Assessment of the Environmental Impacts of the Hart and Miller Islands Containment Facility

Fourth Annual Data Report

August 1984 - August 1985

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List Of Fish Population Site Codes

CODES	GEAR
DTP	D-TRAP
EP6	EEL POTS
E17	EEL POTS
E20	EEL POTS
HM1	GILL NET
MTO	MORTON TRAP
S20	200' SEINE
TAQ	25' AQUARIOUS TRAWL
T25	25' INSHORE TRAWL

CODES	SITES
HG1-5	GILL NET SITES
HS2,4,5	200' SEINE SITES
HTO,1,2,4,5,6,7,9	OFFSHORE TRAWL SITES

FISH POPULATION SPECIES CODE

Code	Common Name	Scientific Name
1	Striped Bass	Morone saxatilis
2	White Perch	Morone americana
8	Atlantic Menhaden	Brevoortia tyrannus
9	Gizzard Shad	Dorosoma cepodianum
10	Threadfin Shad	Dorosoma pretenense
12	Atlantic Herring	Clupea harengus harengus
13	Sea Lamprey	Petromyzon marinus
14	Cownose Ray	Rhinoptera bonasus
21	American Eel	Anguilla rostrata
25	Bay Anchovy	Anchoa mitchilli
29	Carp	Cyprinus carpio
41	White Catfish	Ictalurus catus
42	Brown Bullhead	Ictalurus nebulosus
43	Channel Catfish	Ictalurus punctatus
53	Banded Killifish	Fundulus diaphanus
55	Striped Killifish	Fundulus majalis
60	Rough Silverside	Membras martinica
62	Atlantic Silverside	Menidia menidia
67	Northern Pipefish	Sygnathusfuscus
72	Pumkinseed	Lepomis gibbosus
75	Yellow Perch	Perca flavescens
76	Bluefish	Pomatomus saltatrix
82	Spot	Leiostomus xanthurus
92	Harvestfish	Peprilus alepidotus
96	Summer Flounder	Paralichthys dentatus
98	Hogchoker	Trinectes maculatus

INITIAL LISTING OF HART-MILLER DATA

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=2 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	0082	55	101	161	
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	0098	5	123	145	
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	2612	2	.	.	M
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	2612	1	.	.	F
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	2613	4	.	.	M
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	2613	2	.	.	F
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	2614	3	.	.	M
HG3	100	T25	.	36000	18	.	6	15.5		NW	15	1	.	2614	2	.	.	F
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	0082	291	103	160	
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	0002	13	155	150	
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	0098	6	113	148	
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	0043	1	.	.	
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	2612	5	.	.	M
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	2612	1	.	.	F
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	2613	3	.	.	M
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	2613	7	.	.	F
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	2614	2	.	.	M
HG3	1145	T25	.	33000	18	.	6	15.5		NW	15	1	.	2614	4	.	.	F

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=3 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG3	1000	MTO	240	.	18	.	6.5	15.5	LO	SW	20	.	.	0000	.	.	.	
HG3	1015	DTP	240	.	18	.	6.5	15.5	LO	SW	20	.	.	0002	14	142	214	
HG3	1015	DTP	240	.	18	.	6.5	15.5	LO	SW	20	.	.	0043	1	.	.	
HG3	1015	MTO	240	.	18	.	6.5	15.5		SW	20	.	.	0002	1	.	.	
HG3	1015	MTO	240	.	18	.	6.5	15.5		SW	20	.	.	2613	1	.	.	M
HG3	1020	E20	240	.	18	.	6.5	15.5	LO	SW	20	.	.	0072	1	.	.	
HG3	1020	E20	240	.	18	.	6.5	15.5	LO	SW	20	.	.	0021	2	.	.	
HG3	1020	E20	240	.	18	.	6.5	15.5	LO	SW	20	.	.	2612	1	.	.	M
HG3	1020	E20	240	.	18	.	6.5	15.5	LO	SW	20	.	.	2613	1	.	.	M
HG3	1020	E20	240	.	18	.	6.5	15.5	LO	SW	20	.	.	2614	1	.	.	M
HG3	1025	DTP	240	.	18	.	6.5	15.5	LO	SW	20	.	.	0002	12	156	200	
HG3	1025	DTP	240	.	18	.	6.5	15.5	LO	SW	20	.	.	0098	1	.	.	
HG3	1025	DTP	240	.	18	.	6.5	15.5	LO	SW	20	.	.	2613	1	.	.	F
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	0082	173	100	164	
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	0098	2	122	131	
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	0002	10	160	200	
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	2612	7	.	.	M
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	2612	4	.	.	F
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	2613	7	.	.	M
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	2613	2	.	.	F
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	2614	5	.	.	M
HG3	1130	T25	.	33000	18	.	6.5	15.5	LO	SW	20	.	.	2614	2	.	.	F

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=4 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	1100	E20	240	.	18	.	6.0	17.0		NE	10	4	.	0021	.	80	178	
HG2	1100	E20	240	.	18	.	6.0	17.0		NE	10	4	.	0043	.	.	.	
HG3	1000	MTO	240	.	18	.	6.5	15.5	LO	WE	10	.	.	2614	1	.	.	M
HG3	1005	MTO	240	.	18	.	6.5	15.5	LO	WE	10	.	.	2614	1	.	.	M
HG3	1015	DTP	240	.	18	.	6.5	15.5	LO	WE	10	.	.	0002	9	120	192	
HG3	1015	DTP	240	.	18	.	6.5	15.5	LO	WE	10	.	.	0043	1	.	.	
HG3	1015	DTP	240	.	18	.	6.5	15.5	LO	WE	10	.	.	2614	1	.	.	M
HG3	1030	DTP	240	.	18	.	6.5	15.5	LO	WE	10	.	.	0002	6	134	175	
HG3	1030	DTP	240	.	18	.	6.5	15.5	LO	WE	10	.	.	0072	2	130	133	
HG3	1030	DTP	240	.	18	.	6.5	15.5	LO	WE	10	.	.	0082	1	.	.	
HG3	1030	DTP	240	.	18	.	6.5	15.5	LO	WE	10	.	.	0075	1	.	.	
HG3	1030	E20	240	.	18	.	6.5	15.5	LO	WE	10	.	.	0021	2	.	.	
HG3	1030	E20	240	.	18	.	6.5	15.5	LO	WE	10	.	.	2612	1	.	.	M
HG3	1030	E20	240	.	18	.	6.5	15.5	LO	WE	10	.	.	2613	4	.	.	M
HG3	1035	DTP	240	.	18	.	6.0	17.0		NE	10	4	.	0002	2	155	193	
HG3	1035	DTP	240	.	18	.	6.0	17.0		NE	10	4	.	2613	1	.	.	F
HG3	1100	T25	.	33000	18	.	6.5	15.5	LO	WE	10	.	.	0082	10	99	124	
HG3	1100	T25	.	33000	18	.	6.5	15.5	LO	WE	10	.	.	0002	1	.	.	
HG3	1100	T25	.	33000	18	.	6.5	15.5	LO	WE	10	.	.	0098	1	.	.	
HG3	1100	T25	.	33000	18	.	6.5	15.5	LO	WE	10	.	.	2613	1	.	.	M
HG3	1100	T25	.	33000	18	.	6.5	15.5	LO	WE	10	.	.	2613	1	.	.	F
HG3	1100	T25	.	33000	18	.	6.5	15.5	LO	WE	10	.	.	2614	3	.	.	M

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=6 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HS4	145	S20	.	6388	5	.	7	16		SW	12	2	.	0002	36	126	174	
HS4	145	S20	.	6388	5	.	7	16		SW	12	2	.	0001	2	.	.	
HS4	145	S20	.	6388	5	.	7	16		SW	12	2	.	0082	16	90	130	
HS4	145	S20	.	6388	5	.	7	16		SW	12	2	.	0060	15	63	100	
HS4	145	S20	.	6388	5	.	7	16		SW	12	2	.	0053	1	.	.	
HS4	145	S20	.	6388	5	.	7	16		SW	12	2	.	0025	.	52	56	

