13th Annual Exterior Monitoring Data Report: September 1993 - August 1994

July 1998

Foreword

The mission of the Maryland Department of the Environment is to protect the health of Maryland's citizens and resources by preventing or mitigating impacts to our air, land and water. We must perform this mission within a framework that allows for the economic development of the State. Maintaining navigable channels for the Port of Baltimore is essential to the State's economic health. The Hart-Miller Island (HMI) Contained Disposal Facility provides ecologically sound capacity for the placement of dredged materials and is essential in keeping key waterways navigable. However, while every effort is made to provide for safe placement, we must remain vigilant to assure that nothing escapes our notice or has an unanticipated effect. The Exterior Monitoring Program provides that vigilance, monitoring sediment and ecological communities for any negative impacts caused by the use of the HMI facility. While the primary focus of the monitoring program is to prevent negative ecological impacts from the facility, it also increases our understanding of the ecological dynamics of the Upper Chesapeake Bay.

Michael S. Haire, Director
Technical and Regulatory Services Administration

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ACKNOWLEDGMENTS

The Year 13 Hart-Miller Island Exterior Monitoring Program would not have been successful without the help of several Technical and Regulatory Services Administration staff members, present and past chairman, Mr. Visty P. Dalal and Dr. Richard Eskin, respectively, technical coordinators Mr. Kum Sung-Wong, Ms. Diana Alegre, Mr. Timothy Rule, Mr. Nathaniel Brown, Ms. Ellen Lathrop-Davis and Mr. William Evans. The chairmen were responsible for making sure that the project work was done efficiently in a coordinated manner and met all the technical goals set by the Technical Review Committee for Year 13. The technical coordinators integrated the different projects and compiled the Data and Technical reports that were sent for review and comments.

The Maryland Department of the Environment would like to acknowledge the assistance provided by Mr. Roland Limpert and Mr. Mike Burch of Maryland Department of Natural Resources, in compiling the Data report and at other times when their expertise was required.

The Maryland Department of the Environment would like to thank all the members of the Hart-Miller Island Exterior Monitoring Program's Technical Review Committee and the HMI Citizens Oversight Committee for their useful comments and suggestions throughout the project year.

Lastly, thanks to Mr. Michael Haire, Director, and Mr. Narendra Panday, Technical Coordinator, Technical and Regulatory Services Administration for their guidance and suggestion throughout the project.

DEFINITION OF TERMS

Amphipod	Crustacean order containing laterally compressed members such as the sand hoppers.
Bathymetric	Referring to contours of depth below the water's surface.
Benthic	Referring to the bottom of a body of water.
Benthos	The organisms living in or on the bottom of a body of water.
Bioaccumulation	The accumulation of foreign substances, particularly toxic contaminants, within the tissues of organisms. Results from chronic exposure to contaminated food or habitats.
Biogenic	Resulting from the activity of living organisms. For example, bivalve shells are biogenic materials.
Biota	The animal and plant life of a region.
Bioturbation	Mixing of sediments by the burrowing and feeding activities of sediment-dwelling organisms. This disturbs the normal, layered patterns of sediment accumulation.
Brackish	Salty, though less saline than sea water.
Bryozoa	Phylum of colonial animals that often share one coelomic cavity. Encrusting and branching forms secrete a protective housing (zooecium) of calcium carbonate or chitinous material. Possess lophophore feeding structure.
Contained disposal facility	A dike-enclosed structure used for the placement of dredged material.
Contaminated material	Material dredged from Baltimore Harbor, originating to the northwest of a line from North Point to Rock Point. Material shows high concentrations of metals, PCBs, organics, etc.
Dendrogram	A branching, diagrammatic representation of the interrelations of a group of items sharing some common factors (as of natural groups connected by ancestral forms).
Desiccation	The process of drying thoroughly; exhausting or depriving of moisture.

Diversity index	A statistical measure that incorporates information on the number of species present in a habitat with the abundance of each species. A low diversity index suggests that the habitat has been stressed or disturbed.
Dominant (species)	An organism or a group of organisms that by their size and/or numbers constitute the majority of the community.
Dredge	Any of various machines equipped with scooping or suction devices used in deepening harbors and waterways and in underwater mining.
Effluent	Something that flows out or forth; an outflow or discharge of waste, as from a sewer.
Enrichment factor	A method of normalizing geochemical data to a reference material, which partially corrects for variation due to grain size.
Epifauna	Benthic animals living on the surface of the bottom.
Fine-grained material	Sediments consisting of particles less than or equal to 0.0062 mm in diameter.
Flocculation	An agglomeration of particles bound by electrostatic forces.
Gas chromatography	A method of chemical analysis in which a sample is vaporized and diffused along with a carrier gas through a liquid or solid adsorbent for differential adsorption. A detector records separate peaks as various compounds are released (eluted) from the column.
Gravity core	A sample of sediment from the bottom of a body of water, obtained with a cylindrical device, used to examine sediments at various depths.
Gyre	A circular motion. Used mainly in reference to the circular motion of water in each of the major ocean basins centered in subtropical high-pressure regions.
Hydrodynamics	The study of the dynamics of fluids in motion.
Hydrography	The scientific description and analysis of the physical condition, boundaries, flow, and related characteristics of oceans, rivers, lakes, and other surface waters.
Hydrozoa	A class of coelenterates that characteristically exhibit alternation of generations, with a sessile polypoid colony giving rise to a pelagic medusoid form by asexual budding.

Infauna	Benthic animals living within bottom material.
Littoral zone	The benthic zone between the highest and lowest normal water marks; the intertidal zone.
Nephelometric turbidity unit (NTU)	A unit of measurement of the amount of light scattered or reflected by particles within a liquid.
Radiograph	An image produced on a radiosensitive surface, such as a photographic film, by radiation other than visible light, especially by x-rays passed through an object or by photographing a fluoroscopic image.
Salinity	The concentration of salt in a solution. Full strength seawater has a salinity of about 35 parts per thousand (ppt). Normally computed from conductivity or chlorinity.
Secchi depth	The depth at which a standard, black and white Secchi disk disappears from view when lowered into water.
Seine	A large fishing net made to hang vertically in the water by weights at the lower edge and floats on the top.
Spectrophotometer	An instrument used in chemical analysis to measure the intensity of color in a solution.
Spillway	A channel for an overflow of water.
Substrate	A surface on or in which a plant or animal grows or is attached.
Supernatant	The clear fluid over sediment or precipitate.
Total suspended solids (TSS)	A measurement (usually in milligrams per liter or parts per million) of the amount of particulate matter suspended in a liquid.
Trace metal	A metal that occurs in minute quantities in a substance.
Trawl	A large, tapered fishing net of flattened conical shape, towed along the sea bottom. To catch fish by means of a trawl.
Turbidity	The property of the scattering or reflection of light within a fluid, as caused by suspended or stirred-up particles.

Turbidity maximum

In the Upper Chesapeake Bay, a zone where turbidity is typically the greatest, resulting from the influx of river-borne sediments, and flocculation of clay particles due to prevailing salinity patterns.

INTRODUCTION

The Year 13 Hart-Miller Island Exterior Monitoring Program consisted of several environmental studies conducted from June 1993 through August 1994. This document constitutes the Year 13 Data Report, and is a companion document to the Year 13 Technical Report, released concurrently. This document presents in full environmental data collected as components of the three monitoring projects: Sedimentary Environment, Benthic Community Ecology, and Analytical Services (analyses of benthic tissue contaminants and sediment organic contaminants). Discussion, analysis, and interpretation of the data, as well as recommendations based therein, are presented in the Technical Report.

Construction of the Hart-Miller Island Contained Disposal Facility was completed in 1983. Since that time, the facility has been used for the placement of contaminated and uncontaminated material dredged from Baltimore Harbor and shipping channels leading to the Port of Baltimore. While the original intent of the facility was to provide placement capacity for contaminated material, uncontaminated material from the deepening of the Port of Baltimore channels has also been placed there.

PROJECT I (Scientific Coordination and Technical Management)

Responsibility for scientific coordination and technical management of the HMI Exterior Monitoring Program was shifted from the Maryland Department of Natural Resources (DNR) to the Maryland Department of the Environment (MDE) in 1996, during the writing of the Year 13 reports. Subsequent to the inter-agency transferal, project management responsibilities were again shifted within MDE, to the Dredging Coordination and Assessment Division (DCAD) within the Technical and Regulatory Services Administration.

MDE's Project I responsibilities for Year 13 included technical oversight, project management, data and budgetary management, and report preparation. MDE was responsible for the arrangement of meetings among the Principal Investigators and among the Technical Review Committee members. Since Project I did not entail the collection of data, no separate chapter for Project I is included in this Data Report.

PROJECT II (Sedimentary Environment)

The Maryland Geological Survey (MGS), within DNR, conducted studies of the sedimentary environment at HMI, including physical studies (grain size analysis, gravity core assessments) and chemical studies (concentrations of selected metals in sediments). A Beach Erosion Study was also conducted during Year 13.

Data collected over the course of these studies are presented in this report, along with a summary of methodological techniques. Results, interpretations, analyses and discussions appear in the Technical Report.

PROJECT III (Benthic Community Ecology)

Benthic community ecology studies were conducted at HMI by the University of Maryland's Chesapeake Biological Laboratory (CBL) in Solomons, Maryland. The studies assessed occurrence, abundance and diversity of benthic macroinvertebrates at HMI. This report contains a methodological summary as well as species lists and other raw data. Indices of benthic community health, along with discussion, interpretation and analysis of these data are presented in the Technical Report.

PROJECT IV (Analytical Services)

The Analytical Services components of the HMI Year 13 Exterior Monitoring Program were performed by Artesian Laboratories, Inc., of Newark, Delaware, and interpreted at CBL. This project included an assessment of benthic tissue contaminants and sediment organic contaminants. Included in this Data Report are the raw data in tabular format. Analysis, interpretation and discussion of these data may be found in the accompanying Technical Report.

The Continuing State Assessment of the Environmental Impacts of Construction and Operation of the Hart-Miller Island Contained Disposal Facility

Project II

SEDIMENTARY ENVIRONMENT
THIRTEENTH YEAR DATA REPORT
(November 1993 – October 1995)

Part 1: Sedimentary Environment
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Submitted to
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Tawes State Office Building
Annapolis, MD 21401
June 1995

Compiled by
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July 1998

PART 1: SEDIMENTARY ENVIRONMENT

INTRODUCTION

This report partially fulfills the requirements of a contract with the State of Maryland to assess the environmental impacts of construction and operation of the Hart-Miller Island Dredged Material Containment Facility (HMI). The reported data were collected under the Sedimentary Environment Project (Project II) of that contract. One of the primary objectives of the project was to identify the sedimentological and geochemical conditions of the near-surface sediment column in the vicinity of the containment facility.

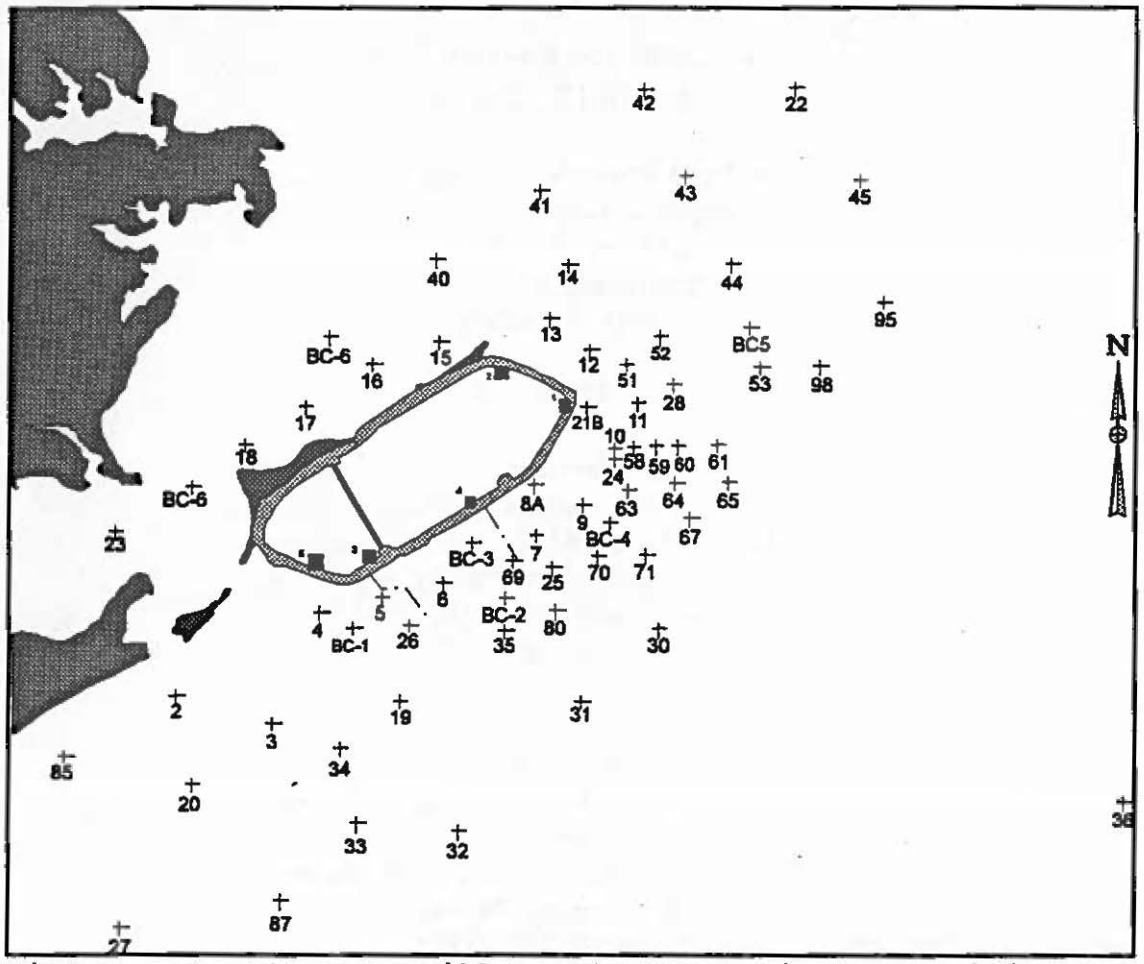


Figure 1-1: The Hart-Miller Island Containment Facility and vicinity with locations of the surficial sediment and core stations sampled during the thirteenth year of exterior monitoring.

METHODOLOGY

FIELD METHODS

The information presented in this report is based on observations and analyses of samples collected on two cruises aboard the R/V Discovery during the thirteenth year of monitoring. Sampling sites (Fig. 1-1) were located in the field by means of the LORAN-C navigational system. For the past eleven years, the same LORAN X and Y time delays (TD's) have been used to locate the stations that were established during the initial phase of this project. The repeatability of LORAN-C navigation, that is, the ability to return to a location at which a navigation fix has previously been obtained, is affected primarily by seasonal and weather-related changes along the signal transmission path. Data recorded in 1982 from the U.S. Coast Guard Harbor Monitor at Yorktown, Virginia provide an approximate range of repeatable error. That year, variations in the X-lines amounted to 0.256 units and, in the Y-lines, 0.521 units. In the central Chesapeake Bay, one X-TD unit equals approximately 285 m (312 yd) and one Y-TD unit, 156 m (171 yd). Therefore, when a vessel reoccupies an established station in the Bay region, it should be within about 100 m (109 yd) of its original location (Halka, 1987). LORAN-C TD's were converted to 'corrected' latitudes and longitudes (NAD 1927) using a computer program that incorporates the results of a LORAN-C calibration in Chesapeake Bay (Halka, 1987). The LORAN-C TD's, latitude, and longitude for each station are listed in Table 1-1, along with the corresponding Resource Monitoring Database (RESMON) identifier. The algorithm used to calculate the RESMON identifiers changed between the eleventh and twelfth monitoring years, to correct small errors and inconsistencies. Table 1-1 lists both the old and new RESMON identifiers.

Surficial sediment samples were collected in November 1993 (Cruise 30) and April 1994 (Cruise 31). During the ninth year of monitoring, the number of sampling stations was increased in response to the detection of abnormally high Zn levels in sediments near spillway #1 (Hennessee and Hill, 1992). Sampling sites were added to determine the extent of the area of Zn enrichment and to coincide with benthic sampling stations. The expanded sampling scheme (60-66 locations/cruise) was retained throughout the eleventh monitoring year.

During the twelfth year, the number of stations occupied during each cruise was reduced to 47, based, in part, on output from the 3-D hydrodynamic model of the upper Chesapeake Bay. The 24 stations that had been monitored continuously since dike completion were retained, as were the stations that corresponded to benthic sampling sites. Selection of the remaining stations was based on discharge activity during the months preceding each cruise, coupled with the results of the 3-D model. All of the sites chosen on the basis of the 3-D model had been occupied previously. The same locations sampled during the twelfth

monitoring year were revisited during the thirteenth

Undisturbed samples of the upper 8-10 cm of the sediments were obtained with a dip-galvanized Petersen sampler. At least one grab sample was collected at each station and split for textural and trace metal analyses. Triplicate grab samples were collected at seven stations (11, 16, 24, 25, 28, BC3, and BC6). During the April cruise, additional grab samples were taken for organic contaminant analysis at eight stations (23, 24, 25, 28, 30, 34, BC3, and BC6). Upon collection, each sediment sample was described lithologically (Tables 1-2 and 1-3) and subsampled.

Sediment and trace metal subsamples were collected using plastic scoops rinsed with distilled water. These samples were taken several centimeters from the top, below the flocculent layer, and away from the sides of the sampler to avoid possible contamination by the grab sampler. They were placed in 18-oz "Whirl-Pak" bags. Samples designated for textural analysis were stored out of direct sunlight at ambient temperatures. Those intended for trace metal analysis were refrigerated and maintained at 4°C until processing.

Subsamples for organic analysis were collected with an aluminum scoop (also rinsed with distilled water), placed in pre-treated glass jars, and immediately refrigerated. They were delivered to the Maryland Environmental Service (MES) office at the containment facility, then transferred to a private laboratory for analysis.

In April 1994, gravity cores were collected at the seven box core (BC) stations and at stations 12 and 25 (Fig. 1-1). A Benthos gravity corer (Model #2171) fitted with clean cellulose acetate butyrate (CAB) liners, 6.7 cm in diameter, was used. Each core was cut and capped at the sediment-water interface, then refrigerated until it could be x-rayed and processed in the lab.

LABORATORY PROCEDURES

Radiographic Technique

Prior to processing, the upper 50 cm of each core were x-rayed at the Maryland Geological Survey, using a TORR-MED x-ray unit (x-ray settings: 90 kv, 5 mas, 30 sec). A negative x-ray image of the core was obtained by xeroradiographic processing. On a negative xeroradiograph, denser objects or materials, such as shells or sand, produce lighter images. Objects of lesser density permit easier penetration of x-rays and, therefore, appear as darker features. The xeroradiographs are reproduced in Appendix A of this report.

Each core was then extruded, split with an electro-osmotic knife, photographed, and described. Visual and radiographic observations of the cores are also presented in Appendix A. On the basis of these observations, sediment samples for textural

and trace metal analyses were taken at selected intervals from each core.

Textural Analysis

In the laboratory, subsamples from both the surficial grabs and gravity cores were analyzed for water content and grain size composition (sand-silt-clay content). Values of these four measured physical characteristics - WATER CONTENT, SAND, SILT, and CLAY - are reported in the SEDIMENT CHARACTERIZATION DATA table. In that table, GRAB samples are distinguished from CORE samples in the first column labelled "METHOD". For cores, the columns "FROM CORE RANGE CM." and "TO CORE RANGE CM." indicate the sampled interval within the core, measured in centimeters from the sediment-water interface.

Water content was calculated as the percentage of the water weight to the total weight of the wet sediment:

$$Wc = \frac{Ww}{Wt} \times 100$$

where Wc = water content (%)
Ww = weight of water (g)
Wt = weight of wet sediment (g).

Water weight was determined by weighing approximately 25 g of the wet sample, drying the sediment at 65°C, and reweighing it. The difference between total wet weight (Wt) and dry weight equals water weight (Ww). Bulk density was also determined from water content measurements.

The relative proportions of sand, silt, and clay were determined using the sedimentological procedures described in Kerhin *et al.* (1988). The sediment samples were pre-treated with hydrochloric acid and hydrogen peroxide to remove carbonate and organic matter, respectively. Then the samples were wet sieved through a 62-μm mesh to separate the sand from the mud (silt plus clay) fraction (see Table 1-4 for the definitions of sand, silt, and clay). The finer fraction was analyzed using the pipette method to determine the silt and clay components (Blatt *et al.*, 1980). Each fraction was weighed; percent sand, silt, and clay were determined; and the sediments were categorized according to Pejrup's (1988) classification (Fig. 1-2).

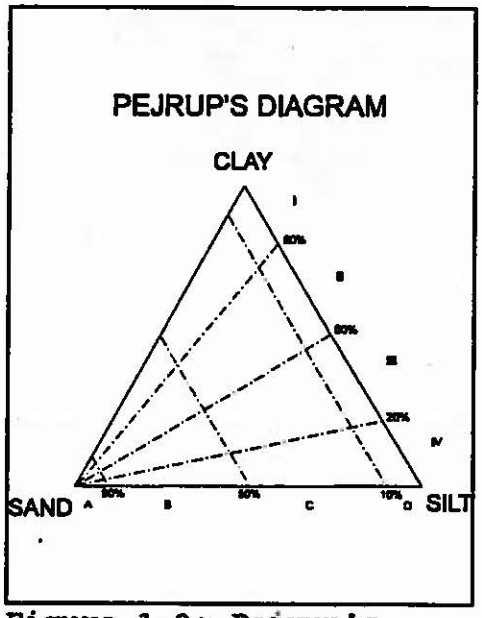


Figure 1-2: Pejrup's (1988) classification of sediment type.

Trace Metal Analysis

Sediment solids were analyzed for six trace metals - iron (Fe), manganese (Mn), zinc (Zn), copper (Cu), chromium (Cr), and nickel (Ni). These metals are particularly useful in interpreting geochemical trends (see Sinex and Helz, 1981; Kerhin *et al.*, 1982). Trace metal concentrations were determined using a microwave digestion technique, followed by analysis of the digestate on an Inductively Coupled Argon Plasma unit (ICAP).

Microwave digestion of the samples has several advantages over other digestion methods:

1. The system is sealed, so no volatile elements are lost.

2. Compared to strong acid reflux methods, microwave digestion is rapid (on the order of minutes as opposed to hours).

3. Samples must be weighed accurately, but not to precisely defined target weights, as in fusion methods.

4. Only acids are used. No flux is required, as in fusion, so additional sources of contamination are minimized. Also, in using an ICAP, as opposed to an atomic absorption spectrophotometer (AA), matrix modifiers are not required, further reducing sources of error.

5. Recovery of the metals of interest is as good as or better than other digestion methods.

The steps in microwave digestion, modified from EPA Method #3051 (Soil Sample Digestion Procedure for Floyd Digestion Vessels), are outlined below:

1. Samples were homogenized in the "Whirl-Pak" bags in which they were stored and refrigerated (4°C).

2. Approximately 10 g of wet sample were transferred to Teflon evaporating dishes and dried overnight at 105-110°C.

3. Dried samples were then hand-ground with an agate mortar and pestle, powdered in a ball mill, and stored in "Whirl-Pak" bags.

4. 0.5000±0.0005 g of dried, ground sample was weighed and transferred to a Teflon digestion vessel.

5. 2.5 ml concentrated HNO_3 (trace metal grade), 7.5 ml concentrated HCl (trace metal grade), and 1 ml ultra-pure water were added to the Teflon vessel.

6. The vessel was capped with a Teflon seal, and the cap was hand tightened. Between four and twelve vessels were placed in the microwave carousel. (Preparation blanks were made by using 0.5 ml of high purity water plus the acids used in Step 5.)

7. Samples were irradiated using programmed steps appropriate for the number of samples in the carousel. These steps have been optimized based on pressure and percent power. The samples were brought to a temperature of 175°C in 5.5 minutes, then maintained between 175-180°C for 9.5 minutes. (The pressure during this time peaks at approximately 6 atm for most samples.)

8. Vessels were cooled to room temperature and uncapped. The contents were transferred to a 100 ml volumetric flask, and high purity water was added to bring the volume to 100 ml. The dissolved samples were transferred to polyethylene bottles and stored for analysis.

9. The samples were analyzed.

Samples were analyzed using a Thermo Jarrel-Ash Atom-Scan 25 sequential ICAP. The wavelengths and conditions selected for the elements of interest were determined using digested bottom sediments from the vicinity of Hart-Miller Island and standard reference materials from the National Institute of Standards and Technology (#1646 - Estuarine Sediment; #2704 - Buffalo River Sediment) and the National Research Council of Canada (PACS-1 - Marine Sediment).

The wavelengths and conditions were optimized for the expected metal levels and the sample matrix. Quality control was maintained by routinely including blanks, replicates and standard reference materials in the analysis. Blanks were run every 20 samples; one sample in every ten was replicated; and a standard reference material was analyzed after every ten samples.

Trace metal concentrations of surficial samples and core subsamples are reported in the SEDIMENT CHEMISTRY DATA table. In the table, the names of the variables measured using the methods described above are: TOTAL CHROMIUM (Method 181), TOTAL NICKEL (Method 185), TOTAL IRON (Method 183), TOTAL MANGANESE (Method 184), TOTAL ZINC (Method 186), and TOTAL COPPER (Method 182). Again, GRAB samples are distinguished from CORE samples in the first column labelled "METHOD". For cores, the columns "FROM CORE RANGE CM." and "TO CORE RANGE CM." indicate the sampled interval within the core, measured in centimeters from the sediment-water interface.

PART 2: BEACH EROSION STUDY

INTRODUCTION

Since the spring of 1983, the Maryland Geological Survey has been assessing the erosional problems affecting the recreational beach between Hart and Miller Islands. This year, the primary objectives of the study were to determine net sediment loss from the beach and to identify areas in which sediment was eroding or accreting.

METHODOLOGY

Ten profile lines were surveyed along the recreational beach to assess the changes occurring from the center line of the dike roadway to approximately 30 ft offshore (Fig. 2-1). The ten lines were surveyed twice during the study year: June 1993 and July 1994.

Profile elevations were transferred directly from Maryland Port Administration (MPA) bench mark number 281614 (elevation = 14.57 ft MLW), located approximately 22 ft east of the center line of the dike roadway at station 30+00, and from bench marks established along the chain link fence by the Great Lakes Dredging Company (Fig. 2-1).

Initially, the location of each profile station along the center line of the dike roadway was established as described in Hennessee *et al.* (1990). During subsequent surveys, the center line of the dike roadway was located by measuring 13 ft east of the chain link fence with a fiberglass tape. An automatic level was set up along the center line of the dike roadway. The level was then aligned with the orange marks painted on the fence from earlier surveys. Alignment of the level with the orange marks ensured repeatability in measuring the same azimuth down the profile as earlier surveys.

Through May 1989, profiles were measured from the center line of the dike roadway downslope in 50 ft increments and at obvious changes in elevation. The water line and elevations below mean low water were also recorded. By September 1989, the area between the chain link fence and the snow fence was stabilized with two berms, drainage ditches, and vegetation. The area between the chain link fence and the snow fence was eliminated from subsequent profiling sessions. Elevations were transferred from the center line of the roadway to wooden stakes placed several feet bayward of the snow fence. The transfer of elevations was necessary to reduce or eliminate elevation recording errors introduced by the stadia rod's bending in the wind.

Distance and elevation data from the two surveys conducted during the monitoring year are tabulated in Tables 2-1 and 2-2.

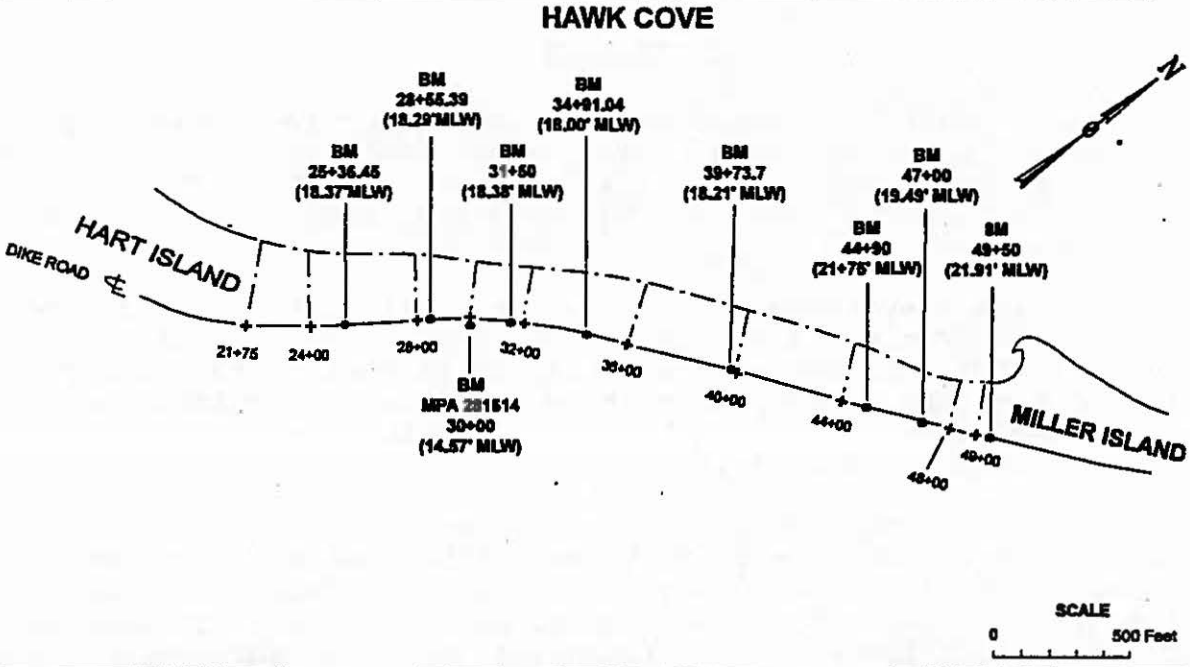
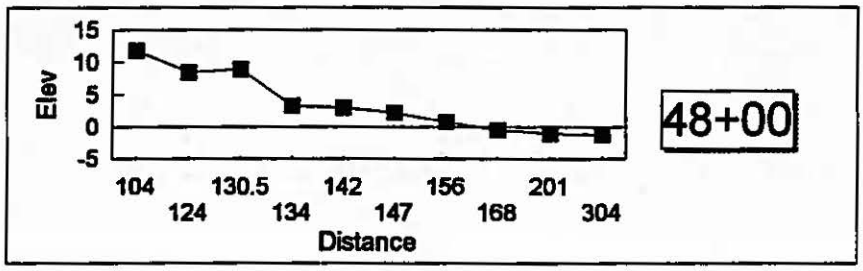


Figure 2-1: Locations of bench marks and profile lines along the recreational beach between Hart and Miller Islands.

Sediment Physical Characteristics

BM 48+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	104	11.8
HI-2	124	8.47
2	130.5	9
3	134	3.29
4	142	2.98
5	147	2.21
6	156	0.81
7	168	-0.45
8	201	-0.99
9	304	-1.22



BM 49+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	128	8.69
HI-2	139	7.6
	143.5	6.73
3	149	3.02
4	158	2.14
5	169	0.73
6	181	-0.14
7	211	-0.87
8	307	-1.13
9	424	-1.62

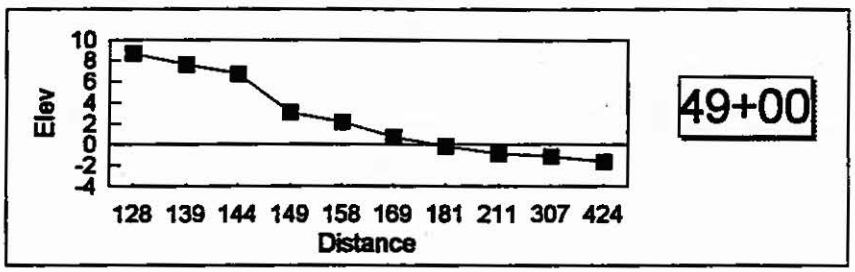


Table 1 - 1: Designations and locations of stations sampled during the thirteenth monitoring year.

MGS	RESMON #		Loran - C Time Delays		Latitude			Longitude		
Id. #	Old	New	X	Y	(deg,	min,	sec)	(deg,	min,	sec)
2	XIF3638	EIF3563	27640.8	42888.1	39	13	32.2	76	23	43.8
3	XIF3430	EIF3470	27636.5	42886.5	39	13	21.7	76	22	58.1
4	XIF4126	EIF4174	27637.3	42895.6	39	14	5.4	76	22	35.5
5	XIF4221	EIF4279	27635.4	42897	39	14	10.8	76	22	7.9
6	XIF4317	EIF4384	27633.4	42898.5	39	14	16.6	76	21	38.9
7	XIF4609	EIF4691	27631	42902.6	39	14	34.5	76	20	56
8A	XIF5009	EIF4990	27632.3	42906.5	39	14	53.8	76	20	57.7
9	XIF4806	EIF4894	27629.9	42905.2	39	14	46.1	76	20	33.9
10	XIF5203	EIF5197	27630	42909.7	39	15	7.6	76	20	19.3
11	XIF5501	EIF5499	27630.2	42913.4	39	15	25.3	76	20	8.7
12	XIF5805	EIF5895	27633.3	42917.4	39	15	46.3	76	20	31.2
13	XIF6008	EIF6092	27635.5	42919.7	39	15	58.6	76	20	49.1
14	XIF6407	EIF6393	27636.1	42924	39	16	19.5	76	20	41
15	XIF5917	EIF5883	27639.2	42917.2	39	15	49.1	76	21	41.7
16	XIF5722	EIF5778	27641.1	42914.9	39	15	39.5	76	22	12.4
17	XIF5427	EIF5473	27642.6	42911.4	39	15	23.8	76	22	42.7
18	XIF5232	EIF5268	27643.9	42908	39	15	8.6	76	23	10.2
19	XIF3620	EIF3580	27632.3	42889	39	13	30.8	76	21	59.3
20	XIF3064	EIF3064	27638.1	42881.4	39	12	58.6	76	23	35.1
21B	XIF5505	EIF5495	27632.1	42912.9	39	15	24.1	76	20	32.9
22	XIG7589	EIG7511	27631.7	42939.2	39	17	29	76	18	55.7
23	XIF4642	EIF4658	27646.8	42900.5	39	14	35	76	24	11.5
24	XIF5302	EIF5197	27629.8	42909	39	15	4.1	76	20	19.3
25**	XIF4405	EIF4492	27629.7	42900.4	39	14	23.2	76	20	48.3
26	XIF4016	EIF4081	27633.6	42895	39	14	0.1	76	21	53.6
27	XIF2038	EIF2159	27637.4	42869.7	39	12	2.7	76	24	8.1
28**	XIG5699	EIG5601	27629.4	42915.1	39	15	33	76	19	53
30**	XIF4000	EIG4000	27624.3	42896.1	39	13	59.2	76	19	59.5
31	XIG3506	EIF3594	27625.5	42890	39	13	31	76	20	35
32	XIF2715	EIF2785	27627	42879	39	12	39.8	76	21	31.3
34**	XIF3224	EIF3276	27633.4	42884.9	39	13	12	76	22	26.8
40	XIF6417	ECF6483	27641.2	42923.6	39	16	21	76	21	43
41	XIG6809	EIF6891	27639	42929.6	39	16	48	76	20	55
43	XIG6998	EIG6902	27633.8	42931.6	39	16	54	76	19	47
44	XIG6394	EIG6306	27630	42924.9	39	16	20	76	19	26
51	XIG5702	EIF5798	27631.5	42916.3	39	15	40	76	20	14
61	XIG5295	EIG5205	27626.2	42910.5	39	15	9	76	19	32
64	XIG4999	EIG4902	27627	42907.5	39	14	55	76	19	51
71	XIG4501	EIF4599	27626.4	42901.7	39	14	27	76	20	5
87	XIF2229	EIF2271	27632.1	42872.6	39	12	13	76	22	54
BC-1	XIF4024	EIF4077	27635.7	42894.5	39	13	59.1	76	22	20.3
BC-2	XIF4285	EIF4288	27630.7	42897.6	39	14	10.5	76	21	10
BC-3	XIF4615	EIF4686	27633.3	42901.9	39	14	32.6	76	21	25.8
BC-4	XIF4703	EIF4796	27628.5	42904	39	14	39.5	76	20	21.5
BC-5	XIF6388	EIG5907	27627.8	42920.1	39	15	55.6	76	19	16.9
BC-6	XIF5925	EIF5975	27643.4	42917.1	39	15	51.4	76	22	32
BC-7	XIF4964	EIF4964	27645	42904.6	39	14	53.2	76	23	35.4

* Latitude and longitude (NAD 1927) were derived from LORAN-C TDs using a computer program that incorporates the results of a LORAN-C calibration in Chesapeake Bay (Halka, 1987).

** Coincides with a benthic station

Table 1-2: Field descriptions - surficial sediment samples collected on November 29, 1993 (Cruise 30)
[Note: Munsell colors and numerical designations from Rock-Color Chart (Rock-Color Chart Committee, 1984)]

Station number	Water depth (ft.)	Description
2	5.5	No floc layer; clean, very well sorted, brownish gray (5 YR 4/1) fine sand; a few disarticulated *Rangia cuneata*, 2-3 cm long; no odor.
3	13	Thick (3-4 cm) floc layer consisting of very fluffy, soft, gritty, dark yellowish brown (10 YR 4/2) mud, grading into firmer dark gray (N3) mud; overlies homogeneous, grayish black (N2) sandy mud; some articulated *Macoma* and an oyster shell fragment; shell fragments throughout.
4	10	Thick (3-4 cm) floc layer consisting of smooth, fluffy, dark yellowish brown (10 YR 4/2) mud, grading into olive gray (5 Y 4/1); no shells in floc layer; overlies cottage cheesy, grayish black (N2) mud; a few isolated *Rangia*; many burrows, filled with dark yellowish brown (10 YR 4/2) or olive gray (5 Y 4/1) sediment; no odor.
5	13	Floc layer, 1-2 cm thick, consisting of soft, soupy, dark yellowish brown (10 YR 4/2) mud; overlies creamy, slippery, cohesive, medium dark to dark gray (N3.5) mud, lumpy at the top and smooth at the bottom; a few disarticulated *Macoma*; no odor.
6	13	Floc layer, 2-3 cm thick, consisting of soft, smooth, dark yellowish brown (10 YR 4/2) mud, grading into olive gray to olive black (5 Y 3/1); overlies lumpy, dark gray (N3) mud; many articulated and disarticulated *Rangia*, up to 2.5 cm long, at top of dark gray layer; disarticulated *Macoma* at depth; some oxidized burrows; plant matter; no odor.
7	14	Thin (<1 cm) floc layer consisting of smooth, soupy, dark yellowish brown (10 YR 4/2) mud; small, live crab; many *Rangia*, mostly disarticulated, in floc layer; overlies soft, smooth, grayish black (N2) mud; shell fragments at depth; no odor.

