	Clam	16.61	5.87	24.61	159.90	0.42	1.81	87.4
59	Clam	12.67	4.61	12.57	75.17	0.28	1.15	88.2
43	Clam	15.04	5.88	9.33	57.90	0.33	2.04	83.7
75	Clam	14.29	5.49	20.40	128.00	0.31	1.60	86.3
61	Clam	10.87	3.79	8.11	51.69	0.24	0.83	90.2
49	Clam	9.44	4.18	13.03	76.23	0.23	2.09	88.8
77	Clam	15.63	5.12	24.18	140.50	0.37	1.72	87.9
57	Clam	12.28	4.63	12.85	84.16	0.28	1.19	89.4
63	Clam	13.18	5.18	12.87	44.51	0.21	1.18	91.1
67	Clam	14.30	5.35	12.04	52.22	0.21	1.73	90.9
79	Clam	15.76	5.49	20.85	134.70	0.36	1.89	87.0
47	Clam	10.20	3.78	13.33	66.98	0.26	1.91	88.4
71	Clam	19.20	7.07	32.66	234.70	0.56	2.08	86.5
45	Clam	9.90	3.75	9.56	56.14	0.28	1.79	84.7
73	Clam	14.17	4.77	17.31	123.50	0.43	1.22	88.3
53	Crab	18.04	0.13	7.32	8.12	0.19	29.55	78.0
38	Crab	29.98	0.25	28.03	10.80	0.26	18.18	72.5
35	Crab	24.07	0.08	7.15	4.49	0.11	13.25	75.0
51	Crab	14.12	0.18	133.60	59.54	0.33	15.36	67.3
36	Crab	25.99	0.42	15.12	8.52	0.19	16.50	76.5
37	Crab	22.64	0.03	3.38	3.89	0.08	12.89	76.7
54	Fish	7.82	0.07	21.15	24.85	0.22	0.67	74.6
42	Fish	7.61	0.08	11.49	5.62	0.23	0.50	73.6
41	Fish	14.64	0.06	3.87	11.27	0.18	0.61	79.1
56	Fish	8.28	0.03	0.97	4.62	0.12	1.37	78.6
55	Fish	7.50	0.13	1.27	28.97	0.33	0.42	78.7
40	Fish	7.82	0.09	10.58	11.79	0.19	0.62	80.6
39	Fish	5.27	0.13	0.79	6.14	0.10	0.59	77.5

CALCULATED DRY WEIGHT

STATION	Sample	Zn dw	Ni dw	Mn dw	Fe dw	Cr dw	Cu dw	
S2	69	131.83	46.59	195.32	1269.05	3.33	14.37	
S2	59	107.37	39.07	106.53	637.03	2.37	9.75	
F2	43	92.27	36.07	57.24	355.21	2.02	12.52	
HM22	75	104.31	40.07	148.91	934.31	2.26	11.68	
S8	61	110.92	38.67	82.76	527.45	2.45	8.47	
HM22	49	84.29	37.32	116.34	680.63	2.05	18.66	
HM7	X186388	77	129.17	42.31	199.83	1161.16	3.06	14.21
S4	57	115.85	43.68	121.23	793.96	2.64	11.23	
HM22	63	148.09	58.20	144.61	500.11	2.36	13.26	
HM7	67	157.14	58.79	132.31	573.85	2.31	19.01	
HM9	79	121.23	42.23	160.38	1036.15	2.77	14.54	
HM7	47	87.93	32.59	114.91	577.41	2.24	16.47	
S4	71	142.22	52.37	241.93	1738.52	4.15	15.41	
S4 X1F4715	45	64.71	24.51	62.48	366.93	1.83	11.70	
S8 X1F4124	73	121.11	40.77	147.95	1055.56	3.68	10.43	
F4	53	82.00	0.59	33.27	36.91	0.86	134.32	
F4	38	109.02	0.91	101.93	39.27	0.95	66.11	
F1	35	96.28	0.32	28.60	17.96	0.44	53.00	
F1	51	43.18	0.55	408.56	182.08	1.01	46.97	
F2	36	110.60	1.79	64.34	36.26	0.81	70.21	
F3	37	97.17	0.13	14.51	16.70	0.34	55.32	
F2	54	30.79	0.28	83.27	97.83	0.87	2.64	
F4	42	28.83	0.30	43.52	21.29	0.87	1.89	
F3	41	70.05	0.29	18.52	53.92	0.86	2.92	
F4	56	38.69	0.14	4.53	21.59	0.56	6.40	
F3	55	35.21	0.61	5.96	136.01	1.55	1.97	
F2	40	40.31	0.46	54.54	60.77	0.98	3.20	
F1	39	23.42	0.58	3.51	27.29	0.44	2.62	