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=8 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	0082	369	102	145	
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	0001	3	132	145	
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	0096	2	273	285	
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	0002	9	128	169	
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	0025	63	40	83	
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	0098	1	.	.	
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	0029	1	.	.	
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	2612	1	.	.	M
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	2612	1	.	.	F
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	2613	2	.	.	M
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	2613	2	.	.	F
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	2614	4	.	.	M
HG2	1030	T25	.	33000	16	.	7	16		SE	12	2	.	2614	2	.	.	F
HG3	1135	T25	.	18000	18	.	7	16		SE	12	2	.	0082	127	101	150	

INITIAL LISTING OF HART-MILLER DATA

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=9 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HT1	925	TAQ	.	54750	.	.	7.9	15.7			.	2	.	2613	5	.	.	F
HT1	925	TAQ	.	54750	.	.	7.9	15.7			.	2	.	2614	1	.	.	M
HT1	925	TAQ	.	54750	.	.	7.9	15.7			.	2	.	2614	3	.	.	F
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	0043	1	.	.	
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	0082	87	106	162	
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	0002	70	131	169	
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	0098	2	.	.	
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	0008	1	.	.	
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	2612	2	.	.	M
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	2613	5	.	.	M
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	2614	2	.	.	M
HT2	945	TAQ	.	53250	.	.	8.0	15.7			.	2	.	2614	1	.	.	F
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	0002	92	161	211	
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	0001	1	.	.	
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	0082	32	110	148	
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	0098	1	.	.	
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	2612	4	.	.	M
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	2612	6	.	.	F
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	2613	2	.	.	M
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	2613	2	.	.	F
HT4	1005	TAQ	.	66000	.	.	8.0	15.7			.	2	.	2614	2	.	.	M
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	0001	1	.	.	
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	0002	18	137	175	
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	0082	69	174	111	
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	0008	1	.	.	
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	2612	4	.	.	M
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	2612	3	.	.	F
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	2613	2	.	.	M
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	2613	1	.	.	F
HT5	1100	TAQ	.	48750	.	.	8.0	15.4			.	2	.	2614	3	.	.	M
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	0001	1	.	.	
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	0043	1	.	.	
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	0002	117	130	201	
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	0082	72	104	159	
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	0098	1	.	.	
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	2612	1	.	.	M
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	2612	3	.	.	F
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	2613	3	.	.	M
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	2613	3	.	.	F
HT6	1030	TAQ	.	.	.	.	7.9	15.6			.	2	.	2614	2	.	.	F
HT7	1130	TAQ	.	45000	.	.	8.0	15.6			.	2	.	0002	2	.	.	
HT7	1130	TAQ	.	45000	.	.	8.0	15.6			.	2	.	0082	6	105	120	
HT7	1130	TAQ	.	45000	.	.	8.0	15.6			.	2	.	2612	1	.	.	M
HT7	1130	TAQ	.	45000	.	.	8.0	15.6			.	2	.	2613	1	.	.	M
HT7	1130	TAQ	.	45000	.	.	8.0	15.6			.	2	.	2613	1	.	.	F
HT7	1130	TAQ	.	45000	.	.	8.0	15.6			.	2	.	2614	5	.	.	M
HT7	1130	TAQ	.	45000	.	.	8.0	15.6			.	2	.	2614	2	.	.	F
HT9	900	TAQ	.	60750	.	.	8.1	15.9			.	2	.	0002	445	149	205	
HT9	900	TAQ	.	60750	.	.	8.1	15.9			.	2	.	0001	1	.	.	
HT9	900	TAQ	.	60750	.	.	8.1	15.9			.	2	.	0082	236	141	165	
HT9	900	TAQ	.	60750	.	.	8.1	15.9			.	2	.	2612	2	.	.	M
HT9	900	TAQ	.	60750	.	.	8.1	15.9			.	2	.	2613	1	.	.	M
HT9	900	TAQ	.	60750	.	.	8.1	15.9			.	2	.	2614	4	.	.	M
HT9	900	TAQ	.	60750	.	.	8.1	15.9			.	2	.	2614	2	.	.	F

PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=10

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	1015	MTO	240	.	18	.	6	17		NE	10	4	.	0000	.	.	.	
HG2	1020	MTO	240	.	18	.	6	17		NE	10	4	.	0000	.	.	.	
HG2	1025	DTP	240	.	18	.	6	17		NE	10	4	.	0002	5	161	195	
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	0001	1	.	.	
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	0082	140	102	164	
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	0025	1200	51	71	
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	0002	4	159	182	
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	0098	1	.	.	
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	2612	2	.	.	M
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	2612	2	.	.	F
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	2613	1	.	.	M
HG2	1200	T25	.	33000	18	.	6	17		NE	10	4	.	2613	4	.	.	F

PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=11

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	940	E17	240	.	18	.	4.5	17			.	4	.	0043	1	.	.	
HG2	940	E17	240	.	18	.	4.5	17			.	4	.	2612	4	.	.	M
HG2	940	E17	240	.	18	.	4.5	17			.	4	.	2613	1	.	.	F
HG2	1005	MTO	240	.	18	.	.	17			.	4	.	2614	1	.	.	M
HG2	1005	MTO	240	.	18	.	4.5	17			.	4	.	2614	1	.	.	M
HG2	1010	MTO	240	.	18	.	4.5	17			.	4	.	2613	1	.	.	M
HG2	1015	DTP	240	.	18	.	4.5	17			.	4	.	0002	1	.	.	
HG2	1020	DTP	240	.	18	.	4.5	17			.	4	.	0002	6	142	191	
HG2	1020	DTP	240	.	18	.	4.5	17			.	4	.	0082	2	132	137	
HG2	1020	DTP	240	.	18	.	4.5	17			.	4	.	2614	1	.	.	M
HG2	1030	T25	.	33000	18	.	4.5	17			.	4	.	0001	3	108	155	
HG2	1030	T25	.	33000	18	.	4.5	17			.	4	.	0082	289	97	115	
HG2	1030	T25	.	33000	18	.	4.5	17			.	4	.	0002	2	170	176	
HG2	1030	T25	.	33000	18	.	4.5	17			.	4	.	0025	760	36	79	
HG2	1030	T25	.	33000	18	.	4.5	17			.	4	.	2612	2	.	.	F
HG2	1030	T25	.	33000	18	.	4.5	17			.	4	.	2613	4	.	.	F
HG2	1030	T25	.	33000	18	.	4.5	17			.	4	.	2614	2	.	.	M

PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=15

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	0029	1	.	.	
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	0043	5	168	240	
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	0075	1	.	.	
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	0072	3	41	63	
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	2612	3	.	.	M
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	2613	2	.	.	M
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	2614	2	.	.	M
HG1	1030	T25	.	36000	10	.	6	17	HI	NE	12	2	.	2614	2	.	.	F

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=16 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	950	DTP	240	.	12	.	7	17			.	2	.	0002	4	153	198	
HG1	950	DTP	240	.	12	.	7	17			.	2	.	0072	2	141	144	
HG1	950	DTP	240	.	12	.	7	17			.	2	.	0043	1	.	.	
HG1	950	DTP	240	.	12	.	7	17			.	2	.	0082	5	.	.	
HG1	950	DTP	240	.	12	.	7	17			.	2	.	2614	1	.	.	M
HG1	1000	MTO	240	.	12	.	7	17			.	2	.	2613	1	.	.	F
HG1	1005	MTO	240	.	12	.	7	17			.	2	.	2614	1	.	.	M
HG1	1030	E17	240	.	12	.	7	17			.	2	.	0072	10	.	.	
HG1	1030	E17	240	.	12	.	7	17			.	2	.	2613	1	.	.	M
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	0002	5	161	195	
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	0001	1	.	.	
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	0082	46	100	132	
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	0075	1	.	.	
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	0098	1	.	.	
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	0025	38	45	60	
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	0042	2	.	.	
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	2612	3	.	.	M
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	2613	4	.	.	M
HG1	1130	HM1	.	36000	12	.	7	17			.	2	.	2614	2	.	.	M
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	0001	5	105	131	
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	0021	1	.	.	
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	0082	4	97	123	
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	0075	1	.	.	
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	2612	3	.	.	M
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	2612	1	.	.	F
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	2613	1	.	.	M
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	2613	2	.	.	F
HG1	1200	T25	.	36000	6	.	7	17			.	2	.	2614	2	.	.	F

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=17 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	935	DTP	.	.	12	.	7	17	SE	5	2	.		0002	4	145	198	
HG1	935	DTP	.	.	12	.	7	17	SE	5	2	.		0042	1	.	.	
HG1	940	DTP	240	.	12	.	7	17	SE	5	2	.		0002	3	162	199	
HG1	940	DTP	240	.	12	.	7	17	SE	5	2	.		0075	2	194	196	
HG1	940	DTP	240	.	12	.	7	17	SE	5	2	.		0082	1	.	.	
HG1	945	MTO	240	.	12	.	7	17	SE	5	2	.		2613	3	.	.	M
HG1	950	MTO	.	.	12	.	7	17	SE	5	2	.		2613	1	.	.	F
HG1	1025	E17	.	.	12	.	7	17	SE	5	2	.		0043	1	.	.	
HG1	1025	E17	.	.	12	.	7	17	SE	5	2	.		0082	1	.	.	
HG1	1025	E17	.	.	12	.	7	17	SE	5	2	.		0010	1	.	.	
HG1	1025	E17	.	.	12	.	7	17	SE	5	2	.		0021	1	.	.	