Station number	Water depth (ft.)	Description
8A	12	Thin (<1 cm) floc layer consisting of soupy, dark yellowish brown (10 YR 4/2) sediment; overlies mottled olive gray (5 Y 4/1), dark yellowish brown (10 YR 4/2), and dark gray to grayish black (N2.5) muddy sand, variable in texture as well as color (browner sediment sandier; darker sediment muddier); shell fragments.
9	16	Thin (<1 cm) floc layer consisting of gritty, dark yellowish brown (10 YR 4/2) mud; some disarticulated *Rangia*, 2 cm long, in floc layer; overlies soft, slightly lumpy, dark gray (N3) mud; some disarticulated *Macoma*; no odor.
10	13	Thin (1 cm) floc layer consisting of dark yellowish brown (10 YR 4/2) muddy medium sand; overlies olive gray (5 Y 4/1) muddy medium to coarse sand; some articulated and disarticulated *Rangia*, all about 3 cm long.
11	12	No floc layer; clean, dark yellowish brown (10 YR 4/2) medium sand; a few *Rangia*; no odor.
12	7	Thin (<1 cm) floc layer consisting of soft, soupy, fine sandy mud; many disarticulated adult *Rangia* in floc layer; overlies dark gray (N3) fine sandy mud; plant matter; no odor.
13	6	No floc layer; clean, well-sorted, dark yellowish brown (10 YR 4/2) medium sand; some articulated adult *Rangia*; Captain Jerry Cox thinks water getting shallower here and at station 12.
14	10	Thick (4-5 cm) floc layer consisting of soft, fluffy, dark yellowish brown (10 YR 4/2) mud, grading to olive gray (5 Y 4/1); no shells in floc layer; overlies somewhat sticky, dark gray (N3) mud; some adult *Rangia* between olive gray and dark gray layers; entire grab fairly soft, slight difference in texture between olive gray and dark gray layers.
15	8	Floc layer, 2-3 cm thick, consisting of soft, smooth, fluffy, dark yellowish brown (10 YR 4/2) mud, grading into olive gray (5 Y 4/1); dark yellowish brown layer thin; many adult *Rangia* in floc layer, mostly disarticulated; overlies soft, smooth (no grit), lumpy, dark gray (N3) mud, uniform in color and texture; stiffer than floc layer; a few articulated *Macoma*.

Station number	Water depth (ft.)	Description
16	8	Dark yellowish brown (10 YR 4/2) floc layer, grading to olive gray (5 Y 4/1) and consisting of soft, gritty fine sandy mud; dark yellowish brown layer <1 cm thick; many articulated and disarticulated *Rangia* near top of grab, in olive gray layer; floc overlies soft, dark gray (N3) sandy mud, variably sandier and muddier; few shells at depth; live worm.
17	7	Dark yellowish brown (10 YR 4/2) floc layer, grading to 3 cm of olive gray (5 Y 4/1) and consisting of smooth, fluffy mud; some articulated *Rangia* in olive gray layer; overlies soft, smooth, dark gray (N3) mud, uniform in color and texture; occasional shell fragments at depth; many burrows.
18	7	Dark yellowish brown (10 YR 4/2) floc layer, grading to 3 cm of olive gray (5 Y 4/1) and consisting of soft, fluffy mud; *Rangia*, mostly articulated adults, some disarticulated, in olive gray layer; overlies smooth, dark gray (N3) mud, stiffer than floc layer; plant matter; entire grab fairly soft throughout.
19	14	Floc layer, 3 cm thick, consisting of soft, smooth, fluffy, dark yellowish brown (10 YR 4/2) mud, grading to olive gray (5 Y 4/1); many articulated and disarticulated *Rangia*, 2.5-5 cm long, in olive gray layer at top of grab; overlies sticky, cohesive dark gray to grayish black (N2.5) mud, mottled with dark yellowish brown (10 YR 4/2); some disarticulated *Macoma* at depth; lots of shells in this layer; no odor.
20	12	Dark yellowish brown (10 YR 4/2) floc layer consisting of 1-2 cm of soft, smooth, fluffy mud; a few articulated *Rangia* just below floc; overlies dark gray to grayish black (N2.5) mud, neither soft nor firm, uniform in color and texture; single, live, segmented organism at depth; plant matter - roots; no odor.
21B	10	No floc layer; clean, dark yellowish brown (10 YR 4/2) medium to fine sand; occasional disarticulated *Rangia*; no odor.
22	8	Floc layer consisting of 1-2 cm of sandy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); many articulated adult *Rangia*, 2.5-5 cm long; overlies soft, olive gray (5 Y 4/1) to dark gray (N3), medium to fine sandy mud; plant matter; small (<1 mm) shell fragments.

Station number	Water depth (ft.)	Description
23	8	Floc layer consisting of soft, smooth, fluffy, slightly gritty mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); overlies soft, lumpy mud, variable firmer and softer, mottled olive gray (5 Y 4/1), dark yellowish brown (10 YR 4/2), and dark gray (N3), mottling associated with burrows; a few disarticulated *Macoma*; plant matter.
24	17	Thin (<1 cm) floc layer consisting of dark yellowish brown (10 YR 4/2) medium sandy mud; many disarticulated *Rangia*, 2.5 cm long, at top of grab; floc overlies dark gray (N3) medium sandy mud; many shell fragments (<1 mm) throughout; many worms; crab; single disarticulated oyster shell.
25	14	Thin (<1 cm), shelly floc layer consisting of very soupy, dark yellowish brown (10 YR 4/2) mud; some/many disarticulated *Rangia* at top of grab; overlies smooth (no grit), sticky, lumpy, dark gray to grayish black (N2.5) mud, uniform in color; a few *Macoma* at depth; many burrows.
26	13	Floc layer, 2-3 cm thick, consisting of soft, smooth, soupy, dark yellowish brown (10 YR 4/2) mud; no shells in floc layer; overlies soft, dark gray (N3) mud; many disarticulated *Rangia* at top of the dark gray layer and distributed throughout it; shell fragments; no odor.
27		Shelly floc layer, 1-2 cm thick, consisting of slightly gritty sediment; many articulated and disarticulated *Rangia*, up to 2.5 cm long, at bottom of floc layer; overlies stiff, cohesive grayish black (N2) and olive gray (5 Y 4/1) mud; disarticulated *Macoma*; no odor.
28	17	Thin (<1 cm), shelly, dark yellowish brown (10 YR 4/2) floc layer; many *Rangia*, mostly disarticulated, varying in size, at top of grab; overlies fine sandy mud, mottled olive gray (5 Y 4/1), dark gray (N3), and dark yellowish brown (10 YR 4/2), muddier with depth; oyster shell fragment; crab; worm.
30	14	Floc layer, 3-4 cm thick, consisting of smooth (no lumps), slightly gritty, dark yellowish brown (10 YR 4/2) mud, grading to olive gray (5 Y 4/1); overlies soft, dark gray (N3) mud, lumpy near the top, slightly firmer than floc layer; some *Rangia* at top of layer; few shells at depth; many burrows, some oxidized; no odor.

Station number	Water depth (ft.)	Description
31	14	Floc layer, 1-2 cm thick, consisting of soft, soupy, smooth, fluffy, dark yellowish brown (10 YR 4/2) mud, grading to olive gray (5 Y 4/1); many articulated and disarticulated *Rangia*, 2.5 cm long, and oyster shell fragment in olive gray layer; overlies stiff, shelly, dark gray (N3) layer - shells in a mud matrix; no odor.
32	14	Floc layer consisting of 1-2 cm of smooth (no lumps), fluffy, slightly gritty, dark yellowish brown (10 YR 4/2) mud; overlies smooth, olive green (?) mud, not as soft as floc; live, gray, segmented organism with legs and divided tail segment in olive green layer; overlies smooth, stiff, grayish black (N2) mud; some disarticulated *Rangia* and some articulated *Macoma* in grayish black layer; no odor.
34	16	Floc layer, 4 cm thick, consisting of soft, thick, dark yellowish brown (10 YR 4/2) mud; overlies olive gray (5 Y 4/1) mud, stiffer than floc; two live *Leptocheirus plumulosus* (?) in olive gray layer; overlies smooth, grayish black (N2) mud, stiffer than olive gray layer; few shells other than some disarticulated, adult *Macoma* and single, disarticulated, adult *Rangia*; some burrows.
40	9	Surface layer of soft, soupy, fluffy mud, at least 5 cm thick, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); a few *Rangia* in olive gray layer; overlies soft, smooth, dark gray (N3) mud, texture of olive gray and dark gray layers identical; shell fragments; burrows.
41	10	Surface layer, 4-5 cm thick, of very soft, smooth, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); no shells in floc layer; overlies soft, smooth (no grit), lumpy, dark gray (N3) mud, uniform in color and texture; some burrows; entire grab is soft, with a slight difference in texture between the olive gray and dark gray layers; similar to station 14.
43	10	Surface layer of soft, smooth, fluffy mud, 3-4 cm thick, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); no shells in surface layer; overlies soft, smooth (no grit), lumpy, grayish black (N2) mud; some articulated and disarticulated adult *Rangia*, mostly at top of grayish black layer; some burrows.

Station number	Water depth (ft.)	Description
44	13	Surface layer consisting of soft, smooth mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); many adult *Rangia* in surface layer, 2.5 cm long, mostly articulated; overlies soft, dark gray to grayish black (N2.5) mud, very lumpy at bottom; many burrows; worms.
51	13	Surface layer, 2 cm thick, consisting of soft, soupy fine sandy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); many articulated and disarticulated adult *Rangia* in surface layer; overlies dark gray (N3) fine sandy mud, firmer than surface layer; minute shell fragments; worms.
61	17	Thin (<1 cm), shelly floc layer consisting of soft, smooth, dark yellowish brown (10 YR 4/2) mud; many disarticulated *Rangia* in floc layer; overlies very soft, smooth, greenish black to dark greenish gray (5 GY 3/1) mud, uniform in color and texture; very few shells at depth.
64	19	Thin (<1 cm), shelly floc layer consisting of smooth, dark yellowish brown (10 YR 4/2) mud; many *Rangia* in floc layer, mostly disarticulated; overlies smooth (no grit), slightly lumpy, dark gray (N3) mud, uniform in color and texture; few shells at depth; some burrows; no odor.
71	16	Thin (<1 cm), shelly floc layer consisting of soft, smooth, dark yellowish brown (10 YR 4/2) mud; many *Rangia*, mostly disarticulated, at top of grab; overlies soft, dark gray to grayish black (N2.5) mud; a single *Rangia* at depth; few other shells; live worm; no odor.
87	15	Floc layer, 1-2 cm thick, consisting of soft, dark yellowish brown (10 YR 4/2) mud; overlies soft, dark gray (N3) mud, uniform in color, sticky near bottom of grab; some disarticulated *Rangia* and many oyster shells at top of dark gray layer; some *Macoma* at depth; description of second grab, first grab oyster shell bed.
BC1	13	Floc layer, 3-4 cm thick, consisting of smooth (no grit or shells), lumpy, tapioca-like, dark yellowish brown (10 YR 4/2) mud, mottled with gray; overlies very stiff, very cohesive, very smooth, creamy, medium dark gray (N4) mud with pink streaks; few shells; live worm; wood fragments; fluid mud layer.

Station number	Water depth (ft.)	Description
BC2	14	Thin (<1 cm), very shelly floc layer consisting of soupy, smooth, dark yellowish brown (10 YR 4/2) mud; *Rangia*, mostly disarticulated, varying in size, at top of grab; overlies dark gray to grayish black (N2.5) mud, variably softer and firmer, lumpy near top; live worm; some oxidized burrows; smells like hydrogen sulfide.
BC3	13	Thin (<1 cm) floc layer consisting of soft, smooth, soupy, dark yellowish brown (10 YR 4/2) mud; many disarticulated *Rangia* at top of grab; overlies creamy, medium dark gray (N4) "fluid mud" with pink streaks, lumpier at the top and smoother at depth; worms.
BC4	16	Thin (<1 cm), shelly floc layer consisting of soupy, dark yellowish brown (10 YR 4/2) mud; many disarticulated *Rangia* at top of grab; overlies soft, cohesive, slightly lumpy, gritty, dark gray (N3) mud; a few *Macoma* at depth; worms.
BC5	13	Surface layer, 3-4 cm thick, consisting of soft, smooth, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); a few articulated *Rangia*, 2.5-4 cm long, in surface layer; overlies very soft, mushy, dark gray (N3) mud; live worm; entire grab mushy.
BC6	8	Surface layer consisting of a smooth mud, grading from a thin layer of dark yellowish brown (10 YR 4/2) to 3 cm of olive gray (5 Y 4/1); no shells in surface layer; overlies soft, lumpy mud, mottled dark gray (N3) and olive gray (5 Y 4/1); many articulated adult *Rangia* just below surface layer; worms; many burrows; plant matter.

Table 1-3: Field descriptions - surficial sediment samples collected on April 21, 1994 (Cruise 31)
[Note: Munsell colors and numerical designations from Rock-Color Chart (Rock-Color Chart Committee, 1984)]

Station number	Water depth (ft.)	Description
2	6.5	No floc layer; clean, well-sorted, dark yellowish brown (10 YR 4/2) fine sand (no mud), lighter in color with depth; one *Rangia cuneata*, 2 cm long; no odor.
3	14.5	Floc layer, 2-3 cm thick, consisting of soft, soupy, gritty, fine sandy mud, grading from dark yellowish brown (10 YR 4/2) to greenish gray (5 GY 6/1); overlies grayish black to black (N1.5) very fine to fine sandy mud, mottled with dark yellowish brown (10 YR 4/2) and grayish brown (5 YR 3/2), mottling associated with burrows; a few disarticulated adult *Rangia*; some shell fragments; some worms; plant matter.
4	12	Floc layer consisting of 2-3 cm of soft, fluffy mud, grading from dark yellowish brown (10 YR 4/2) at the top to dark greenish gray (5 GY 4/1); no shells in floc layer; overlies soft, smooth grayish black (N2) mud, with dark yellowish brown (10 YR 4/2) mottling in burrows; a few articulated and disarticulated *Rangia*; no odor.
5	15.5	Very shelly, thin (<1 cm) floc layer, consisting of dark yellowish brown (10 YR 4/2) mud; difficult to describe texture because of the many shells - disarticulated *Rangia*, 0.5-4 cm long; overlies very slick, smooth, grayish black (N2) mud, with dark yellowish brown (10 YR 4/2) mottling in burrows; neither soft nor firm; uniform texture; some worms; some oxidized burrows; rock - 5 x 4 cm; some plant matter.
6	15	Very shelly, thin (<1 cm) floc layer consisting of watery, dark yellowish brown (10 YR 4/2) mud; difficult to describe texture because of the many shells - disarticulated adult *Rangia* with barnacles; live *Leptocheirus plumulosus*, 1 cm long; plant matter; overlies smooth, slick, dark gray (N3) mud, mottled olive gray (5 Y 4/1); disarticulated *Rangia*; a few *Macoma*; very few oxidized burrows.

Station number	Water depth (ft.)	Description
7	17	Thin (1 cm) floc layer consisting of smooth, rather watery, dark yellowish brown (10 YR 4/2) mud; overlies soft, smooth, grayish black (N2) mud, uniform in color; a few/some juvenile *Rangia*; a few *Macoma*; many live worms; a few/some burrows; plant matter; smells like decomposing organisms.
8A	12.5	Floc layer, 1-2 cm thick, consisting of gritty, dark yellowish brown (10 YR 4/2) fine sandy mud; a few/some recently dead, articulated *Rangia* in floc layer; overlies cohesive, olive gray (5 Y 4/1), very fine to fine sandy mud, mottled with black (N1) around decomposing *Rangia*, variably muddier and sandier, though stiffer and muddier with depth; some/many *Rangia*; smells like decomposing organisms.
9	18.5	Very shelly, thin (1 cm) floc layer consisting of gritty, dark yellowish brown (10 YR 4/2) fine to medium sandy mud; a few/some articulated and disarticulated *Rangia*, some live and some recently dead; overlies smooth (not gritty), dark gray to grayish black (N2.5) mud, uniform in color except for olive gray (5 Y 4/1) mottling in burrows, neither soft nor firm; a few disarticulated *Macoma*; live worm; smells like decomposing organisms.
10	16	Thin (1 cm) floc layer consisting of dark yellowish brown (10 YR 4/2) muddy fine sand; some/many articulated *Rangia* in floc layer, recently dead; overlies dark gray to grayish black (N2.5) muddy sand or sandy mud; smells like decomposing organisms.
11	14.5	No floc layer; clean, well-sorted, dark yellowish brown (10 YR 5/2) fine to medium sand; some/many articulated and disarticulated adult *Rangia* scattered throughout grab; no odor; description of first grab taken at this site.
12	11.5	Thin floc layer, difficult to describe because of the many shells; overlies layer consisting almost entirely of shell, with dark yellowish brown (10 YR 4/2) fine sandy mud; many disarticulated *Rangia*, recently dead; many oyster shells; smells like decomposing organisms; all three grabs similar; difficult to get sediment sample because of all the shells.

Station number	Water depth (ft.)	Description
13	9	No floc layer; clean, well-sorted, dark yellowish brown (10 YR 4/2) medium sand, grading to moderate yellowish brown (10 YR 5/4); a few/some adult *Rangia*, articulated and disarticulated, a few live; heavy minerals.
14	13	Surface layer consisting of 3-4 cm of soft, fluffy mud, grading from dark yellowish brown (10 YR 4/2) at the top (<1 cm) to olive gray (5 Y 4/1) (2-3 cm thick); overlies soft, smooth, dark gray to grayish black (N2.5) mud, more cohesive than floc; a few live adult *Rangia*; not very many shells overall.
15	11.5	Thin (1 cm) floc layer, consisting of soft, smooth, watery, dark yellowish brown (10 YR 4/2) mud; a few/some disarticulated and articulated (dead) *Rangia*, 2.5 cm long; overlies soft, sticky, dark gray to grayish black (N2.5) mud; a few disarticulated adult *Rangia*; plant matter; smells like decomposing organisms.
16	10.5	Thin (1 cm) floc layer consisting of soupy, very slightly gritty mud, grading from dark yellowish brown (10 YR 4/2) to dark greenish gray (5 GY 4/1); overlies slightly gritty fine sandy mud, mottled olive gray (5 Y 4/1) and dark gray to grayish black (N2.5), variably muddier and sandier; near bottom of grab, sediment becomes much sandier (sandy mud or muddy sand) and olive gray (5 Y 4/1) in color; many *Rangia*, recently dead; smells like decomposing organisms; description of first grab taken at this site; third grab very shelly, unlike first two.
17	10	Surface layer of soft, fluffy mud, grading from 0.5 cm of dark yellowish brown (10 YR 4/2) to 2 cm of olive gray (5 Y 4/1) or dark greenish gray (5 GY 4/1); a few articulated (dead) and disarticulated *Rangia* in floc layer; overlies soft, smooth (not gritty), lumpy, dark gray to grayish black (N2.5) mud with some dark yellowish brown (10 YR 4/2) mottling; many *Rangia*; a few oyster shell fragments; a few burrows; twig; much plant matter.
18	9.5	Surface layer of soft, fluffy mud, grading from 0.5 cm of dark yellowish brown (10 YR 4/2) to 1.5 cm of olive gray (5 Y 4/1); overlies smooth (not gritty), cottage-cheesy, grayish black (N2) mud with olive gray (5 Y 4/1) around burrows; firmer than floc layer, but still soft; uniform in texture; a few/some *Rangia*; worms; many twigs; much plant matter.

Station number	Water depth (ft.)	Description
19	17	Floc layer, difficult to describe because of the many shells - many disarticulated *Rangia*, 1-5 cm long, oyster shells; overlies soft, smooth, slick, cohesive, grayish black (N2) mud mottled with olive gray (5 Y 4/1); not many shells in grayish black layer; small, live crab; smells like decomposing organisms.
20	13.5	Dark yellowish brown (10 YR 4/2) floc layer, 1-2 cm thick, consisting of soft, smooth, fluffy mud, grades to greenish gray to dark greenish gray (5 GY 5/1); disarticulated adult *Rangia* in floc layer; overlies smooth, grayish black (N2) mud, uniform in texture; some burrows, some oxidized; smells like decomposing organisms.
21B	13	No floc layer; very clean, very well-sorted, dark yellowish brown (10 YR 4/2) fine to medium sand; a few articulated and disarticulated *Rangia* scattered throughout grab.
22	9	Thin (<1 cm) floc layer consisting of soft, fluffy, slightly gritty, dark yellowish brown (10 YR 4/2) mud; a few/some articulated *Rangia*, recently dead, at top of grab; overlies dark gray to grayish black (N2.5) sandy mud; sand finer at top of grab and coarser at depth; smells like decomposing organisms.
23	11.5	Floc layer consisting of 3-4 cm of soft, lumpy, slightly gritty, moderate brown (5 Y 3/4 or 4/4) mud; overlies dark gray to grayish black (N2.5) fine sandy mud, mottled with olive gray (5 Y 4/1); some *Macoma*; worms; description of first grab.
24	17.5	Floc layer consisting of gritty, dark yellowish brown (10 YR 4/2) fine to medium sandy mud; many disarticulated *Rangia*; overlies dark gray to grayish black (N2.5) medium sandy mud; smells like decomposing organisms; description of first grab; second grab shelly; third grab - fewer shells.
25	17.5	Thin (1 cm), shelly floc layer consisting of watery, slightly gritty, dark yellowish brown (10 YR 4/2) mud; many *Rangia*, disarticulated, <2.5 cm long; overlies cohesive, dark gray to grayish black (N2.5) mud mottled with dark yellowish brown (10 YR 4/2) in burrows, not soft or firm; a few disarticulated *Rangia*; a few oxidized burrows; smells like decomposing organisms; description of first grab.

Station number	Water depth (ft.)	Description
26	15.5	Thin (<1 cm) floc layer of watery, dark yellowish brown (10 YR 4/2) mud; some/many *Rangia*, disarticulated, <2.5 cm long; overlies smooth (not gritty), lumpy, dark gray to grayish black (N2.5) mud mottled with olive gray (5 Y 4/1) in burrows; a few disarticulated *Macoma*, some live; some *Rangia*.
27	14.5	Floc layer, 3-4 cm thick, consisting of soft, smooth, mushy, gritty, dark yellowish brown (10 YR 4/2) mud; a few *Rangia* in floc layer; overlies smooth (not gritty), lumpy mud, mottled dark gray (N3) and olive gray (5 Y 4/1), with moderate brown (5 YR 3/4 or 4/4) in burrows, uniform in texture; many adult *Macoma* at depth; some disarticulated *Rangia*, 2-3 cm long; a few worms; some burrows.
28	19	Floc layer, 1-2 cm thick, consisting of slightly gritty, watery, dark yellowish brown (10 YR 4/2) mud; many articulated (dead) and disarticulated adult *Rangia*; overlies dark gray (N3) very fine to fine sandy mud with olive gray (5 Y 4/1) mottling in burrows; a few *Macoma*; a few worms; a few burrows; smells like decomposing organisms; description of first grab.
30	17	Floc layer, 1-2 cm thick, consisting of soft, fluffy mud; overlies smooth, grayish black (N2) mud, uniform in color; many disarticulated *Rangia*; a few *Macoma*; a few worms; a few burrows; smells like decomposing organisms; description of first grab.
31	16	Thin (1 cm) floc layer consisting of soft, smooth mud, grading from dark yellowish brown (10 YR 4/2) to dark greenish gray (5 GY 4/1); disarticulated adult *Rangia* in floc layer; overlies soft, watery, grayish black (N2) mud; many *Rangia*, *Macoma*, and oyster shell fragments in grayish black layer; worms; plant matter; smells like decomposing organisms.
32	16	Thin (1 cm) floc layer consisting of smooth, mushy mud, grading from dark yellowish brown (10 YR 4/2) to greenish gray (5 GY 6/1); single disarticulated adult *Rangia* in floc layer; overlies soft, smooth, dark gray to grayish black (N2.5) mud, grading to olive gray (5 Y 4/1) and mottled with dark yellowish brown (10 YR 4/2); lenses of smoother sediment throughout; a few *Rangia*, 2 cm long; a few *Macoma*; some live worms.

Station number	Water depth (ft.)	Description
34	18	Floc layer consisting of 3-4 cm of soft, smooth, thick, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to greenish gray (5 GY 6/1); overlies soft, smooth (not gritty), mushy, dark greenish gray (5 GY 4/1) mud; grab soft throughout; no shells; description of first grab.
40	11.5	Surface layer, 3-4 cm thick, consisting of soft, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); a few live adult *Rangia* in floc layer; overlies soft, dark gray (N3) mud; random pockets of disarticulated juvenile *Rangia*; no odor.
41	12.5	Thin (1 cm) surface layer consisting of soft, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); a few articulated adult *Rangia*, as well as some 2.5 cm long; overlies soft, smooth, grayish black (N2) mud, uniform in color and texture; not many shells - a few articulated (dead) *Rangia*; entire grab rather soft; no odor.
43	13	Surface layer, 3-4 cm thick, consisting of soft, smooth, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); a few articulated and disarticulated *Rangia* in floc layer; overlies soft, smooth, dark gray to grayish black (N2.5) mud; many disarticulated juvenile *Rangia* at depth; smells like decomposing organisms.
44	15	Surface layer, 3-4 cm thick, consisting of soft, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); overlies soft, smooth, dark gray to grayish black (N2.5) mud, not as soft as floc layer; a few *Rangia*, live and dead; a few live worms; no odor.
51	14	Very shelly, thin (<1 cm) floc layer consisting of dark yellowish brown (10 YR 4/2) fine sandy mud; overlies dark gray (N3) fine sandy mud; many disarticulated *Rangia* throughout grab; smells like decomposing organisms.

Station number	Water depth (ft.)	Description
61	19.5	Thin (1 cm) floc layer consisting of soft, watery, slightly gritty, dark yellowish brown (10 YR 4/2) mud; some disarticulated *Rangia*, 2-2.5 cm long, just below floc layer; floc overlies soft, creamy, cohesive, dark gray (N3) mud, grading into smoother, slicker, creamier, medium dark gray (N4) mud near bottom; similar to fluid mud layer in color and texture; not many shells at depth.
64	21	Floc layer, 1-2 cm thick, consisting of watery, dark yellowish brown (10 YR 4/2) mud; many disarticulated *Rangia*, 2.5 cm long, in floc layer; overlies smooth (not gritty), lumpy, grayish black (N2) mud, uniform in color; some *Macoma* at depth; no odor.
71	18	Floc layer, 1-2 cm thick, consisting of soft, fluffy, dark yellowish brown (10 YR 4/2) mud; overlies smooth (not gritty), grayish black (N2) mud, fairly uniform in texture; some *Rangia*, mostly disarticulated, some articulated; a few/some *Macoma*; smells like decomposing organisms.
87	16.5	Floc layer consisting of 1-2 cm of gritty, dark yellowish brown (10 YR 4/2) fine sandy mud; overlies smooth (not gritty), lumpy, cohesive mud, mostly dark gray (N3) mottled with dark yellowish brown (10 YR 4/2); many oyster shell fragments and disarticulated *Rangia*; no odor.
BC1	15	Floc layer, 1-2 cm thick, consisting of soft, fluffy, slightly gritty, dark yellowish brown (10 YR 4/2) mud; overlies medium gray (N5) and pale red (10 R 6/2) "fluid mud"; single disarticulated *Rangia*; some worms; bottom of grab contains lots of wood fragments and twigs in dark gray (N3) mud.
BC2	16.5	Thin (<0.5 cm), shelly floc layer consisting of watery, dark yellowish brown (5 or 10 YR 4/2) mud; many disarticulated *Rangia* in floc layer, varying in size from 1 to 4 cm; overlies smooth, dark gray to grayish black (N2.5) mud, alternately firmer and softer; a few *Macoma* at depth; no odor.
BC3	14.5	Floc layer, 1-2 cm thick, consisting of very slightly gritty, dark yellowish brown (10 YR 4/2) very fine sandy mud; many articulated (dead) and disarticulated *Rangia* just below floc; overlies slick, cream cheesy, medium gray (N5) and pale red (5 or 10 R 6/2) "fluid mud", layer well preserved; description of first grab.

Station number	Water depth (ft.)	Description
BC4	19	Thin (<1 cm) floc layer consisting of watery, gritty, dark yellowish brown (10 YR 4/2) fine sandy mud; disarticulated oyster shells and *Rangia*, some with barnacles, just below floc; overlies soft, smooth (not gritty), lumpy (cottage cheesy), dark gray (N3) mud; disarticulated *Macoma*; live worms; smells like decomposing organisms.
BC5	16	Floc layer, 2-3 cm thick, consisting of soft, fluffy mud, grading from dark yellowish brown (10 YR 4/2) to olive gray (5 Y 4/1); some articulated *Rangia*, recently dead, just below floc layer; overlies soft, smooth, mushy, dark gray (N3) mud, not as soft as floc layer, very uniform in texture; only occasional shells at depth; some live worms; smells like decomposing organisms.
BC6	10	Thin (<1 cm) floc layer consisting of smooth, soupy/watery, dark yellowish brown (10 YR 4/2) mud; many articulated and disarticulated *Rangia* in floc layer; overlies smooth (not gritty), lumpy, sticky dark gray to grayish black (N2.5) mud mottled with olive gray (5 Y 4/1); description of first grab.

Table 1-4: Wentworth size nomenclature*

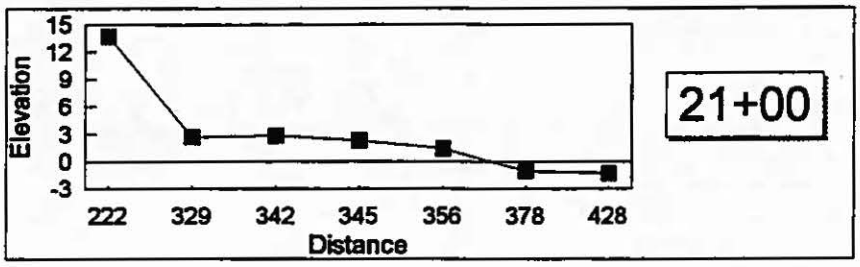
Diameter (mm)	Phi (ϕ)	Wentworth size class	
> 2.00	< -1.0	gravel	gravel
1.00 to 2.00	0.0 to -1.0	very coarse sand	
0.50 to 1.00	1.0 to 0.0	coarse sand	
0.25 to 0.50	2.0 to 1.0	medium sand	sand
0.125 to 0.25	3.0 to 2.0	fine sand	
0.0625 to 0.125	4.0 to 3.0	very fine sand	
0.0039 to 0.0625	8.0 to 4.0	silt	mud
< 0.0039	> 8.0	clay	

* from Folk (1974)

Table 2-1: Distance and elevation data for Hart-Miller Island beach profiles, June 3,1993. The distance* data is measured from the center line of the dike roadway, and the elevation** is measured in reference to mean low water datum

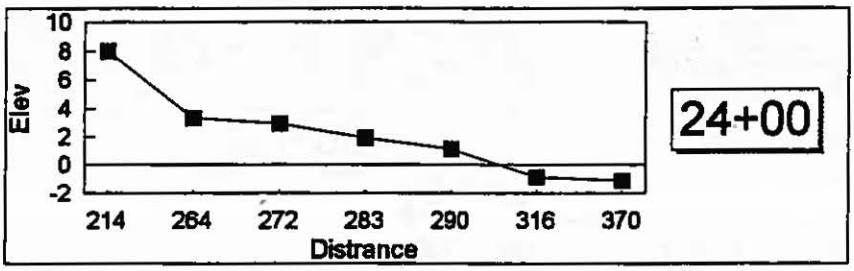
BM 21+75

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS and HI	222	13.7
1	329	2.71
2	342	2.85
3	345	2.3
4	356	1.41
5	378	-1.03
6	428	-1.3



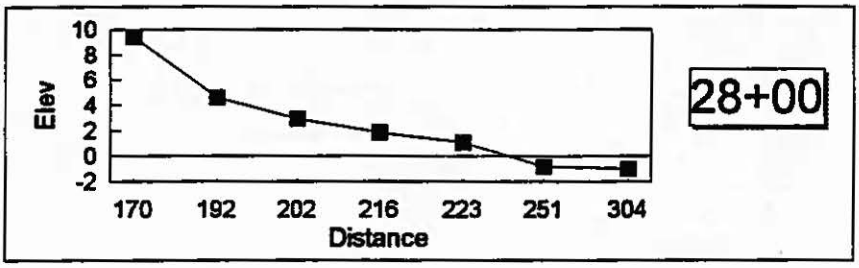
BM 24+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	214	7.99
HI-2	264	3.32
3	272	2.92
4	283	1.91
5	290	1.12
6	316	-0.86
7	370	-1.14



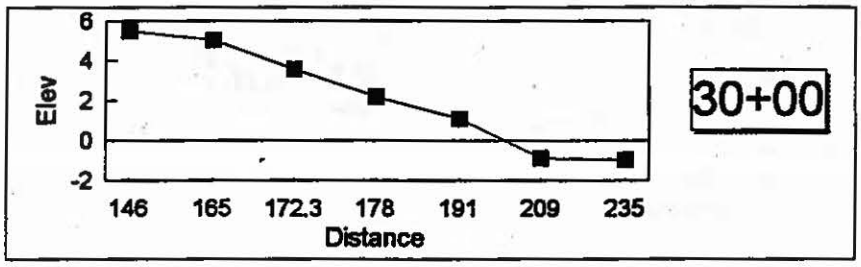
BM 28+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	170	9.4
HI-2	192	4.59
3	202	2.95
4	216	1.84
5	223	1.06
6	251	-0.85
7	304	-1.05



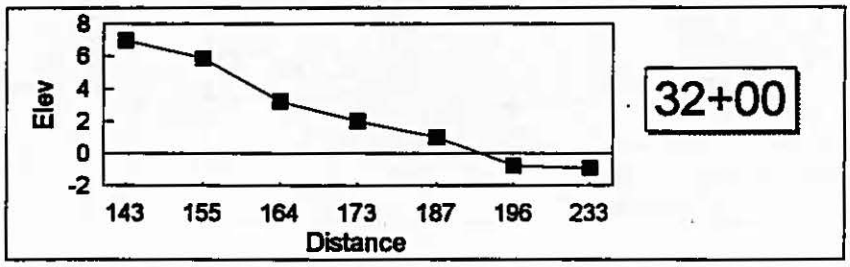
BM 30+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	146	10.17
HI-2	165	5.5
3	172.3	5.04
4	178	3.57
5	191	2.21
6	209	1.1
7	235	-0.87
8	284	-0.97



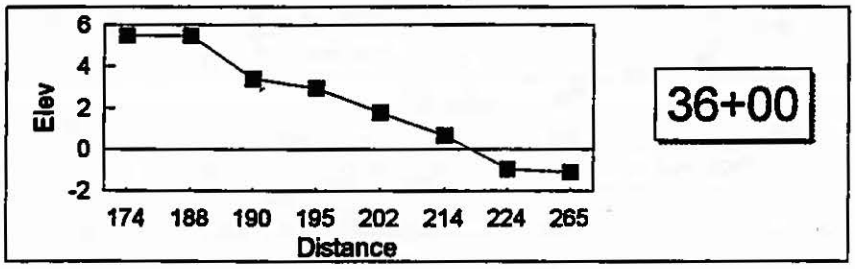
BM 32+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	143	11.26
HI-2	155	6.99
3	164	5.87
4	173	3.22
5	187	1.99
6	196	1
7	233	-0.77
8	300	-0.93



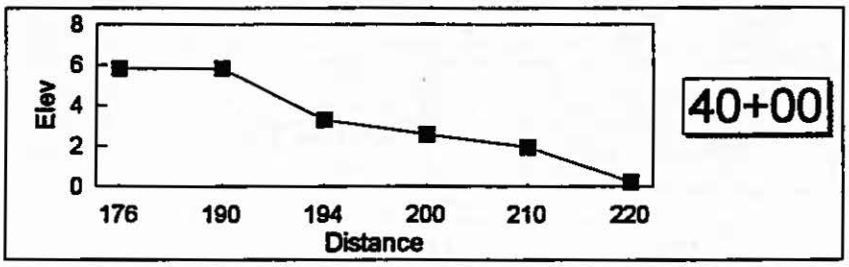
BM 36+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	174	10.15
HI-2	188	5.48
3	190	5.48
4	195	3.42
5	202	2.97
6	214	1.79
7	224	0.66
8	265	-0.94
9	331	-1.09



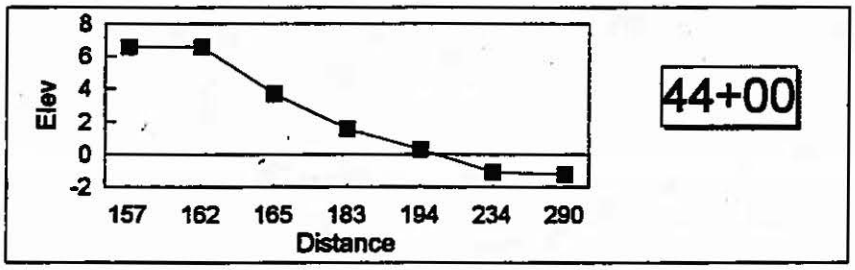
BM 40+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	176	10.26
HI-2	190	5.81
3	194	5.81
4	200	3.26
5	210	2.55
6	220	1.93
7	236	0.23



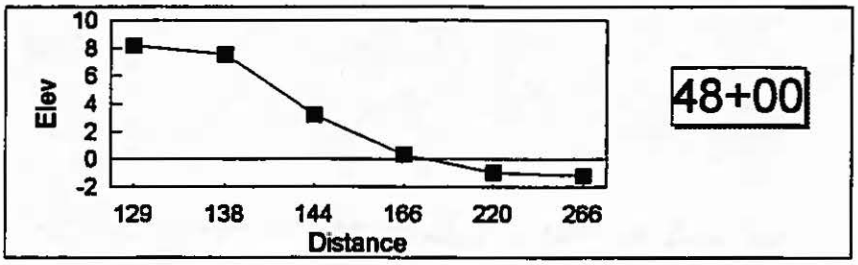
BM 44+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	140	11.06
HI-2	157	6.6
3	162	6.6
4	165	3.73
5	183	1.56
6	194	0.3
7	234	-1.07
8	290	-1.22



BM 48+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	104	13.1
HI-2	129	8.17
3	138	7.55
4	144	3.18
5	166	0.31
6	220	-0.99
7	266	-1.19



BM 49+00

Stadia Station	Distance (ft.)*	Elevation (ft.)**
BS-1	128	11.38
HI-2	143	6.86
3	145	6.86
4	153	3.51
5	174	0.39
6	212	-0.71
7	270	-1.01

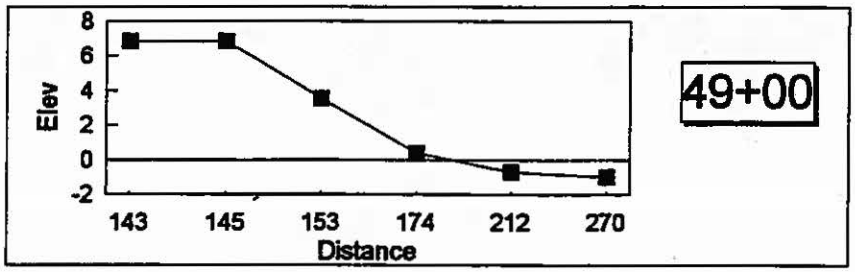
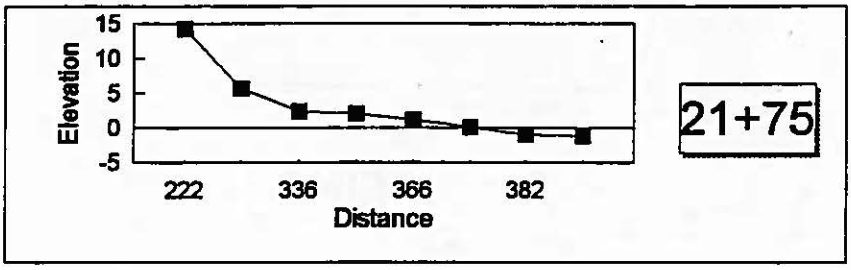


Table 2-2: Distance and elevation data for Hart-Miller Island beach profiles, July 9,1994. The distance* data is measured from the center line of the dike roadway, and the elevation** is measured in reference to mean low water datum

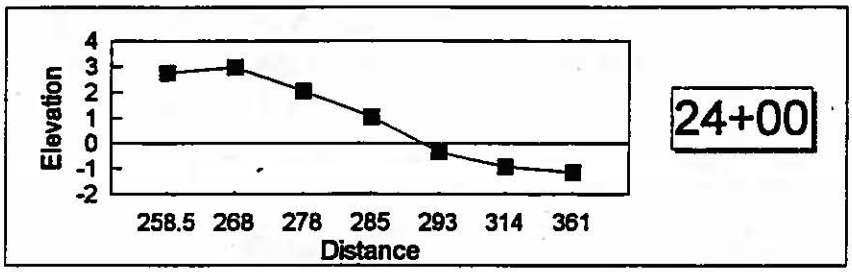
BM 21+75

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS and HI	222	14.33
1	227.5	5.73
2	336	2.44
3	357	2.07
4	366	1.21
5	374	0.14
6	382	-0.97
7	412	-1.18



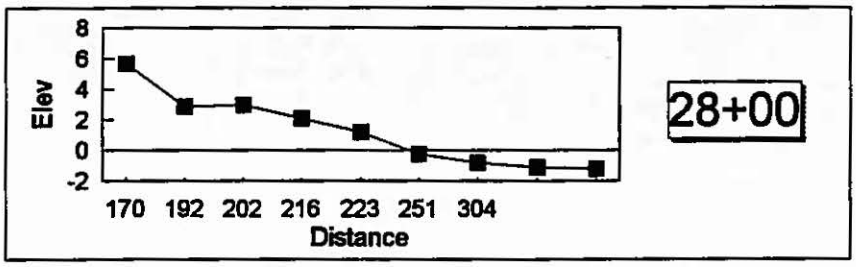
BM 24+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	214	4.37
1	258.5	2.74
HI	268	2.96
3	278	2.04
4	285	1.03
5	293	-0.33
6	314	-0.93
7	361	-1.13



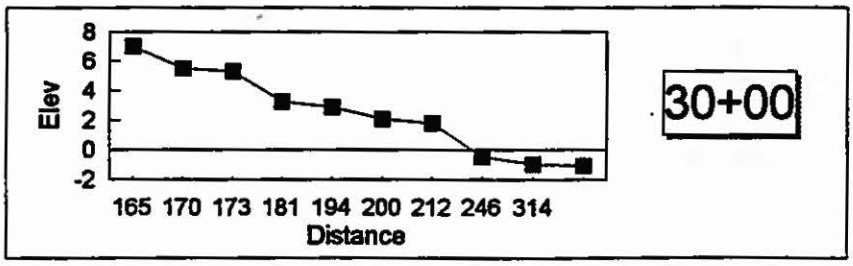
BM 28+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	170	5.66
1	177.5	2.85
HI	208	2.96
3	218	2.07
4	225	1.17
5	236	-0.27
6	259	-0.82
7	315	-1.1
8	374	-1.23



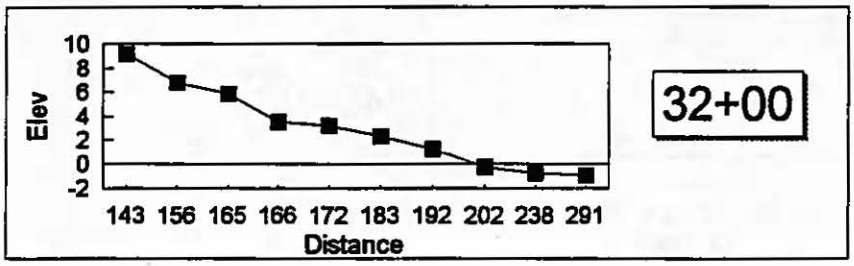
BM 30+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	146	7.04
HI-2	165	5.51
2	169.5	5.29
3	172.5	3.26
4	181	2.9
5	194	2.08
6	200	1.81
7	212	-0.45
8	246	-0.96
9	314	-1.1



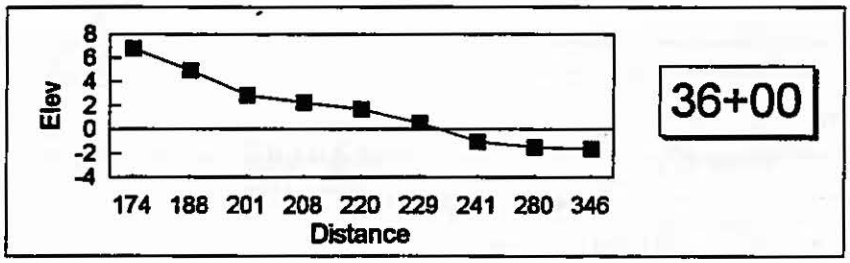
BM 32+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	143	9.15
HI-2	156	6.81
2	165	5.86
3	166	3.54
4	172	3.19
5	183	2.34
6	192	1.23
7	202	-0.25
8	238	-0.77
9	291	-0.93



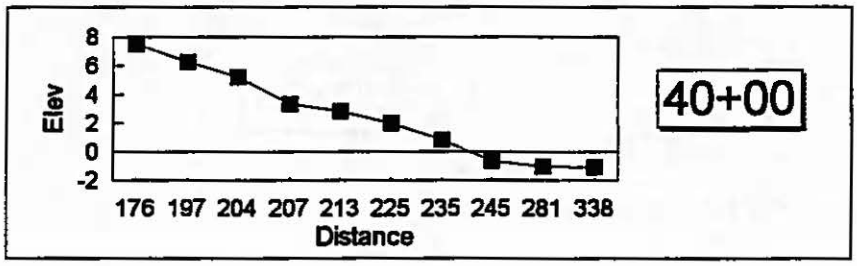
BM 36+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
HI	174	6.79
1	188	4.96
2	201	2.88
3	208	2.24
4	220	1.67
5	229	0.52
6	241	-1.03
7	280	-1.5
8	346	-1.66



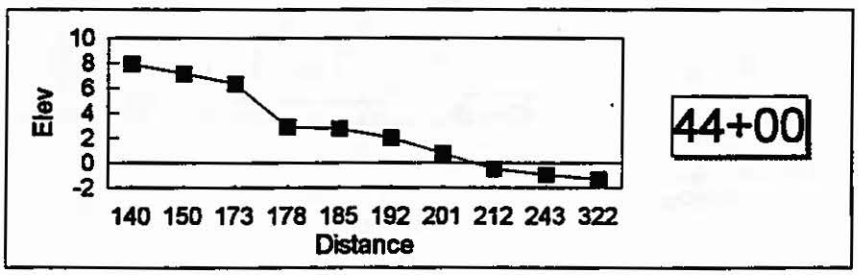
BM 40+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	176	7.52
HI-2	197	6.25
2	204	5.19
3	207	3.34
4	213	2.82
5	225	2
6	235	0.83
7	245	-0.67
8	281	-1.06
9	338	-1.08



BM 44+00

Stadia Station	Distance (ft.)*	Elevation (ft.)*
BS-1	140	7.93
HI-2	150	7.16
2	173	6.37
3	178	2.91
4	185	2.78
5	192	2.02
6	201	0.74
7	212	-0.52
8	243	-0.93
9	322	-1.32



PRELIMINARY - 13TH YEAR HART-MILLER SEDIMENT CHARACTERIZATION DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

-------- STATION=XIF2036 DATE=29NOV93 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3912580 LONG=7623350 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	59
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	45
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	53

-------- STATION=XIF2041 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3912020 LONG=7624080 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	59
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	39
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	60

-------- STATION=XIF2229 DATE=29NOV93 TIME=0 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3912130 LONG=7622540 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
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GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	6
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	39
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	54

-------- STATION=XIF2715 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3912390 LONG=7621310 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	62
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	0
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	47
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	53

-------- STATION=XIF3023 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3913590 LONG=7622200 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	61

------ STATION=XIF3023 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3913590 LONG=7622200 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	SAND	180	%-BYWT	7
CORE	1	PHYSCHAR	0	2	SILT	180	%-BYWT	46
CORE	1	PHYSCHAR	0	2	CLAY	180	%-BYWT	47
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	60
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	5
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	45
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	50
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	57
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	39
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	58
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	57
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	39
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	58
CORE	1	PHYSCHAR	16	20	WATERCON	180	%-BYWT	56
CORE	1	PHYSCHAR	16	20	SAND	180	%-BYWT	5
CORE	1	PHYSCHAR	16	20	SILT	180	%-BYWT	39
CORE	1	PHYSCHAR	16	20	CLAY	180	%-BYWT	56
CORE	1	PHYSCHAR	30	34	WATERCON	180	%-BYWT	54
CORE	1	PHYSCHAR	30	34	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	30	34	SILT	180	%-BYWT	36
CORE	1	PHYSCHAR	30	34	CLAY	180	%-BYWT	61
CORE	1	PHYSCHAR	50	54	WATERCON	180	%-BYWT	62
CORE	1	PHYSCHAR	50	54	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	50	54	SILT	180	%-BYWT	38
CORE	1	PHYSCHAR	50	54	CLAY	180	%-BYWT	60

57

------ STATION=XIF3023 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3913590 LONG=7622200 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	59
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	39
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	60

-------- STATION=XIF3224 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3913120 LONG=7622260 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	64
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	41
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	58

-------- STATION=XIF3420 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3913210 LONG=7622580 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	47
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	62
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	19
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	19

-------- STATION=XIF3510 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3913300 LONG=7621590 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	60
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	42
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	57

-------- STATION=XIF3537 DATE=29NOV93 TIME=0 DEPTH=6 COUNTY=BA BASIN=2139997 LAT=3913320 LONG=7623430 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	21
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	99
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	0

-------- STATION=XIF4019 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914000 LONG=7621530 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	63

------ STATION=XIF4019 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914000 LONG=7621530 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	43
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	56

------ STATION=XIF4126 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7622350 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	61
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	57
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	20
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	22

------ STATION=XIF4212 DATE=21APR94 TIME=0 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7621100 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	56
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	59
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	39
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	59
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	59
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	40
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	59
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	61
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	41
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	58
CORE	1	PHYSCHAR	22	26	WATERCON	180	%-BYWT	57
CORE	1	PHYSCHAR	22	26	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	22	26	SILT	180	%-BYWT	43
CORE	1	PHYSCHAR	22	26	CLAY	180	%-BYWT	57
CORE	1	PHYSCHAR	40	44	WATERCON	180	%-BYWT	55
CORE	1	PHYSCHAR	40	44	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	40	44	SILT	180	%-BYWT	44
CORE	1	PHYSCHAR	40	44	CLAY	180	%-BYWT	56
CORE	1	PHYSCHAR	52	55	WATERCON	180	%-BYWT	55
CORE	1	PHYSCHAR	52	55	SAND	180	%-BYWT	0

-------- STATION=XIF4212 DATE=21APR94 TIME=0 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7621100 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	52	55	SILT	180	%-BYWT	37
CORE	1	PHYSCHAR	52	55	CLAY	180	%-BYWT	62

-------- STATION=XIF4212 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7621100 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	59
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	40
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	59

-------- STATION=XIF4221 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7622070 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	47
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	50
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	47

-------- STATION=XIF4316 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914160 LONG=7621380 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	60
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	4
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	41
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	55

-------- STATION=XIF4514 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621250 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	56
CORE	1	PHYSCHAR	0	2	SAND	180	%-BYWT	15

------ STATION=XIP4514 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621250 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	SILT	180	%-BYWT	44
CORE	1	PHYSCHAR	0	2	CLAY	180	%-BYWT	40
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	57
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	11
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	50
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	39
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	54
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	8
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	51
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	41
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	51
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	56
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	42
CORE	1	PHYSCHAR	22	26	WATERCON	180	%-BYWT	45
CORE	1	PHYSCHAR	22	26	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	22	26	SILT	180	%-BYWT	55
CORE	1	PHYSCHAR	22	26	CLAY	180	%-BYWT	43
CORE	1	PHYSCHAR	40	44	WATERCON	180	%-BYWT	61
CORE	1	PHYSCHAR	40	44	SAND	180	%-BYWT	5
CORE	1	PHYSCHAR	40	44	SILT	180	%-BYWT	36
CORE	1	PHYSCHAR	40	44	CLAY	180	%-BYWT	59
CORE	1	PHYSCHAR	52	55	WATERCON	180	%-BYWT	55
CORE	1	PHYSCHAR	52	55	SAND	180	%-BYWT	7
CORE	1	PHYSCHAR	52	55	SILT	180	%-BYWT	42
CORE	1	PHYSCHAR	52	55	CLAY	180	%-BYWT	52

------ STATION=XIP4514 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621250 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	37
GRAB	2	PHYSCHAR	0	0	WATERCON	56	%-BYWT	45
GRAB	3	PHYSCHAR	0	0	WATERCON	56	%-BYWT	47
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	2	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	3	PHYSCHAR	0	0	SAND	56	%-BYWT	5
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	51
GRAB	2	PHYSCHAR	0	0	SILT	56	%-BYWT	59
GRAB	3	PHYSCHAR	0	0	SILT	56	%-BYWT	62
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	35
GRAB	2	PHYSCHAR	0	0	CLAY	56	%-BYWT	40

PRELIMINARY - 13TH YEAR HART-MILLER SEDIMENT CHARACTERIZATION DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

-------- STATION=XIF4514 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621250 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	3	PHYSCHAR	0	0	CLAY	56	%-BYWT	44

-------- STATION=XIF4642 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914350 LONG=7624110 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	58
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	42
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	33
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	25

-------- STATION=XIF4936 DATE=21APR94 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3914530 LONG=7623350 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	59
CORE	1	PHYSCHAR	0	2	SAND	180	%-BYWT	4
CORE	1	PHYSCHAR	0	2	SILT	180	%-BYWT	50
CORE	1	PHYSCHAR	0	2	CLAY	180	%-BYWT	46
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	60
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	4
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	51
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	45
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	61
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	4
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	53
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	43
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	59
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	56
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	41
CORE	1	PHYSCHAR	20	24	WATERCON	180	%-BYWT	66
CORE	1	PHYSCHAR	20	24	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	20	24	SILT	180	%-BYWT	50
CORE	1	PHYSCHAR	20	24	CLAY	180	%-BYWT	48
CORE	1	PHYSCHAR	46	50	WATERCON	180	%-BYWT	66
CORE	1	PHYSCHAR	46	50	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	46	50	SILT	180	%-BYWT	49
CORE	1	PHYSCHAR	46	50	CLAY	180	%-BYWT	49
CORE	1	PHYSCHAR	62	66	WATERCON	180	%-BYWT	69

------ STATION=XIF4936 DATE=21APR94 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3914530 LONG=7623350 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	62	66	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	62	66	SILT	180	%-BYWT	47
CORE	1	PHYSCHAR	62	66	CLAY	180	%-BYWT	51

------ STATION=XIF5132 DATE=29NOV93 TIME=0 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915080 LONG=7623100 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	69
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	4
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	49
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	48

------ STATION=XIF5427 DATE=29NOV93 TIME=0 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915230 LONG=7622420 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	65
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	4
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	47
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	49

------ STATION=XIF5722 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3915390 LONG=7622120 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	48
GRAB	2	PHYSCHAR	0	0	WATERCON	56	%-BYWT	50
GRAB	3	PHYSCHAR	0	0	WATERCON	56	%-BYWT	51
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	36
GRAB	2	PHYSCHAR	0	0	SAND	56	%-BYWT	38
GRAB	3	PHYSCHAR	0	0	SAND	56	%-BYWT	47
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	27
GRAB	2	PHYSCHAR	0	0	SILT	56	%-BYWT	30
GRAB	3	PHYSCHAR	0	0	SILT	56	%-BYWT	31
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	26
GRAB	2	PHYSCHAR	0	0	CLAY	56	%-BYWT	32
GRAB	3	PHYSCHAR	0	0	CLAY	56	%-BYWT	33

-------- STATION=XIP5817 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3915490 LONG=7621410 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	64
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	42
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	55

-------- STATION=XIP5925 DATE=21APR94 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915510 LONG=7622320 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	61
CORE	1	PHYSCHAR	0	2	SAND	180	%-BYWT	4
CORE	1	PHYSCHAR	0	2	SILT	180	%-BYWT	41
CORE	1	PHYSCHAR	0	2	CLAY	180	%-BYWT	55
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	61
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	44
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	53
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	58
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	45
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	53
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	58
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	45
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	53
CORE	1	PHYSCHAR	18	22	WATERCON	180	%-BYWT	53
CORE	1	PHYSCHAR	18	22	SAND	180	%-BYWT	5
CORE	1	PHYSCHAR	18	22	SILT	180	%-BYWT	45
CORE	1	PHYSCHAR	18	22	CLAY	180	%-BYWT	50
CORE	1	PHYSCHAR	42	46	WATERCON	180	%-BYWT	62
CORE	1	PHYSCHAR	42	46	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	42	46	SILT	180	%-BYWT	40
CORE	1	PHYSCHAR	42	46	CLAY	180	%-BYWT	58

-------- STATION=XIP5925 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3915510 LONG=7622320 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	62
GRAB	2	PHYSCHAR	0	0	WATERCON	56	%-BYWT	63
GRAB	3	PHYSCHAR	0	0	WATERCON	56	%-BYWT	65

------ STATION=XIF5925 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3915510 LONG=7622320 TIDE= WEATHER=CLEAR ---------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	2	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	3	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	41
GRAB	2	PHYSCHAR	0	0	SILT	56	%-BYWT	42
GRAB	3	PHYSCHAR	0	0	SILT	56	%-BYWT	42
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	55
GRAB	2	PHYSCHAR	0	0	CLAY	56	%-BYWT	56
GRAB	3	PHYSCHAR	0	0	CLAY	56	%-BYWT	56

------ STATION=XIF6417 DATE=29NOV93 TIME=0 DEPTH=9 COUNTY=BA BASIN=2139997 LAT=3916210 LONG=7621430 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	68
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	43
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	57

------ STATION=XIG3090 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3913590 LONG=7619590 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	64
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	45
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	55

------ STATION=XIG3506 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3913310 LONG=7620350 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	59
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	3
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	47

-------- STATION=XIG4408 DATE=21APR94 TIME=0 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7620480 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	60
CORE	1	PHYSCHAR	0	2	SAND	180	%-BYWT	4
CORE	1	PHYSCHAR	0	2	SILT	180	%-BYWT	41
CORE	1	PHYSCHAR	0	2	CLAY	180	%-BYWT	55
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	58
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	43
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	55
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	58
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	43
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	56
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	56
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	44
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	55
CORE	1	PHYSCHAR	24	28	WATERCON	180	%-BYWT	55
CORE	1	PHYSCHAR	24	28	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	24	28	SILT	180	%-BYWT	39
CORE	1	PHYSCHAR	24	28	CLAY	180	%-BYWT	61
CORE	1	PHYSCHAR	36	40	WATERCON	180	%-BYWT	59
CORE	1	PHYSCHAR	36	40	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	36	40	SILT	180	%-BYWT	39
CORE	1	PHYSCHAR	36	40	CLAY	180	%-BYWT	60
CORE	1	PHYSCHAR	56	60	WATERCON	180	%-BYWT	57
CORE	1	PHYSCHAR	56	60	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	56	60	SILT	180	%-BYWT	38
CORE	1	PHYSCHAR	56	60	CLAY	180	%-BYWT	62

-------- STATION=XIG4408 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7620480 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	59
GRAB	2	PHYSCHAR	0	0	WATERCON	56	%-BYWT	61
GRAB	3	PHYSCHAR	0	0	WATERCON	56	%-BYWT	61
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	2	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	3	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	42
GRAB	2	PHYSCHAR	0	0	SILT	56	%-BYWT	43
GRAB	3	PHYSCHAR	0	0	SILT	56	%-BYWT	44
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	55

------ STATION=XIG4408 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7620480 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	2	PHYSCHAR	0	0	CLAY	56	%-BYWT	55
GRAB	3	PHYSCHAR	0	0	CLAY	56	%-BYWT	56

------ STATION=XIG4501 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914270 LONG=7620050 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	60
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	46
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	53

------ STATION=XIG4609 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914340 LONG=7620560 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	62
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	40
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	57

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------ STATION=XIG4704 DATE=21APR94 TIME=0 DEPTH=20 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7620210 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	54
CORE	1	PHYSCHAR	0	2	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	0	2	SILT	180	%-BYWT	44
CORE	1	PHYSCHAR	0	2	CLAY	180	%-BYWT	53
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	57
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	43
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	54
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	55
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	41
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	58
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	57

-------- STATION=XIG4704 DATE=21APR94 TIME=0 DEPTH=20 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7620210 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	40
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	59
CORE	1	PHYSCHAR	18	22	WATERCON	180	%-BYWT	55
CORE	1	PHYSCHAR	18	22	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	18	22	SILT	180	%-BYWT	42
CORE	1	PHYSCHAR	18	22	CLAY	180	%-BYWT	57
CORE	1	PHYSCHAR	36	40	WATERCON	180	%-BYWT	60
CORE	1	PHYSCHAR	36	40	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	36	40	SILT	180	%-BYWT	41
CORE	1	PHYSCHAR	36	40	CLAY	180	%-BYWT	58
CORE	1	PHYSCHAR	56	60	WATERCON	180	%-BYWT	61
CORE	1	PHYSCHAR	56	60	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	56	60	SILT	180	%-BYWT	43
CORE	1	PHYSCHAR	56	60	CLAY	180	%-BYWT	56

-------- STATION=XIG4704 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7620210 TIDE= WEATHER=CLEAR --------

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SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	56
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	3
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	44
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	53

-------- STATION=XIG4806 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7620330 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	61
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	9
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	41
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	50

------ STATION=XIG4900 DATE=29NOV93 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3914530 LONG=7620570 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	41
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	71
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	19
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	10

------ STATION=XIG4999 DATE=29NOV93 TIME=0 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914550 LONG=7619510 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	64
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	43
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	56

------ STATION=XIG5008 DATE=29NOV93 TIME=0 DEPTH=6 COUNTY=BA BASIN=2139997 LAT=3915580 LONG=7620490 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	24
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	99
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	1

------ STATION=XIG5103 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915070 LONG=7620190 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	39
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	81
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	9
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	10

------ STATION=XIG5103 DATE=29NOV93 TIME=0 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3915040 LONG=7620190 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	30

-------- STATION=XIG5103 DATE=29NOV93 TIME=0 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3915040 LONG=7620190 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	2	PHYSCHAR	0	0	WATERCON	56	%-BYWT	32
GRAB	3	PHYSCHAR	0	0	WATERCON	56	%-BYWT	48
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	63
GRAB	2	PHYSCHAR	0	0	SAND	56	%-BYWT	78
GRAB	3	PHYSCHAR	0	0	SAND	56	%-BYWT	79
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	9
GRAB	2	PHYSCHAR	0	0	SILT	56	%-BYWT	10
GRAB	3	PHYSCHAR	0	0	SILT	56	%-BYWT	16
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	12
GRAB	2	PHYSCHAR	0	0	CLAY	56	%-BYWT	12
GRAB	3	PHYSCHAR	0	0	CLAY	56	%-BYWT	21

-------- STATION=XIG5295 DATE=29NOV93 TIME=0 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3915090 LONG=7619320 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	57
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	47
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	52

-------- STATION=XIG5401 DATE=29NOV93 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915250 LONG=7620080 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	23
GRAB	2	PHYSCHAR	0	0	WATERCON	56	%-BYWT	23
GRAB	3	PHYSCHAR	0	0	WATERCON	56	%-BYWT	24
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	96
GRAB	2	PHYSCHAR	0	0	SAND	56	%-BYWT	96
GRAB	3	PHYSCHAR	0	0	SAND	56	%-BYWT	98
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	1
GRAB	2	PHYSCHAR	0	0	SILT	56	%-BYWT	2
GRAB	3	PHYSCHAR	0	0	SILT	56	%-BYWT	2
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	1
GRAB	2	PHYSCHAR	0	0	CLAY	56	%-BYWT	2
GRAB	3	PHYSCHAR	0	0	CLAY	56	%-BYWT	2

------ STATION=XIG5405 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3915240 LONG=7620320 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	28
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	99
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	1

------ STATION=XIG5699 DATE=29NOV93 TIME=0 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3915330 LONG=7619530 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	39
GRAB	2	PHYSCHAR	0	0	WATERCON	56	%-BYWT	41
GRAB	3	PHYSCHAR	0	0	WATERCON	56	%-BYWT	45
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	57
GRAB	2	PHYSCHAR	0	0	SAND	56	%-BYWT	59
GRAB	3	PHYSCHAR	0	0	SAND	56	%-BYWT	70
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	12
GRAB	2	PHYSCHAR	0	0	SILT	56	%-BYWT	17
GRAB	3	PHYSCHAR	0	0	SILT	56	%-BYWT	18
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	17
GRAB	2	PHYSCHAR	0	0	CLAY	56	%-BYWT	24
GRAB	3	PHYSCHAR	0	0	CLAY	56	%-BYWT	24

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------ STATION=XIG5702 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915400 LONG=7620140 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	39
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	77
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	10
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	12

------ STATION=XIG5805 DATE=21APR94 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915460 LONG=7620310 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	4	WATERCON	180	%-BYWT	23
CORE	1	PHYSCHAR	0	4	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	0	4	SILT	180	%-BYWT	45
CORE	1	PHYSCHAR	0	4	CLAY	180	%-BYWT	52

-------- STATION=XIG5805 DATE=21APR94 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915460 LONG=7620310 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	8	12	WATERCON	180	%-BYWT	30
CORE	1	PHYSCHAR	8	12	SAND	180	%-BYWT	74
CORE	1	PHYSCHAR	8	12	SILT	180	%-BYWT	11
CORE	1	PHYSCHAR	8	12	CLAY	180	%-BYWT	15
CORE	1	PHYSCHAR	17	21	WATERCON	180	%-BYWT	22
CORE	1	PHYSCHAR	17	21	SAND	180	%-BYWT	85
CORE	1	PHYSCHAR	17	21	SILT	180	%-BYWT	6
CORE	1	PHYSCHAR	17	21	CLAY	180	%-BYWT	9

-------- STATION=XIG5805 DATE=29NOV93 TIME=0 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915460 LONG=7620310 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	34
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	78
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	11
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	11

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-------- STATION=XIG5993 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3915550 LONG=7619160 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	0	2	WATERCON	180	%-BYWT	59
CORE	1	PHYSCHAR	0	2	SAND	180	%-BYWT	3
CORE	1	PHYSCHAR	0	2	SILT	180	%-BYWT	49
CORE	1	PHYSCHAR	0	2	CLAY	180	%-BYWT	48
CORE	1	PHYSCHAR	2	5	WATERCON	180	%-BYWT	62
CORE	1	PHYSCHAR	2	5	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	2	5	SILT	180	%-BYWT	43
CORE	1	PHYSCHAR	2	5	CLAY	180	%-BYWT	55
CORE	1	PHYSCHAR	5	8	WATERCON	180	%-BYWT	63
CORE	1	PHYSCHAR	5	8	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	5	8	SILT	180	%-BYWT	42
CORE	1	PHYSCHAR	5	8	CLAY	180	%-BYWT	57
CORE	1	PHYSCHAR	8	10	WATERCON	180	%-BYWT	63
CORE	1	PHYSCHAR	8	10	SAND	180	%-BYWT	2
CORE	1	PHYSCHAR	8	10	SILT	180	%-BYWT	44
CORE	1	PHYSCHAR	8	10	CLAY	180	%-BYWT	55
CORE	1	PHYSCHAR	18	22	WATERCON	180	%-BYWT	57
CORE	1	PHYSCHAR	18	22	SAND	180	%-BYWT	1

------ STATION=XIG5993 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3915550 LONG=7619160 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	PHYSCHAR	18	22	SILT	180	%-BYWT	39
CORE	1	PHYSCHAR	18	22	CLAY	180	%-BYWT	60
CORE	1	PHYSCHAR	42	46	WATERCON	180	%-BYWT	58
CORE	1	PHYSCHAR	42	46	SAND	180	%-BYWT	1
CORE	1	PHYSCHAR	42	46	SILT	180	%-BYWT	41
CORE	1	PHYSCHAR	42	46	CLAY	180	%-BYWT	58

------ STATION=XIG5993 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915550 LONG=7619160 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	64
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	2
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	40
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	58

------ STATION=XIG6307 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916190 LONG=7620410 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	67
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	4
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	45
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	51

------ STATION=XIG6394 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3916200 LONG=7619260 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	66
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	43
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	55

-------- STATION=XIG6809 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916480 LONG=7620550 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	73
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	0
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	45
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	55

-------- STATION=XIG6998 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916540 LONG=7619470 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	70
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	1
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	41
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	58

-------- STATION=XIG7589 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3917290 LONG=7618550 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	PHYSCHAR	0	0	WATERCON	56	%-BYWT	33
GRAB	1	PHYSCHAR	0	0	SAND	56	%-BYWT	76
GRAB	1	PHYSCHAR	0	0	SILT	56	%-BYWT	10
GRAB	1	PHYSCHAR	0	0	CLAY	56	%-BYWT	11

Sediment Chemical Characteristics

-------- STATION=XIF2036 DATE=29NOV93 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3912580 LONG=7623350 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	131
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	88
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2587
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	379
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	57

-------- STATION=XIF2041 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3912020 LONG=7624080 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	146
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	119
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	6
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	5050
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	682
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	72

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-------- STATION=XIF2229 DATE=29NOV93 TIME=0 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3912130 LONG=7622540 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	124
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	108
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	6
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	5091
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	549
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	59

-------- STATION=XIF2715 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3912390 LONG=7621310 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	116
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	89
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3582
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	337
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	49

PRELIMINARY - 13TH YEAR HART-MILLER SEDIMENT CHEMISTRY DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

------ STATION=XIF3023 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3913590 LONG=7622200 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	119
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	85
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	5243
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	329
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	50
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	123
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	84
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	3090
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	317
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	50
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	127
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	76
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	1861
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	261
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	46
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	134
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	89
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	2702
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	324
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	50
CORE	1	CHEMCHAR	16	20	TOT CHROMIUM	310	UG/GM-DW	135
CORE	1	CHEMCHAR	16	20	TOT NICKEL	314	UG/GM-DW	160
CORE	1	CHEMCHAR	16	20	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	16	20	TOTAL MANGANESE	313	UG/GM-DW	3228
CORE	1	CHEMCHAR	16	20	TOTAL ZINC	315	UG/GM-DW	690
CORE	1	CHEMCHAR	16	20	TOTAL_COPPER	311	UG/GM-DW	81
CORE	1	CHEMCHAR	30	34	TOT CHROMIUM	310	UG/GM-DW	117
CORE	1	CHEMCHAR	30	34	TOT NICKEL	314	UG/GM-DW	70
CORE	1	CHEMCHAR	30	34	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	30	34	TOTAL MANGANESE	313	UG/GM-DW	2380
CORE	1	CHEMCHAR	30	34	TOTAL ZINC	315	UG/GM-DW	174
CORE	1	CHEMCHAR	30	34	TOTAL_COPPER	311	UG/GM-DW	40
CORE	1	CHEMCHAR	50	54	TOT CHROMIUM	310	UG/GM-DW	111
CORE	1	CHEMCHAR	50	54	TOT NICKEL	314	UG/GM-DW	44
CORE	1	CHEMCHAR	50	54	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	50	54	TOTAL MANGANESE	313	UG/GM-DW	1379
CORE	1	CHEMCHAR	50	54	TOTAL ZINC	315	UG/GM-DW	116
CORE	1	CHEMCHAR	50	54	TOTAL_COPPER	311	UG/GM-DW	18

-------- STATION=XIF3023 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3913590 LONG=7622200 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	111
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	56
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	4
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2058
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	198
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	33

-------- STATION=XIF3224 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3913120 LONG=7622260 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	126
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	88
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	4844
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	373
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	50

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-------- STATION=XIF3420 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3913210 LONG=7622580 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	56
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	35
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	2
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1803
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	167
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	24

-------- STATION=XIF3510 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3913300 LONG=7621590 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	117
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	90
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2940
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	378
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	51

PRELIMINARY - 13TH YEAR HART-MILLER SEDIMENT CHEMISTRY DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

------- STATION=XIF3537 DATE=29NOV93 TIME=0 DEPTH=6 COUNTY=BA BASIN=2139997 LAT=3913320 LONG=7623430 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	10
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	15
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	0
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	939
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	28
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	3

------- STATION=XIF4019 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914000 LONG=7621530 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	109
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	78
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3375
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	341
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	47

------- STATION=XIF4126 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7622350 TIDE= WEATHER=CLEAR --------

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SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	101
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	67
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	4
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2252
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	283
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	43

------ STATION=XIF4212 DATE=21APR94 TIME=0 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7621100 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	126
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	89
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	4439
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	335
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	50

-------- STATION=XIF4212 DATE=21APR94 TIME=0 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7621100 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	125
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	91
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	2964
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	371
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	56
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	131
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	106
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	2816
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	412
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	65
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	146
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	152
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	6
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	6673
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	614
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	71
CORE	1	CHEMCHAR	22	26	TOT CHROMIUM	310	UG/GM-DW	132
CORE	1	CHEMCHAR	22	26	TOT NICKEL	314	UG/GM-DW	142
CORE	1	CHEMCHAR	22	26	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	22	26	TOTAL MANGANESE	313	UG/GM-DW	2806
CORE	1	CHEMCHAR	22	26	TOTAL ZINC	315	UG/GM-DW	498
CORE	1	CHEMCHAR	22	26	TOTAL_COPPER	311	UG/GM-DW	83
CORE	1	CHEMCHAR	40	44	TOT CHROMIUM	310	UG/GM-DW	120
CORE	1	CHEMCHAR	40	44	TOT NICKEL	314	UG/GM-DW	91
CORE	1	CHEMCHAR	40	44	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	40	44	TOTAL MANGANESE	313	UG/GM-DW	1957
CORE	1	CHEMCHAR	40	44	TOTAL ZINC	315	UG/GM-DW	265
CORE	1	CHEMCHAR	40	44	TOTAL_COPPER	311	UG/GM-DW	67
CORE	1	CHEMCHAR	52	55	TOT CHROMIUM	310	UG/GM-DW	116
CORE	1	CHEMCHAR	52	55	TOT NICKEL	314	UG/GM-DW	71
CORE	1	CHEMCHAR	52	55	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	52	55	TOTAL MANGANESE	313	UG/GM-DW	2829
CORE	1	CHEMCHAR	52	55	TOTAL ZINC	315	UG/GM-DW	201
CORE	1	CHEMCHAR	52	55	TOTAL_COPPER	311	UG/GM-DW	49

-------- STATION=XIF4212 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7621100 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	119

------- STATION=XIF4212 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7621100 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	89
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2744
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	376
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	56

------- STATION=XIF4221 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914100 LONG=7622070 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	98
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	48
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	4
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1151
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	151
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	30

------ STATION=XIF4316 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914160 LONG=7621380 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	118
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	87
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3703
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	351
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	48

------ STATION=XIF4514 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621250 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	103
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	63
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	3223
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	257
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	40

-------- STATION-XIF4514 DATE-21APR94 TIME-0 DEPTH-16 COUNTY-BA BASIN-2139997 LAT-3914320 LONG-7621250 TIDE- WEATHER-CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	103
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	62
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	1940
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	225
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	39
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	112
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	55
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	1773
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	200
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	37
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	93
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	42
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	989
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	136
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	29
CORE	1	CHEMCHAR	22	26	TOT CHROMIUM	310	UG/GM-DW	95
CORE	1	CHEMCHAR	22	26	TOT NICKEL	314	UG/GM-DW	43
CORE	1	CHEMCHAR	22	26	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	22	26	TOTAL MANGANESE	313	UG/GM-DW	1036
CORE	1	CHEMCHAR	22	26	TOTAL ZINC	315	UG/GM-DW	138
CORE	1	CHEMCHAR	22	26	TOTAL_COPPER	311	UG/GM-DW	29
CORE	1	CHEMCHAR	40	44	TOT CHROMIUM	310	UG/GM-DW	136
CORE	1	CHEMCHAR	40	44	TOT NICKEL	314	UG/GM-DW	94
CORE	1	CHEMCHAR	40	44	TOTAL IRON	312	%-BYWT	6
CORE	1	CHEMCHAR	40	44	TOTAL MANGANESE	313	UG/GM-DW	2058
CORE	1	CHEMCHAR	40	44	TOTAL ZINC	315	UG/GM-DW	396
CORE	1	CHEMCHAR	40	44	TOTAL_COPPER	311	UG/GM-DW	60
CORE	1	CHEMCHAR	52	55	TOT CHROMIUM	310	UG/GM-DW	123
CORE	1	CHEMCHAR	52	55	TOT NICKEL	314	UG/GM-DW	121
CORE	1	CHEMCHAR	52	55	TOTAL IRON	312	%-BYWT	6
CORE	1	CHEMCHAR	52	55	TOTAL MANGANESE	313	UG/GM-DW	1852
CORE	1	CHEMCHAR	52	55	TOTAL ZINC	315	UG/GM-DW	413
CORE	1	CHEMCHAR	52	55	TOTAL_COPPER	311	UG/GM-DW	81