---------- PERIOD=84/08/01 -- 85/07/31 YY=84 MM=10 DD=18 ----------

SITE	TIME	GEAR	SETCVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	930	E20	240	.	12	.	.	.		.	1	.		2612	3	.	.	M
HG1	930	E20	240	.	12	.	.	.		.	1	.		2613	5	.	.	M
HG1	930	E20	240	.	12	.	.	.		.	1	.		2613	4	.	.	F
HG1	930	E20	240	.	12	.	.	.		.	1	.		2614	2	.	.	M
HG1	930	E20	240	.	12	.	.	.		.	1	.		2614	2	.	.	F
HG1	1000	MTO	240	.	12	.	7	17		.	1	.		0000	.	.	.	
HG1	1010	MTO	240	.	12	.	7	17		.	.	.		2614	2	.	.	M
HG1	1020	DTP	240	.	12	.	7	17		.	1	.		0002	3	164	191	
HG1	1020	DTP	240	.	12	.	7	17		.	1	.		2613	1	.	.	M
HG1	1030	DTP	240	.	.	.	.	.		.	.	.		0002	2	172	176	
HG1	1045	T25	.	36000	6	.	7	17		.	1	.		2612	2	.	.	M
HG1	1045	T25	.	36000	6	.	7	17		.	1	.		2613	6	.	.	M
HG1	1045	T25	.	36000	6	.	7	17		.	1	.		2613	2	.	.	F
HG1	1045	T25	.	36000	6	.	7	17		.	1	.		2614	3	.	.	M
HG1	1045	T25	.	36000	6	.	7	17		.	1	.		2614	3	.	.	F
HG1	1100	HM1	.	36000	12	.	7	17		.	1	.		0075	4	80	210	
HG1	1100	HM1	.	36000	12	.	7	17		.	1	.		2612	2	.	.	M
HG1	1100	HM1	.	36000	12	.	7	17		.	1	.		2613	9	.	.	M
HG1	1100	HM1	.	36000	12	.	7	17		.	1	.		2613	3	.	.	F
HG1	1100	HM1	.	36000	12	.	7	17		.	1	.		2614	7	.	.	M
HG1	1100	HM1	.	36000	12	.	7	17		.	1	.		2614	2	.	.	F

---------- PERIOD=84/08/01 -- 85/07/31 YY=85 MM=4 DD=3 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HT0	930	TAQ	.	48750	18	.	3.8	.		NW	25	6	.	0002	278	101	203	
HT1	.	TAQ	.	54750	18	.	3.8	.		NW	25	2	.	0043	1	.	.	
HT1	.	TAQ	.	54750	18	.	3.8	.		NW	25	2	.	0002	27	149	225	
HT1	.	TAQ	.	54750	18	.	3.8	.		NW	25	2	.	2613	1	.	.	M
HT2	.	TAQ	.	53250	18	.	3.8	.		NW	25	2	.	0075	1	.	.	
HT2	.	TAQ	.	53250	18	.	3.8	.		NW	25	2	.	0098	1	.	.	
HT2	.	TAQ	.	53250	18	.	3.8	.		NW	25	2	.	0041	1	.	.	
HT2	.	TAQ	.	53250	18	.	3.8	.		NW	25	2	.	2613	1	.	.	M
HT5	.	TAQ	.	48750	18	.	3.8	.		NW	25	2	.	0043	1	.	.	
HT5	.	TAQ	.	48750	18	.	3.8	.		NW	25	2	.	0008	1	.	.	
HT5	.	TAQ	.	48750	18	.	3.8	.		NW	25	2	.	0098	1	.	.	
HT5	.	TAQ	.	48750	18	.	3.8	.		NW	25	2	.	0002	128	.	.	
HT6	.	TAQ	.	57000	18	.	3.8	.		NW	25	2	.	0001	3	.	.	
HT6	.	TAQ	.	57000	18	.	3.8	.		NW	25	2	.	0002	168	138	243	
HT7	.	TAQ	.	45000	13	.	3.8	.		NW	25	6	.	0002	96	160	227	
HT7	.	TAQ	.	45000	13	.	3.8	.		NW	25	6	.	0008	4	113	170	
HT9	930	TAQ	.	60750	18	.	3.8	.		NW	25	6	.	0002	129	145	231	
HT9	930	TAQ	.	60750	18	.	3.8	.		NW	25	6	.	0008	2	.	.	

---------- PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=8 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0002	92	140	204	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0075	110	207	.	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0042	72	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0082	12	45	95	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0025	344	50	92	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0021	1	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0029	1	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	0001	1	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	2612	2	.	.	M
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	2612	1	.	.	F
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	2613	9	.	.	M
HG3	.	T25	.	36000	18	.	4.5	18		NW	10	.	.	2613	5	.	.	F
HG3	.	DTP	240	.	18	.	4.5	18		NW	10	.	.	0098	1	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		NW	10	.	.	0075	1	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		NW	10	.	.	0042	1	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		NW	10	.	.	0002	9	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		NW	10	.	.	0072	4	139	151	
HG3	.	DTP	240	.	18	.	4.5	18		NW	10	.	.	2613	1	.	.	F
HG3	.	EP6	240	.	18	.	4.5	18		NW	10	.	.	0021	1	.	.	

---------- PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=9 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG3	.	EP6	240	.	18	.	4.5	18		SE	10	.	.	0021	3	.	.	

---------- PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=10 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0002	127	110	275	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0075	10	183	210	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0042	61	170	250	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0043	2	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0021	12	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0098	4	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0025	92	.	.	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	0082	13	20	55	
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	2612	5	.	.	M
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	2612	3	.	.	F
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	2613	22	.	.	M
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	2613	15	.	.	F
HG3	.	T25	.	36000	18	.	4.5	18		SE	15	.	.	2614	1	.	.	M
HG3	.	DTP	240	.	18	.	4.5	18		SE	15	.	.	0002	7	155	215	
HG3	.	DTP	240	.	18	.	4.5	18		SE	15	.	.	0021	1	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		SE	15	.	.	0075	3	195	215	
HG3	.	DTP	240	.	18	.	4.5	18		SE	15	.	.	0072	72	.	.	
HG3	.	DTP	240	.	18	.	4.5	18		SE	15	.	.	2613	1	.	.	M
HG3	.	EP6	240	.	18	.	4.5	18		SE	15	.	.	0021	10	.	.	