-------- STATION-XIF4514 DATE-29NOV93 TIME-0 DEPTH-13 COUNTY-BA BASIN-2139997 LAT-3914320 LONG-7621250 TIDE- WEATHER-CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	73

PRELIMINARY - 13TH YEAR HART-MILLER SEDIMENT CHEMISTRY DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

------ STATION=XIF4514 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621250 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	2	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	78
GRAB	3	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	90
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	33
GRAB	2	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	41
GRAB	3	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	47
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	2	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	3	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	4
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	425
GRAB	2	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1170
GRAB	3	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1529
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	99
GRAB	2	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	140
GRAB	3	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	157
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	22
GRAB	2	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	29
GRAB	3	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	33

------ STATION=XIF4642 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914350 LONG=7624110 TIDE= WEATHER=CLEAR ---------

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SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	93
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	47
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1650
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	246
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	47

------ STATION=XIF4936 DATE=21APR94 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3914530 LONG=7623350 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	145
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	74
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	2855
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	361
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	62
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	141

-------- STATION=XIF4936 DATE=21APR94 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3914530 LONG=7623350 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	74
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	1801
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	334
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	60
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	141
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	70
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	1453
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	320
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	63
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	137
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	72
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	1159
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	311
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	61
CORE	1	CHEMCHAR	20	24	TOT CHROMIUM	310	UG/GM-DW	180
CORE	1	CHEMCHAR	20	24	TOT NICKEL	314	UG/GM-DW	100
CORE	1	CHEMCHAR	20	24	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	20	24	TOTAL MANGANESE	313	UG/GM-DW	1064
CORE	1	CHEMCHAR	20	24	TOTAL ZINC	315	UG/GM-DW	454
CORE	1	CHEMCHAR	20	24	TOTAL_COPPER	311	UG/GM-DW	93
CORE	1	CHEMCHAR	46	50	TOT CHROMIUM	310	UG/GM-DW	197
CORE	1	CHEMCHAR	46	50	TOT NICKEL	314	UG/GM-DW	146
CORE	1	CHEMCHAR	46	50	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	46	50	TOTAL MANGANESE	313	UG/GM-DW	1403
CORE	1	CHEMCHAR	46	50	TOTAL ZINC	315	UG/GM-DW	596
CORE	1	CHEMCHAR	46	50	TOTAL_COPPER	311	UG/GM-DW	88
CORE	1	CHEMCHAR	62	66	TOT CHROMIUM	310	UG/GM-DW	213
CORE	1	CHEMCHAR	62	66	TOT NICKEL	314	UG/GM-DW	169
CORE	1	CHEMCHAR	62	66	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	62	66	TOTAL MANGANESE	313	UG/GM-DW	782
CORE	1	CHEMCHAR	62	66	TOTAL ZINC	315	UG/GM-DW	664
CORE	1	CHEMCHAR	62	66	TOTAL_COPPER	311	UG/GM-DW	88

-------- STATION=XIF5132 DATE=29NOV93 TIME=0 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915080 LONG=7623100 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	111
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	67

------ STATION=XIF5132 DATE=29NOV93 TIME=0 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915080 LONG=7623100 TIDE= WEATHER=CLEAR ---------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	4
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2547
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	295
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	47

------ STATION=XIF5427 DATE=29NOV93 TIME=0 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915230 LONG=7622420 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	113
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	69
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	4
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1506
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	297
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	43

------ STATION=XIF5722 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3915390 LONG=7622120 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	61
GRAB	2	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	65
GRAB	3	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	71
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	41
GRAB	2	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	43
GRAB	3	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	47
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	2	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	3	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	901
GRAB	2	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	941
GRAB	3	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	997
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	177
GRAB	2	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	187
GRAB	3	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	190
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	29
GRAB	2	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	29
GRAB	3	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	36

PRELIMINARY - 13TH YEAR HART-MILLER SEDIMENT CHEMISTRY DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
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-------- STATION-XIF5817 DATE-29NOV93 TIME-0 DEPTH-8 COUNTY-BA BASIN-2139997 LAT-3915490 LONG-7621410 TIDE= WEATHER-CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	102
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	71
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1823
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	297
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	42

-------- STATION-XIF5925 DATE-21APR94 TIME-0 DEPTH-12 COUNTY-BA BASIN-2139997 LAT-3915510 LONG-7622320 TIDE= WEATHER-CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	137
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	105
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	1530
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	430
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	63
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	145
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	120
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	1494
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	502
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	70
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	149
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	129
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	1125
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	538
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	75
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	129
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	113
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	1116
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	489
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	72
CORE	1	CHEMCHAR	18	22	TOT CHROMIUM	310	UG/GM-DW	101
CORE	1	CHEMCHAR	18	22	TOT NICKEL	314	UG/GM-DW	42
CORE	1	CHEMCHAR	18	22	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	18	22	TOTAL MANGANESE	313	UG/GM-DW	984
CORE	1	CHEMCHAR	18	22	TOTAL ZINC	315	UG/GM-DW	121
CORE	1	CHEMCHAR	18	22	TOTAL_COPPER	311	UG/GM-DW	25
CORE	1	CHEMCHAR	42	46	TOT CHROMIUM	310	UG/GM-DW	116
CORE	1	CHEMCHAR	42	46	TOT NICKEL	314	UG/GM-DW	41

------ STATION=XIF5925 DATE=21APR94 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915510 LONG=7622320 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	42	46	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	42	46	TOTAL MANGANESE	313	UG/GM-DW	1699
CORE	1	CHEMCHAR	42	46	TOTAL ZINC	315	UG/GM-DW	117
CORE	1	CHEMCHAR	42	46	TOTAL_COPPER	311	UG/GM-DW	17

------ STATION=XIF5925 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3915510 LONG=7622320 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	119
GRAB	2	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	124
GRAB	3	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	133
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	81
GRAB	2	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	85
GRAB	3	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	121
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	2	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	3	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1507
GRAB	2	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1563
GRAB	3	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1774
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	365
GRAB	2	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	381
GRAB	3	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	490
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	54
GRAB	2	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	54
GRAB	3	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	73

------ STATION=XIF6417 DATE=29NOV93 TIME=0 DEPTH=9 COUNTY=BA BASIN=2139997 LAT=3916210 LONG=7621430 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	111
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	78
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2706
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	309
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	41

-------- STATION=XIG3090 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3913590 LONG=7619590 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	115
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	80
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3667
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	297
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	42

-------- STATION=XIG3506 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3913310 LONG=7620350 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	93
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	76
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3124
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	324
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	44

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-------- STATION=XIG4408 DATE=21APR94 TIME=0 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7620480 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	140
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	142
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	6
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	4289
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	558
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	69
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	112
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	45
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	1200
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	113
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	20
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	139
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	173
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	6
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	4435
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	678
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	82
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	124

------- STATION=XIG4408 DATE=21APR94 TIME=0 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7620480 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	154
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	2443
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	558
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	51
CORE	1	CHEMCHAR	24	28	TOT CHROMIUM	310	UG/GM-DW	104
CORE	1	CHEMCHAR	24	28	TOT NICKEL	314	UG/GM-DW	69
CORE	1	CHEMCHAR	24	28	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	24	28	TOTAL MANGANESE	313	UG/GM-DW	2259
CORE	1	CHEMCHAR	24	28	TOTAL ZINC	315	UG/GM-DW	205
CORE	1	CHEMCHAR	24	28	TOTAL_COPPER	311	UG/GM-DW	49
CORE	1	CHEMCHAR	36	40	TOT CHROMIUM	310	UG/GM-DW	106
CORE	1	CHEMCHAR	36	40	TOT NICKEL	314	UG/GM-DW	69
CORE	1	CHEMCHAR	36	40	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	36	40	TOTAL MANGANESE	313	UG/GM-DW	3437
CORE	1	CHEMCHAR	36	40	TOTAL ZINC	315	UG/GM-DW	204
CORE	1	CHEMCHAR	36	40	TOTAL_COPPER	311	UG/GM-DW	51
CORE	1	CHEMCHAR	56	60	TOT CHROMIUM	310	UG/GM-DW	116
CORE	1	CHEMCHAR	56	60	TOT NICKEL	314	UG/GM-DW	59
CORE	1	CHEMCHAR	56	60	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	56	60	TOTAL MANGANESE	313	UG/GM-DW	1584
CORE	1	CHEMCHAR	56	60	TOTAL ZINC	315	UG/GM-DW	126
CORE	1	CHEMCHAR	56	60	TOTAL_COPPER	311	UG/GM-DW	29

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------ STATION=XIG4408 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7620480 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	108
GRAB	2	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	114
GRAB	3	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	115
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	128
GRAB	2	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	132
GRAB	3	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	133
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	2	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	3	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3404
GRAB	2	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3757
GRAB	3	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	4249
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	583
GRAB	2	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	595

-------- STATION=XIG4408 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7620480 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	3	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	595
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	60
GRAB	2	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	62
GRAB	3	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	69

-------- STATION=XIG4501 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914270 LONG=7620050 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	121
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	96
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3042
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	412
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	62

-------- STATION=XIG4609 DATE=29NOV93 TIME=0 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914340 LONG=7620560 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	123
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	92
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2486
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	385
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	49

-------- STATION=XIG4704 DATE=21APR94 TIME=0 DEPTH=20 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7620210 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	113
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	138
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	4
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	1571
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	444
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	81
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	112

------ STATION=XIG4704 DATE=21APR94 TIME=0 DEPTH=20 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7620210 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	107
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	2304
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	373
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	67
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	111
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	76
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	2072
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	225
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	49
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	119
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	77
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	2235
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	223
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	49
CORE	1	CHEMCHAR	18	22	TOT CHROMIUM	310	UG/GM-DW	111
CORE	1	CHEMCHAR	18	22	TOT NICKEL	314	UG/GM-DW	57
CORE	1	CHEMCHAR	18	22	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	18	22	TOTAL MANGANESE	313	UG/GM-DW	1892
CORE	1	CHEMCHAR	18	22	TOTAL ZINC	315	UG/GM-DW	143
CORE	1	CHEMCHAR	18	22	TOTAL_COPPER	311	UG/GM-DW	32
CORE	1	CHEMCHAR	36	40	TOT CHROMIUM	310	UG/GM-DW	105
CORE	1	CHEMCHAR	36	40	TOT NICKEL	314	UG/GM-DW	50
CORE	1	CHEMCHAR	36	40	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	36	40	TOTAL MANGANESE	313	UG/GM-DW	1703
CORE	1	CHEMCHAR	36	40	TOTAL ZINC	315	UG/GM-DW	118
CORE	1	CHEMCHAR	36	40	TOTAL_COPPER	311	UG/GM-DW	25
CORE	1	CHEMCHAR	56	60	TOT CHROMIUM	310	UG/GM-DW	130
CORE	1	CHEMCHAR	56	60	TOT NICKEL	314	UG/GM-DW	172
CORE	1	CHEMCHAR	56	60	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	56	60	TOTAL MANGANESE	313	UG/GM-DW	4169
CORE	1	CHEMCHAR	56	60	TOTAL ZINC	315	UG/GM-DW	672
CORE	1	CHEMCHAR	56	60	TOTAL_COPPER	311	UG/GM-DW	75

------ STATION=XIG4704 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7620210 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	112
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	124

-------- STATION=XIG4704 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7620210 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2869
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	423
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	78

-------- STATION=XIG4806 DATE=29NOV93 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7620330 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	121
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	145
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3120
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	594
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	71

-------- STATION=XIG4900 DATE=29NOV93 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3914530 LONG=7620570 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	52
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	46
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	2
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1732
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	199
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	25

-------- STATION=XIG4999 DATE=29NOV93 TIME=0 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914550 LONG=7619510 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	123
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	94
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	6
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2641
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	378
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	61

------ STATION=XIG5008 DATE=29NOV93 TIME=0 DEPTH=6 COUNTY=BA BASIN=2139997 LAT=3915580 LONG=7620490 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	8
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	11
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	0
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1134
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	22
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	3

------ STATION=XIG5103 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915070 LONG=7620190 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	31
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	22
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	1
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1991
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	92
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	11

------ STATION=XIG5103 DATE=29NOV93 TIME=0 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3915040 LONG=7620190 TIDE= WEATHER=CLEAR --------

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SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	32
GRAB	2	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	37
GRAB	3	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	57
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	27
GRAB	2	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	38
GRAB	3	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	43
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	1
GRAB	2	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	2
GRAB	3	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	2
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	814
GRAB	2	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	815
GRAB	3	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	2126
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	118
GRAB	2	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	166
GRAB	3	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	171
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	12
GRAB	2	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	17
GRAB	3	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	18

-------- STATION=XIG5295 DATE=29NOV93 TIME=0 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3915090 LONG=7619320 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	126
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	92
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	6
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3875
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	386
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	70

-------- STATION=XIG5401 DATE=29NOV93 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915250 LONG=7620080 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	8
GRAB	2	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	12
GRAB	3	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	13
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	9
GRAB	2	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	9
GRAB	3	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	10
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	0
GRAB	2	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	0
GRAB	3	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	0
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	559
GRAB	2	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	680
GRAB	3	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	805
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	26
GRAB	2	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	30
GRAB	3	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	30
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	3
GRAB	2	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	3
GRAB	3	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	4

-------- STATION=XIG5405 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3915240 LONG=7620320 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	10
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	14
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	0
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	742
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	26
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	3

------- STATION=XIG5699 DATE=29NOV93 TIME=0 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3915330 LONG=7619530 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	42
GRAB	2	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	55
GRAB	3	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	59
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	5
GRAB	2	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	50
GRAB	3	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	53
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	2
GRAB	2	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	3	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	3
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	963
GRAB	2	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1352
GRAB	3	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1581
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	214
GRAB	2	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	226
GRAB	3	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	238
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	26
GRAB	2	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	27
GRAB	3	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	27

------ STATION=XIG5702 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915400 LONG=7620140 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	38
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	25
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	2
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1451
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	107
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	15

------ STATION=XIG5805 DATE=21APR94 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915460 LONG=7620310 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	4	TOT CHROMIUM	310	UG/GM-DW	18
CORE	1	CHEMCHAR	0	4	TOT NICKEL	314	UG/GM-DW	12
CORE	1	CHEMCHAR	0	4	TOTAL IRON	312	%-BYWT	1
CORE	1	CHEMCHAR	0	4	TOTAL MANGANESE	313	UG/GM-DW	425
CORE	1	CHEMCHAR	0	4	TOTAL ZINC	315	UG/GM-DW	44
CORE	1	CHEMCHAR	0	4	TOTAL_COPPER	311	UG/GM-DW	5
CORE	1	CHEMCHAR	8	12	TOT CHROMIUM	310	UG/GM-DW	35

-------- STATION=XIG5805 DATE=21APR94 TIME=0 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915460 LONG=7620310 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	8	12	TOT NICKEL	314	UG/GM-DW	8
CORE	1	CHEMCHAR	8	12	TOTAL IRON	312	%-BYWT	2
CORE	1	CHEMCHAR	8	12	TOTAL MANGANESE	313	UG/GM-DW	451
CORE	1	CHEMCHAR	8	12	TOTAL ZINC	315	UG/GM-DW	41
CORE	1	CHEMCHAR	8	12	TOTAL_COPPER	311	UG/GM-DW	4
CORE	1	CHEMCHAR	17	21	TOT CHROMIUM	310	UG/GM-DW	21
CORE	1	CHEMCHAR	17	21	TOT NICKEL	314	UG/GM-DW	6
CORE	1	CHEMCHAR	17	21	TOTAL IRON	312	%-BYWT	1
CORE	1	CHEMCHAR	17	21	TOTAL MANGANESE	313	UG/GM-DW	247
CORE	1	CHEMCHAR	17	21	TOTAL ZINC	315	UG/GM-DW	25
CORE	1	CHEMCHAR	17	21	TOTAL_COPPER	311	UG/GM-DW	3

-------- STATION=XIG5805 DATE=29NOV93 TIME=0 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915460 LONG=7620310 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	34
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	23
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	1
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	1104
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	90
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	12

96

-------- STATION=XIG5993 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3915550 LONG=7619160 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	0	2	TOT CHROMIUM	310	UG/GM-DW	122
CORE	1	CHEMCHAR	0	2	TOT NICKEL	314	UG/GM-DW	87
CORE	1	CHEMCHAR	0	2	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	0	2	TOTAL MANGANESE	313	UG/GM-DW	4609
CORE	1	CHEMCHAR	0	2	TOTAL ZINC	315	UG/GM-DW	316
CORE	1	CHEMCHAR	0	2	TOTAL_COPPER	311	UG/GM-DW	43
CORE	1	CHEMCHAR	2	5	TOT CHROMIUM	310	UG/GM-DW	127
CORE	1	CHEMCHAR	2	5	TOT NICKEL	314	UG/GM-DW	83
CORE	1	CHEMCHAR	2	5	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	2	5	TOTAL MANGANESE	313	UG/GM-DW	3201
CORE	1	CHEMCHAR	2	5	TOTAL ZINC	315	UG/GM-DW	322
CORE	1	CHEMCHAR	2	5	TOTAL_COPPER	311	UG/GM-DW	46
CORE	1	CHEMCHAR	5	8	TOT CHROMIUM	310	UG/GM-DW	119

------- STATION=XIG5993 DATE=21APR94 TIME=0 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3915550 LONG=7619160 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
CORE	1	CHEMCHAR	5	8	TOT NICKEL	314	UG/GM-DW	82
CORE	1	CHEMCHAR	5	8	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	5	8	TOTAL MANGANESE	313	UG/GM-DW	3091
CORE	1	CHEMCHAR	5	8	TOTAL ZINC	315	UG/GM-DW	312
CORE	1	CHEMCHAR	5	8	TOTAL_COPPER	311	UG/GM-DW	43
CORE	1	CHEMCHAR	8	10	TOT CHROMIUM	310	UG/GM-DW	133
CORE	1	CHEMCHAR	8	10	TOT NICKEL	314	UG/GM-DW	96
CORE	1	CHEMCHAR	8	10	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	8	10	TOTAL MANGANESE	313	UG/GM-DW	3213
CORE	1	CHEMCHAR	8	10	TOTAL ZINC	315	UG/GM-DW	343
CORE	1	CHEMCHAR	8	10	TOTAL_COPPER	311	UG/GM-DW	50
CORE	1	CHEMCHAR	18	22	TOT CHROMIUM	310	UG/GM-DW	111
CORE	1	CHEMCHAR	18	22	TOT NICKEL	314	UG/GM-DW	76
CORE	1	CHEMCHAR	18	22	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	18	22	TOTAL MANGANESE	313	UG/GM-DW	2084
CORE	1	CHEMCHAR	18	22	TOTAL ZINC	315	UG/GM-DW	224
CORE	1	CHEMCHAR	18	22	TOTAL_COPPER	311	UG/GM-DW	52
CORE	1	CHEMCHAR	42	46	TOT CHROMIUM	310	UG/GM-DW	108
CORE	1	CHEMCHAR	42	46	TOT NICKEL	314	UG/GM-DW	44
CORE	1	CHEMCHAR	42	46	TOTAL IRON	312	%-BYWT	5
CORE	1	CHEMCHAR	42	46	TOTAL MANGANESE	313	UG/GM-DW	1009
CORE	1	CHEMCHAR	42	46	TOTAL ZINC	315	UG/GM-DW	114
CORE	1	CHEMCHAR	42	46	TOTAL_COPPER	311	UG/GM-DW	23

97

------- STATION=XIG5993 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915550 LONG=7619160 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	108
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	79
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	3880
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	305
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	48

------- STATION=XIG6307 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916190 LONG=7620410 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	113

-------- STATION=XIG6307 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916190 LONG=7620410 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	81
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	6451
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	309
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	44

-------- STATION=XIG6394 DATE=29NOV93 TIME=0 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3916200 LONG=7619260 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	112
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	77
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	5140
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	305
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	47

-------- STATION=XIG6809 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916480 LONG=7620550 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	110
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	81
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	6006
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	304
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	46

-------- STATION=XIG6998 DATE=29NOV93 TIME=0 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916540 LONG=7619470 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	120
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	85
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	5
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	5656
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	310
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	52

------- STATION=XIG7589 DATE=29NOV93 TIME=0 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3917290 LONG=7618550 TIDE= WEATHER=CLEAR ---------

SAMPLING METHOD	GRAB NUMBER	MEDIA	FROM CORE RANGE (CM)	TO CORE RANGE (CM)	PARAMETER	METHOD	UNITS	VALUE
GRAB	1	CHEMCHAR	0	0	TOT CHROMIUM	304	UG/GM-DW	36
GRAB	1	CHEMCHAR	0	0	TOT NICKEL	308	UG/GM-DW	27
GRAB	1	CHEMCHAR	0	0	TOTAL IRON	306	%-BYWT	2
GRAB	1	CHEMCHAR	0	0	TOTAL MANGANESE	307	UG/GM-DW	892
GRAB	1	CHEMCHAR	0	0	TOTAL ZINC	309	UG/GM-DW	94
GRAB	1	CHEMCHAR	0	0	TOTAL_COPPER	305	UG/GM-DW	15

Ref. No. (UMCEES) CBL 95-047

Thirteenth Annual Data Report

Benthic Monitoring Studies - Project III
December 1993-August 1994

The Continuing State Assessment of the
Environmental Impacts of Operation of the
Hart and Miller Islands Containment Facility (HMI)

Submitted To:

Maryland Department of Natural Resources
Tidewater Administration
Monitoring and Data Management Section

Prepared By:

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May 1995

Thirteenth Year - Data from Benthic Monitoring Studies

December 1993 - August 1994

This report contains the data collected under the Thirteenth Year Benthic Monitoring Project (Project III) of the Hart-Miller Island Environmental Assessment Program. A series of three cruises were conducted aboard the University of Maryland research vessels RV Orion and RV Aquarius on December 13, 1993, April 11, 1994, and August 8, 1994.

On the three cruises we were able to reach all of the stations, illustrated in Figure 1 (Chesapeake Biological Lab - Station Designations). Five stations with the HM prefix (HM 7, 9, 16, 22, 26) are benthic infaunal reference sites, and have been sampled since the inception of the project. The eight stations with the S prefix positioned around the perimeter of the island represent the nearfield experimental infaunal stations. Four additional benthic infaunal stations (G5, G25, G84, and HM12) were added successively over the course of the ninth sampling year in response to findings of the sedimentary group from Maryland Geological Survey that an enrichment in Zinc has occurred in the sediments at these stations, which could potentially be a result of effluent discharge. As of April, 1994, station G84 was dropped because it no longer appears to be enriched with zinc. This station has also been dropped from sedimentary sampling by the Maryland Geological Survey group. The four stations with the R prefix are epifaunal sampling sites, and consist of various piers/pilings at four locations around the island and at a reference piling (station) located to the southwest of the Hart-Miller Island Dredged Material Containment Facility (HMI).

The benthic infaunal samples (HM, S, and G - in Fig. 1) were obtained with a 0.05 m^2 Ponar grab. Three replicate samples were obtained at each station. These samples were individually washed on a 0.5 mm mesh-opening screen. Samples were preserved in a solution of 10% seawater/formalin with rose bengal stain. The samples were rinsed back at the laboratory on a 0.5 mm sieve and stored in 70% ethyl alcohol until the organisms could be picked, sorted and identified. The epibenthic samples were obtained by scraping a qualitative sample with a specially designed aluminum piling sampler from concrete or wood pilings located at dolphins or fishing piers around the perimeter of the island within about 50 feet of the stone riprap wall of HMI. The metal pole on a navigational beacon at the Pleasure Island Channel served as a Reference site (R5). Two samples were collected at each piling, one sample was taken at about 1-1.3 m below the surface and a second at 2.5-3 m below the water surface.

Individual specimens in the samples were identified to the lowest taxonomic unit possible. The attached sheets present the

actual number of individuals recorded for each of the three replicate samples at the quantitative reference (HM) and nearfield (S) stations. Colonial forms and qualitative epibenthic samples (R) were classified to three densities, very abundant (1), abundant or common (2), and present (3). These qualitative designations are recorded on the data sheets for the four epibenthic stations.

Additional ecological data on the sheets includes information on time of sampling, depth recorded (from the ships fathometer), tidal state (E = ebb, F = flood, H = high slack, L = low slack) and weather conditions (see Table 1 for the code). Both temperature and salinity were measured on the surface and the bottom with Hydrolab's Surveyor 3 system and are presented in Table 2 for the various stations on the different sampling dates. Table 2 also lists the State of Maryland designations for each of the sampling stations.

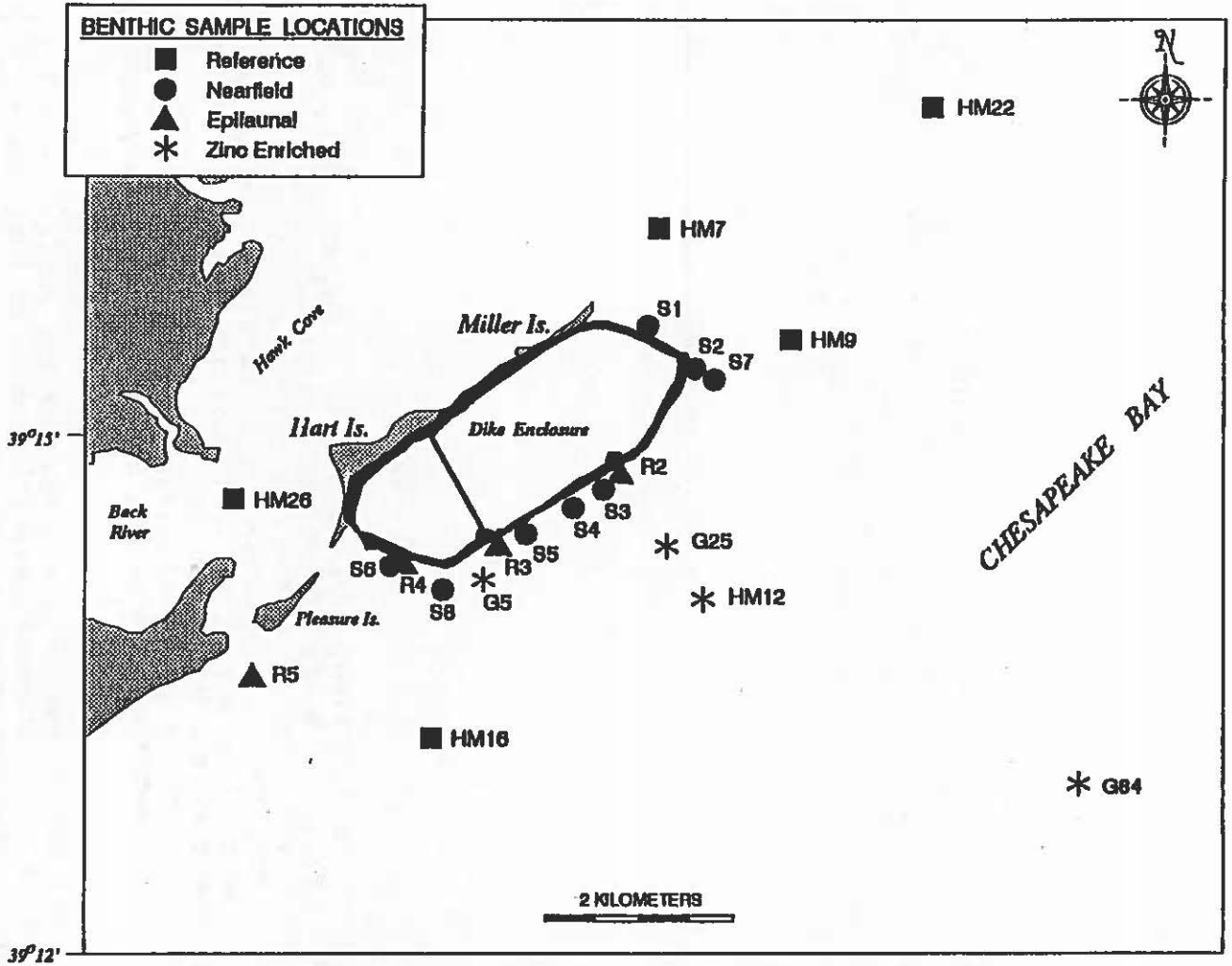

Figure 1. Benthic infaunal and epifaunal sampling station locations at HMI. University of Maryland, Chesapeake Biological Laboratory designations.

TABLE 1: WEATHER CODES FOR BENTHIC DATA SHEETS - this is a one (1) digit numeric value which describes the weather conditions at the time the sample was collected.

0- clear (no clouds)

1- partly cloudy

2- continuous layers of clouds

3 blowing snow, sandstorm or dust storm

4- fog, haze, or thick dust

5- drizzle

6- rain

7- snow, or rain and snow mixed

8- showers

9- thunderstorms

-- blank, not recorded

TABLE 2: Salinity (in parts/thousand-0/00), temperature (in degrees centigrade-oC), and depth (in feet-ft.) for the 22 stations on the three collection dates during the Thirteenth Year of monitoring studies at HMI.

CBL STA. ID	STATE STA. #	DECEMBER 93 DEPTH	DECEMBER 93 TEMP.	DECEMBER 93 SAL.	APRIL 94 DEPTH	APRIL 94 TEMP.	APRIL 94 SAL.	AUGUST 94 DEPTH	AUGUST 94 TEMP.	AUGUST 94 SAL.
R2	X1F4813	0	3.85	2.2	0	13.2	0.4	0	25.78	1.8
R2	X1F4813	10	3.96	2.2	**NR	NR	NR	11	25.52	1.8
R3	X1F4514	0	4.49	2.4	NR	NR	NR	NR	NR	NR
R3	X1F4514	16	4.58	2.5	NR	NR	NR	NR	NR	NR
R4	XIF4518	0	3.46	2.6	NR	NR	NR	NR	NR	NR
R4	XIF4518	10	3.4	2.6	NR	NR	NR	NR	NR	NR
R5	XIF3638	0	2.8	2.4	0	13.16	0.3	0	26.46	2.2
R5	XIF3638	6	2.81	2.4	NR	NR	NR	NR	NR	NR
S1	XIF5710	0	3.69	1.7	0	12.65	0.3	0	25.26	1.9
S1	XIF5710	7	3.59	1.7	7	12.62	0.3	6	25.23	1.9
S2	XIF5406	0	3.24	1.6	0	12.32	0.2	0	25.16	1.9
S2	XIF5406	12	3.23	1.6	12	12.17	0.2	12	24.91	1.9
S3	XIF4811	0	3.93	1.4	0	12.53	0.2	0	24.7	2.7
S3	XIF4811	19	3.62	2	16	12.35	0.4	16	25.19	2.8
S4	XIF4715	0	3.89	1.8	0	11.97	0.3	0	25.59	2.4
S4	XIF4715	16	3.78	2.1	15	11.86	0.3	14	25.17	2.8
S5	XIF4420	0	3.95	2	0	11.08	0	0	23.63	2.7
S5	XIF4420	23	4.67	2.6	19	11.02	0.1	21	25.54	3.2
S6	XIF4327	0	4.54	2.3	0	11.83	0.3	0	25.34	2.6
S6	XIF4327	16	4.55	2.4	12	11.69	0.3	11	25.08	2.8
S7	XIG5405	0	3.15	1.8	0	12.3	0.2	0	25.31	1.9
S7	XIG5405	15	3.17	1.9	15	12.24	0.2	13	25.18	2.7
S8	XIF4124	0	4.37	2	0	11.39	0.1	0	25.19	2.4
S8	XIF4124	18	4.78	3	15	11.51	0.2	15	25.49	3.1
HM7	XIF6388	0	3.77	1.2	0	13.49	0.2	0	25.27	1.9
HM7	XIF6388	13	3.62	1.3	11	12.19	0.2	10	24.87	1.9
HM9	XIF5297	0	4.58	0.8	0	11.9	0.1	0	25.47	2.3
HM9	XIF5297	18	3.75	1.8	17	11.77	0.1	16	25.19	2.6
HM12	XIF5805	0	4.8	0.5	0	9.75	0.1	0	25.62	3.1
HM12	XIF5805	19	6	4.4	17	9.67	0.1	16	25.07	3.1
HM16	XIF3325	0	4.9	1.8	0	10.53	0.1	0	25.93	2.9
HM16	XIF3325	25	6.2	5.9	19	10.37	0.1	16	25.23	3.4
HM22	XIG7689	0	3.31	0.6	0	11.77	0.1	0	25.07	1.9
HM22	XIG7689	13	3.23	0.6	12	11	0.1	12	24.93	2
HM26	XIF5145	0	3.16	2.1	0	14	0.5	0	25.01	2.3
HM26	XIF5145	18	3.7	3.1	15	13.43	0.5	13	24.91	2.3
G5	XIF4221	0	4.24	2	0	10.82	0.1	0	24.97	2.7
G5	XIF4221	19	4.72	3.1	15	11	0.1	17	25.51	3.2
G25	XIF4405	0	3.75	1.5	0	11.83	0.2	0	24.79	2.8
G25	XIF4405	18	3.66	1.8	19	11.67	0.2	17	25.47	3.2
G84	XIG3570	0	4.86	1.3	**NS	NS	NS	NS	NS	NS
G84	XIG3570	20	6.76	7	NS	NS	NS	NS	NS	NS

*NS= NOT SAMPLED **NR= NOT RECORDED

Should be 4426

Benthic Organism Data

- STATION=XIF3325 DATE=08AUG94 TIME=924 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3913170 LONG=7622300 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	44
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	55
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	12
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	72
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	50
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	19
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	16
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	24
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	61
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	73
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	62
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	13
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	3

STATION=XIF3325 DATE=11APR94 TIME=1000 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3913170 LONG=7622300 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	4

- STATION=XIF3325 DATE=11APR94 TIME=1000 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3913170 LONG=7622300 TIDE=EBB WEATHER=PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	55
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	128
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	70
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	33
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	32
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	23
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	188
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	115
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	213
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	2

------ STATION=XIF3325 DATE=13DEC93 TIME=1552 DEPTH=25 COUNTY=BA BASIN=2139997 LAT=3913170 LONG=7622300 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	6

---- STATION=XIF3325 DATE=13DEC93 TIME=1552 DEPTH=25 COUNTY=BA BASIN=2139997 LAT=3913170 LONG=7622300 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	15
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	17
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	18
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	276
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	160
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	287
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1

- STATION=XIF3638 DATE=08AUG94 TIME=1446 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3913370 LONG=7623470 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	2

- STATION=XIF3638 DATE=08AUG94 TIME=1446 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3913370 LONG=7623470 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	154	ESTDNSTY	1	3

--- STATION=XIF3638 DATE=08AUG94 TIME=1446 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3913370 LONG=7623470 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	2

--- STATION=XIF3638 DATE=11APR94 TIME=1600 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3913370 LONG=7623470 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	3

--- STATION=XIF3638 DATE=11APR94 TIME=1600 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3913370 LONG=7623470 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	3

------- STATION=XIF3638 DATE=13DEC93 TIME=845 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3913370 LONG=7623470 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	2

----- STATION=XIF3638 DATE=13DEC93 TIME=845 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3913370 LONG=7623470 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GARVEIA FRANCISCANA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2

- STATION=XIF4124 DATE=08AUG94 TIME=945 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3914080 LONG=7622240 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	15
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	58
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	39
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	16
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	12
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	20
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	17
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	113
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	84
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	92
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	9

--- STATION=XIP4124 DATE=08AUG94 TIME=945 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3914080 LONG=7622240 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	9

- STATION=XIP4124 DATE=11APR94 TIME=1048 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3914080 LONG=7622240 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	66
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	48
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	39
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	18
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	10
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	22
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	52
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	137
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	106
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1

---- STATION=XIF4124 DATE=13DEC93 TIME=1527 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914080 LONG=7622240 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	126
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	115
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	157
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2

-- STATION=XIF4327 DATE=08AUG94 TIME=954 DEPTH=11 COUNTY=BA BASIN=2139997 LAT=3914170 LONG=7622410 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	24
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	32
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	23

--- STATION=XIF4327 DATE=08AUG94 TIME=954 DEPTH=11 COUNTY=BA BASIN=2139997 LAT=3914170 LONG=7622410 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	11
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	12
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	19
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	51
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	53
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	44
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	9

- STATION=XIF4327 DATE=11APR94 TIME=1024 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3914170 LONG=7622410 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	79

STATION=XIF4327 DATE=11APR94 TIME=1024 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3914170 LONG=7622410 TIDE=EBB WEATHER=PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	99
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	88
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	22
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	22
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	16
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	56
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	83
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	73
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1

---- STATION=XIF4327 DATE=13DEC93 TIME=1541 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914170 LONG=7622410 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	19

------ STATION=XIF4327 DATE=13DEC93 TIME=1541 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914170 LONG=7622410 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	24
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	SOFTSHELL CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	37
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	32
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	22
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1

-- STATION=XIF4420 DATE=08AUG94 TIME=1015 DEPTH=21 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7622000 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	25
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	23
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	11

STATION=XIF4420 DATE=08AUG94 TIME=1015 DEPTH=21 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7622000 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	13
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	15
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	46
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	66
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	35
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	6

STATION=XIF4420 DATE=11APR94 TIME=1112 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914230 LONG=7622000 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	1628
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	1216
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	1179
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	79
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	31
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	17
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	90
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	49
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	47
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	25

- STATION-XIP4420 DATE-11APR94 TIME-1112 DEPTH-19 COUNTY-BA BASIN-2139997 LAT-3914230 LONG-7622000 TIDE-EBB WEATHER-PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	27
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	36
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	31

------ STATION-XIP4420 DATE-13DEC93 TIME-1500 DEPTH-23 COUNTY-BA BASIN-2139997 LAT-3914230 LONG-7622000 TIDE- WEATHER-CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	86
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	61
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	148
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	13
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	1

STATION=XIF4426 DATE=08AUG94 TIME=1005 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3914250 LONG=7622360 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	71
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	28
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	34
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	12
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	12
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	16
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	23
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	121
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	62
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	82
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	10
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	15

XIF4426 Year 13. Compares with XIF4426 in Year 9 Report. Lat/long agree, see page 192 STATION is given as G5 in Year 9 Report.

STATION=XIF4426 DATE=11APR94 TIME=1100 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3914250 LONG=7622360 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	426
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	685
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	620

- STATION-XIP4426 DATE-11APR94 TIME-1100 DEPTH-15 COUNTY-BA BASIN-2139997 LAT-3914250 LONG-7622360 TIDE-EBB WEATHER-PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	20
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1

120

----- STATION-XIP4426 DATE-13DEC93 TIME-1515 DEPTH-19 COUNTY-BA BASIN-2139997 LAT-3914250 LONG-7622360 TIDE- WEATHER-CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	27
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	29
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	23
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3

---- STATION=XIF4426 DATE=13DEC93 TIME=1515 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914250 LONG=7622360 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	36
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	18
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	123
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	166
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	166
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1

- STATION=XIF4514 DATE=08AUG94 TIME=1408 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621230 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	2

- STATION=XIF4514 DATE=08AUG94 TIME=1408 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621230 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GARVEIA FRANCISCANA	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	154	ESTDNSTY	1	2

--- STATION=XIF4514 DATE=08AUG94 TIME=1408 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621230 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	2

--- STATION=XIF4514 DATE=11APR94 TIME=1535 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621230 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	2

--- STATION=XIF4514 DATE=11APR94 TIME=1535 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621230 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	2

----- STATION=XIF4514 DATE=13DEC93 TIME=940 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621230 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	1

----- STATION=XIF4514 DATE=13DEC93 TIME=940 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914320 LONG=7621230 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	3

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- STATION=XIF4518 DATE=08AUG94 TIME=1426 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914280 LONG=7621500 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	GARVEIA FRANCISCANA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1

- STATION=XIF4518 DATE=08AUG94 TIME=1426 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914280 LONG=7621500 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1

--- STATION=XIF4518 DATE=08AUG94 TIME=1426 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914280 LONG=7621500 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	2

--- STATION=XIF4518 DATE=11APR94 TIME=1550 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914280 LONG=7621500 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	154	ESTDNSTY	1	3

--- STATION=XIF4518 DATE=11APR94 TIME=1550 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914280 LONG=7621500 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2

------- STATION=XIF4518 DATE=13DEC93 TIME=920 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914280 LONG=7621500 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1

----- STATION=XIF4518 DATE=13DEC93 TIME=920 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914280 LONG=7621500 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2

STATION=XIF4712 DATE=08AUG94 TIME=1027 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3914420 LONG=7621100 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	100
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	62
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	110
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	24
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	25
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	31
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	3	15
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1

-- STATION=XIF4712 DATE=08AUG94 TIME=1027 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3914420 LONG=7621100 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	42
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	34
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	52

- STATION=XIF4712 DATE=11APR94 TIME=1130 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914420 LONG=7621100 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	293
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	408
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	356
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	19
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	47

STATION-XIP4712 DATE-11APR94 TIME-1130 DEPTH-19 COUNTY-BA BASIN-2139997 LAT-3914420 LONG-7621100 TIDE-EBB WEATHER-PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	5

---- STATION-XIP4712 DATE-13DEC93 TIME-1320 DEPTH-18 COUNTY-BA BASIN-2139997 LAT-3914420 LONG-7621100 TIDE- WEATHER-CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	49
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	24
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	14
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	64
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	63
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	33

-- STATION=XIF4715 DATE=08AUG94 TIME=1051 DEPTH=14 COUNTY=BA BASIN=2139997 LAT=3914400 LONG=7621280 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	45
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	121
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	17
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	23
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	24
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	24
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	15
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	13
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	27
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	2

- STATION=XIF4715 DATE=11APR94 TIME=1215 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3914400 LONG=7621280 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1

STATION=XIF4715 DATE=11APR94 TIME=1215 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3914400 LONG=7621280 TIDE=EBB WEATHER=PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	546
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	181
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	247
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	16
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	14
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	24
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	28
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	38
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	27
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	18

---- STATION=XIF4715 DATE=13DEC93 TIME=1345 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914400 LONG=7621280 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	76
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	65
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	17
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	1

------ STATION=XIF4715 DATE=13DEC93 TIME=1345 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914400 LONG=7621280 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	14
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	2	10
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	28
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	12
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	54
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	64

-- STATION=XIF4739 DATE=08AUG94 TIME=1227 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7623550 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	20
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	61
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	3	6

STATION=XIF4739 DATE=08AUG94 TIME=1227 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7623550 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	34
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	17
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	39
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	63
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	42
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	25
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	38
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	76

ATION=XIF4739 DATE=11APR94 TIME=1413 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7623550 TIDE=FLOOD WEATHER=PARTLY CLOUDY

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	201
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	229
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	187
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	200
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	637
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	415
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	7

STATION-XIF4739 DATE-11APR94 TIME-1413 DEPTH-15 COUNTY-BA BASIN-2139997 LAT-3914390 LONG-7623550 TIDE-FLOOD WEATHER-PARTLY CLOUDY
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	29
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	29
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	5

------ STATION-XIF4739 DATE-13DEC93 TIME-1135 DEPTH-18 COUNTY-BA BASIN-2139997 LAT-3914390 LONG-7623550 TIDE- WEATHER-CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	37
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	45
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	24
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	71
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	92
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	112

---- STATION=XIF4739 DATE=13DEC93 TIME=1135 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3914390 LONG=7623550 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	27
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	23
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	28
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	6

STATION=XIF4811 DATE=08AUG94 TIME=1100 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914500 LONG=7621070 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	49
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	52
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	90
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	2	7

-- STATION=XIF4811 DATE=08AUG94 TIME=1100 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914500 LONG=7621070 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	24
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	28
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	25
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	19
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	77
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	80
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	76
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	10
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1

- STATION=XIF4811 DATE=11APR94 TIME=1237 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914500 LONG=7621070 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	165
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	142
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	205
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	15

STATION-XIF4811 DATE-11APR94 TIME-1237 DEPTH-16 COUNTY-BA BASIN-2139997 LAT-3914500 LONG-7621070 TIDE-EBB WEATHER-PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	20
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	10
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	12
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	55
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	18
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	27
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	2

---- STATION-XIF4811 DATE-13DEC93 TIME-1335 DEPTH-19 COUNTY-BA BASIN-2139997 LAT-3914500 LONG-7621070 TIDE- WEATHER-CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	45
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	13
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	43
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	5

------ STATION=XIF4811 DATE=13DEC93 TIME=1335 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914500 LONG=7621070 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	18
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	21
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	26
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	4

--- STATION=XIF4813 DATE=08AUG94 TIME=1342 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7621160 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1

--- STATION=XIF4813 DATE=08AUG94 TIME=1342 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7621160 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1

- STATION=XIF4813 DATE=11APR94 TIME=1520 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7621160 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	3

- STATION=XIF4813 DATE=11APR94 TIME=1520 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7621160 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	1

--- STATION=XIF4813 DATE=13DEC93 TIME=950 DEPTH=3 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7621160 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CORDYLOPHORA CASPIA	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	3

----- STATION=XIF4813 DATE=13DEC93 TIME=950 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7621160 TIDE= WEATHER=CLEAR --------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	GARVEIA FRANCISCANA	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3

------- STATION=XIP4813 DATE=13DEC93 TIME=950 DEPTH=8 COUNTY=BA BASIN=2139997 LAT=3914460 LONG=7621160 TIDE= WEATHER=CLEAR --------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	154	ESTDNSTY	1	1
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MUD CRAB	NO-OF-IND	154	ESTDNSTY	1	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	154	ESTDNSTY	1	2
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	154	ESTDNSTY	1	3

------ STATION=XIG2560 DATE=13DEC93 TIME=1250 DEPTH=20 COUNTY=BA BASIN=2139997 LAT=3912900 LONG=7616600 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	18
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	13
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	11
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	6
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	22
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	19
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	22
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	28
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	19
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	25
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	97

---- STATION=XIG2560 DATE=13DEC93 TIME=1250 DEPTH=20 COUNTY=BA BASIN=2139997 LAT=3912900 LONG=7616600 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	104
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	137
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1

STATION=XIG4104 DATE=08AUG94 TIME=1039 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7620210 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	39
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	50
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	39
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	25
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	15
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	15
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	17
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	16
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	26
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1

-- STATION=XIG4104 DATE=08AUG94 TIME=1039 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7620210 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	2

- STATION=XIG4104 DATE=11APR94 TIME=1150 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7620210 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	158
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	160
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	107
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	31
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	11
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	13
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	42
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	41

STATION=XIG4104 DATE=11APR94 TIME=1150 DEPTH=17 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7620210 TIDE=EBB WEATHER=PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	50
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	1

---- STATION=XIG4104 DATE=13DEC93 TIME=1310 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7620210 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	15
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	12
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	PADDLE WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	20
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	17
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	SOFTSHELL CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	7

------ STATION=XIG4104 DATE=13DEC93 TIME=1310 DEPTH=19 COUNTY=BA BASIN=2139997 LAT=3914050 LONG=7620210 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	18
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	21
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	89
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	2

-- STATION=XIG5405 DATE=08AUG94 TIME=1112 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915230 LONG=7620280 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	131
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	36
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	47
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	11
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1

STATION=XIG5405 DATE=08AUG94 TIME=1112 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3915230 LONG=7620280 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	2

STATION=XIG5405 DATE=11APR94 TIME=1324 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3915230 LONG=7620280 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	481
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	550
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	773
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	17
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	16
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	51
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	74
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	72

------ STATION=XIG5405 DATE=13DEC93 TIME=1008 DEPTH=15 COUNTY=BA BASIN=2139997 LAT=3915230 LONG=7620280 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1

-- STATION=XIG5406 DATE=08AUG94 TIME=1130 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915250 LONG=7620350 TIDE= WEATHER=PARTLY CLOUDY ---

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SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	146
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	157
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	24
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	23
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	19
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	17
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	3

STATION-XIG5406 DATE-08AUG94 TIME-1130 DEPTH-12 COUNTY-BA BASIN-2139997 LAT-3915250 LONG-7620350 TIDE- WEATHER-PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	17
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	23

STATION-XIG5406 DATE-11APR94 TIME-1331 DEPTH-12 COUNTY-BA BASIN-2139997 LAT-3915250 LONG-7620350 TIDE-EBB WEATHER-PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	340
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	208
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	854
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	55
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	23
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	59
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	29
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	2	9
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	3	10
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	WHITE BARNACLE	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	CASSIDINIDEA LUNIFRONS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CASSIDINIDEA LUNIFRONS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	79

- STATION=XIG5406 DATE=11APR94 TIME=1331 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915250 LONG=7620350 TIDE=EBB WEATHER=PARTLY CLOUDY --
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	62
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	103
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	128
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	135
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	159

------ STATION=XIG5406 DATE=13DEC93 TIME=1020 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915250 LONG=7620350 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	FLAT WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	16
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	23
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	12
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	16
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	18
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	12
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	1	17
GRAB	BIOTA	BARNACLE	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CASSIDINIDEA LUNIFRONS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	21
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	1

---- STATION=XIG5406 DATE=13DEC93 TIME=1020 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3915250 LONG=7620350 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	86
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	28
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	22

STATION=XIG5699 DATE=08AUG94 TIME=1120 DEPTH=16 COUNTY=BA BASIN=2139997 LAT=3915330 LONG=7619530 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	127
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	145
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	120
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	26
GRAB	BIOTA	PLATFORM MUSSEL	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	13
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	12
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	16
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	20
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	50

-- STATION-XIG5699 DATE-08AUG94 TIME-1120 DEPTH-16 COUNTY-BA BASIN-2139997 LAT-3915330 LONG-7619530 TIDE- WEATHER-PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	61

STATION-XIG5699 DATE-11APR94 TIME-1507 DEPTH-17 COUNTY-BA BASIN-2139997 LAT-3915330 LONG-7619530 TIDE-FLOOD WEATHER-PARTLY CLOUDY

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	435
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	346
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	481
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	19
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	27
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	45
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	54

---- STATION=XIG5699 DATE=13DEC93 TIME=1230 DEPTH=18 COUNTY=BA BASIN=2139997 LAT=3915330 LONG=7619530 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	11
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	41
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	14
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	19
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	28
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	25
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	16
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	MUD CRAB	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	28
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	2	43
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	3	20

- STATION=XIG5700 DATE=08AUG94 TIME=1139 DEPTH=6 COUNTY=BA BASIN=2139997 LAT=3915390 LONG=7620570 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	30
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	13
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	98
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	1

--- STATION=XIG5700 DATE=08AUG94 TIME=1139 DEPTH=6 COUNTY=BA BASIN=2139997 LAT=3915390 LONG=7620570 TIDE= WEATHER=PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	10
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	8
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	3

-- STATION=XIG5700 DATE=11APR94 TIME=1345 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915390 LONG=7620570 TIDE=EBB WEATHER=PARTLY CLOUDY --

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	570
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	429
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	419
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	5

------- STATION=XIG5700 DATE=13DEC93 TIME=1030 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915390 LONG=7620570 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1

----- STATION=XIG5700 DATE=13DEC93 TIME=1030 DEPTH=7 COUNTY=BA BASIN=2139997 LAT=3915390 LONG=7620570 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	CASSIDINIDEA LUNIFRONS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	3	3

STATION=XIG6089 DATE=08AUG94 TIME=1152 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3916580 LONG=7618510 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	60
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	37
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	89
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	9
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	2	14
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	12
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	12
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	11
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	19

-- STATION-XIG6089 DATE-08AUG94 TIME-1152 DEPTH-12 COUNTY-BA BASIN-2139997 LAT-3916580 LONG-7618510 TIDE- WEATHER-PARTLY CLOUDY ---
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	14
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	19
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	2

STATION-XIG6089 DATE-11APR94 TIME-1445 DEPTH-12 COUNTY-BA BASIN-2139997 LAT-3916580 LONG-7618510 TIDE-FLOOD WEATHER-PARTLY CLOUDY

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	103
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	165
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	77
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	10
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	8
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	11
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	GAMMARUS TIGRINUS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	3

ATION=XIG6089 DATE=11APR94 TIME=1445 DEPTH=12 COUNTY=BA BASIN=2139997 LAT=3916580 LONG=7618510 TIDE=FLOOD WEATHER=PARTLY CLOUDY
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1

---- STATION=XIG6089 DATE=13DEC93 TIME=1215 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3916580 LONG=7618510 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	13
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	7
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	12
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	17
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	2
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	1

-- STATION=XIG6308 DATE=08AUG94 TIME=1207 DEPTH=10 COUNTY=BA BASIN=2139997 LAT=3916150 LONG=7620500 TIDE= WEATHER=PARTLY CLOUDY ---

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	41
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	28
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	40
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	1	59
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	2	74
GRAB	BIOTA	HYDROBIA SP	NO-OF-IND	64	COUNT	3	60
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	11
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	14
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	9
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	16
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	18
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	15
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	CHIRODOTEA ALMYRA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	EDOTEA TRILOBA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	45
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	81
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	52
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	6
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	8
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	3	5
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	7
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	7
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	14
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1

STATION=XIG6308 DATE=11APR94 TIME=1432 DEPTH=11 COUNTY=BA BASIN=2139997 LAT=3916150 LONG=7620500 TIDE=FLOOD WEATHER=PARTLY CLOUDY

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MICRURA LEIDYI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	50
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	81
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	83

ATION=XIG6308 DATE=11APR94 TIME=1432 DEPTH=11 COUNTY=BA BASIN=2139997 LAT=3916150 LONG=7620500 TIDE=FLOOD WEATHER=PARTLY CLOUDY
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	11
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	14
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	35
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	26
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	3
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	3	3

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---- STATION=XIG6308 DATE=13DEC93 TIME=1200 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3916150 LONG=7620500 TIDE= WEATHER=CLEAR -------

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	1	5
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	HETEROMASTUS FILIFORMIS	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	CLAM WORM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	1	4
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	GREEN WORM	NO-OF-IND	64	COUNT	3	3
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	STREBLOSPIO BENEDICTI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	POLYDORA LIGNI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	PELOSCOLEX SP	NO-OF-IND	64	COUNT	2	4
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	1	3
GRAB	BIOTA	BRACKISH WATER CLAM	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	BALTHIC CLAM	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	1	2

------ STATION=XIG6308 DATE=13DEC93 TIME=1200 DEPTH=13 COUNTY=BA BASIN=2139997 LAT=3916150 LONG=7620500 TIDE= WEATHER=CLEAR -------
(continued)

SAMPLING METHOD	MEDIA	SPECIES	PARAMETER	METHOD	UNITS	GRAB NUMBER	VALUE
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	2	6
GRAB	BIOTA	MITCHELLS CLAM	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	2	5
GRAB	BIOTA	CYATHURA POLITA	NO-OF-IND	64	COUNT	3	4
GRAB	BIOTA	COROPHIUM LACUSTRE	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	1	32
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	2	23
GRAB	BIOTA	LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	64	COUNT	3	12
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	2	1
GRAB	BIOTA	MELITA NITIDA	NO-OF-IND	64	COUNT	3	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	MONOCULODES EDWARDSI	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	1	2
GRAB	BIOTA	UNIDENTIFIED CHIRONOMID LARVAE	NO-OF-IND	64	COUNT	2	2
GRAB	BIOTA	MEMBRANIPORA TNUIS	NO-OF-IND	64	COUNT	1	1
GRAB	BIOTA	VICTORELLA PAVIDA	NO-OF-IND	64	COUNT	1	1

CONTAMINANTS IN BENTHIC TISSUE SAMPLES

Assessment of Lab Performance on Metals

Provided below is an assessment of the laboratories analytical performance on metals in the 13th Year tissue samples. Tables 1 and 2 are attached for reference as they summarize the quality control data used in the assessment. Two data reports are provided. Order number 94-11-588 presents the 13th Year tissue data and order number 94-11-587 presents data from standard reference material 1566a for metals in tissue. The tissue data report also includes sample weights and additional quality control and method information provided by the laboratory. Further information on the analytical approach and quality control procedures are presented in Section 1 within the Benthic Tissue and Sediment Analysis Laboratory Work Plan.

The tissue samples were analyzed for the following metals: arsenic, cadmium, chromium, copper, iron, manganese, nickel and zinc. A description of the methods can be found towards the end of the tissue data report.

Metal Results

Results of the external quality control sample (SRM 1566a) for metals in tissue were acceptable and within the specified control limits for all metals analyzed. Table 1 presents metals results on the SRM during tissue sample analysis and during instrument set-up and optimization (pre-testing). During pre-testing the laboratory had low results on two of six replicates for chromium and nickel. However, during testing of the tissue samples, the chromium and nickel results for the SRM were within control limits along with the other metals.

To demonstrate method precision, the laboratory analyzed the SRM in duplicate. The relative percent differences (RPD's) on the duplicates were excellent, ranging from 0 to 5 % for all metals analyzed. To demonstrate method precision on the tissue samples, the laboratory analyzed tissues G25-1 and HM12-1 in duplicate. Although the results were generally acceptable, the RPD's between the tissue duplicates were not as good as those on the dry tissue SRM sample. The RPD's on the tissue samples, presented in Table 2, ranged from 1 to 55 %. The laboratory felt that the higher RPD's are explained by the inherent difficulty in achieving true sample homogeneity for the small volume wet tissue digests. In addition, some of the metal results, i.e. cadmium, were close to parameter detection limit which resulted in higher variability in the determinations.

To assess method accuracy, the laboratory spiked tissue samples G25-1 and HM12-1 with known concentrations of the target analyte metals. The percent recoveries, presented in Table 2, were acceptable and within control limits for all parameters except manganese on sample duplicate HM12-1. The laboratory could not fully explain the high recovery for this parameter, other than it may have been due to contamination during sample preparation.

BENTHIC TISSUE SAMPLES - 13TH YEAR HMI EXTERIOR MONITORING

Assessment of Lab Performance on Organics

Provided below is an assessment of the laboratories performance on organics in the 13th Year tissue samples. Tables 3, 4, and 5 are attached for reference as they summarize the quality control data used in the assessment. Two data reports follow the tables. Report number 94-11-592 provides results on the 13th Year tissue samples, and report number 94-11-590 provides results on quality control (QC) sample analysis. The QC samples include matrix spike information on a lab prepared reference material (ALPOH) and replicate analysis of the following EPA reference materials: QC C-4 for pesticide compounds, and QC PCB for PCB compounds. Further information on the analytical approach and quality control procedures are presented in Section 1 within the Benthic Tissue and Sediment Analysis Laboratory Work Plan.

The tissue samples were analyzed for lipid content and semi-volatiles and pesticides/PCB compounds. The laboratory followed procedures described in the NOAA Technical Memorandum NOS ORCA 71, GERG Trace Organic Contaminant Analytical Techniques, July 1993 for method preparation and clean-up on the organic compounds. The analytical methods used for analysis of the samples can be found on page 39 of the tissue data report.

Organic Results

Method performance for organics in tissue was evaluated through analysis of a lab-prepared oyster homogenate (ALPOH), since a certified tissue sample for the full list of organics was unavailable. The laboratory spiked an aliquot of the oyster homogenate with known concentrations of the analytes of interest. Replicates of both the oyster homogenate and the spike were then analyzed for semi-volatiles and pesticide compounds and the recoveries calculated. Results of the analysis are discussed below.

Semi-Volatile Compounds

Replicate spike recoveries for the ALPOH semi-volatile compounds are presented in Table 3. The recoveries, which ranged from 37 to 104%, were generally acceptable. The lowest recoveries of 37 to 49% occurred on the following compounds: dibenz[a,h] anthracene, indeno[1,2,3-cd]pyrene, and benzo[g,h,i]perylene. Similar recoveries were seen on spikes of tissue samples G25-1 and HM12-1. These recoveries, presented in Table 5, ranged from 54 to 145%. The lowest recoveries of 54 to 59% were observed for the same low recovery compounds on the ALPOH sample. The highest recovery of 145% was reported on bis(2-ethylhexyl) phthalate. It is believed that there may have been a contaminant source introduced through laboratory reagents and/or glassware since this compound was also detected in the lab extraction blank.

Examination of the spike recoveries revealed that the laboratory was within limits for the surrogate recovery compounds.

Pesticide Compounds

Table 4 presents replicate spike recoveries for the ALPOH pesticide compounds. The recoveries were generally low, ranging from 30 to 86%. Similar recoveries were observed on spikes of tissue samples G25-1 and HM12-1. These recoveries, presented in Table 5, ranged from 30 to 73%.

Low results were also observed on the EPA pesticide reference material, QC C-4. The results, the expected average concentration and the 95% confidence interval are presented in Table 4. Although the laboratory was within the 95% confidence interval for analysis of the pesticide reference material, the replicates varied greatly. In addition, the results were lower than the average results expected for these compounds.

The laboratory could not determine specific causes for the low recoveries encountered during the pesticide analysis other than attributing them to the involved and extensive sample preparation and clean-up procedures. The laboratory recommended limiting the number of clean-up steps to aide in improved recovery of the pesticide compounds. Unfortunately there was insufficient volume remaining for the laboratory re-analyze the pesticide compounds.

PCB Compounds

In an effort to assess method performance on the PCB compounds, the laboratory analyzed reference material EPA QC PCB. The results, the expected average concentration and the 95% confidence interval are presented in Table 4. Although the results were within the 95% confidence interval for the three PCB compounds tested, and the replicates were fairly good, the results were low in comparison with the average expected concentrations for each compound.

SEDIMENT SAMPLES - 13TH YEAR HMI EXTERIOR MONITORING

Assessment of Lab Performance on Organics

Provided below is an assessment of the laboratories performance on organics in the 13th Year sediment samples. Tables 6 through 9 are attached for reference as they summarize the quality control data used in the assessment. Two data reports follow the tables. Report number 94-11-591 provides results on the 13th Year sediment samples, and report number 94-11-589 provides results on quality control (QC) reference samples. The QC report includes semi-volatile results for SRM 1941A and semi-volatile and pesticide results on SRM HS-5. Further information on the analytical approach and quality control procedures are presented in Section 1 within the Benthic Tissue and Sediment Analysis Laboratory Work Plan.

The sediment samples were analyzed for percent solids, carbon, hydrogen and nitrogen content, semi-volatiles and pesticides/PCB compounds. The laboratory followed procedures described in the NOAA Technical Memorandum NOS ORCA 71, GERG Trace Organic Contaminant Analytical Techniques, July 1993 for method preparation and clean-up on the organic compounds. The analytical methods used for analysis of the samples can be found on page 42 of the sediment data report.

Organic Results

Method validation for organics in sediment was evaluated through analysis of reference materials 1941A and HS-5. The reference materials (SRM's) were analyzed prior to the 13th Year sediment samples for method validation and instrument set-up. The results of the pre-test SRM analysis is presented below in addition to results on sediment quality control analysis.

Semi-Volatile Compounds

Presented in Table 6 are pre-test results and spike recoveries on SRM 1941A for the semi-volatile compounds. The SRM was analyzed prior to the sediment samples for method validation purposes. Results indicate that the laboratory was outside the established acceptance limits on roughly one third of the certified compounds analyzed. This included low values for naphthalene and fluorene and high values for acenaphthylene, chrysene, benzo[k]- fluoranthene and dibenzo[a,h]anthracene. The SRM was spiked in triplicate and recoveries were calculated. They ranged from 42 to 141% for the certified semi-volatile compounds on SRM 1941A. The lowest recoveries were observed for naphthalene, indeno[1,2,3-cd]pyrene and benzo[g,h,i]perylene. Over-recoveries were observed on several of the non-certified phthalate compounds. These compounds were also detected in the lab extraction blank indicating a source of contamination in the reagents/glassware used during analysis of the SRM's.

The laboratory had similar results on pre-testing of SRM HS-5. Replicate data for the semi-volatile compounds is presented in Table 7. The laboratory was outside acceptance

limits on roughly one-third of the certified values of this SRM. Once again there was low recovery of naphthalene and fluorene in addition to acenapthene and indeno[1,2,3 - cd]pyrene.

The laboratory achieved somewhat better recoveries during analysis of the 13th year sediment samples. Sample WRA-34 was used as a quality control sample to assess matrix spike recoveries during analysis of the 13th Year samples. This information is presented in Table 9. The matrix spikes ranged from 52 to 108% with an over-recovery reported on di-n-butylphthalate. This compound was also detected in the lab extraction blank indicating a source of phthalate contamination from lab reagents/glassware used during sample analysis.

Pesticide Compounds

Table 8 presents replicate results and spike recoveries for SRM HS-5 on pesticides. The SRM was used only for method validation since it is not certified for pesticide compounds. Replicates of SRM HS-5 were analyzed and a separate aliquot spiked and analyzed to assess method recovery. The recoveries ranged from 45 to 115%. The lowest recoveries of 45 to 60% were observed on cis- and trans-chlordane and trans-nonachlor.

To assess method performance during testing of the 13th year sediment samples the laboratory spiked sample WRA-34. Matrix spike recoveries on the sample were much lower, ranging from 21 to 42 percent.

TABLE 1 METALS IN TISSUE – STANDARD REFERENCE MATERIAL 1566A
HART–MILLER ISLAND EXTERIOR MONITORING – 13TH YEAR SAMPLES
QUALITY CONTROL FOR METALS IN BENTHIC TISSUE

A:\tlsrm13.wk1 Date: 11/21/96

STANDARD REFERENCE MATERIAL (SRM) – PRETESTING RESULTS												
ELEMENT	NIST Certified Values		MES Limits (–/+) 20% NIST Values		* PRETEST VALUES FOR SRM 1566a				* PRETEST VALUES FOR SRM 1566a			
	mg/Kg	–/+	mg/Kg	mg/Kg	REP 1 mg/Kg	REP 2 mg/Kg	REP 3 mg/Kg	AVG mg/Kg	REP 1 mg/Kg	REP 2 mg/Kg	REP 3 mg/Kg	AVG mg/Kg
ARSENIC	14	1.2	10.24 –	18.2	13.4	13.9	13.0	13.4	14.6	13.8	12.8	13.7
CADMIUM	4.15	0.38	3.02 –	5.44	3.25	3.24	3.45	3.31	3.17	3.17	3.20	3.18
CHROMIUM	1.43	0.46	0.78 –	2.27	1.24	0.84	0.75	0.94	0.88	0.78	0.67	0.78
COPPER	66.3	4.3	49.60 –	84.7	58.5	58.0	59.8	59	62.7	56.2	57.5	58.8
IRON	539	15	419 –	665	540	503	471	505	545	495	479	506
MANGANESE	12.3	1.5	8.6 –	16.6	10.10	9.96	10.40	10.15	10.7	9.59	9.54	9.94
NICKLE	2.25	0.44	1.45 –	3.23	1.58	1.31	2.16	1.68	1.63	1.31	1.31	1.42
ZINC	830	57	618 –	1064	710	700	737	716	769	666	696	718

STANDARD REFERENCE MATERIAL (SRM) – DURING TEST RESULTS								
ELEMENT	NIST Certified Values		MES Limits (–/+) 20% NIST Values		* DURING TEST SRM 1566a			Relative Percent Difference
	mg/Kg	–/+	mg/Kg	mg/Kg	REP 1 mg/Kg	REP 2 mg/Kg	AVG mg/Kg	
ARSENIC	14	1.2	10.24 –	18.2	14.3	13.9	14.1	3
CADMIUM	4.15	0.38	3.02 –	5.44	3.53	3.64	3.59	3
CHROMIUM	1.43	0.46	0.78 –	2.27	0.85	0.81	0.83	5
COPPER	66.3	4.3	49.60 –	84.7	61.8	61.8	61.8	0
IRON	539	15	419 –	665	502	482	492	4
MANGANESE	12.3	1.5	8.6 –	16.6	10.4	10.0	10.2	4
NICKLE	2.25	0.44	1.45 –	3.23	2.35	2.33	2.34	1
ZINC	830	57	618 –	1064	747	724	736	3

NOTE: * THIS DATA IS TAKEN FROM ORDER NUMBER 94–11–567 & 94–11–568.

TABLE 2 METALS IN TISSUE – MATRIX SPIKE RESULTS
HART–MILLER ISLAND EXTERIOR MONITORING – 13TH YEAR SAMPLES
QUALITY CONTROL FOR METALS IN BENTHIC TISSUE

A:\tissrm13.wk1 Date: 11/21/96

DUPLICATE ANALYSIS: ORDER # 94–11588–05 OR SAMPLE G25–1 94474 RANGIA								
Element	Duplicate Analysis mg/Kg			Relative Percent Difference	Spike Concentration mg/Kg	SPIKE Recovery mg/Kg	Percent Recovery	Standard Methods (80%–120%)
	Replicate 1	Replicate 2	Average					
ARSENIC	0.84	1.1	0.97	27	13.66	15.42	106	Y
CADMIUM	0.28	0.16	0.22	55	13.66	11.93	86	Y
CHROMIUM	0.30	0.34	0.32	13	13.66	12.67	90	Y
COPPER	1.99	1.66	1.83	18	13.66	15.0	96	Y
IRON	47.5	53.3	50.4	12	13.66	63.4	95	Y
MANGANESE	11.6	11.9	11.8	3	13.66	26.7	109	Y
NICKLE	5.29	5.33	5.31	1	13.66	16.6	83	Y
ZINC	20.4	20.2	20.3	1	13.66	31.9	85	Y

DUPLICATE ANALYSIS: ORDER # 94–11588–06 OR SAMPLE HM12–1 94475 RANGIA								
Element	Duplicate Analysis mg/Kg			Relative Percent Difference	Spike Concentration mg/Kg	SPIKE Recovery mg/Kg	Percent Recovery	Standard Methods (80%–120%)
	Replicate 1	Replicate 2	Average					
ARSENIC	1.39	1.06	1.23	27	8.74	9.94	102	Y
CADMIUM	0.21	0.19	0.20	10	8.74	7.89	88	Y
CHROMIUM	0.34	0.26	0.30	27	8.74	8.47	93	Y
COPPER	2.30	1.87	2.09	21	8.74	10.38	95	Y
IRON	61.5	43.7	52.60	34	8.74	44.32	106	Y
MANGANESE	19.8	21.2	20.50	7	8.74	34.96	165	**N
NICKLE	6.89	7.97	7.43	15	8.74	16.21	101	Y
ZINC	20.0	21.1	20.55	5	8.74	28.74	94	Y

*The laboratory believed that the higher RPD's for this sample are explained by the difficulty in achieving true sample homogeneity for the wet tissue digests. The dry tissue SRM samples resulted in much lower RPD's. In addition, elements present in the SRM at levels at least 10 times the MDL had lower RPD's than elements present in the SRM at levels near the detection limit.

** The laboratory could not explain the apparent high recovery of Mn. It is possible that the sample was contaminated for this element during preparation.

NOTE: * THIS DATA IS TAKEN FROM ORDER NUMBER 94–11–587 & 94–11–588.

TABLE 3 ORGANICS IN TISSUE – Lab Prepared Reference Material, Semi–Volatile Compounds
HART–MILLER ISLAND EXTERIOR MONITORING – 13TH YEAR
QUALITY CONTROL RESULTS FOR ORGANICS IN TISSUE

c:\xmon\13thyr\13tlsorg.wk1 Date: 21–Nov–96

See Pages from order # 94–11–590

STANDARD REFERENCE MATERIALS	01A 6	01B 8	01C 10	02A 12	02B 14	02C 16			
LAB PREPARED OYSTER	Artesian Lab Prepared Oyster Homogenate (ALPOH)								
Semi–Volatile Parameters	ALPOH REP 1 mg/kg	ALPOH REP 2 mg/kg	ALPOH REP 3 mg/kg	SPIKE REP 1 mg/kg	SPIKE REP 2 mg/kg	SPIKE REP 3 mg/kg	Percent Recovery Spike 1	Percent Recovery Spike 2	Percent Recovery Spike 3
Napthalene	0.38 L	0.38 L	0.36 L	9.01	12.5	11.5	48	68	60
Dimethyl Phthalate	0.96 L	0.95 L	0.90 L	8.5	12	11.2	45	65	58
Acenaphthlylene	0.38 L	0.38 L	0.36 L	10.6	14.6	13.1	57	79	68
Acenapthene	0.38 L	0.38 L	0.36 L	10.8	15	13.4	58	81	69
Diethylphthalate	0.96 L	0.95 L	0.90 L	8.8	11.8	11.3	47	64	59
Fluoranthene	0.38 L	0.38 L	0.36 L	10.8	14.2	13.2	58	77	68
Phenanthrene	0.38 L	0.38 L	0.36 L	11.1	15.6	13.8	59	84	72
Anthracene	0.38 L	0.38 L	0.36 L	11.3	16	14	60	86	73
Di–n–butylphthalate	0.96 L	0.95 L	0.90 L	8.3	12	11	44	65	57
Fluoranthene	0.38 L	0.38 L	0.36 L	10.8	13.4	12.6	58	72	65
Pyrene	0.38 L	0.38 L	0.36 L	11.1	14.3	12.8	59	77	66
Butyl–benzyl phthalate	0.96 L	0.95 L	0.90 L	7.7	12.2	11.3	41	66	59
Chyrsene	0.38 L	0.38 L	0.36 L	11.3	16.1	14.3	60	87	74
Benz[a] anthracene	0.38 L	0.38 L	0.36 L	11	15.6	14.1	59	84	73
Bis(2–ethylhexyl) phthalate	0.96 L	0.95 L	0.90 L	21.2	12.3	9	113	66	47
Di–n–octyl phthalate	0.96 L	0.95 L	0.90 L	2.8	14.8	10.3	15	80	53
Benzo[b]fluoranthene	0.38 L	0.38 L	0.36 L	11.1	19.2	16.5	59	104	85
Benzo[k]fluoranthene	0.38 L	0.38 L	0.36 L	11.8	18	16.9	63	97	88
Benzo[a] pyrene	0.38 L	0.38 L	0.36 L	11.3	16.6	14.9	60	90	77
Dibenz[a,h]anthracene	0.38 L	0.38 L	0.36 L	10.2	9.0	8	55	49	41
Indeno[1,2,3–cd]pyrene	0.38 L	0.38 L	0.36 L	9.9	9.1	8	53	49	41
Benzo[ghi]perylene	0.38 L	0.38 L	0.36 L	10.4	8.2	7.2	56	44	37
Hexachlorobenzene	0.38 L	0.38 L	0.36 L	11.7	16.8	14.8	63	91	77
Concentration Factor	0.192	0.190	0.180	0.190	0.190	0.190			
Spike Concentration				18.7	18.5	19.3			
SURROGATE Range									
Nitrobenzene d5 23 – 120	51	67	61	49	68	62			
2–Fluorobiphenyl 30 – 115	67	79	40	56	82	71			
Terphenyl d14 18 – 37	82	101	42	62	103	87			

The low recovery on spike 1 may be the result of a poor solvent exchange during sample preparation.

NOTE: An "L" indicates that the parameter was below the detection limit.

TABLE 4 ORGANICS IN TISSUE – Lab Prepared Reference Material and EPA QC C–4 on Pesticide Compounds, EPA QC PCB on PCB Compounds
HART–MILLER ISLAND EXTERIOR MONITORING –13TH YEAR QUALITY CONTROL RESULTS FOR ORGANICS IN TISSUE

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See Pages from order # 94–11–590

STANDARD REFERENCE MATERIALS	01A 5	01B 7	01C 9	02A 11	02B 13	02C 15	02D 17	02E 18	02F 19						
	Artesian Lab Prepared Oyster Homogenate (ALPOH)														
PESTICIDE PARAMETERS	ALPOH REP 1 mg/kg	ALPOH REP 2 mg/kg	ALPOH REP 3 mg/kg	SPIKE REP 1 mg/kg	SPIKE REP 2 mg/kg	SPIKE REP 3 mg/kg	Spike Dup. REP 1 mg/kg	Spike Dup. REP 2 mg/kg	Spike Dup. REP 3 mg/kg	Percent Recovery Spike 1	Percent Recovery Spike 2	Percent Recovery Spike 3	Percent Recovery Spike Dup 1	Percent Recovery Spike Dup 2	Percent Recovery Spike Dup 3
Alpha–BHC	0.0018 L	0.002 L	0.0017 L	0.074	0.302	0.189	0.135	0.167	0.184	19	77	48	35	53	52
Gamma–BHC	0.0018 L	0.002 L	0.0017 L	0.066	0.259	0.192	0.173	0.177	0.196	22	66	49	45	56	55
Heptachlor	0.0018 L	0.002 L	0.0017 L	0.124	0.311	0.209	0.091	0.197	0.223	32	79	53	24	62	62
Heptachlor Epoxide	0.0018 L	0.002 L	0.0017 L	0.130	0.261	0.199	0.129	0.166	0.180	34	67	50	34	52	50
Dieldrin	0.0018 L	0.002 L	0.0017 L	0.080	0.241	0.188	0.129	0.172	0.184	21	61	47	34	54	52
4,4'–DDE	0.0018 L	0.002 L	0.0017 L	0.085	0.306	0.199	0.050	0.164	0.107	22	78	50	13	52	30
4,4'–DDD	0.0018 L	0.002 L	0.0017 L	0.069	0.268	0.201	0.179	0.210	0.232	23	73	51	47	66	65
4,4'–DDT	0.0018 L	0.002 L	0.0017 L	0.095	0.337	0.229	0.194	0.260	0.294	24	86	58	51	82	82
Cis–Chlordane	0.0018 L	0.002 L	0.0017 L	0.128	0.278	0.196	0.150	0.194	0.211	33	71	50	39	61	59
Trans–Chlordane	0.0018 L	0.002 L	0.0017 L	0.136	0.307	0.217	0.143	0.188	0.205	35	78	55	38	59	57
Trans–Nonachlor	0.0018 L	0.002 L	0.0017 L	0.120	0.289	0.205	0.133	0.180	0.205	31	74	52	35	60	57
Concentration Factor	0.181	0.199	0.170	0.194	0.196	0.198	0.190	0.159	0.178						
Spike Concentration				0.388	0.392	0.395	0.381	0.318	0.357						
SURROGATE															
4,4'–Dibromooctafluorobiphenyl	58 Q	59 Q	34 Q	16 Q	74 Q	44 Q	2 Q	36 Q	38 Q						
Dibutyl Chlorendate	103 Q	68 Q	14 Q	86 Q	1240 Q	84 Q	14 Q	104 Q	68 Q						

The low recovery on Spike Rep 1 may be the result of a poor solvent exchange during the sample preparation.