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=13

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HS2	945	S20	.	6368	2	.	3.8	21		NW	12	2	3	0082	16	20	41	
HS2	945	S20	.	6368	2	.	3.8	21		NW	12	2	3	0055	11	81	122	
HS2	945	S20	.	6368	2	.	3.8	21		NW	12	2	3	0062	15	55	92	
HS2	945	S20	.	6368	2	.	3.8	21		NW	12	2	3	0053	6	48	90	
HS2	1055	S20	.	6368	2	.	3.8	21		NW	12	2	3	0055	9	75	110	
HS2	1055	S20	.	6368	2	.	3.8	21		NW	12	2	3	0053	23	52	88	
HS2	1055	S20	.	6368	2	.	3.8	21		NW	12	2	3	0062	18	63	90	
HS2	1055	S20	.	6368	2	.	3.8	21		NW	12	2	3	0082	9	23	41	
HS4	1205	S20	.	6368	5	.	4.5	21		NW	12	2	3	0021	1	250	.	
HS4	1205	S20	.	6368	5	.	4.5	21		NW	12	2	3	0009	1	199	.	
HS4	1205	S20	.	6368	5	.	4.5	21		NW	12	2	3	0002	10	87	145	
HS4	1205	S20	.	6368	5	.	4.5	21		NW	12	2	3	0075	3	112	154	
HS4	1205	S20	.	6368	5	.	4.5	21		NW	12	2	3	0062	74	81	109	
HS4	1205	S20	.	6368	5	.	4.5	21		NW	12	2	3	0025	117	47	71	
HS4	1205	S20	.	6368	5	.	4.5	21		NW	12	2	3	0067	1	134	.	
HS4	1250	S20	.	6368	5	.	4.5	21		NW	12	2	3	0029	2	690	900	
HS4	1250	S20	.	6368	5	.	4.5	21		NW	12	2	3	0072	1	111	.	
HS4	1250	S20	.	6368	5	.	4.5	21		NW	12	2	3	0002	4	135	154	
HS4	1250	S20	.	6368	5	.	4.5	21		NW	12	2	3	0075	6	103	153	
HS4	1250	S20	.	6368	5	.	4.5	21		NW	12	2	3	0062	248	76	119	
HS4	1250	S20	.	6368	5	.	4.5	21		NW	12	2	3	0025	207	46	68	
HS4	1250	S20	.	6368	5	.	4.5	21		NW	12	2	3	0055	3	76	85	
HS5	1410	S20	.	10271	5	.	4.2	22		NW	12	2	3	0075	2	103	124	
HS5	1410	S20	.	10271	5	.	4.2	22		NW	12	2	3	0053	1	82	.	
HS5	1410	S20	.	10271	5	.	4.2	22		NW	12	2	3	0062	73	79	110	
HS5	1410	S20	.	10271	5	.	4.2	22		NW	12	2	3	0025	255	50	71	
HS5	1410	S20	.	10271	5	.	4.2	22		NW	12	2	3	0008	2	40	44	
HS5	1501	S20	.	6368	5	.	4.2	22		NW	12	2	3	0008	1	167	.	
HS5	1501	S20	.	6368	5	.	4.2	22		NW	12	2	3	0062	45	55	137	
HS5	1501	S20	.	6368	5	.	4.2	22		NW	12	2	3	0002	1	168	.	
HS5	1501	S20	.	6368	5	.	4.2	22		NW	12	2	3	0025	355	51	74	

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=14

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	0002	56	118	190	
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	0043	4	81	478	
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	0075	2	166	194	
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	0082	8	49	93	
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	0098	2	93	156	
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	0025	394	46	80	
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	2612	2	.	.	M
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	2612	2	.	.	F
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	2613	10	.	.	M
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	2613	4	.	.	F
HG2	.	T25	.	36000	15	.	4	21.5			.	.	.	2614	1	.	.	M
HG2	.	DTP	240	.	.	.	4	21.5			.	.	.	0002	5	127	183	
HG2	.	DTP	240	.	.	.	4	21.5			.	.	.	0075	2	196	197	
HG2	.	DTP	240	.	.	.	4	21.5			.	.	.	0042	1	.	.	
HG2	.	DTP	240	.	.	.	4	21.5			.	.	.	0072	3	124	153	
HG2	.	DTP	240	.	.	.	4	21.5			.	.	.	0098	1	.	.	
HG2	.	DTP	240	.	.	.	4	21.5			.	.	.	2613	3	.	.	M

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=14

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	.	DTP	240	.	.	.	4	21.5			.	.	.	2614	1	.	.	M
HG2	.	EP6	240	.	18	.	4	21.5			.	.	.	0021	2	.	.	
HG2	.	EP6	240	.	19	.	4	21.5			.	.	.	2613	1	.	.	F

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=15

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	.	T25	.	36000	15	.	3.9	21		NE	12	2	.	0002	69	.	.	
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	0043	12	282	468	
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	0098	30	80	139	
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	0025	130	50	98	
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	0021	8	.	.	
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	0042	2	186	191	
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	2612	3	.	.	M
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	2612	3	.	.	F
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	2613	8	.	.	M
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	2613	2	.	.	F
HG2	.	T25	.	36000	15	.	3.8	21		NE	12	2	.	2614	1	.	.	M
HG2	.	DTP	240	.	.	.	3.8	21		NE	12	2	.	0002	4	147	180	
HG2	.	DTP	240	.	.	.	3.8	21		NE	12	2	.	0075	1	.	.	
HG2	.	DTP	240	.	.	.	3.8	21		NE	12	2	.	0042	2	207	209	
HG2	.	DTP	240	.	.	.	3.8	21		NE	12	2	.	2612	1	.	.	M
HG2	.	DTP	240	.	.	.	3.8	21		NE	12	2	.	2613	4	.	.	M
HG2	.	DTP	240	.	.	.	3.8	21		NE	12	2	.	2613	2	.	.	F
HG2	.	EP6	240	.	18	.	3.8	21		NE	12	2	.	0021	16	.	.	
HG2	.	EP6	240	.	18	.	3.8	21		NE	12	2	.	2613	9	.	.	M
HG2	.	EP6	240	.	18	.	3.8	21		NE	12	2	.	2613	4	.	.	F

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=17

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	0002	27	135	195	
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	0042	5	200	258	
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	0075	6	177	210	
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	0098	2	.	.	
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	0072	3	116	135	
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	2613	6	.	.	M
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	2613	4	.	.	F
HG2	.	DTP	480	.	18	.	4	20.5			.	.	.	2614	2	.	.	M
HG2	.	EP6	480	.	18	.	4	20.5			.	.	.	0021	28	.	.	
HG2	.	EP6	480	.	18	.	4	20.5			.	.	.	2613	24	.	.	M
HG2	.	EP6	480	.	18	.	4	20.5			.	.	.	2613	9	.	.	F

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=20

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0002	13	127	238	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0042	1	.	.	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0025	17	56	86	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0082	27	25	115	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0008	1	.	.	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0043	1	.	.	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0098	17	70	153	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		2613	14	.	.	M
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		2613	5	.	.	F
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		2614	3	.	.	M
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0002	6	155	237	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0043	1	330	.	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0008	1	155	.	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0098	14	70	153	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0025	13	56	86	
HG2	.	T25	.	36000	18	.	5.4	19.5	SE	15	.	.		0082	10	25	115	

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=21

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	.	T25	.	33000	12	.	4.5	20.5	SE	12	4	.		0001	3	163	166	
HG1	.	T25	.	33000	12	.	4.5	20.5	SE	12	4	.		0002	10	108	198	
HG1	.	T25	.	33000	12	.	4.5	20.5	SE	12	4	.		0075	10	112	125	
HG1	.	T25	.	33000	12	.	4.5	20.5	SE	12	4	.		0072	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	20.5	SE	12	4	.		0042	5	180	200	
HG1	.	T25	.	33000	12	.	4.5	20.5	SE	12	4	.		0025	29	51	72	
HG1	.	T25	.	33000	12	.	4.5	20.5	SE	12	4	.		2613	1	.	.	F
HG1	.	DTP	240	.	.	.	4.5	20.5	SE	12	4	.		0002	2	222	.	
HG1	.	DTP	240	.	.	.	4.5	20.5	SE	12	4	.		0075	1	.	.	
HG1	.	DTP	240	.	.	.	4.5	20.5	SE	12	4	.		0072	34	115	137	
HG1	.	DTP	240	.	.	.	4.5	20.5	SE	12	4	.		0042	1	.	.	
HG1	.	DTP	240	.	.	.	4.5	20.5	SE	12	4	.		0098	1	.	.	
HG1	.	DTP	240	.	.	.	4.5	20.5	SE	12	4	.		2613	7	.	.	M
HG1	.	DTP	240	.	.	.	4.5	20.5	SE	12	4	.		2614	2	.	.	M
HG1	.	EP6	240	.	12	.	4.5	20.5		.	.	.		0021	21	.	.	
HG1	.	EP6	240	.	12	.	4.5	20.5		.	.	.		2613	7	.	.	M
HG1	.	EP6	240	.	12	.	4.5	20.5		.	.	.		2613	4	.	.	F
HG1	.	EP6	240	.	12	.	4.5	20.5		.	.	.		2614	2	.	.	M

PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=22

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		0075	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		0002	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		0053	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		0001	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		0072	7	125	150	
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		0008	13	50	55	
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		0025	186	53	70	
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		2613	2	.	.	M