See Pages from order # 94–11–590

STANDARD REFERENCE MATERIALS	03A 20	03B 21	03C 22	03D 23	03E 24	03F 25	Comments Section 30	30	04A 26	04B 27	04C 28	Comments Section 30	30
	EPA QC C–4 Tox/Pest						Statistics		EPA QC PCB			Statistics	
PESTICIDE PARAMETERS	REP 1 mg/kg	REP 2 mg/kg	REP 3 mg/kg	REP 1a mg/kg	REP 2a mg/kg	REP 3a mg/kg	X–Bar mg/kg	95 % C.I.	REP 1 mg/kg	REP 2 mg/kg	REP 3 mg/kg	X–Bar mg/kg	95 % C.I.
4,4'–DDE	0.089	1.25	0.012	1.68	0.115	0.74	1.72	0.62–2.82					
4,4'–DDD	0.156	0.402	0.135	0.458	0.135	0.161	0.7	0.2–1.20					
4,4'–DDT	0.108	0.369	0.29	0.59	0.16	0.228	0.68	MDL–1.36					
Toxaphene	5.4	11.3	1.6	22	2.9	9.4	7.2	2.0–12.4					
PCB–1242									0.65	0.51	0.64	1.12	DL–3.2
PCB–1254									0.86	0.51	0.97	3.12	DL–6.4
PCB–1260									0.99	0.3	0.58	0.93	DL–1.8
Concentration Factor	0.526	0.500	0.494	0.459	0.502	0.475			0.495	0.542	0.512		
Spike Concentration													
SURROGATE													
4,4'–Dibromooctafluorobiphenyl	1.2 Q	22 Q	0	30 Q	0	0							
Dibutyl Chlorendate	76 Q	190 Q	26 Q	20 Q	70 Q	12 Q							

The low recovery for EPA qc C4 Rep 2a may be due to a loss of solvent during the concentration step.

NOTE: An "L" indicates that the parameter was below the detection limit.

SAVE frequently !

TABLE 5 ORGANICS IN TISSUE – Matrix Spike Results, Semi-Volatile & Pesticide Compounds
HART-MILLER ISLAND EXTERIOR MONITORING – 13TH YEAR
QUALITY CONTROL RESULTS FOR ORGANICS IN TISSUE

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Routine Sample Replicate Mat/Obs

Date: 21-Nov-96

See Pages of order # 94-11-592:

Sample Numbers: G25-1 & HM12-1	LAB ID:	05A	05B	05C		06A	06B	06C	
	PAGES:	26	26	18		20	22	24	
Semi-Volatile Contaminant	MES LIMITS +/-	G25-1 Sample mg/kg	G25-1 Duplicate mg/kg	G25-1 Mat. Spike mg/kg	Percent Recovery on Spike	HM12-1 Sample mg/kg	HM12-1 Duplicate mg/kg	HM12-1 Mat. Spike mg/kg	Percent Recovery on Spike
Napthalene	30%	0.48 L	0.36	9.3	58	0.40 L	0.44	27.3	60
Dimethyl Phthalate	30%	1.20 L	0.90	10.8	68	1.00 L	1.10	29.1	64
Acenaphthylene	30%	0.48 L	0.36	11.3	71	0.40 L	0.44	30.6	68
Acenapthene	30%	0.48 L	0.36	11.9	75	0.40 L	0.44	32.2	71
Diethylphthalate	30%	1.20 L	0.90	11.8	74	1.00 L	1.10	30.2	67
Fluoranthene	30%	0.48 L	0.36	12.3	77	0.40 L	0.44	32.6	72
Phenanthrene	30%	0.48 L	0.36	13	82	0.40 L	0.44	34.6	76
Anthracene	30%	0.48 L	0.36	13	82	0.40 L	0.44	34.5	76
Di-n-butylphthalate	30%	1.20 L	0.90	13	82	1.00 L	1.10	33.5	74
Fluoranthene	30%	0.48 L	0.36	12.1	76	0.40 L	0.44	31.8	70
Pyrene	30%	0.48 L	0.36	12.4	78	0.40 L	0.44	32.8	72
Butyl-benzyl phthalate	30%	1.20 L	0.90	12	75	1.00 L	1.10	31.5	70
Chyrsene	30%	0.48 L	0.36	12.7	80	0.40 L	0.44	34.5	76
Benzo (a) anthracene	30%	0.48 L	0.36	12.2	77	0.40 L	0.44	33.2	73
Bis(2-ethylhexyl) phthalate	30%	1.20 L	0.90	23.1	145	11.30	1.10	35.7	79
Di-n-octyl phthalate	30%	1.20 L	0.90	11.9	75	1.00 L	1.10	31.7	70
Benzo (b) fluoranthene	30%	0.48 L	0.36	11.1	70	0.40 L	0.44	29.2	64
Benzo (k) fluoranthene	30%	0.48 L	0.36	10.6	67	0.40 L	0.44	29.5	65
Benzo (a) pyrene	30%	0.48 L	0.36	11	69	0.40 L	0.44	29.9	66
Dibenzo (a,h) anthracene	30%	0.48 L	0.36	9.4	59	0.40 L	0.44	26.4	58
Indeno (1,2,3-cd) pyrene	30%	0.48 L	0.36	9.4	59	0.40 L	0.44	26.1	58
Benzo (g, h, i) perylene	30%	0.48 L	0.36	8.8	55	0.40 L	0.44	24.6	54
Hexachlorobenzene	30%	0.48 L	0.36	12.2	77	0.40 L	0.44	32.3	71
Concentration Factor		0.24	0.18	0.16		0.20	0.22	0.45	
Spike Concentration				15.9				45.3	
SURROGATE									
Nitrobenzene d5	23-120	93	56	47		38	54	48	
2-Fluorobiphenyl	30-115	100	61	56		20 Q	60	56	
Terphenyl d14	18-137	110	69	64		18	68	63	

See Pages of order # 94-11-592:

Sample Numbers: G25-1 & HM12-1	LAB ID	05A	05B	05C		06A	06B	06C	
	PAGES:	13	15	17		19	21	23	
PESTICIDE PARAMETERS	MES LIMITS +/-	G25-1 Sample mg/kg	G25-1 Matrix Spike mg/kg	G25-1 Matrix Spike Dup. mg/kg	Percent Recovery on Spike	HM12-1 Sample mg/kg	HM12-1 Matrix Spike mg/kg	HM12-1 Matrix Spike Dup. mg/kg	Percent Recovery on Spike
Alpha-BHC	30%	0.0025 L	0.246	0.194	36	0.0028 L	0.285	0.17	44
Gamma-BHC	30%	0.0025 L	0.270	0.364	40	0.0028 L	0.298	0.198	46
Heptachlor	30%	0.0025 L	0.352	0.005	52	0.0028 L	0.434	0.312	67
Heptachlor Epoxide	30%	0.0025 L	0.249	0.019	36	0.0028 L	0.301	0.227	47
Dieldrin	30%	0.0025 L	0.208	0.014	30	0.0028 L	0.282	0.234	44
4,4'-DDE	30%	0.0025 L	0.267	0.015	39	0.0028 L	0.275	0.184	43
4,4'-DDD	30%	0.0025 L	0.345	0.092	51	0.0028 L	0.333	0.283	51
4,4'-DDT	30%	0.0025 L	0.478	0.015	70	0.0028 L	0.473	0.431	73
Cis-Chlordane	30%	0.0025 L	0.301	0.024	44	0.0028 L	0.32	0.276	49
Trans-Chlordane	30%	0.0025 L	0.308	0.019	45	0.0028 L	0.304	0.263	47
Trans-Nonachlor	30%	0.0025 L	0.301	0.015	44	0.0028 L	0.285	0.269	44
Chlordane	30%	0.075 L				0.085 L			
Toxaphene	30%	0.075 L				0.085 L			
PCB-1016	30%	0.075 L				0.085 L			
PCB-1221	30%	0.075 L				0.085 L			
PCB-1232	30%	0.075 L				0.085 L			
PCB-1242	30%	0.075 L				0.085 L			
PCB-1248	30%	0.075 L				0.085 L			
PCB-1254	30%	0.075 L				0.085 L			
PCB-1260	30%	0.075 L				0.085 L			
Concentration Factor		0.249	0.34	0.465		0.282	0.324	0.706	
Spike Concentration			0.683	0.969			0.847	1.41	
SURROGATE									
4,4'-Dibromooctafluorobiphenyl		9 Q	20 Q	90 Q		41 Q	26 Q	8 Q	
Dibutyl Chlorendate		27 Q	30 Q	126 Q		55 Q	96 Q	16 Q	

Pesticides:

Percent recoveries were performed on matrix spikes for G25-1 & HM12-1, rather than matrix spike duplicates (MSD). Low recoveries for the G25-1 MSD are reported due to lost solvent during the concentration step. Low recoveries for HM12-1 MSD are reported due to lost extract from lab accident.
A "Q" on surrogate recoveries for the pesticides does not indicate unacceptable surrogate recoveries. The "Q" is a default of the database, if no acceptance range is entered for the surrogates.

NOTE: An "L" indicates that the parameter was below the detection limit.

TABLE 6 ORGANICS IN SEDIMENT – STANDARD REFERENCE MATERIAL 1941A, SEMI–VOLATILE COMPOUNDS
HART–MILLER ISLAND EXTERIOR MONITORING – 13TH YEAR QUALITY CONTROL RESULTS FOR ORGANICS IN SEDIMENT

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Date: 21–Nov–96

See Pages of order number 94–11–590:

See Pages from order # 94–11–589

				LAB ID: 01A	01B	01C	02A	02B	02C						41
				PAGE #: 4	5	6	7	8	9						
STANDARD REFERENCE MATERIALS (SRM's)				Pretest Values for SRM 1941A											During Test
Semi–Volatile	NIST 1941a		MDS LIMITS	SRM 1941a			SRM 1941a Spike			Percent	Percent	Percent		SRM 1941a	
Parameters	Value	Range	(+/–) 30% Nist Value	REP 1	REP 2	REP 3	REP 1	REP 2	REP 3	Recovery	Recovery	Recovery		REP 1	
	mg/kg	(+/–)	mg/kg mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Rep 1	Rep 2	Rep 3		mg/kg	
Napthalene	1.01	0.14	0.61 – 1.50	0.420	0.386	0.342	8.42	9.46	9.13	44	42	44		0.388	
Dimethyl Phthalate				0.51 L	1.0 L	1.0 L	15.5	17.1	15.7	85	80	78		0.38 L	
Acenaphthlylene	0.037	0.014	0.016 – 0.066	0.067	0.094	0.123	21.5	14.1	12.8	118	65	63		0.092	
Acenapthene	0.041	0.01	0.022 – 0.066	0.042	0.41 L	0.075	12.8	14.4	13.4	70	65	66		0.15 L	
Diethylphthalate				0.329	0.426	0.504	17.0	17.8	16.5	92	81	79		0.49	
Fluorene	0.961	0.078	0.632 – 1.377	0.077	0.08	0.104	15.6	17.2	15.8	85	80	78		0.092	
Phenanthrene	0.469	0.023	0.326 – 0.666	0.412	0.442	0.467	18.0	19.4	18.1	97	88	87		0.501	
Anthracene	0.164	0.014	0.119 – 0.257	0.186	0.203	0.203	17.9	19.3	18.1	97	89	89		0.235	
Di–n–butylphthalate				7.70	19.2	13.9	53.2	43.4	52.5	250	113	191		34.7	
Fluoranthene				0.783	0.841	0.891	18.6	20.1	18.3	98	90	86		0.96	
Pyrene	0.611	0.024	0.551 – 1.066	0.616	0.673	0.714	17.9	19.3	17.5	95	87	83		0.797	
Butyl–benzyl phthalate				0.51 L	1.0 L	1.0 L	21.9	23.5	23.6	120	109	118		0.215	
Chyrsene	0.38	0.024	0.249 – 0.525	0.540	0.585	0.593	19.1	20.1	18.9	102	91	91		0.674	
Benz[a] anthracene	0.427	0.025	0.281 – 0.586	0.401	0.417	0.431	17.9	18.8	17.6	96	86	85		0.526	
Bis(2–ethythexyl) phthalate *				1.86	2.34	2.09	25.0	27.0	27.8	127	115	127		1.66	
Di–n–octyl phthalate				0.51 L	1.0 L	1.0 L	41.47	51.3	58.7	228	239	291		0.255	
Benzo[b]fluoranthene	0.74	0.11	0.441 – 1.11	0.696	0.696	0.784	22.8	25.3	24.2	121	114	116		0.96	
Benzo[k]fluoranthene	0.361	0.018	0.240 – 0.493	0.629	0.646	0.759	22.5	25.1	25.4	120	114	122		0.606	
Benzo[a] pyrene	0.628	0.052	0.403 – 0.864	0.54	0.556	0.561	18.8	20.2	19.0	100	91	91		0.674	
Dibenz[a,h]anthracene	0.073	0.0097	0.045 – 0.109	0.139	0.407	0.363	12.3	12.6	11.0	67	57	53		0.133	
Indeno[1,2,3–cd]pyrene	0.501	0.072	0.300 – 0.745	0.34	0.780	0.789	11.8	12.1	10.4	63	53	48		0.306	
Benzo[ghi]perylene	0.525	0.067	0.321 – 0.770	0.389	0.380	0.322	10.5	10.6	9.45	56	48	45		0.296	
Hexachlorobenzene				0.20 L	0.41 L	0.41 L	13.9	15.2	14.4	75	69	69		0.092	
Concentration Factor				0.102	0.204	0.204	0.184	0.225	0.204					0.076	
Spike Concentration							18.2	21.5	20.2						
SURROGATE			Recovery Limits												
Nitrobenzene d5			23 – 120	46	63	38	43	42	44					41	
2–Fluorobiphenyl			30 – 115	58	65	50	56	54	54					50	
Terphenyl d14			18 – 137	93	68	103	99	93	107					96	

NOTE: AN "L" INDICATES THAT THE PARAMETER WAS BELOW THE DETECTION LIMIT.

TABLE 7 ORGANICS IN SEDIMENT – Standard Reference Material HS–5, Semi–Volatiles
HART–MILLER ISLAND EXTERIOR MONITORING – 13TH YEAR
QUALITY CONTROL RESULTS FOR ORGANICS IN SEDIMENT

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STANDARD REFERENCE MATERIALS (SRM's)					03A 11	03B 13	03C 15
Semi–Volatile Parameters	NIST HS–5		MES LIMITS		PRETEST VALUES SRM HS–5		
	Value mg/kg	Range (+/–)	(+/–) 30% Nist Value mg/kg	mg/kg	REP 1 mg/kg	REP 2 mg/kg	REP 3 mg/kg
Napthalene	0.25	0.07	0.13 –	0.42	0.154	0.123	0.118
Dimethyl Phthalate					0.48 L	0.46 L	0.50 L
Acenaphthlylene	0.15		0.00 –	0.20	0.121	0.121	0.108
Acenapthene	0.23	0.1	0.09 –	0.43	0.055	0.049	0.20 L
Diethylphthalate					0.48 L	0.46 L	0.50 L
Fluorene	0.4	0.1	0.21 –	0.65	0.14	0.142	0.144
Phenanthrene	5.2	1	2.94 –	8.06	3.53	3.51	3.34
Anthracene	0.38	0.15	0.16 –	0.69	0.24	0.244	0.223
Di–n–butylphthalate					20.5	5.83	8.79
Fluoranthene	8.4	2.6	4.1 –	14.3	6.45	6.28	6.08
Pyrene	5.8	1.8	2.8 –	9.9	3.44	3.38	3.13
Butyl–benzyl phthalate					0.48 L	0.46 L	0.50 L
Chyrsene					2.12	2.10	2.00
Benz[a] anthracene	2.9	1.2	1.2 –	5.3	1.31	1.32	1.30
Bis(2–ethylhexyl) phthalate					1.41	1.39	1.61
Di–n–octyl phthalate					0.48 L	0.46 L	0.50 L
Benzo[b]fluoranthene	2	1	0.7 –	3.9	2.13	2.07	1.97
Benzo[k]fluoranthene	1	0.4	0.4 –	1.8	1.93	1.85	1.83
Benzo[a] pyrene	1.7	0.8	0.6 –	3.3	0.837	0.86	0.809
Dibenz[a,h]anthracene	0.2	0.1	0.1 –	0.4	0.142	0.129	0.118
Indeno[1,2,3–cd]pyrene	5.4	1.3	2.9 –	8.7	0.332	0.303	0.319
Benzo[ghi]perylene					0.339	0.340	0.329
Hexachlorobenzene					0.19 L	0.18 L	0.20 L
Concentration Factor					0.096	0.091	0.1
Spike Concentration							
SURROGATE			Recovery Limits				
Nitrobenzene d5			23 –	120	52	44	44
2–Fluorobiphenyl			30 –	115	68	54	53
Terphenyl d14			18 –	137	141 Q	148 Q	161 Q

NOTE: AN "L" INDICATES THAT THE PARAMETER WAS BELOW THE DETECTION LIMIT.

TABLE 8 ORGANICS IN SEDIMENT – Standard Reference Material HS–5, Pesticide Compounds
HART–MILLER ISLAND EXTERIOR MONITORING – 13TH YEAR
QUALITY CONTROL RESULTS FOR ORGANICS IN SEDIMENT

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See Pages from order # 94–11–589

STANDARD REFERENCE MATERIAL (SRM)	03A 10	03B 12	03C 14	04A 16	04B 17	04C 18			
PESTICIDE PARAMETERS	SRM HS–5			HS–5 Spike			Percent Recovery	Percent Recovery	Percent Recovery
	REP 1 mg/kg	REP 2 mg/kg	REP 3 mg/kg	REP 1 mg/kg	REP 2 mg/kg	REP 3 mg/kg	Rep 1	Rep 2	Rep 3
Alpha–BHC	0.020 L	0.020 L	0.020 L	0.335	0.332	0.241	85	85	65
Gamma–BHC	0.020 L	0.020 L	0.020 L	0.394	0.410	0.297	100	105	80
Heptachlor	0.020 L	0.020 L	0.020 L	0.256	0.254	0.204	65	65	55
Heptachlor Epoxide	0.020 L	0.020 L	0.020 L	0.295	0.273	0.204	75	70	55
Dieldrin	0.020 L	0.020 L	0.020 L	0.374	0.332	0.241	95	85	65
4,4'–DDE	0.04	0.020 L	0.020 L	0.453	0.391	0.317	115	100	85
4,4'–DDD	0.03	0.020 L	0.020 L	0.453	0.391	0.335	115	100	90
4,4'–DDT	0.020 L	0.020 L	0.020 L	0.374	0.410	0.298	95	105	80
Cis–Chlordane	0.020 L	0.020 L	0.020 L	0.236	0.215	0.167	60	55	45
Trans–Chlordane	0.020 L	0.020 L	0.020 L	0.217	0.215	0.167	55	55	45
Trans–Nonachlor	0.020 L	0.020 L	0.020 L	1.00	1.09	1.08	51	56	58
Chlordane	0.50 L	0.50 L	0.50 L	–	–	–			
Toxaphene	0.50 L	0.50 L	0.50 L	–	–	–			
PCB–1016	0.50 L	0.50 L	0.50 L	–	–	–			
PCB–1221	0.50 L	0.50 L	0.50 L	–	–	–			
PCB–1232	0.50 L	0.50 L	0.50 L	–	–	–			
PCB–1242	0.50 L	0.50 L	0.50 L	–	–	–			
PCB–1248	0.50 L	0.50 L	0.50 L	–	–	–			
PCB–1254	0.50 L	0.50 L	0.50 L	–	–	–			
PCB–1260	0.50 L	0.50 L	0.50 L	–	–	–			
Concentration Factor	1	1	1	1	1	1			
Spike Concentration				0.394	0.391	0.371			
Trans Nonachlor Spike				1.97	1.95	1.86			
SURROGATE									
4,4'–Dibromooctafluorobiphenyl	56 Q	58 Q	50 Q	40 Q	60 Q	40 Q			
Dibutyl Chlorendate	124 Q	114 Q	106 Q	20 Q	320 Q	140 Q			

NOTE: AN "L" INDICATES THAT THE PARAMETER WAS BELOW THE DETECTION LIMIT.

TABLE 9 ORGANICS IN SEDIMENT – Matrix Spike Results, Semi–Volatile & Pesticide Compounds
HART–MILLER ISLAND EXTERIOR MONITORING– 13TH YEAR QUALITY CONTROL RESULTS FOR ORGANICS IN SEDIMENT

c:\xmon\13thyr\13sedorg.wk1

Date: 21–Nov–96

See Pages of order # 94–11–591:	Lab No: 01A	01D	01B	
Sample Number WRA–34	Page # 6	11	9	
Semi–Volatile Contaminant	WRA–34 Sample mg/kg	WRA–34 Duplicate mg/kg	Matrix Spike mg/kg	Percent Recovery Spike
Napthalene	0.19 L	0.21 L	6.09	52
Dimethyl Phthalate	0.46 L	0.53 L	9.44	80
Acenaphthylene	0.19 L	0.21 L	8.50	72
Acenapthene	0.19 L	0.21 L	8.71	74
Diethylphthalate	1.12	0.53 L	8.29	61
Fluorene	0.19 L	0.21 L	10.5	89
Phenanthrene	0.19 L	0.21 L	12.0	102
Anthracene	0.19 L	0.21 L	11.9	101
Di–n–butylphthalate	52.1	30.7	19.4	277
Fluoranthene	0.19 L	0.21 L	11.4	97
Pyrene	0.19 L	0.21 L	11.3	96
Butyl–benzyl phthalate	0.46 L	0.53 L	11.4	97
Chyrsene	0.19 L	0.21 L	12.3	104
Benzo (a) anthracene	0.19 L	0.21 L	11.8	100
Bis(2–ethylhexyl) phthalate	1.25	0.898	12.9	99
Di–n–octyl phthalate	0.46 L	0.53 L	12.5	106
Benzo (b) fluoranthene	0.19 L	0.21 L	11.9	101
Benzo (k) fluoranthene	0.19 L	0.21 L	12.8	108
Benzo (a) pyrene	0.19 L	0.21 L	11.9	101
Dibenzo (a,h) anthracene	0.19 L	0.21 L	9.59	81
Indeno (1,2,3–cd) pyrene	0.19 L	0.21 L	8.97	76
Benzo (g, h, i) perylene	0.19 L	0.21 L	7.95	67
Hexachlorobenzene	0.19 L	0.21 L	12.2	103
Concentration Factor	0.097	0.106	0.118	
Spike Concentration			11.8	
SURROGATE Range				
Nitrobenzene d5 23 – 120	54	50	43	
2–Fluorobiphenyl 30 – 115	71	59	50	
Terphenyl d14 18 – 137	93	80	86	

See Pages of order # 94–11–591:	Lab No: 01A	01B	01C		
Sample Number WRA–34	Page # 5	7	9		
PESTICIDE PARAMETERS	WRA–34 Sample mg/kg	Matrix Spike mg/kg	Mat. Spike Duplicate mg/kg	Percent Recovery Spike	Percent Recovery Spike Dup.
Alpha–BHC	0.01 L	0.129	0.062	32	31
Gamma–BHC	0.01 L	0.129	0.071	32	35
Heptachlor	0.01 L	0.097	0.050	24	25
Heptachlor Epoxide	0.01 L	0.109	0.062	27	31
Dieldrin	0.01 L	0.118	0.065	30	33
4,4'–DDE	0.01 L	0.168	0.071	42	35
4,4'–DDD	0.01 L	0.159	0.076	40	38
4,4'–DDT	0.01 L	0.121	0.065	30	33
Cis–Chlordane	0.01 L	0.088	0.047	22	24
Trans–Chlordane	0.01 L	0.085	0.044	21	22
Trans–Nonachlor	0.01 L				
Chlordane	0.25 L				
Toxaphene	0.25 L				
PCB–1016	0.25 L				
PCB–1221	0.25 L				
PCB–1232	0.25 L				
PCB–1242	0.25 L				
PCB–1248	0.25 L				
PCB–1254	0.25 L				
PCB–1260	0.25 L				
Concentration Factor	0.6	0.5	0.5		
Spike Concentration		0.398	0.200		
SURROGATE					
4,4'–Dibromooctafluorobiphenyl	35 Q	16 Q	14 Q		
Dibutyl Chlorendate	75 Q	27 Q	120 Q		

NOTE: AN "L" INDICATES THAT THE PARAMETER WAS BELOW THE DETECTION LIMIT.

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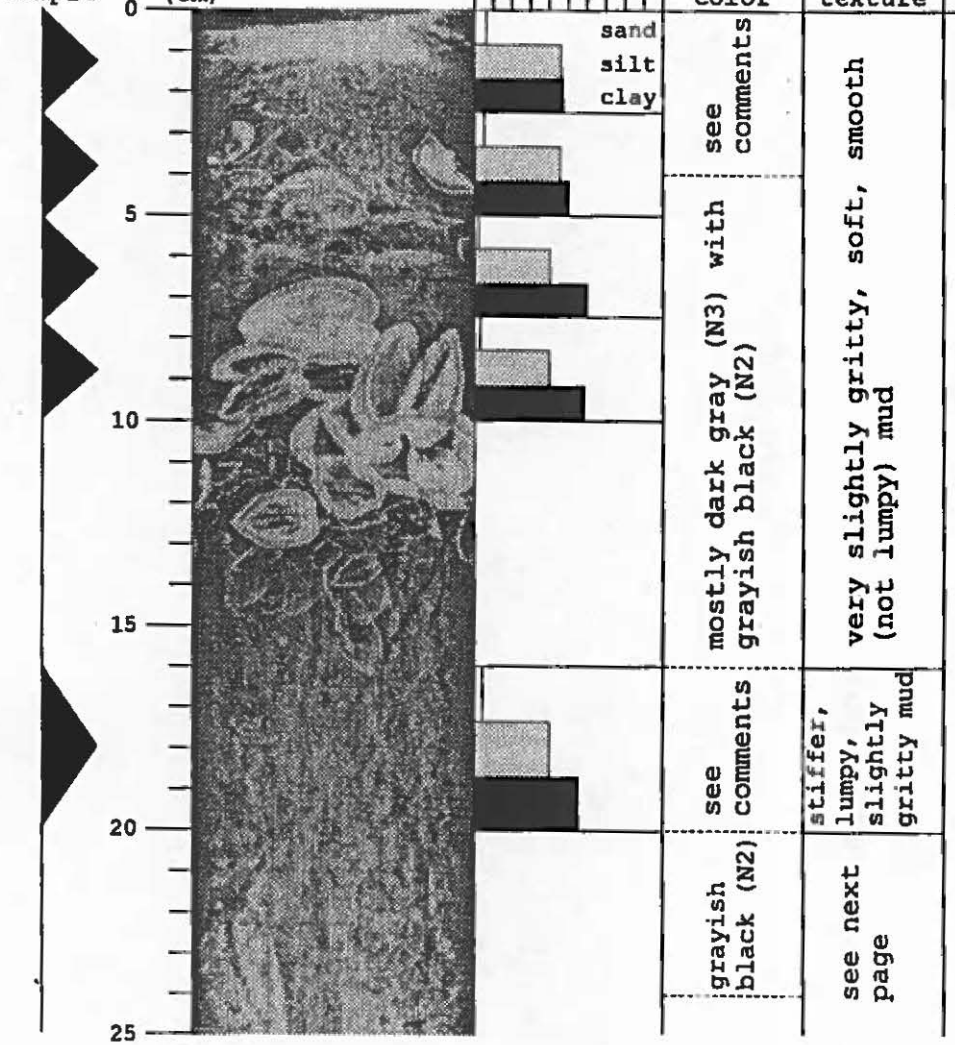
APPENDIX A

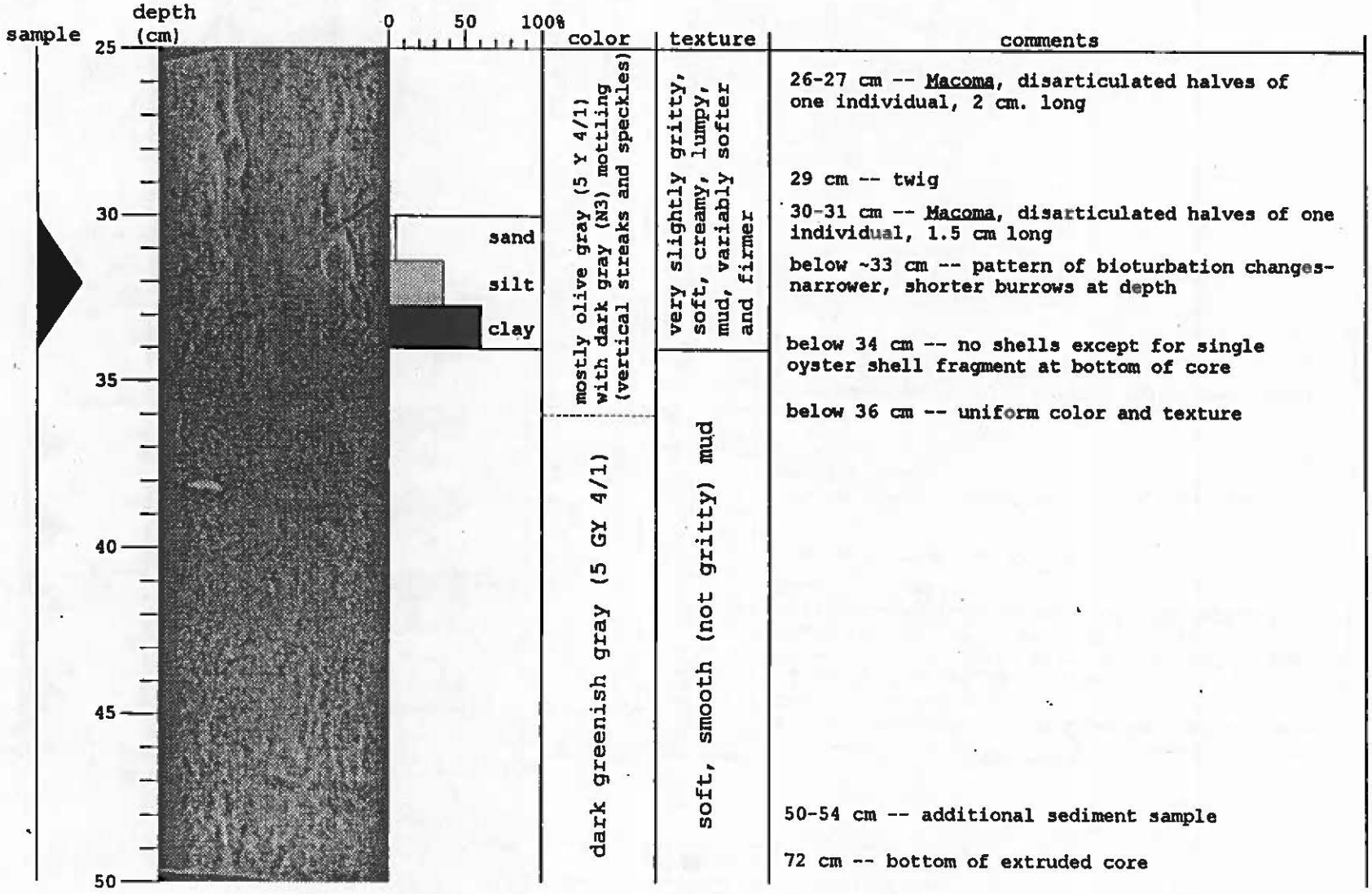
Visual and radiographic observations of gravity cores collected on April 21, 1994 (Cruise 31)

HART-MILLER ISLAND - 13th Year
Core BC1 April 21, 1994

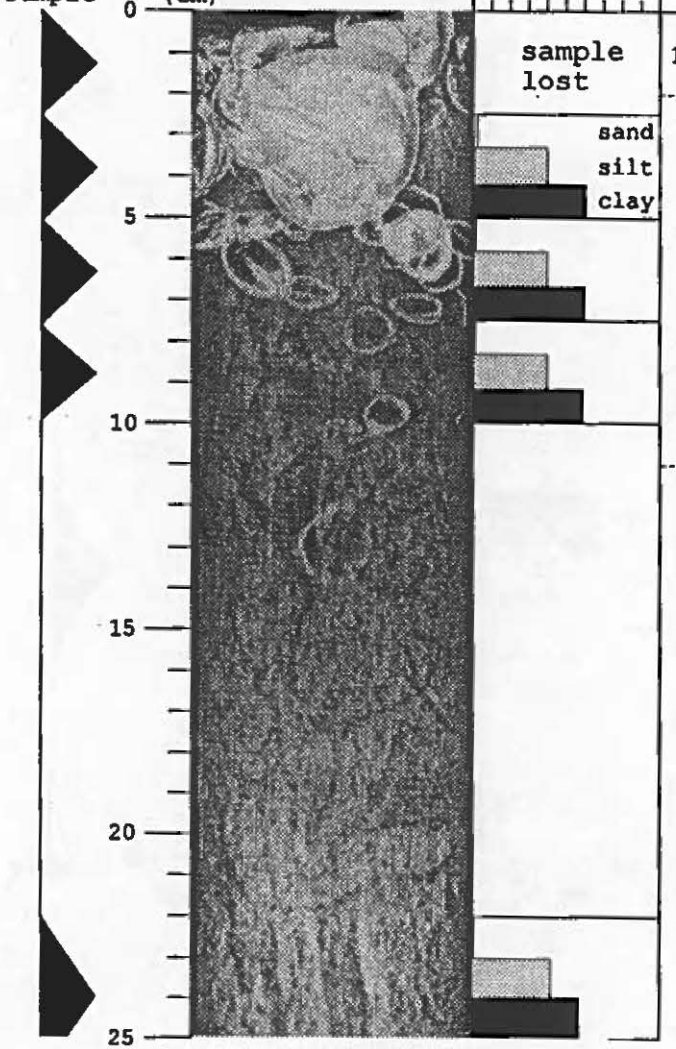


color	texture	comments
see comments	very slightly gritty, soft, smooth (not lumpy) mud	0-2.5 cm -- no shells 0-4 cm -- dark yellowish brown (10 YR 4/2) grading into dark gray to grayish black (N2.5) 3-5 cm -- shell layer - disarticulated Rangia cuneata, 1.5-2.5 cm long 7-14 cm -- dense shell layer, mostly R. cuneata (single articulated adult, 3.5 cm long; others disarticulated and articulated, 2.5-3 cm long); a few Macoma intact and broken, approx. 2 cm long
mostly dark gray (N3) with grayish black (N2)		
see comments	stiffer, lumpy, slightly gritty mud	16-20 cm -- olive gray (5 Y 4/1) with dark gray (N3) mottling below 20 cm -- impression of lumpiness may be due to softer Macoma burrows in firmer sediment approx. 24 cm -- tops of two burrows that end at 44 and 45 cm, respectively
grayish black (N2)	see next page	

HART-MILLER ISLAND - 13th Year
Core BC1 April 21, 1994

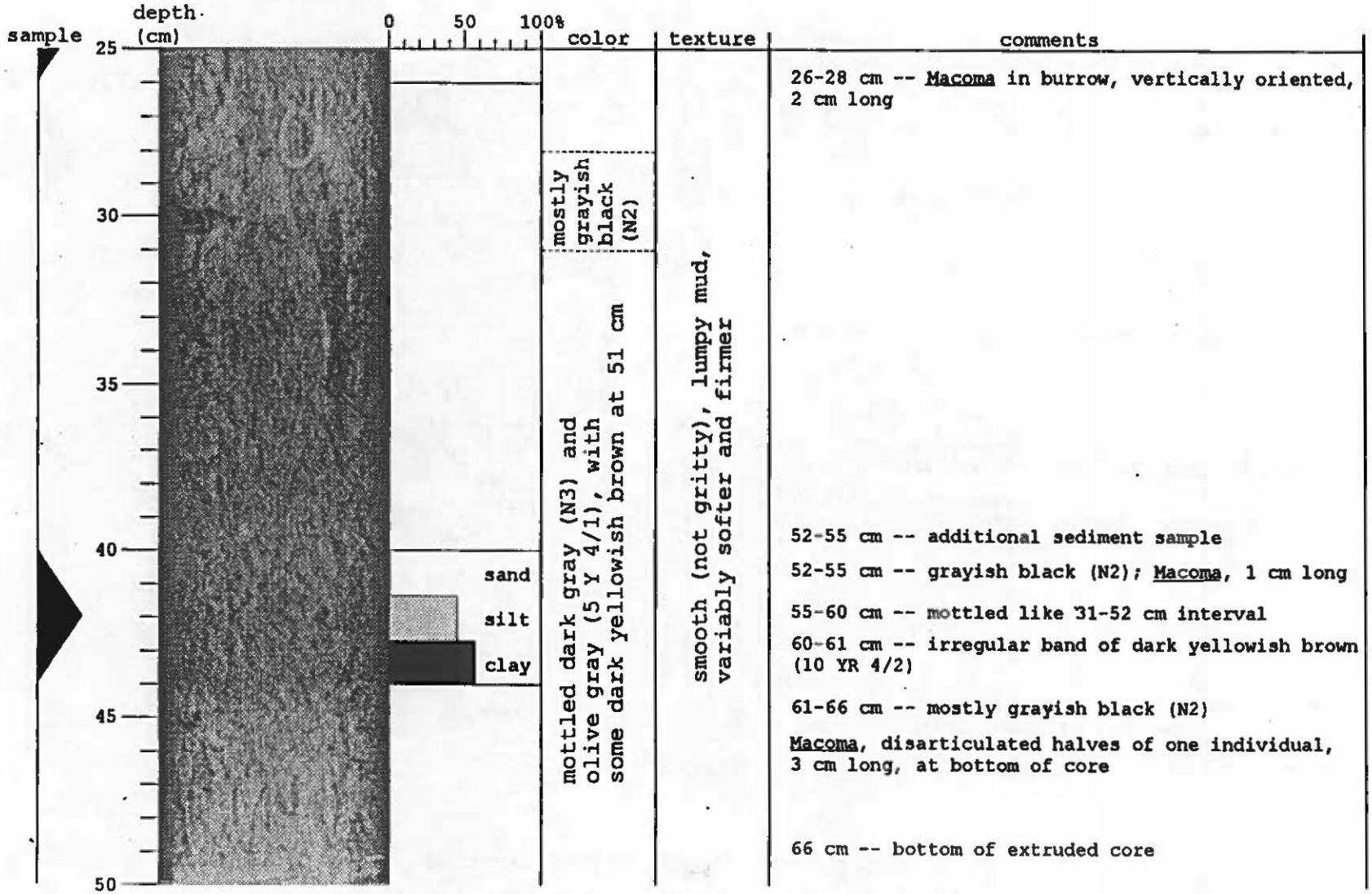


HART-MILLER ISLAND - 13th Year
Core BC2 April 21, 1994



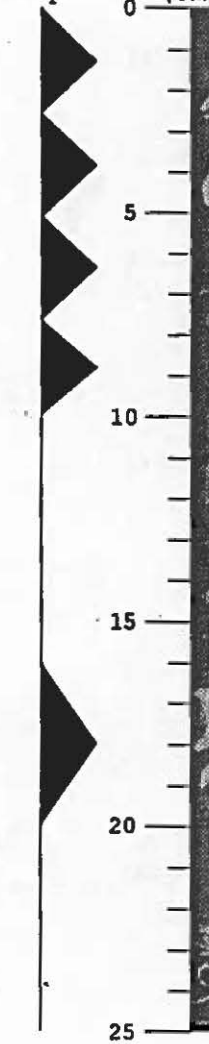
color	texture	comments
10 YR 4/2	very slightly gritty mud	core extruded 9/9/94; top dried out, water content questionable for top 5 cm 0-2 cm -- dark yellowish brown (10 YR 4/2) 0-6 cm -- dense shell layer; articulated Rangia cuneata at surface, 4 cm long; mostly disarticulated R. cuneata, 2 cm long; articulated Macoma, 2.5 cm long
mostly grayish black (N2) with dark yellowish brown (10 YR 4/2) burrow filling/lining	smooth (not gritty) mud	6-14 cm -- scattered shells 8-10 cm -- vestiges of horizontal layering in xeroradiograph
mottled dark gray (N3) and olive gray (5 Y 4/1), in about equal amounts	smooth (not gritty), lumpy mud, variably softer and firmer	10-50 cm -- heavily bioturbated, from xeroradiograph; mostly narrow, thin tubes, except for prominent Macoma burrow 12-14 cm -- shell 22-38 cm -- Macoma burrow; top of burrow truncated - stops abruptly

HART-MILLER ISLAND - 13th Year
Core BC2 April 21, 1994



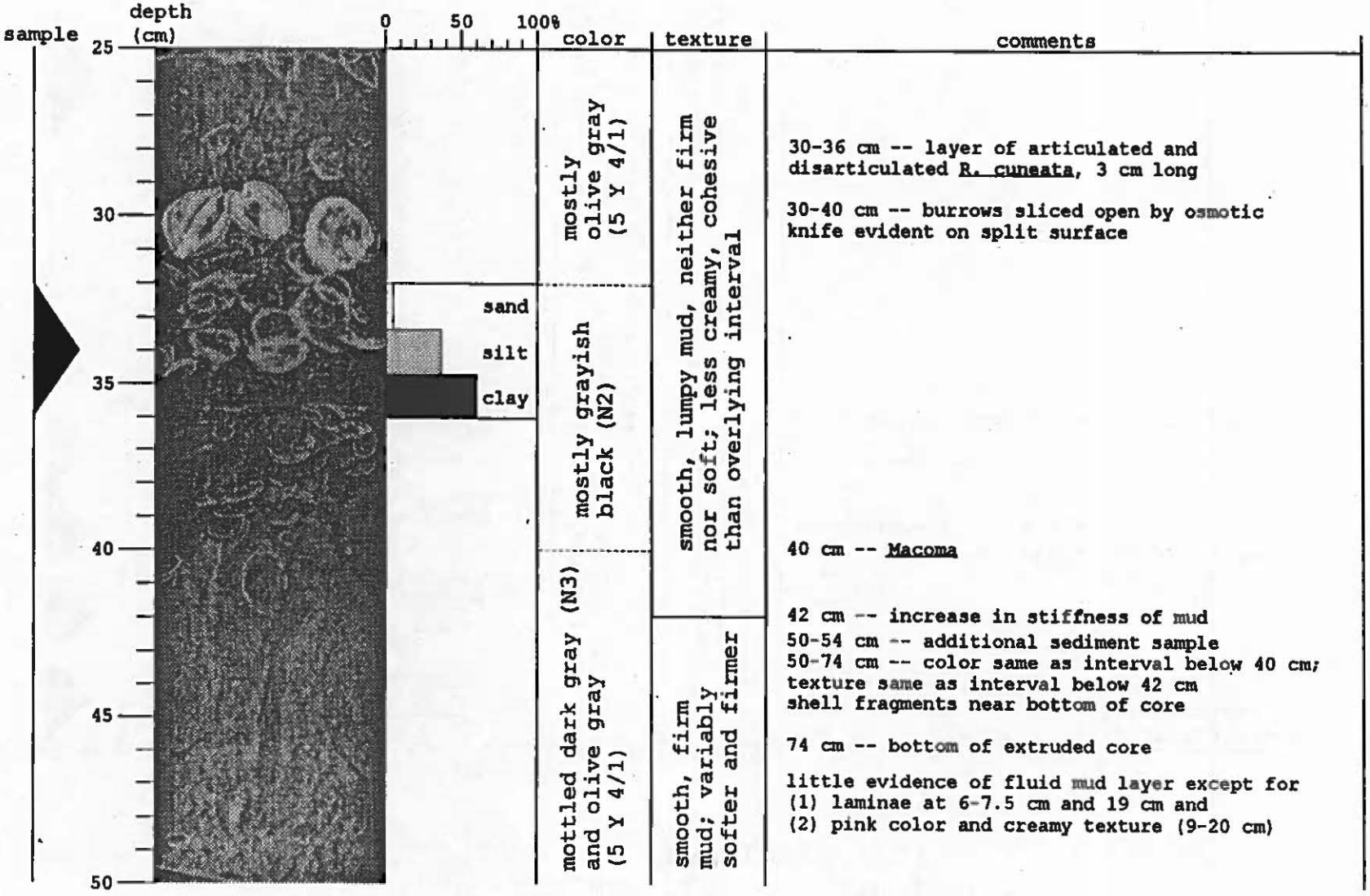
color	texture	comments
mostly grayish black (N2)	smooth (not gritty), lumpy mud, variably softer and firmer	26-28 cm -- Macoma in burrow, vertically oriented, 2 cm long
mottled dark gray (N3) and olive gray (5 Y 4/1), with some dark yellowish brown at 51 cm		52-55 cm -- additional sediment sample 52-55 cm -- grayish black (N2); Macoma, 1 cm long 55-60 cm -- mottled like 31-52 cm interval 60-61 cm -- irregular band of dark yellowish brown (10 YR 4/2) 61-66 cm -- mostly grayish black (N2) Macoma, disarticulated halves of one individual, 3 cm long, at bottom of core 66 cm -- bottom of extruded core

HART-MILLER ISLAND - 13th Year
Core BC3 April 21, 1994

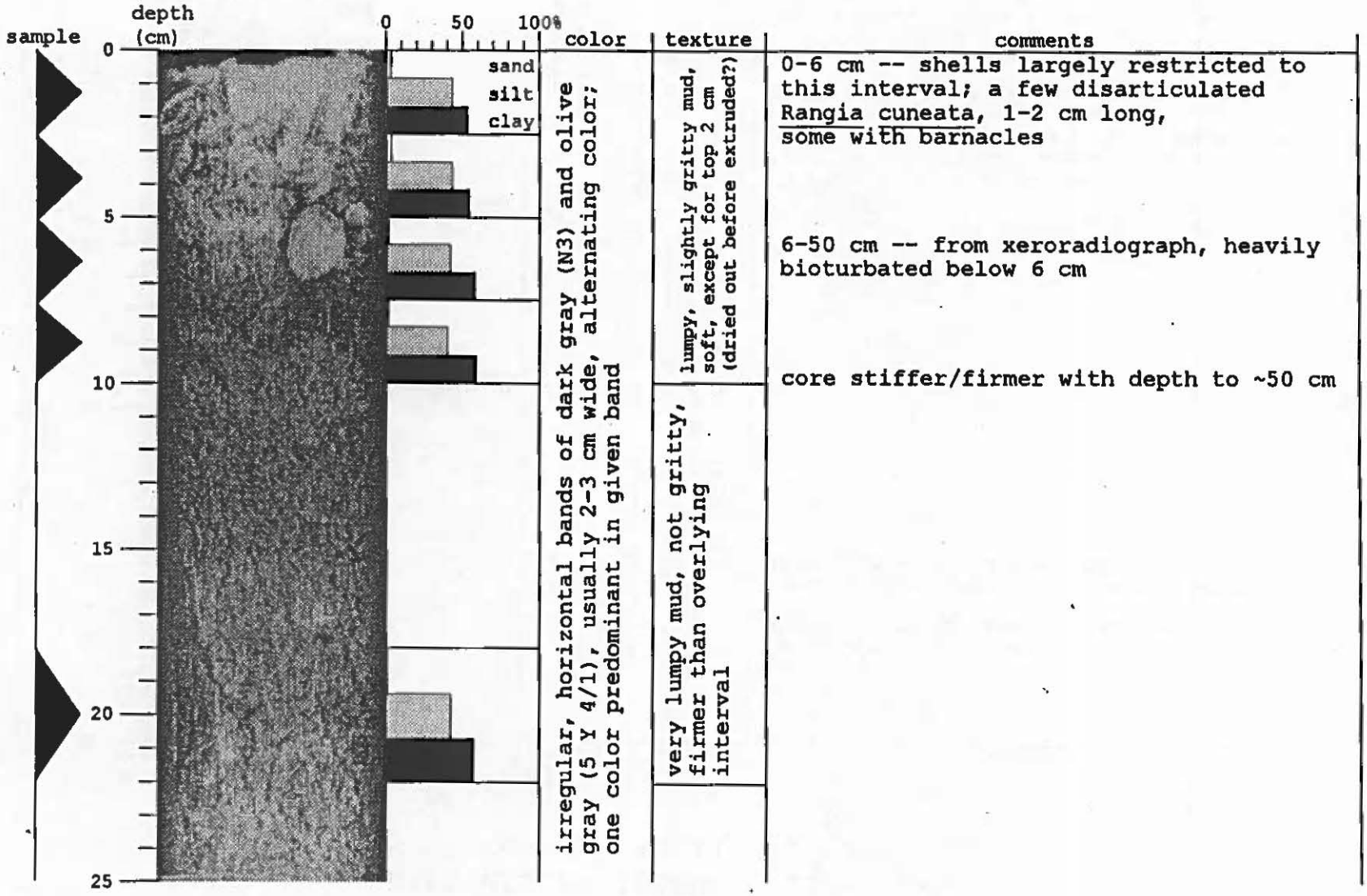


color	texture	comments
10 YR 4/2	very slightly gritty, smooth (not lumpy) mud; stiffer (drier) at top, softer with depth	0-1 cm -- dark yellowish brown (10 YR 4/2) 0-2.5 cm -- Rangia cuneata, 2 cm long 2.5-5 cm -- articulated (live?) R. cuneata, 2 cm long 6-7.5 cm -- laminae evident in xeroradiograph 7.5-10 cm -- wood fragment 9-20 cm -- some pinkish sediment, though not evident on split surface ~10 cm -- open burrows, split by osmotic knife 10-11 cm -- wood chunk (3 x 2.5 x 1.5 cm)
mottled dark gray to grayish black (N2.5) and medium dark gray (N4)	cohesive, creamy texture of fluid mud layer; firmer than top 9 cm	13-20 cm -- layer of R. cuneata, 2-3 cm long 17 cm -- shell fragment 19 cm -- layer (lamina) of moderate yellowish brown (10 YR 5/4), 0.5 cm thick
mostly olive gray (5 Y 4/1)	see next page	21-25 cm -- dense shell layer, mostly articulated R. cuneata, 1.5 cm long 24 cm -- Macoma, 2 cm long

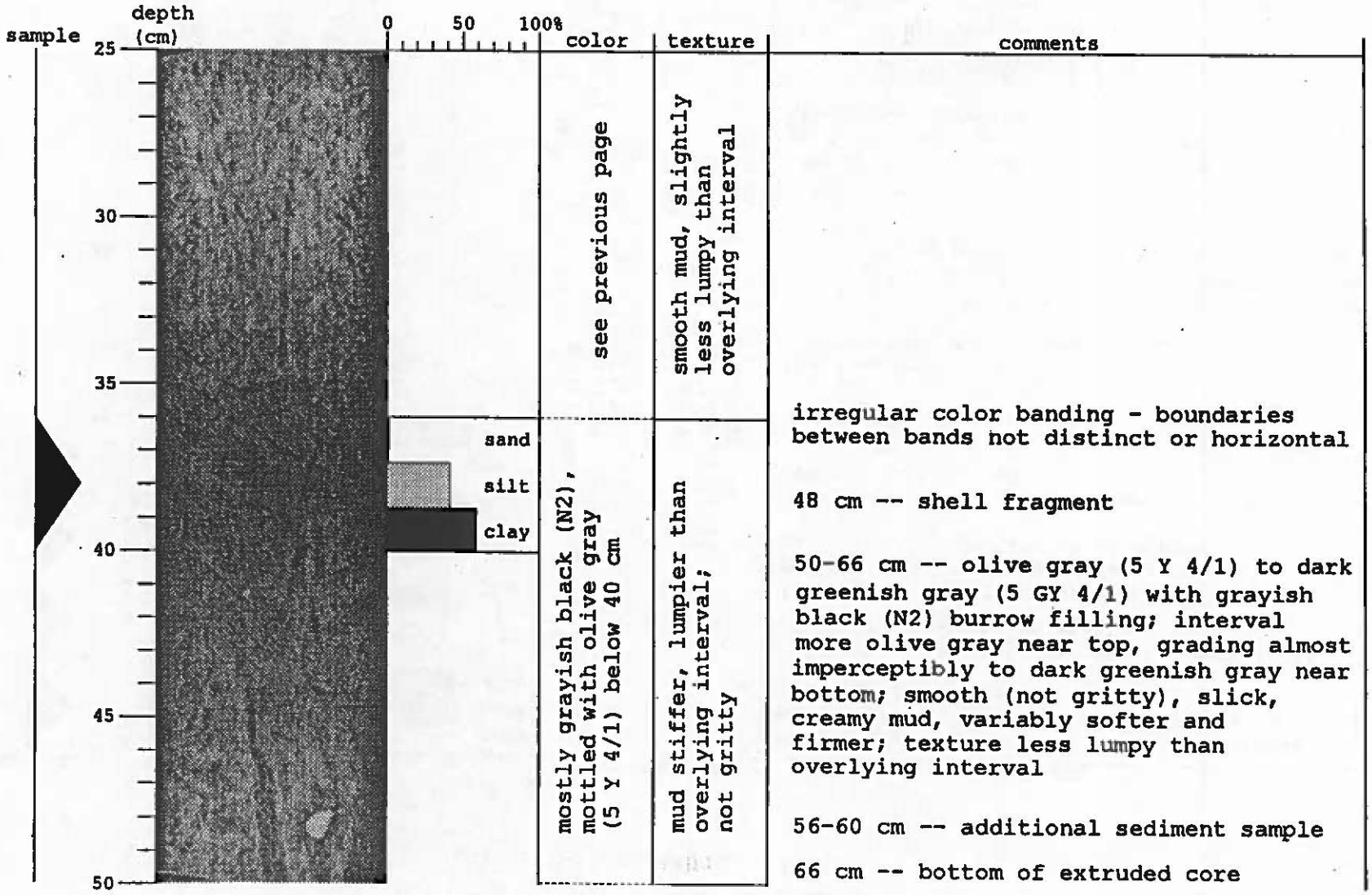
HART-MILLER ISLAND - 13th Year
Core BC3 April 21, 1994



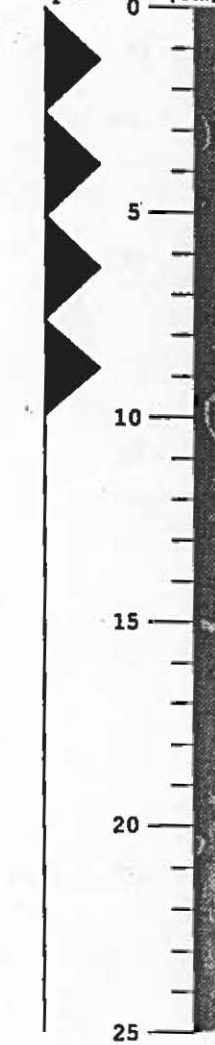
HART-MILLER ISLAND - 13th Year
Core BC4 April 21, 1994

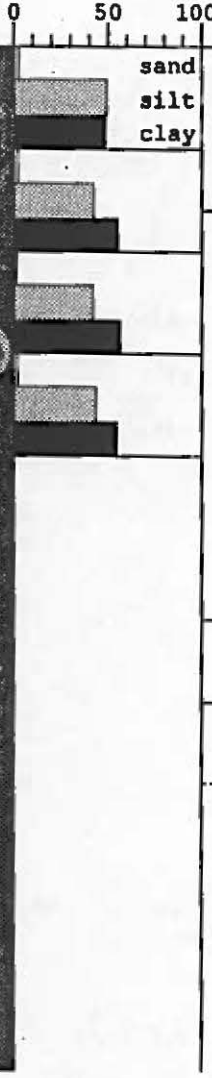


HART-MILLER ISLAND - 13th Year
Core BC4 April 21, 1994



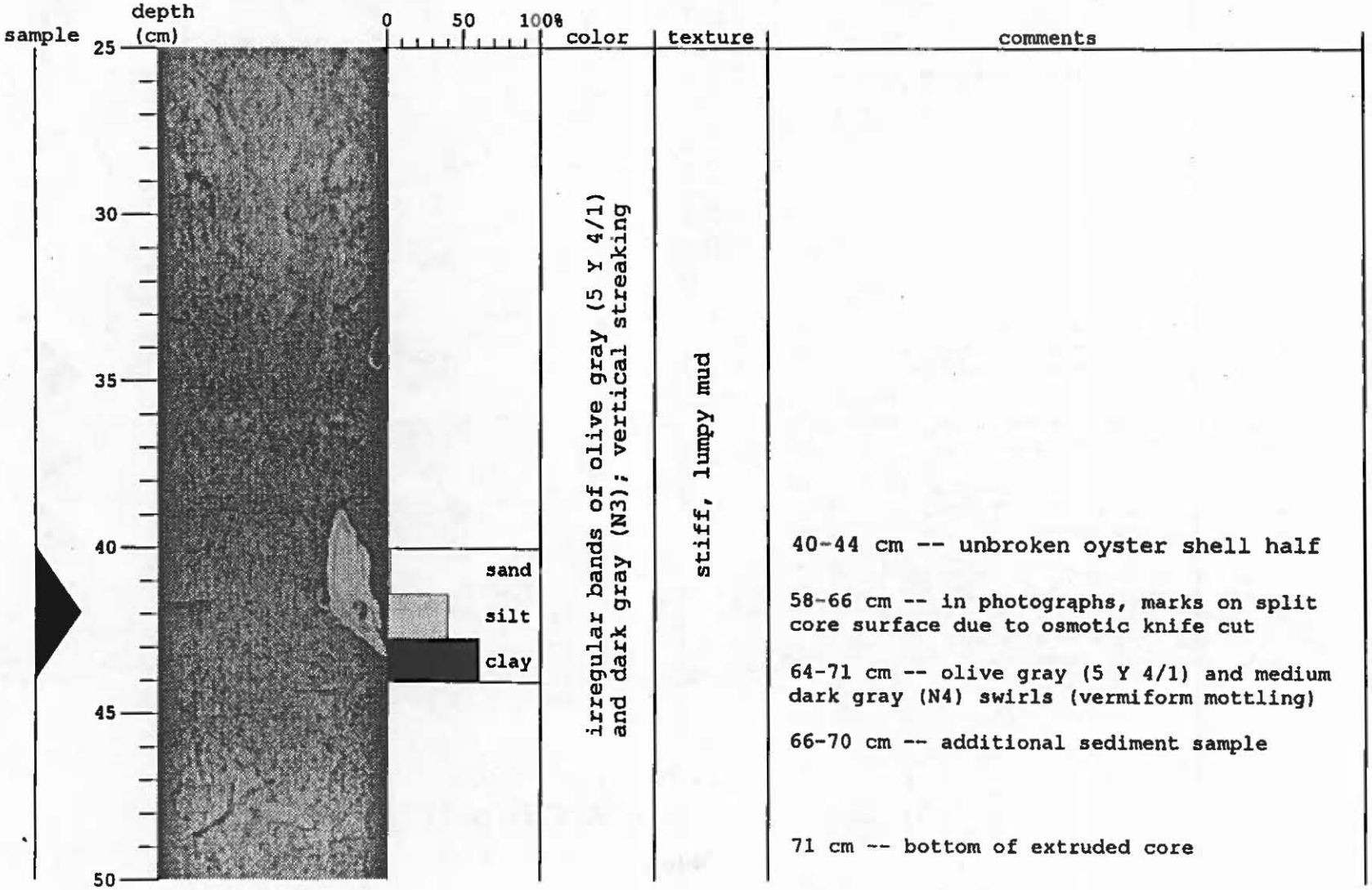
HART-MILLER ISLAND - 13th Year
Core BC5 April 21, 1994



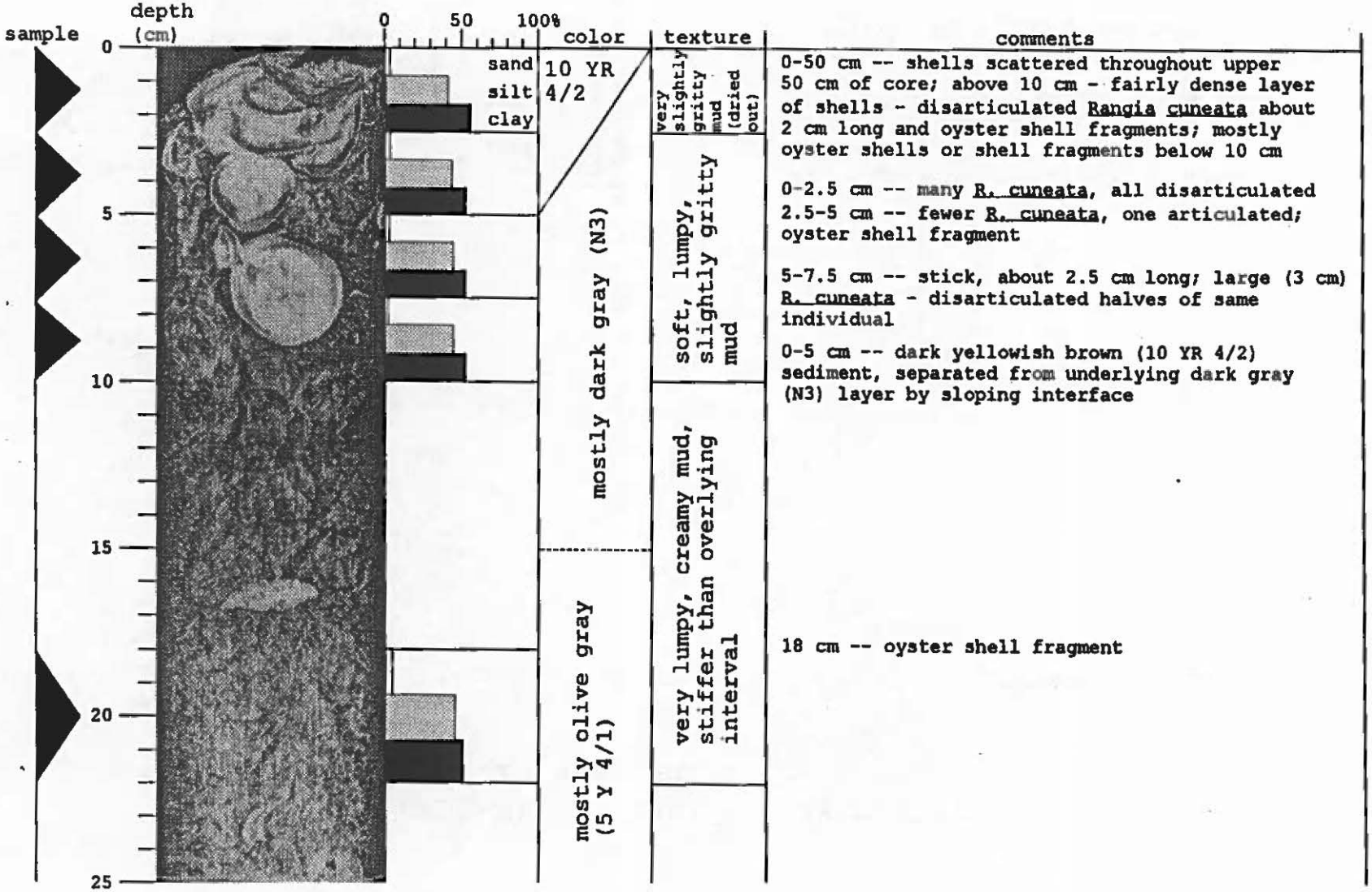


color	texture	comments
dark yellowish brown (10 YR 4/2)		core extruded on 12/7/94 - top 4 cm probably oxidized, dried out before extrusion; accounts for color
	soft mud	0-2.5 cm -- very slightly gritty mud (stiff because it's dry); no shells
mostly dark gray to grayish black (N2.5)	soft, smooth (not gritty), lumpy mud	2.5-5 cm -- disarticulated Rangia cuneata shell, 3 cm long; broken Macoma shell half, 3 cm long; tiny shell fragments 7.5-12 cm -- layer of R. cuneata, 2 cm long, several articulated
	soft, smooth (not lumpy or gritty), slick mud	12-18 cm -- in photographs, marks on split core surface due to osmotic knife cut 14-16 cm -- mostly dark gray to grayish black (N2.5), but with horizontal, medium light gray (N6) streaks partway across split face of core
irregular bands of olive gray (5 Y 4/1) and dark gray (N3)		~18-64 cm -- irregular bands of olive gray (5 Y 4/1) and dark gray (N3); vertical streaking, like this
	stiff, lumpy mud	~20-71 cm -- stiffer, lumpier mud than overlying interval; stiffer with depth to bottom of core

HART-MILLER ISLAND - 13th Year
Core BC5 April 21, 1994



HART-MILLER ISLAND - 13th Year
Core BC6 April 21, 1994



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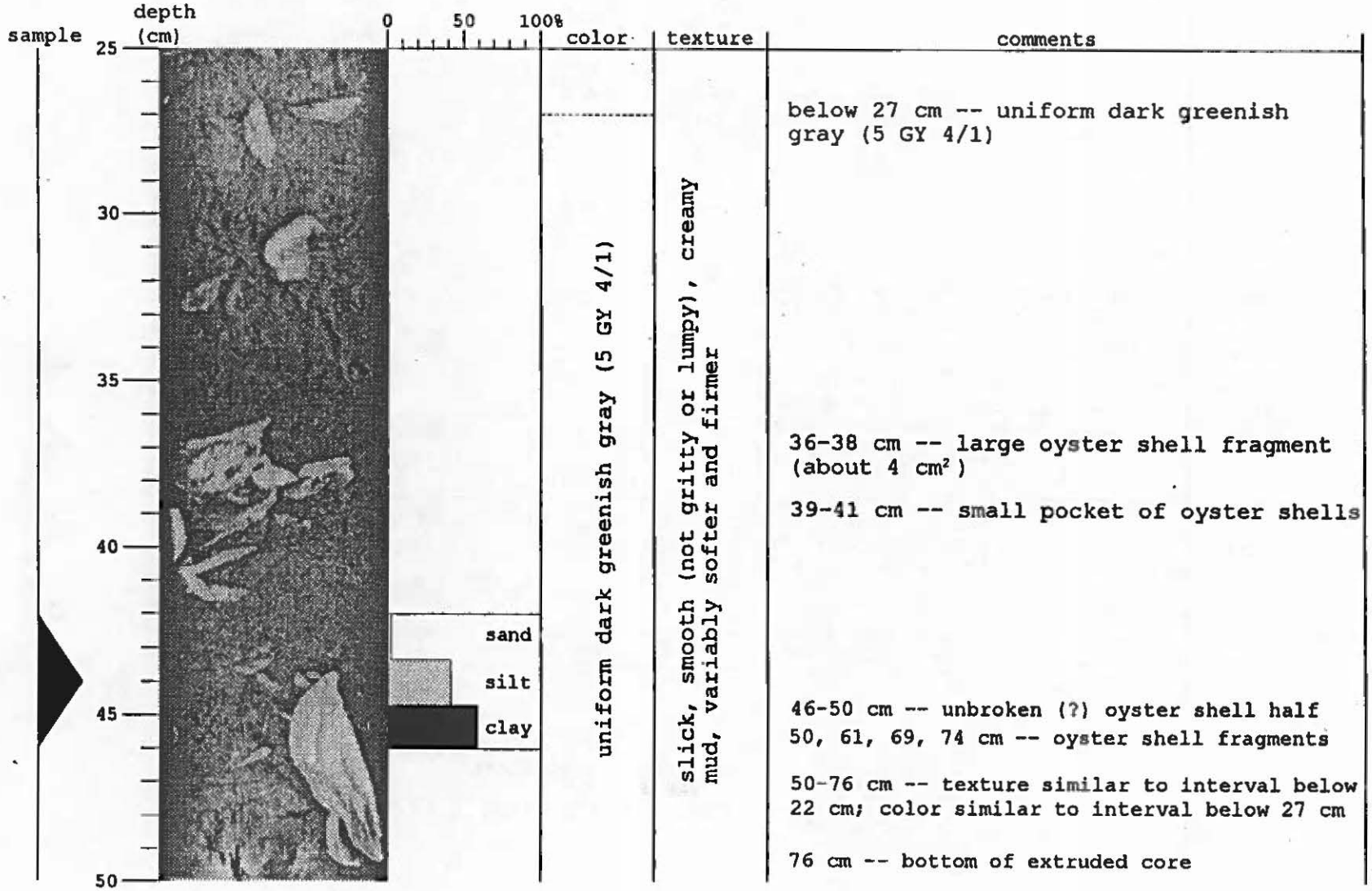
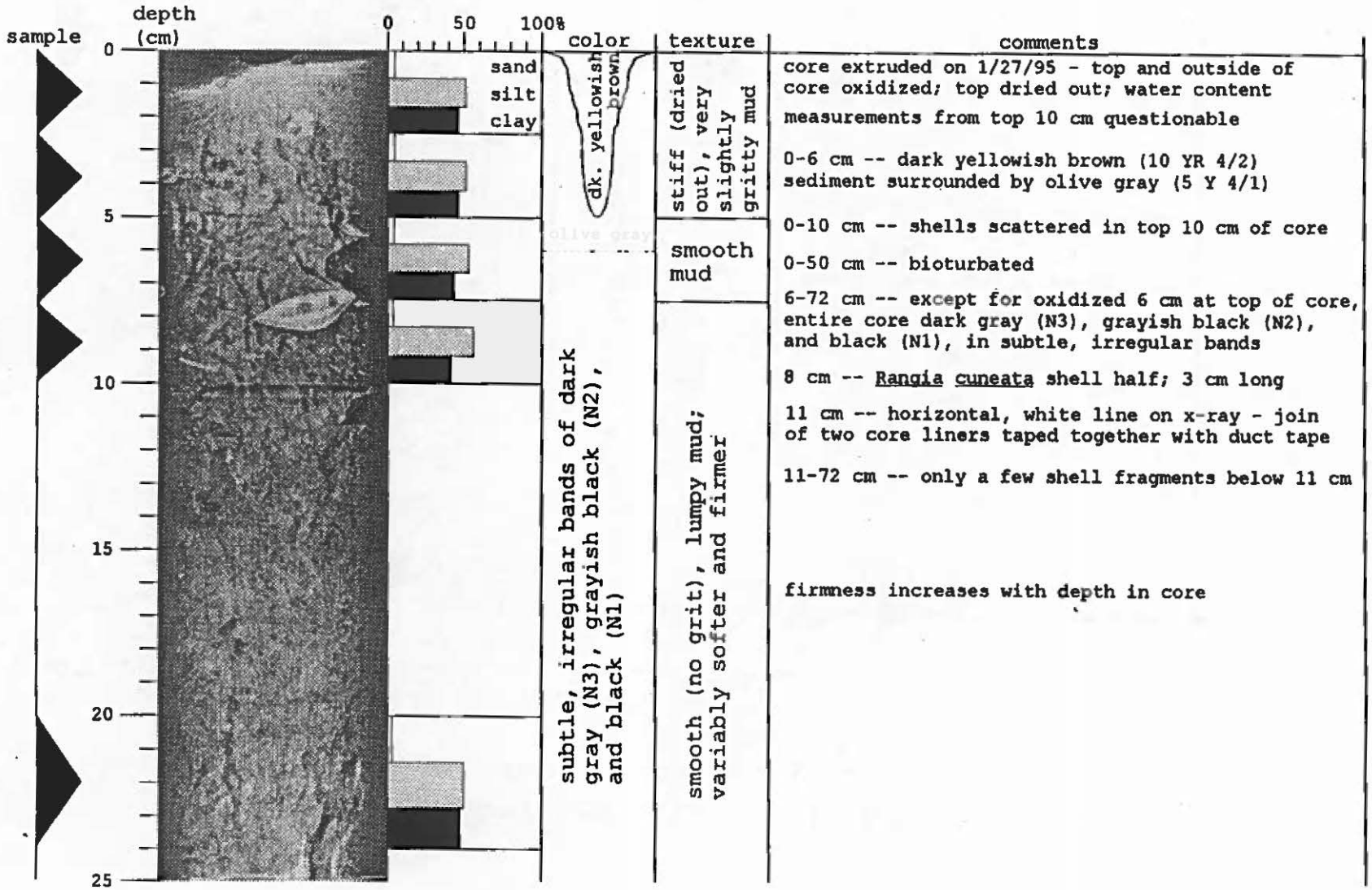
Core BC6 April 21, 1994



HART-MILLER ISLAND - 13th Year
Core BC7 April 21, 1994



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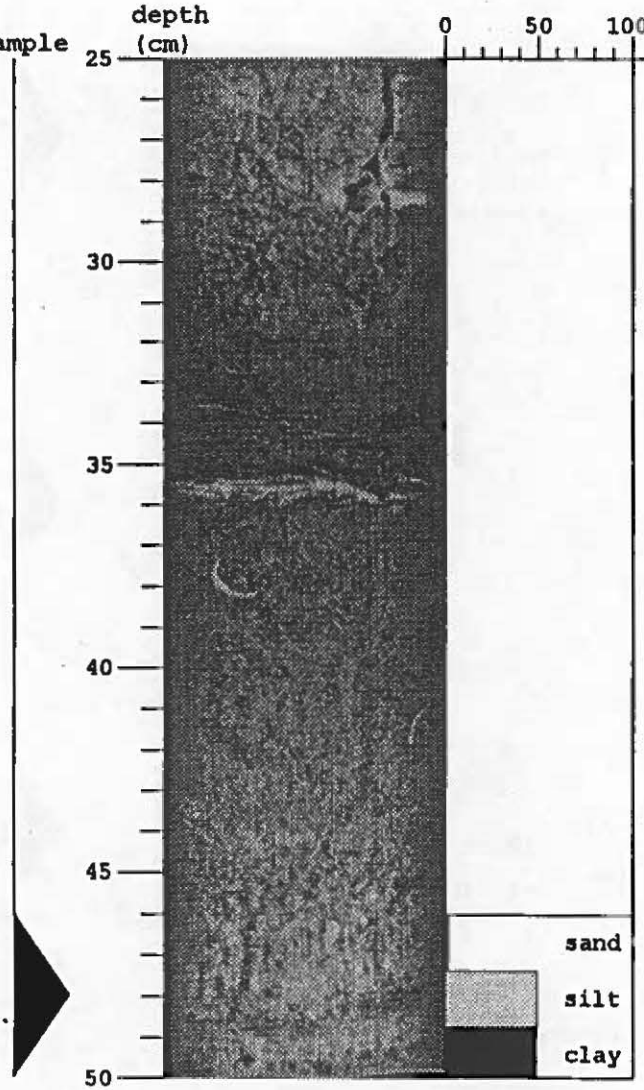
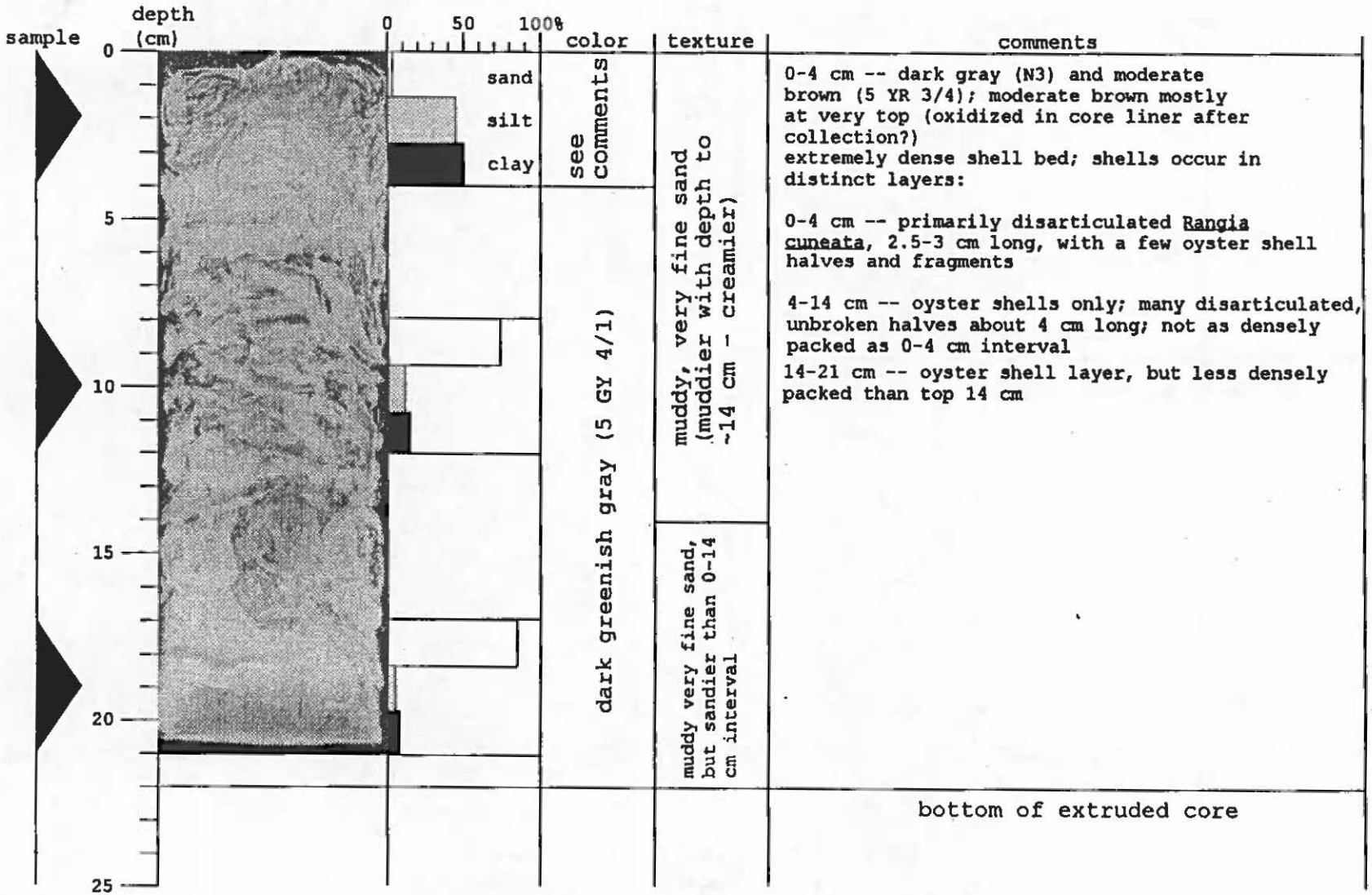
Core BC7 April 21, 1994