---------- PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=22 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	.	T25	.	33000	12	.	4.5	20.2	EA	10	.	.		2613	2	.	.	F
HG1	.	DTP	240	.	12	.	4.5	20.2	NE	15	.	.		0072	8	101	144	
HG1	.	DTP	240	.	12	.	4.5	20.2	NE	15	.	.		0002	8	127	198	
HG1	.	DTP	240	.	12	.	4.5	20.2	NE	15	.	.		0075	1	.	.	
HG1	.	EP6	240	.	12	.	4.5	20.2	NE	15	.	.		0043	1	.	.	
HG1	.	EP6	240	.	12	.	4.5	20.2	NE	15	.	.		0072	2	.	.	
HG1	.	EP6	240	.	12	.	4.5	20.2	NE	15	.	.		0021	8	.	.	
HG1	.	EP6	240	.	12	.	4.5	20.2	NE	15	.	.		2613	2	.	.	M
HG1	.	EP6	240	.	12	.	4.5	20.2	NE	15	.	.		2613	2	.	.	F
HG1	.	EP6	240	.	12	.	4.5	20.2	NE	15	.	.		2614	1	.	.	M

---------- PERIOD=84/08/01 -- 85/07/31 YY=85 MM=5 DD=23 ----------

SITE	TIME	GEAR	SETOVER	AREACOV	DEPTH	DO	SALINITY	WATRTEMP	TIDE	WINDDIR	WINDSPD	WEATHER	MESH	SPCODE	COUNT	MINSIZE	MAXSIZE	SEX
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		0043	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		0075	7	105	121	
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		0072	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		0025	12	43	56	
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		0042	8	82	235	
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		0002	3	118	186	
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		0098	1	.	.	
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		2612	1	.	.	M
HG1	.	T25	.	33000	12	.	4.5	19.8	NE	15	2	.		2613	2	.	.	M
HG1	.	DTP	240	.	12	.	4.2	19.8	NE	15	6	.		0072	12	.	.	
HG1	.	DTP	240	.	12	.	4.2	19.8	NE	15	6	.		0042	1	.	.	
HG1	.	DTP	240	.	12	.	4.2	19.8	NE	15	6	.		0002	5	.	.	
HG1	.	EP6	240	.	12	.	4.5	19.8	NE	15	2	.		0021	8	.	.	
HG1	.	EP6	240	.	12	.	4.5	19.8	NE	15	2	.		2613	4	.	.	M
HG1	.	EP6	240	.	12	.	4.5	19.8	NE	15	2	.		2613	1	.	.	F

RESOURCE MONITORING DATA BASE
HART MILLER ISLAND - BENTHIC DATA

THE FIRST (HEADER) LINE DENOTES THE FOLLOWING VARIABLES

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

THE SECOND (TRAILER) LINE DENOTES THE FOLLOWING VARIABLES

MEDIA	
PHYLUM	
CLASS	
SPECIES	
PARAMETER	
METHOD	
UNITS	BY COUNT
VALUE	
REMARKS	

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF3325	841008	935	19	2139997	BIOTA	1	GRAB	BA	F	0	3913170	7622300					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	3		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	43		
							BIOTA		STREBLOSPIO BENEDICTI			NO-OF-IND	62	COUNT	1		
							BIOTA		CAPITELLA CAPITATA			NO-OF-IND	62	COUNT	1		
							BIOTA		BALTHIC CLAM			NO-OF-IND	62	COUNT	6		
							BIOTA		MITCHELLS CLAM			NO-OF-IND	62	COUNT	3		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	4		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	24		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	253		
							BIOTA		GAMMARUS TIGRINUS			NO-OF-IND	62	COUNT	1		
XIF4220	841008	1003	18	2139997	BIOTA	1	SPACECOM	BA	F	0	3914130	7622010					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	2		
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	1		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	46		
							BIOTA		STREBLOSPIO BENEDICTI			NO-OF-IND	62	COUNT	1		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	6		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	24		
							BIOTA		EDOTEA TRILOBA			NO-OF-IND	62	COUNT	1		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	102		
XIF4224	841008	1136	14	2139997	BIOTA	1	SPACECOM	BA	E	0	3914120	7622260					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	1		
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	5		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	32		
							BIOTA		MITCHELLS CLAM			NO-OF-IND	62	COUNT	1		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	20		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	174		
XIF4319	841008	1025	15	2139997	BIOTA	1	SPACECOM	BA	F	0	3914170	7621520					
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	1		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	13		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	10		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	69		
							BIOTA		STREBLOSPIO BENEDICTI			NO-OF-IND	62	COUNT	3		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	93		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	19		
							BIOTA		EDOTEA TRILOBA			NO-OF-IND	62	COUNT	2		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	7		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	1		
							BIOTA		MUD CRAB			NO-OF-IND	62	COUNT	1		
XIF4321	841008	1153	14	2139997	BIOTA	1	SPACECOM	BA	E	0	3914170	7622070					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	1		
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	1		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	26		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	4		
							BIOTA		STREBLOSPIO BENEDICTI			NO-OF-IND	62	COUNT	2		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	6		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	54		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	1		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	1		
							BIOTA		CHIRODOTEA ALMYRA			NO-OF-IND	62	COUNT	1		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF4513	841009	1114	14	2139997	BIOTA	1	SPACECOM	BA	E	0	3914320	7621190					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	7		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	5		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	126		
							BIOTA		MITCHELLS CLAM			NO-OF-IND	62	COUNT	1		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	55		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	13		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	5		
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	62	COUNT	2		
XIF4514	841009	1537	0	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	3		
XIF4514	841009	1542	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	2		
XIF4514	841009	1545	2	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	3		
XIF4514	841009	1550	3	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		GARVEIA FRANCISCANA			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	2		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUR	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF4514	841009	1555	4	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	2		
XIF4517	841008	1052	14	2139997	BIOTA	1	SPACECOM	BA	E	0	3914280	7621460					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	1		
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	1		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	1		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	95		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	11		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	14		
							BIOTA		EDOTEA TRILOBA			NO-OF-IND	62	COUNT	1		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	24		
XIF4518	841009	1607	0	2139997	BIOTA	1	CONTINUS	BA	E	0	3914280	7621500					
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		GARVEIA FRANCISCANA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	2		
XIF4518	841009	1612	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914280	7621500					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		MELITA NITIDA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	2		
XIF4518	841009	1618	2	2139997	BIOTA	1	CONTINUS	BA	E	0	3914280	7621500					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	3		
XIF4518	841009	1625	2	2139997	BIOTA	1	CONTINUS	BA	E	0	3914280	7621500					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		ACANTHEDESIA TENIUS			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	3		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	PEM		
XIF4811	841009	1015	2	2139997	BIOTA	1	CONTINUS	BA	E	0	3914490	7621070					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	3		
XIF4811	841009	1020	3	2139997	BIOTA	1	CONTINUS	BA	E	0	3914490	7621070					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		MUD CRAB			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	2		
XIF4811	841009	1400	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914490	7621070					
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		STILIGER NIGER			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		GARVEIA FRANCISCANA			NO-OF-IND	154	ESTDNSTY	3		
XIF4813	841009	1500	0	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
XIF4813	841009	1510	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
XIF4813	841009	1515	2	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	FEM	
XIF4813	841009	1525	3	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160				
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	1	
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3	
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2	
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	2	
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	2	
							BIOTA		GARVEIA FRANCISCANA			NO-OF-IND	154	ESTDNSTY	3	
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3	
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	3	
XIF4813	841009	1530	4	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160				
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	1	
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3	
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2	
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	2	
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	2	
							BIOTA		GARVEIA FRANCISCANA			NO-OF-IND	154	ESTDNSTY	3	
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	2	
							BIOTA		ANCANTHEDESIA TENUIS			NO-OF-IND	154	ESTDNSTY	3	
							BIOTA		VICTORELLA PAVIDA			NO-OF-IND	154	ESTDNSTY	3	
XIF5145	841006	1558	16	2139997	BIOTA	1	GRAB	BA	E	0	3914390	7623550				
							BIOTA		MICKURA LEIDYI			NO-OF-IND	62	COUNT	5	
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	3	
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	10	
							BIOTA		STREBLOSPIO BENEDICTI			NO-OF-IND	62	COUNT	32	
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	5	
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	6	
							BIOTA		EDOTEA TRILOBA			NO-OF-IND	62	COUNT	3	
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	177	
							BIOTA		MELITA NITIDA			NO-OF-IND	62	COUNT	1	
							BIOTA		CHIRODOTEA ALMYRA			NO-OF-IND	62	COUNT	1	
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	62	COUNT	40	
XIF5297	841008	1340	15	2139997	BIOTA	1	GRAB	BA	E	0	3915300	7620280				
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	2	
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	22	
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	5	
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	98	
							BIOTA		CAPITELLA CAPITATA			NO-OF-IND	62	COUNT	1	
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	5	
							BIOTA		WHITE BARNACLE			NO-OF-IND	62	COUNT	1	
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	15	
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	1	
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	19	
							BIOTA		GAMMARUS TIGRINUS			NO-OF-IND	62	COUNT	3	
							BIOTA		MELITA NITIDA			NO-OF-IND	62	COUNT	4	
							BIOTA		MUD CRAB			NO-OF-IND	62	COUNT	1	
							BIOTA		FLAT WORM			NO-OF-IND	62	COUNT	2	

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM	
XIF5307	841009	1320	12	2139997	BIOTA	1	SPACECOM	BA	E	2	3915200	7620390				
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	7		
							BIOTA		HETEROMASTUS FILIFORMIS		NO-OF-IND	62	COUNT	4		
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	20		
							BIOTA		PADDLE WORM		NO-OF-IND	62	COUNT	7		
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	257		
							BIOTA		CAPITELLA CAPITATA		NO-OF-IND	62	COUNT	2		
							BIOTA		PLATFORM MUSSEL		NO-OF-IND	62	COUNT	2		
							BIOTA		BRACKISH WATER CLAM		NO-OF-IND	62	COUNT	4		
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	63		
							BIOTA		COROPHIUM LACUSTRE		NO-OF-IND	62	COUNT	23		
							BIOTA		MELITA NITIDA		NO-OF-IND	62	COUNT	1		
							BIOTA		COROPHIUM LACUSTRE		NO-OF-IND	62	COUNT	4		
							BIOTA		FLAT WORM		NO-OF-IND	62	COUNT	2		
XIF5405	841006	1225	12	2139997	BIOTA	1	SPACECOM	BA	E	2	3915230	7620320				
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	1		
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	193		
							BIOTA		POLYDORA LIGNI		NO-OF-IND	62	COUNT	17		
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	32		
							BIOTA		STREBLOSPIO BENEDICTI		NO-OF-IND	62	COUNT	21		
							BIOTA		LIMNODRILUS HOFFMEISTER		NO-OF-IND	62	COUNT	6		
							BIOTA		PLATFORM MUSSEL		NO-OF-IND	62	COUNT	8		
							BIOTA		BRACKISH WATER CLAM		NO-OF-IND	62	COUNT	2		
							BIOTA		BARNACLE		NO-OF-IND	62	COUNT	2		
							BIOTA		WHITE BARNACLE		NO-OF-IND	62	COUNT	137		
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	57		
							BIOTA		CASSIDINIDEA LUNIFRONS		NO-OF-IND	62	COUNT	93		
							BIOTA		COROPHIUM LACUSTRE		NO-OF-IND	62	COUNT	165		
							BIOTA		GAMMARUS TIGRINUS		NO-OF-IND	62	COUNT	1		
							BIOTA		MELITA NITIDA		NO-OF-IND	62	COUNT	93		
							BIOTA		MUD CRAB		NO-OF-IND	62	COUNT	58		
							BIOTA		FLAT WORM		NO-OF-IND	62	COUNT	24		
							BIOTA		UNIDENTIFIED CHIRONOMID		NO-OF-IND	62	COUNT	1		
XIF5406	841006	1306	13	2139997	BIOTA	1	SPACECOM	BA	E	2	3915260	7620360				
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	1		
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	72		
							BIOTA		POLYDORA LIGNI		NO-OF-IND	62	COUNT	25		
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	15		
							BIOTA		PLATFORM MUSSEL		NO-OF-IND	62	COUNT	11		
							BIOTA		BRACKISH WATER CLAM		NO-OF-IND	62	COUNT	3		
							BIOTA		STILIGER NIGER		NO-OF-IND	62	COUNT	1		
							BIOTA		BARNACLE		NO-OF-IND	62	COUNT	7		
							BIOTA		WHITE BARNACLE		NO-OF-IND	62	COUNT	33		
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	17		
							BIOTA		COROPHIUM LACUSTRE		NO-OF-IND	62	COUNT	51		
							BIOTA		GAMMARUS TIGRINUS		NO-OF-IND	62	COUNT	1		
							BIOTA		MELITA NITIDA		NO-OF-IND	62	COUNT	10		
							BIOTA		CHIRODOTEA ALMYRA		NO-OF-IND	62	COUNT	1		
							BIOTA		MUD CRAB		NO-OF-IND	62	COUNT	2		
							BIOTA		FLAT WORM		NO-OF-IND	62	COUNT	4		

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

Project II - Sedimentary Environment
Fourth Year Data Report
(Sept. 1984 - Nov. 1985)

by
Darlene V. Wells, Robert Conkwright,
Robert Cuthbertson, James Hill
and Randall Kerhin,

Appendix A

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUR	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE
XIF7/99	841008	1446	14	2139997	BIOTA	1	GRAB	BA	E	0	3916580	7618310	

MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
BIOTA			MICRURA LEIDYI	NO-OF-IND	62	COUNT	1	
BIOTA			HETEROMASTUS FILIFORMIS	NO-OF-IND	62	COUNT	1	
BIOTA			POLYDORA LIGNI	NO-OF-IND	62	COUNT	20	
BIOTA			GREEN WORM	NO-OF-IND	62	COUNT	139	
BIOTA			STREBLOSPIO BENEDICTI	NO-OF-IND	62	COUNT	2	
BIOTA			LIMNODRILUS HOFFMEISTERI	NO-OF-IND	62	COUNT	1	
BIOTA			BALTHIC CLAM	NO-OF-IND	62	COUNT	2	
BIOTA			BRACKISH WATER CLAM	NO-OF-IND	62	COUNT	60	
BIOTA			CYATHURA POLITA	NO-OF-IND	62	COUNT	11	
BIOTA			LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	62	COUNT	406	
BIOTA			UNIDENTIFIED CHIRONOMID	NO-OF-IND	62	COUNT	4	