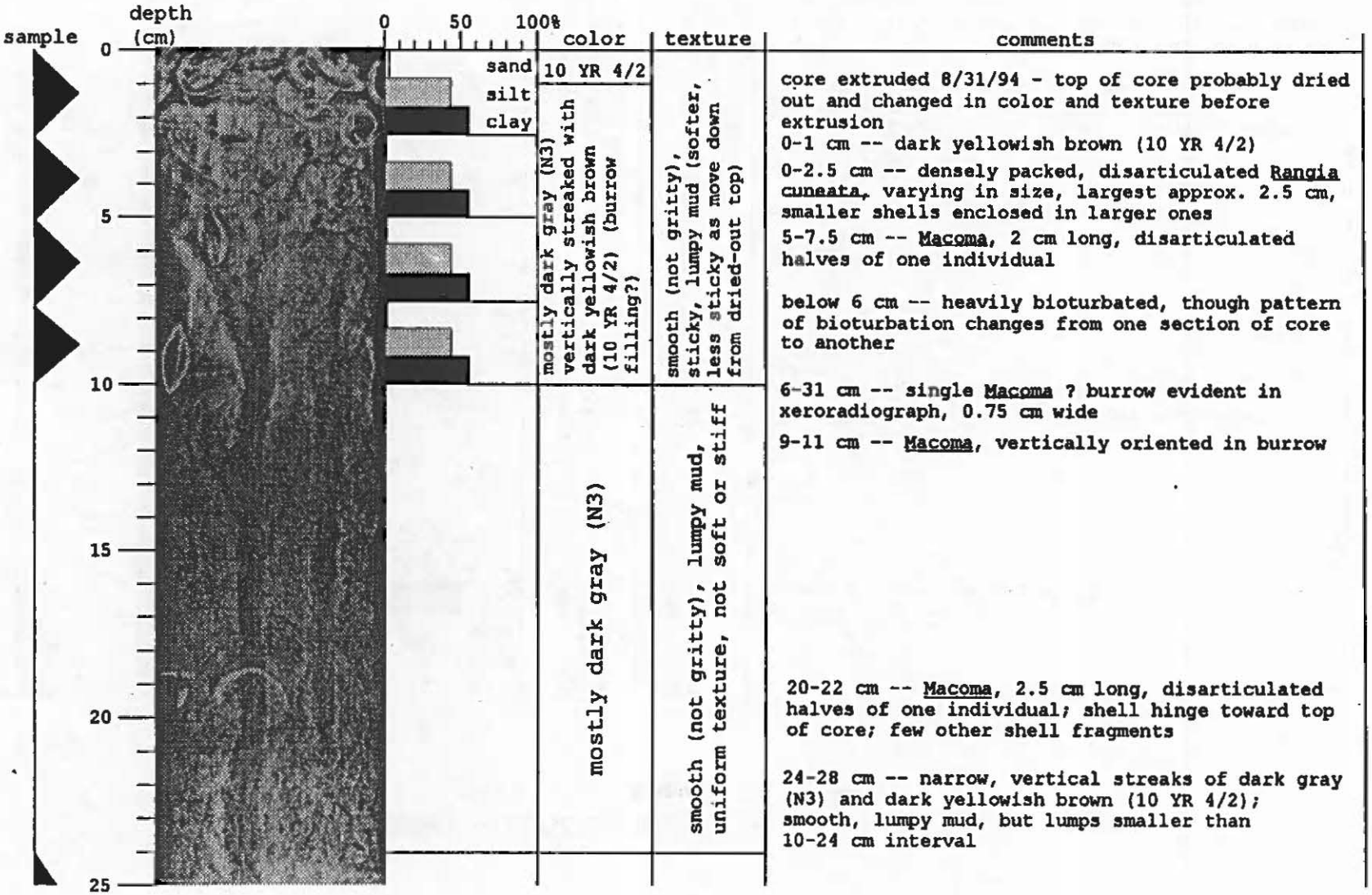


color	texture	comments
subtle, irregular bands of dark gray (N3), grayish black (N2), and black (N1)	smooth (no grit), lumpy mud; variably softer and firmer	36 cm -- marked increase in firmness 37 cm -- band on x-ray (no corresponding color band on split core)
	smooth (no grit), lumpy mud; somewhat firmer, more uniformly firm below 37 cm	50-72 cm -- texture similar to interval below 37 cm; color similar to interval below 6 cm 62-66 cm -- additional sediment sample 72 cm -- bottom of extruded core

HART-MILLER ISLAND - 13th Year
Core 12 April 21, 1994



HART-MILLER ISLAND - 13th Year
Core 25 April 21, 1994



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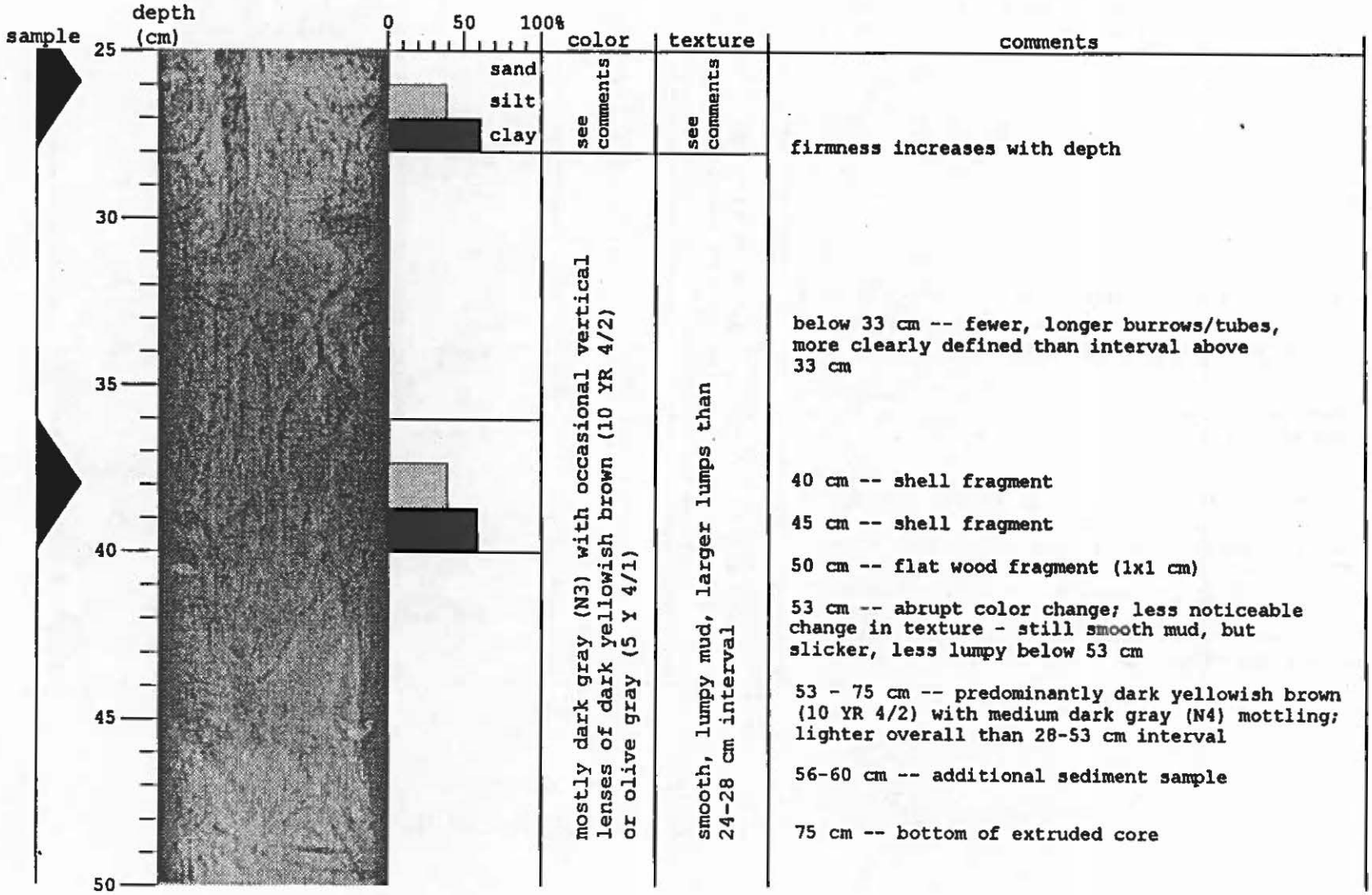

APPENDIX B

Metals in tissues

PRELIMINARY - 13TH YEAR HART-MILLER METALS IN TISSUE DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE
THE UNIT OF MEASUREMENT FOR ALL METALS IS MG/KG

STATION=' ' DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
	1	SRM1566A	TISSUE	.	14.3	3.53	0.85	61.8	502	10.4	2.35	747
	2	SRM1566A	TISSUE	.	13.9	3.64	0.81	61.8	482	10.0	2.33	724

STATION=XIF3325 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
HM16-1	1	MACOMA BALTICA	TISSUE	.	7.89	1.83	3.64	26.0	1740	202	5.05	203
HM16-2	2	CYATHURA	TISSUE	.	3.46	1.24	0.77	69.9	404	215	1.50	283

STATION=XIF4327 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
S6-1	1	RANGIA	TISSUE	17	1.89	0.19	0.64	2.93	74.3	73.8	7.91	30.6
S6-2	1	CYATHURA	TISSUE	.	11.30	2.36	1.81	137.00	539.0	603.0	.	359.0

190

STATION=XIF4405 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
G25-1	1	RANGIA	TISSUE	7.3	0.84	0.28	0.3	1.99	47.5	11.6	5.29	20.4

STATION=XIF4715 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
S4-1	1	CYATHURA	TISSUE	9.4	1.13	0.25	0.36	2.06	64.5	22.4	9.6	27

STATION=XIF5710 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
S1-1	1	RANGIA	TISSUE	24	1.48	0.42	0.72	1.98	98.4	138	6.61	40.2

PRELIMINARY - 13TH YEAR HART-MILLER METALS IN TISSUE DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE
THE UNIT OF MEASUREMENT FOR ALL METALS IS MG/KG

STATION=XIP5710 DATE=11APR94 (continued)

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
S1-2	2	RANGIA	TISSUE	11	0.81	0.23	0.26	2.4	31.1	33	3.49	18.8

STATION=XIF5805 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
HM12-1	1	RANGIA	TISSUE	4.3	1.39	0.21	0.34	2.3	61.5	19.8	6.89	20
HM12-2	2	CYATHURA	TISSUE	.	7.65	.	1.33	57.7	335.0	191.0	.	150

STATION=XIG5405 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
S7-1	1	RANGIA	TISSUE	4.3	1.21	0.25	3.24	2.75	129	18.4	4.46	21.7
S7-2	1	RANGIA	TISSUE	7.7	0.97	0.37	7.72	2.33	105	77.9	4.80	31.4

STATION=XIG7689 DATE=11APR94

SAMPLEID	GRAB NUMBER	SPECIES	MEDIA	PERCENTAGE OF LIPIDS	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	MANGANES	NICKEL	ZINC
HM22-1	1	RANGIA	TISSUE	7.8	0.61	0.25	0.57	1.83	60.2	15.7	5.57	26.5

APPENDIX C

Organic contaminants in tissues

PRELIMINARY - 13TH YEAR HART-MILLER TISSUE CONTAMINANT DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

STATION=XIF3325 REP_CODE=1 DATE=11APR94 TIME=1000

HM16

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	MACOMA	TISSUE	ALPHA-BHC	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	GAMMA-BHC	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	HEPTACHLOR	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	DIELDRIN	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	(4 4)-DDE	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	(4 4)-DDD	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	(4 4)-DDT	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	CIS-CHLORDANE	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	TRANS-CHLORDANE	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	~~TRANS-NONACHLOR~~	.	ND	0.037	MG/KG
1	MACOMA	TISSUE	CHLORDANE	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	TOXAPHENE	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	PCB-1016	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	PCB-1221	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	PCB-1232	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	PCB-1242	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	PCB-1248	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	PCB-1254	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	PCB-1260	.	ND	1.100	MG/KG
1	MACOMA	TISSUE	NAPHTHALENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	DIMETHYL PHTHALATE	.	ND	26.000	MG/KG
1	MACOMA	TISSUE	ACENAPHTHYLENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	ACENAPHTHENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	DIETHYLPHTHALATE	.	ND	26.000	MG/KG
1	MACOMA	TISSUE	FLUORENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	PHENANTHRENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	ANTHRACENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	26.000	MG/KG
1	MACOMA	TISSUE	FLUORANTHENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	PYRENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	26.000	MG/KG
1	MACOMA	TISSUE	CHYRSENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	BENZO(A)ANTHRACENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	26.000	MG/KG
1	MACOMA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	26.000	MG/KG
1	MACOMA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	BENZO(A) PYRENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	BENZO(G H I) PERYLENE	.	ND	11.000	MG/KG
1	MACOMA	TISSUE	HEXACHLOROBENZENE	.	ND	11.000	MG/KG

STATION=XIF3325 REP_CODE=2 DATE=11APR94 TIME=1000

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
2	CYATHURA	TISSUE	ALPHA-BHC	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	GAMMA-BHC	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	HEPTACHLOR	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	DIELDRIN	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDE	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDD	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDT	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	CIS-CHLORDANE	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	TRANS-CHLORDANE	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	TRANS-NONACHLOR	.	ND	0.037	MG/KG
2	CYATHURA	TISSUE	CHLORDANE	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	TOXAPHENE	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	PCB-1016	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	PCB-1221	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	PCB-1232	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	PCB-1242	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	PCB-1248	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	PCB-1254	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	PCB-1260	.	ND	1.100	MG/KG
2	CYATHURA	TISSUE	NAPHTHALENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	DIMETHYL PHTHALATE	.	ND	20.000	MG/KG
2	CYATHURA	TISSUE	ACENAPHTHYLENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	ACENAPHTHENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	DIETHYLPHTHALATE	.	ND	20.000	MG/KG
2	CYATHURA	TISSUE	FLUORENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	PHENANTHRENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	ANTHRACENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	20.000	MG/KG
2	CYATHURA	TISSUE	FLUORANTHENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	PYRENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	20.000	MG/KG
2	CYATHURA	TISSUE	CHYRSENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	BENZO(A)ANTHRACENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	20.000	MG/KG
2	CYATHURA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	20.000	MG/KG
2	CYATHURA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	BENZO(A) PYRENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	BENZO(G H I) PERYLENE	.	ND	7.800	MG/KG
2	CYATHURA	TISSUE	HEXACHLOROBENZENE	.	ND	7.800	MG/KG

STATION=XIF4327 REP_CODE=1 DATE=11APR94 TIME=1024

S6

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	DIELDRIN	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0042	MG/KG
1	RANGIA	TISSUE	CHLORDANE	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	TOXAPHENE	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	PCB-1016	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	PCB-1221	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	PCB-1232	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	PCB-1242	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	PCB-1248	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	PCB-1254	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	PCB-1260	.	ND	0.1300	MG/KG
1	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	2.3000	MG/KG
1	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	DIETHYLPHTHALATE	.	ND	2.3000	MG/KG
1	RANGIA	TISSUE	FLUORENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	ANTHRACENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	2.3000	MG/KG
1	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	PYRENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	2.3000	MG/KG
1	RANGIA	TISSUE	CHYRSENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	2.3000	MG/KG
1	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	2.3000	MG/KG
1	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.9200	MG/KG
1	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.9200	MG/KG

STATION=XIP4327 REP_CODE=2 DATE=11APR94 TIME=1024

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
2	CYATHURA	TISSUE	ALPHA-BHC	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	GAMMA-BHC	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	HEPTACHLOR	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	DIELDRIN	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDE	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDD	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDT	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	CIS-CHLORDANE	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	TRANS-CHLORDANE	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	TRANS-NONACHLOR	.	ND	0.18	MG/KG
2	CYATHURA	TISSUE	CHLORDANE	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	TOXAPHENE	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	PCB-1016	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	PCB-1221	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	PCB-1232	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	PCB-1242	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	PCB-1248	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	PCB-1254	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	PCB-1260	.	ND	5.30	MG/KG
2	CYATHURA	TISSUE	NAPHTHALENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	DIMETHYL PHTHALATE	.	ND	90.00	MG/KG
2	CYATHURA	TISSUE	ACENAPHTHYLENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	ACENAPHTHENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	DIETHYLPHTHALATE	117		90.00	MG/KG
2	CYATHURA	TISSUE	FLUORENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	PHENANTHRENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	ANTHRACENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	90.00	MG/KG
2	CYATHURA	TISSUE	FLUORANTHENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	PYRENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	90.00	MG/KG
2	CYATHURA	TISSUE	CHYRSENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	BENZO(A)ANTHRACENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	208		90.00	MG/KG
2	CYATHURA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	90.00	MG/KG
2	CYATHURA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	BENZO(A) PYRENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	BENZO(G H I) PERYLENE	.	ND	36.00	MG/KG
2	CYATHURA	TISSUE	HEXACHLOROBENZENE	.	ND	36.00	MG/KG

PRELIMINARY - 13TH YEAR HART-MILLER TISSUE CONTAMINANT DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

STATION=XIP4405 REP_CODE=1 DATE=11APR94 TIME=1130

625

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	DIELDRIN	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0025	MG/KG
1	RANGIA	TISSUE	CHLORDANE	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	TOXAPHENE	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	PCB-1016	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	PCB-1221	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	PCB-1232	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	PCB-1242	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	PCB-1248	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	PCB-1254	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	PCB-1260	.	ND	0.0750	MG/KG
1	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DIETHYLPHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	FLUORENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	ANTHRACENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	PYRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	CHYRSENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.4800	MG/KG
1	RANGIA-MS	TISSUE	ALPHA-BHC	0.246		0.0034	MG/KG
1	RANGIA-MS	TISSUE	GAMMA-BHC	0.270		0.0034	MG/KG

STATION=XIP4405 REP_CODE=1 DATE=11APR94 TIME=1130
(continued)

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA-MS	TISSUE	HEPTACHLOR	0.352		0.0034	MG/KG
1	RANGIA-MS	TISSUE	HEPTACHLOR EPOXIDE	0.249		0.0034	MG/KG
1	RANGIA-MS	TISSUE	DIELDRIN	0.208		0.0034	MG/KG
1	RANGIA-MS	TISSUE	(4 4)-DDE	0.267		0.0034	MG/KG
1	RANGIA-MS	TISSUE	(4 4)-DDD	0.345		0.0034	MG/KG
1	RANGIA-MS	TISSUE	(4 4)-DDT	0.478		0.0034	MG/KG
1	RANGIA-MS	TISSUE	CIS-CHLORDANE	0.301		0.0034	MG/KG
1	RANGIA-MS	TISSUE	TRANS-CHLORDANE	0.308		0.0034	MG/KG
1	RANGIA-MS	TISSUE	TRANS-NONACHLOR	0.301		0.0034	MG/KG
1	RANGIA-MS	TISSUE	CHLORDANE	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	TOXAPHENE	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	PCB-1016	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	PCB-1221	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	PCB-1232	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	PCB-1242	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	PCB-1248	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	PCB-1254	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	PCB-1260	.	ND	0.1000	MG/KG
1	RANGIA-MS	TISSUE	NAPHTHALENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	DIMETHYL PHTHALATE	.	ND	0.9000	MG/KG
1	RANGIA-MS	TISSUE	ACENAPHTHYLENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	ACENAPHTHENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	DIETHYLPHTHALATE	.	ND	0.9000	MG/KG
1	RANGIA-MS	TISSUE	FLUORENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	PHENANTHRENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	ANTHRACENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	0.9000	MG/KG
1	RANGIA-MS	TISSUE	FLUORANTHENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	PYRENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	0.9000	MG/KG
1	RANGIA-MS	TISSUE	CHYRSENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	0.9000	MG/KG
1	RANGIA-MS	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	0.9000	MG/KG
1	RANGIA-MS	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	BENZO(A) PYRENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.3600	MG/KG
1	RANGIA-MS	TISSUE	HEXACHLOROBENZENE	.	ND	0.3600	MG/KG
1	RANGIA-MSD	TISSUE	ALPHA-BHC	0.194		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	GAMMA-BHC	0.364		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	HEPTACHLOR	0.005		0.0048	MG/KG

STATION=XIF4405 REP_CODE=1 DATE=11APR94 TIME=1130
(continued)

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA-MSD	TISSUE	HEPTACHLOR EPOXIDE	0.019		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	DIELDRIN	0.014		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	(4 4)-DDE	0.015		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	(4 4)-DDD	0.092		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	(4 4)-DDT	0.015		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	CIS-CHLORDANE	0.024		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	TRANS-CHLORDANE	0.019		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	TRANS-NONACHLOR	0.015		0.0048	MG/KG
1	RANGIA-MSD	TISSUE	CHLORDANE	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	TOXAPHENE	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1016	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1221	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1232	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1242	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1248	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1254	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1260	.	ND	0.1500	MG/KG
1	RANGIA-MSD	TISSUE	NAPHTHALENE	9.300		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	DIMETHYL PHTHALATE	10.800		0.8000	MG/KG
1	RANGIA-MSD	TISSUE	ACENAPHTHYLENE	11.300		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	ACENAPHTHENE	11.900		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	DIETHYLPHTHALATE	11.800		0.8000	MG/KG
1	RANGIA-MSD	TISSUE	FLUORENE	12.300		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	PHENANTHRENE	13.000		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	ANTHRACENE	13.000		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	DI-N-BUTYLPHTHALATE	13.000		0.8000	MG/KG
1	RANGIA-MSD	TISSUE	FLUORANTHENE	12.100		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	PYRENE	12.400		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	BUTYLBENZYLPHTHALATE	12.000		0.8000	MG/KG
1	RANGIA-MSD	TISSUE	CHYRSENE	12.700		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(A)ANTHRACENE	12.200		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	23.100		0.8000	MG/KG
1	RANGIA-MSD	TISSUE	DI-N-OCTHYL PHTHALATE	11.900		0.8000	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(B) FLUORANTHENE	11.100		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(K)FLUORANTHENE	10.600		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(A) PYRENE	11.000		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	DIBENZO(A H) ANTHRACENE	9.400		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	INDENO(1 2 3-CD) PYRENE	9.400		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(G H I) PERYLENE	8.800		0.3200	MG/KG
1	RANGIA-MSD	TISSUE	HEXACHLOROBENZENE	12.200		0.3200	MG/KG

PRELIMINARY - 13TH YEAR HART-MILLER TISSUE CONTAMINANT DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

STATION=XIP4715 REP_CODE=1 DATE=11APR94 TIME=1215

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GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	CYATHURA	TISSUE	ALPHA-BHC	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	GAMMA-BHC	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	HEPTACHLOR	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	DIELDRIN	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	(4 4)-DDE	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	(4 4)-DDD	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	(4 4)-DDT	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	CIS-CHLORDANE	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	TRANS-CHLORDANE	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	TRANS-NONACHLOR	.	ND	0.003	MG/KG
1	CYATHURA	TISSUE	CHLORDANE	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	TOXAPHENE	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	PCB-1016	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	PCB-1221	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	PCB-1232	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	PCB-1242	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	PCB-1248	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	PCB-1254	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	PCB-1260	.	ND	0.090	MG/KG
1	CYATHURA	TISSUE	NAPHTHALENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	DIMETHYL PHTHALATE	.	ND	1.000	MG/KG
1	CYATHURA	TISSUE	ACENAPHTHYLENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	ACENAPHTHENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	DIETHYLPHTHALATE	10		1.000	MG/KG
1	CYATHURA	TISSUE	FLUORENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	PHENANTHRENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	ANTHRACENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	1.000	MG/KG
1	CYATHURA	TISSUE	FLUORANTHENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	PYRENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	1.000	MG/KG
1	CYATHURA	TISSUE	CHYRSENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	1.000	MG/KG
1	CYATHURA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	1.000	MG/KG
1	CYATHURA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	BENZO(A) PYRENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.420	MG/KG
1	CYATHURA	TISSUE	HEXACHLOROBENZENE	.	ND	0.420	MG/KG

PRELIMINARY - 13TH YEAR HART-MILLER TISSUE CONTAMINANT DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

STATION=XIP5710 REP_CODE=1 DATE=11APR94 TIME=1345

S1 S1

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	DIELDRIN	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0058	MG/KG
1	RANGIA	TISSUE	CHLORDANE	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	TOXAPHENE	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	PCB-1016	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	PCB-1221	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	PCB-1232	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	PCB-1242	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	PCB-1248	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	PCB-1254	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	PCB-1260	.	ND	0.1800	MG/KG
1	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	1.6000	MG/KG
1	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	DIETHYLPHTHALATE	.	ND	1.6000	MG/KG
1	RANGIA	TISSUE	FLUORENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	ANTHRACENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	1.6000	MG/KG
1	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	PYRENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	1.6000	MG/KG
1	RANGIA	TISSUE	CHYRSENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	1.6000	MG/KG
1	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	1.6000	MG/KG
1	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.6600	MG/KG
1	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.6600	MG/KG

STATION=XIF5710 REP_CODE=2 DATE=11APR94 TIME=1345

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
2	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	DIELDRIN	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0028	MG/KG
2	RANGIA	TISSUE	CHLORDANE	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	TOXAPHENE	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	PCB-1016	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	PCB-1221	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	PCB-1232	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	PCB-1242	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	PCB-1248	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	PCB-1254	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	PCB-1260	.	ND	0.0820	MG/KG
2	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	0.9500	MG/KG
2	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	DIETHYLPHTHALATE	.	ND	0.9500	MG/KG
2	RANGIA	TISSUE	FLUORENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	ANTHRACENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	0.9500	MG/KG
2	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	PYRENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	0.9500	MG/KG
2	RANGIA	TISSUE	CHYRSENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	1.4		0.9500	MG/KG
2	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	0.9500	MG/KG
2	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.3800	MG/KG
2	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.3800	MG/KG

PRELIMINARY - 13TH YEAR HART-MILLER TISSUE CONTAMINANT DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

STATION=XIF5805 REP_CODE=1 DATE=11APR94 TIME=1150

HM12

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	DIELDRIN	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0028	MG/KG
1	RANGIA	TISSUE	CHLORDANE	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	TOXAPHENE	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	PCB-1016	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	PCB-1221	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	PCB-1232	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	PCB-1242	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	PCB-1248	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	PCB-1254	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	PCB-1260	.	ND	0.0850	MG/KG
1	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	1.0000	MG/KG
1	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	DIETHYLPHTHALATE	.	ND	1.0000	MG/KG
1	RANGIA	TISSUE	FLUORENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	ANTHRACENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	1.0000	MG/KG
1	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	PYRENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	1.0000	MG/KG
1	RANGIA	TISSUE	CHYRSENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	11.300		1.0000	MG/KG
1	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	1.0000	MG/KG
1	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.4000	MG/KG
1	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.4000	MG/KG
1	RANGIA-MS	TISSUE	ALPHA-BHC	0.285		0.0032	MG/KG
1	RANGIA-MS	TISSUE	GAMMA-BHC	0.298		0.0032	MG/KG

STATION=XIF5805 REP_CODE=1 DATE=11APR94 TIME=1150
(continued)

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA-MS	TISSUE	HEPTACHLOR	0.434		0.0032	MG/KG
1	RANGIA-MS	TISSUE	HEPTACHLOR EPOXIDE	0.301		0.0032	MG/KG
1	RANGIA-MS	TISSUE	DIELDRIN	0.282		0.0032	MG/KG
1	RANGIA-MS	TISSUE	(4 4)-DDE	0.275		0.0032	MG/KG
1	RANGIA-MS	TISSUE	(4 4)-DDD	0.333		0.0032	MG/KG
1	RANGIA-MS	TISSUE	(4 4)-DDT	0.473		0.0032	MG/KG
1	RANGIA-MS	TISSUE	CIS-CHLORDANE	0.320		0.0032	MG/KG
1	RANGIA-MS	TISSUE	TRANS-CHLORDANE	0.304		0.0032	MG/KG
1	RANGIA-MS	TISSUE	TRANS-NONACHLOR	0.285		0.0032	MG/KG
1	RANGIA-MS	TISSUE	CHLORDANE	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	TOXAPHENE	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	PCB-1016	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	PCB-1221	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	PCB-1232	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	PCB-1242	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	PCB-1248	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	PCB-1254	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	PCB-1260	.	ND	0.0970	MG/KG
1	RANGIA-MS	TISSUE	NAPHTHALENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	DIMETHYL PHTHALATE	.	ND	1.1000	MG/KG
1	RANGIA-MS	TISSUE	ACENAPHTHYLENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	ACENAPHTHENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	DIETHYLPHTHALATE	.	ND	1.1000	MG/KG
1	RANGIA-MS	TISSUE	FLUORENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	PHENANTHRENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	ANTHRACENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	1.1000	MG/KG
1	RANGIA-MS	TISSUE	FLUORANTHENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	PYRENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	1.1000	MG/KG
1	RANGIA-MS	TISSUE	CHYRSENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	1.1000	MG/KG
1	RANGIA-MS	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	1.1000	MG/KG
1	RANGIA-MS	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	BENZO(A) PYRENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.4400	MG/KG
1	RANGIA-MS	TISSUE	HEXACHLOROBENZENE	.	ND	0.4400	MG/KG
1	RANGIA-MSD	TISSUE	ALPHA-BHC	0.170		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	GAMMA-BHC	0.198		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	HEPTACHLOR	0.312		0.0071	MG/KG

STATION=XIF5805 REP_CODE=1 DATE=11APR94 TIME=1150
(continued)

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA-MSD	TISSUE	HEPTACHLOR EPOXIDE	0.227		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	DIELDRIN	0.234		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	(4 4)-DDE	0.184		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	(4 4)-DDD	0.283		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	(4 4)-DDT	0.431		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	CIS-CHLORDANE	0.276		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	TRANS-CHLORDANE	0.283		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	TRANS-NONACHLOR	0.269		0.0071	MG/KG
1	RANGIA-MSD	TISSUE	CHLORDANE	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	TOXAPHENE	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1016	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1221	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1232	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1242	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1248	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1254	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	PCB-1260	.	ND	0.2100	MG/KG
1	RANGIA-MSD	TISSUE	NAPHTHALENE	27.300		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	DIMETHYL PHTHALATE	29.100		2.2000	MG/KG
1	RANGIA-MSD	TISSUE	ACENAPHTHYLENE	30.600		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	ACENAPHTHENE	32.200		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	DIETHYLPHTHALATE	30.200		2.2000	MG/KG
1	RANGIA-MSD	TISSUE	FLUORENE	32.600		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	PHENANTHRENE	34.600		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	ANTHRACENE	34.500		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	DI-N-BUTYLPHTHALATE	33.500		2.2000	MG/KG
1	RANGIA-MSD	TISSUE	FLUORANTHENE	31.800		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	PYRENE	32.800		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	BUTYLBENZYLPHTHALATE	31.500		2.2000	MG/KG
1	RANGIA-MSD	TISSUE	CHYRSENE	34.500		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(A)ANTHRACENE	33.200		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	35.700		2.2000	MG/KG
1	RANGIA-MSD	TISSUE	DI-N-OCTHYL PHTHALATE	31.700		2.2000	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(B) FLUORANTHENE	29.200		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(K)FLUORANTHENE	29.500		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(A) PYRENE	29.900		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	DIBENZO(A H) ANTHRACENE	26.400		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	INDENO(1 2 3-CD) PYRENE	26.100		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	BENZO(G H I) PERYLENE	24.600		0.9000	MG/KG
1	RANGIA-MSD	TISSUE	HEXACHLOROBENZENE	32.300		0.9000	MG/KG

STATION=XIF5805 REP_CODE=2 DATE=11APR94 TIME=1150

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
2	CYATHURA	TISSUE	ALPHA-BHC	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	GAMMA-BHC	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	HEPTACHLOR	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	DIELDRIN	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDE	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDD	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	(4 4)-DDT	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	CIS-CHLORDANE	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	TRANS-CHLORDANE	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	TRANS-NONACHLOR	.	ND	0.1	MG/KG
2	CYATHURA	TISSUE	CHLORDANE	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	TOXAPHENE	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	PCB-1016	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	PCB-1221	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	PCB-1232	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	PCB-1242	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	PCB-1248	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	PCB-1254	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	PCB-1260	.	ND	3.2	MG/KG
2	CYATHURA	TISSUE	NAPHTHALENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	DIMETHYL PHTHALATE	.	ND	73.0	MG/KG
2	CYATHURA	TISSUE	ACENAPHTHYLENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	ACENAPHTHENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	DIETHYLPHTHALATE	.	ND	73.0	MG/KG
2	CYATHURA	TISSUE	FLUORENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	PHENANTHRENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	ANTHRACENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	73.0	MG/KG
2	CYATHURA	TISSUE	FLUORANTHENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	PYRENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	73.0	MG/KG
2	CYATHURA	TISSUE	CHYRSENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	BENZO(A)ANTHRACENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	73.0	MG/KG
2	CYATHURA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	73.0	MG/KG
2	CYATHURA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	BENZO(A) PYRENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	BENZO(G H I) PERYLENE	.	ND	29.0	MG/KG
2	CYATHURA	TISSUE	HEXACHLOROBENZENE	.	ND	29.0	MG/KG

PRELIMINARY - 13TH YEAR HART-MILLER TISSUE CONTAMINANT DATA
ARCHIVED IN THE DNR CHESAPEAKE BAY RESEARCH AND MONITORING
RESOURCE MONITORING DATABASE

STATION=XIG5405 REP_CODE=1 DATE=11APR94 TIME=1324

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GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	DIELDRIN	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0022	MG/KG
1	RANGIA	TISSUE	CHLORDANE	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	TOXAPHENE	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	PCB-1016	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	PCB-1221	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	PCB-1232	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	PCB-1242	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	PCB-1248	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	PCB-1254	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	PCB-1260	.	ND	0.0650	MG/KG
1	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	0.8000	MG/KG
1	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	DIETHYLPHTHALATE	1.5		0.8000	MG/KG
1	RANGIA	TISSUE	FLUORENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	ANTHRACENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	0.8		0.8000	MG/KG
1	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	PYRENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	0.8000	MG/KG
1	RANGIA	TISSUE	CHYRSENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	0.8		0.8000	MG/KG
1	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	1.1		0.8000	MG/KG
1	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.3200	MG/KG
1	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.3200	MG/KG

STATION=XIG5405 REP_CODE=2 DATE=11APR94 TIME=1324

GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
2	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	DIELDRIN	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0039	MG/KG
2	RANGIA	TISSUE	CHLORDANE	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	TOXAPHENE	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	PCB-1016	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	PCB-1221	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	PCB-1232	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	PCB-1242	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	PCB-1248	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	PCB-1254	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	PCB-1260	.	ND	0.1200	MG/KG
2	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	2.4000	MG/KG
2	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	DIETHYLPHTHALATE	.	ND	2.4000	MG/KG
2	RANGIA	TISSUE	FLUORENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	ANTHRACENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	2.4000	MG/KG
2	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	PYRENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	2.4000	MG/KG
2	RANGIA	TISSUE	CHYRSENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	2.4000	MG/KG
2	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	2.4000	MG/KG
2	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.9600	MG/KG
2	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.9600	MG/KG

STATION=XIG7689 REP_CODE=1 DATE=11APR94 TIME=1445

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GRAB NUMBER	SPECIES	MEDIA	PARAMETER	VALUE	FLAG	LIMIT	UNIT
1	RANGIA	TISSUE	ALPHA-BHC	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	GAMMA-BHC	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	HEPTACHLOR EPOXIDE	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	DIELDRIN	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	(4 4)-DDE	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	(4 4)-DDD	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	(4 4)-DDT	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	CIS-CHLORDANE	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	TRANS-CHLORDANE	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	TRANS-NONACHLOR	.	ND	0.0041	MG/KG
1	RANGIA	TISSUE	CHLORDANE	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	TOXAPHENE	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	PCB-1016	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	PCB-1221	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	PCB-1232	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	PCB-1242	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	PCB-1248	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	PCB-1254	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	PCB-1260	.	ND	0.1200	MG/KG
1	RANGIA	TISSUE	NAPHTHALENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DIMETHYL PHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	ACENAPHTHYLENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	ACENAPHTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DIETHYLPHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	FLUORENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	PHENANTHRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	ANTHRACENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DI-N-BUTYLPHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	FLUORANTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	PYRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BUTYLBENZYLPHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	CHYRSENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(A)ANTHRACENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BIS(2-ETHYLHEXYL) PHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	DI-N-OCTHYL PHTHALATE	.	ND	1.2000	MG/KG
1	RANGIA	TISSUE	BENZO(B) FLUORANTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(K)FLUORANTHENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(A) PYRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	DIBENZO(A H) ANTHRACENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	INDENO(1 2 3-CD) PYRENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	BENZO(G H I) PERYLENE	.	ND	0.4800	MG/KG
1	RANGIA	TISSUE	HEXACHLOROBENZENE	.	ND	0.4800	MG/KG