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF3325	850402	945	19	2139997	BIOTA	1	GRAB	BA	L	1	3913170	7622300					
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	2			
							BIOTA		HETEROMASTUS FILIFORMIS		NO-OF-IND	62	COUNT	1			
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	2			
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	60			
							BIOTA		BALTHIC CLAM		NO-OF-IND	62	COUNT	8			
							BIOTA		MITCHELLS CLAM		NO-OF-IND	62	COUNT	1			
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	18			
							BIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-OF-IND	62	COUNT	340			
XIF4220	850402	1057	18	2139997	BIOTA	1	SPACECOM	BA	F	1	3914130	7622010					
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	3			
							BIOTA		HETEROMASTUS FILIFORMIS		NO-OF-IND	62	COUNT	2			
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	6			
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	57			
							BIOTA		LIMNODRILUS HOFFMEISTER		NO-OF-IND	62	COUNT	1			
							BIOTA		BALTHIC CLAM		NO-OF-IND	62	COUNT	3			
							BIOTA		MITCHELLS CLAM		NO-OF-IND	62	COUNT	4			
							BIOTA		BRACKISH WATER CLAM		NO-OF-IND	62	COUNT	27			
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	23			
							BIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-OF-IND	62	COUNT	381			
							BIOTA		COROPHIUM LACUSTRE		NO-OF-IND	62	COUNT	1			
							BIOTA		MUD CRAB		NO-OF-IND	62	COUNT	1			
XIF4224	850402	1021	14	2139997	BIOTA	1	SPACECOM	BA	F	1	3914120	7622260					
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	2			
							BIOTA		HETEROMASTUS FILIFORMIS		NO-OF-IND	62	COUNT	2			
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	1			
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	108			
							BIOTA		MITCHELLS CLAM		NO-OF-IND	62	COUNT	3			
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	17			
							BIOTA		EDOTEA TRILOBA		NO-OF-IND	62	COUNT	1			
							BIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-OF-IND	62	COUNT	238			
							BIOTA		UNIDENTIFIED CHIRONOMID		NO-OF-IND	62	COUNT	2			
XIF4319	850402	1115	15	2139997	BIOTA	1	SPACECOM	BA	F	1	3914170	7621520					
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	2			
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	8			
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	108			
							BIOTA		MITCHELLS CLAM		NO-OF-IND	62	COUNT	6			
							BIOTA		BRACKISH WATER CLAM		NO-OF-IND	62	COUNT	16			
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	16			
							BIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-OF-IND	62	COUNT	438			
							BIOTA		COROPHIUM LACUSTRE		NO-OF-IND	62	COUNT	1			
							BIOTA		MELITA NITIDA		NO-OF-IND	62	COUNT	2			
							BIOTA		UNIDENTIFIED CHIRONOMID		NO-OF-IND	62	COUNT	3			
XIF4321	850402	1038	14	2139997	BIOTA	1	SPACECOM	BA	F	1	3914170	7622070					
							BIOTA		MICRURA LEIDYI		NO-OF-IND	62	COUNT	1			
							BIOTA		CLAM WORM		NO-OF-IND	62	COUNT	2			
							BIOTA		GREEN WORM		NO-OF-IND	62	COUNT	10			
							BIOTA		BALTHIC CLAM		NO-OF-IND	62	COUNT	2			
							BIOTA		CYATHURA POLITA		NO-OF-IND	62	COUNT	42			
							BIOTA		LEPTOCHEIRUS PLUMULOSUS		NO-OF-IND	62	COUNT	63			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF4513	850402	1149	14	2139997	BIOTA	1	SPACECOM	BA	F	1	3914320	7621190					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	3		
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	1		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	4		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	166		
							BIOTA		MITCHELLS CLAM			NO-OF-IND	62	COUNT	3		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	86		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	18		
							BIOTA		EDOTEA TRILOBA			NO-OF-IND	62	COUNT	1		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	208		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	6		
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	62	COUNT	3		
XIF4514	850425	1057	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		GAMMARUS DAIBERI			NO-OF-IND	154	ESTDNSTY	3		
XIF4514	850425	1059	6	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		BARNACLE			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	1		
XIF4514	850425	1059	10	2139997	BIOTA	1	CONTINUS	BA	E	0	3914320	7621230					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
XIF4517	850402	1131	14	2139997	BIOTA	1	SPACECOM	BA	F	1	3914280	7621460					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	3		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	6		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	208		
							BIOTA		BALTHIC CLAM			NO-OF-IND	62	COUNT	2		
							BIOTA		MITCHELLS CLAM			NO-OF-IND	62	COUNT	5		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	42		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	18		
							BIOTA		EDOTEA TRILOBA			NO-OF-IND	62	COUNT	2		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	322		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	7		
							BIOTA		CHIRCDOTEA ALMYRA			NO-OF-IND	62	COUNT	1		
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	62	COUNT	1		
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	1		
XIF4518	850425	1119	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914280	7621500					
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	3		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF4518	850425	1122	6	2139997	BIOTA	1	CONTINUS	BA	E	0	3914280	7621500					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
XIF4518	850425	1126	10	2139997	BIOTA	1	CONTINUS	BA	E	0	3914280	7621500					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		FLAT WORM			NO-OF-IND	154	ESTDNSTY	3		
XIF4811	850425	953	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914490	7621070					
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	3		
XIF4811	850425	955	6	2139997	BIOTA	1	CONTINUS	BA	E	0	3914490	7621070					
							BIOTA		GREEN WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		GAMMARUS TIGRINUS			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	1		
XIF4811	850425	956	10	2139997	BIOTA	1	CONTINUS	BA	E	0	3914490	7621070					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		GREEN WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	1		
XIF4813	850425	1028	1	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160					
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	3		
XIF4813	850425	1030	6	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	2		
XIF4813	850425	1031	10	2139997	BIOTA	1	CONTINUS	BA	E	0	3914460	7621160					
							BIOTA		CLAM WORM			NO-OF-IND	154	ESTDNSTY	2		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		BARNACLE			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		WHITE BARNACLE			NO-OF-IND	154	ESTDNSTY	3		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	154	ESTDNSTY	1		
							BIOTA		CORDYLOPHORA CASPIA			NO-OF-IND	154	ESTDNSTY	3		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE			
XIF5145	850402	1618	16	2139997	BIOTA	1	GRAB	BA	F	1	3914390	7623550				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	FEM	
							BIOTA			MICRURA LEIDYI	NO-OF-IND	62	COUNT	2		
							BIOTA			HETEROMASTUS FILIFORMIS	NO-OF-IND	62	COUNT	2		
							BIOTA			CLAM WORM	NO-OF-IND	62	COUNT	3		
							BIOTA			GREEN WORM	NO-OF-IND	62	COUNT	118		
							BIOTA			LIMNODRILUS HOFFMEISTER	NO-OF-IND	62	COUNT	1		
							BIOTA			CAPITELLA CAPITATA	NO-OF-IND	62	COUNT	1		
							BIOTA			MITCHELLS CLAM	NO-OF-IND	62	COUNT	6		
							BIOTA			BRACKISH WATER CLAM	NO-OF-IND	62	COUNT	6		
							BIOTA			CYATHURA POLITA	NO-OF-IND	62	COUNT	13		
							BIOTA			LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	62	COUNT	11		
							BIOTA			COROPHIUM LACUSTRE	NO-OF-IND	62	COUNT	1		
							BIOTA			UNIDENTIFIED CHIRONOMID	NO-OF-IND	62	COUNT	14		
XIF5297	850402	1406	15	2139997	BIOTA	1	GRAB	BA	F	1	3915300	7620280				
							BIOTA			MICRURA LEIDYI	NO-OF-IND	62	COUNT	2		
							BIOTA			CLAM WORM	NO-OF-IND	62	COUNT	96		
							BIOTA			POLYDORA LIGNI	NO-OF-IND	62	COUNT	6		
							BIOTA			GREEN WORM	NO-OF-IND	62	COUNT	716		
							BIOTA			LIMNODRILUS HOFFMEISTER	NO-OF-IND	62	COUNT	1		
							BIOTA			BARNACLE	NO-OF-IND	62	COUNT	35		
							BIOTA			WHITE BARNACLE	NO-OF-IND	62	COUNT	21		
							BIOTA			CYATHURA POLITA	NO-OF-IND	62	COUNT	29		
							BIOTA			CASSIDINIDEA LUNIFRONS	NO-OF-IND	62	COUNT	20		
							BIOTA			LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	62	COUNT	16		
							BIOTA			COROPHIUM LACUSTRE	NO-OF-IND	62	COUNT	333		
							BIOTA			GAMMARUS TIGRINUS	NO-OF-IND	62	COUNT	1		
							BIOTA			MELITA NITIDA	NO-OF-IND	62	COUNT	15		
							BIOTA			UNIDENTIFIED CHIRONOMID	NO-OF-IND	62	COUNT	1		
							BIOTA			MUD CRAB	NO-OF-IND	62	COUNT	23		
							BIOTA			FLAT WORM	NO-OF-IND	62	COUNT	2		
							BIOTA			GAMMARUS PALUSTRIS	NO-OF-IND	62	COUNT	1		
XIF5307	850402	1319	12	2139997	BIOTA	1	SPACECOM	BA	F	1	3915200	7620390				
							BIOTA			CLAM WORM	NO-OF-IND	62	COUNT	159		
							BIOTA			POLYDORA LIGNI	NO-OF-IND	62	COUNT	16		
							BIOTA			GREEN WORM	NO-OF-IND	62	COUNT	449		
							BIOTA			LIMNODRILUS HOFFMEISTER	NO-OF-IND	62	COUNT	3		
							BIOTA			PLATFORM MUSSEL	NO-OF-IND	62	COUNT	2		
							BIOTA			BALTHIC CLAM	NO-OF-IND	62	COUNT	1		
							BIOTA			BRACKISH WATER CLAM	NO-OF-IND	62	COUNT	1		
							BIOTA			BARNACLE	NO-OF-IND	62	COUNT	37		
							BIOTA			WHITE BARNACLE	NO-OF-IND	62	COUNT	4		
							BIOTA			CYATHURA POLITA	NO-OF-IND	62	COUNT	74		
							BIOTA			EDOTEA TRILOBA	NO-OF-IND	62	COUNT	1		
							BIOTA			LEPTOCHEIRUS PLUMULOSUS	NO-OF-IND	62	COUNT	6		
							BIOTA			COROPHIUM LACUSTRE	NO-OF-IND	62	COUNT	838		
							BIOTA			MELITA NITIDA	NO-OF-IND	62	COUNT	7		
							BIOTA			CHIRODOTEA ALMYRA	NO-OF-IND	62	COUNT	1		
							BIOTA			UNIDENTIFIED CHIRONOMID	NO-OF-IND	62	COUNT	3		
							BIOTA			MUD CRAB	NO-OF-IND	62	COUNT	20		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REP		
XIF5405	850402	1354	12	2139997	BIOTA	1	SPACECOM	BA	F	1	3915230	7620320					
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	2		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	124		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	15		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	758		
							BIOTA		LIMNODRILUS HOFFMEISTER			NO-OF-IND	62	COUNT	3		
							BIOTA		PLATFORM MUSSEL			NO-OF-IND	62	COUNT	1		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	1		
							BIOTA		BARNACLE			NO-OF-IND	62	COUNT	53		
							BIOTA		WHITE BARNACLE			NO-OF-IND	62	COUNT	63		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	31		
							BIOTA		CASSIDINIDEA LUNIFRONS			NO-OF-IND	62	COUNT	35		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	2		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	748		
							BIOTA		MELITA NITIDA			NO-OF-IND	62	COUNT	36		
							BIOTA		MUD CRAB			NO-OF-IND	62	COUNT	13		
							BIOTA		GAMMARUS PALUSTRIS			NO-OF-IND	62	COUNT	1		
XIF5406	850402	1337	13	2139997	BIOTA	1	SPACECOM	BA	F	1	3915260	7620360					
							BIOTA		MICRURA LEIDYI			NO-OF-IND	62	COUNT	2		
							BIOTA		HETEROMASTUS FILIFORMIS			NO-OF-IND	62	COUNT	2		
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	24		
							BIOTA		POLYDORA LIGNI			NO-OF-IND	62	COUNT	7		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	581		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	2		
							BIOTA		BARNACLE			NO-OF-IND	62	COUNT	11		
							BIOTA		WHITE BARNACLE			NO-OF-IND	62	COUNT	3		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	50		
							BIOTA		CASSIDINIDEA LUNIFRONS			NO-OF-IND	62	COUNT	2		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	67		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	581		
							BIOTA		GAMMARUS TIGRINUS			NO-OF-IND	62	COUNT	4		
							BIOTA		MELITA NITIDA			NO-OF-IND	62	COUNT	5		
							BIOTA		CHIROGOTEA ALMYRA			NO-OF-IND	62	COUNT	1		
							BIOTA		MONOCULODES EDWARDSI			NO-OF-IND	62	COUNT	1		
							BIOTA		MUD CRAB			NO-OF-IND	62	COUNT	2		
							BIOTA		GAMMARUS PALUSTRIS			NO-OF-IND	62	COUNT	2		
XIG7689	850402	1426	14	2139997	BIOTA	1	GRAB	BA	F	1	3916580	7618310					
							BIOTA		CLAM WORM			NO-OF-IND	62	COUNT	2		
							BIOTA		GREEN WORM			NO-OF-IND	62	COUNT	132		
							BIOTA		BALTHIC CLAM			NO-OF-IND	62	COUNT	2		
							BIOTA		MITCHELLS CLAM			NO-OF-IND	62	COUNT	1		
							BIOTA		BRACKISH WATER CLAM			NO-OF-IND	62	COUNT	68		
							BIOTA		CYATHURA POLITA			NO-OF-IND	62	COUNT	15		
							BIOTA		LEPTOCHEIRUS PLUMULOSUS			NO-OF-IND	62	COUNT	292		
							BIOTA		COROPHIUM LACUSTRE			NO-OF-IND	62	COUNT	14		
							BIOTA		UNIDENTIFIED CHIRONOMID			NO-OF-IND	62	COUNT	1		
							BIOTA		MUD CRAB			NO-OF-IND	62	COUNT	1		

RESOURCE MONITORING DATA BASE
HART MILLER ISLAND - SEDIMENT SAMPLES

THE FIRST (HEADER) LINE DENOTES THE FOLLOWING VARIABLES

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

THE SECOND (TRAILER) LINE DENOTES THE FOLLOWING VARIABLES

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

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF2038	841126	0	17	2139997	SEDIMENT	1	GRAB BA			3911595	7623470						
							PHYSCHAR	.			WATERCON	56	%-BYWT	60.13			
							PHYSCHAR	.			SAND	56	%-BYWT	1.65			
							PHYSCHAR	.			SILT	56	%-BYWT	37.51			
							PHYSCHAR	.			CLAY	56	%-BYWT	60.84			
XIF2038	841126	0	17	2139997	SEDIMENT	1	GRAB BA			3911595	7623470						
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	170			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	73			
							CHEMCHAR	.			TIRON	183	%-BYWT	5.55			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	4260			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	90			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	540			
XIF3064	841126	0	15	2139997	SEDIMENT	1	GRAB BA			3913005	7623390						
							PHYSCHAR	.			WATERCON	56	%-BYWT	63.05			
							PHYSCHAR	.			SAND	56	%-BYWT	1.43			
							PHYSCHAR	.			SILT	56	%-BYWT	40.6			
							PHYSCHAR	.			CLAY	56	%-BYWT	57.98			
XIF3064	841126	0	16	2139997	SEDIMENT	1	GRAB BA			3913005	7623390						
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	75			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	33			
							CHEMCHAR	.			TIRON	183	%-BYWT	3.09			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	450			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	20			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	110			
XIF3430	841126	0	15	2139997	SEDIMENT	1	GRAB BA			3913240	7622596						
							PHYSCHAR	.			WATERCON	56	%-BYWT	35.67			
							PHYSCHAR	.			SAND	56	%-BYWT	79			
							PHYSCHAR	.			SILT	56	%-BYWT	8.92			
							PHYSCHAR	.			CLAY	56	%-BYWT	12.08			
XIF3430	841126	0	18	2139997	SEDIMENT	1	GRAB BA			3913240	7622596						
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	15			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	38			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.1			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	940			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	10			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	80			
XIF3620	841126	0	19	2139997	SEDIMENT	1	GRAB BA			3913330	7621590						
							PHYSCHAR	.			WATERCON	56	%-BYWT	66.59			
							PHYSCHAR	.			SAND	56	%-BYWT	0.32			
							PHYSCHAR	.			SILT	56	%-BYWT	42.32			
							PHYSCHAR	.			CLAY	56	%-BYWT	57.36			
XIF3620	841126	0	19	2139997	SEDIMENT	1	GRAB BA			3913330	7621590						
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	110			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	63			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.71			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	4550			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	75			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	280			
XIF3638	841126	0	10	2139997	SEDIMENT	1	GRAB BA			3913350	7623480						
							PHYSCHAR	.			WATERCON	56	%-BYWT	22.21			
							PHYSCHAR	.			SAND	56	%-BYWT	97.08			
							PHYSCHAR	.			SILT	56	%-BYWT	1.61			
							PHYSCHAR	.			CLAY	56	%-BYWT	1.31			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUR	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF3638	841126	0	13	2139997	SEDIMENT	1	GRAB	BA			3913350	7623480					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	30		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	133		
							CHEMCHAR	.				TIRON	183	%-BYWT	0.35		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	520		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	10		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	40		
XIF4016	841126	0	17	2139997	SEDIMENT	1	GRAB	BA			3913580	7621350					
							PHYSCHAR	.				WATERCON	56	%-BYWT	67.34		
							PHYSCHAR	.				SAND	56	%-BYWT	0.88		
							PHYSCHAR	.				SILT	56	%-BYWT	45.14		
							PHYSCHAR	.				CLAY	56	%-BYWT	53.98		
XIF4016	841126	0	17	2139997	SEDIMENT	1	GRAB	BA			3913580	7621350					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	120		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	63		
							CHEMCHAR	.				TIRON	183	%-BYWT	4.39		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	4300		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	50		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	280		
XIF4126	841126	0	15	2139997	SEDIMENT	1	GRAB	BA			3914080	7622380					
							PHYSCHAR	.				WATERCON	56	%-BYWT	60.4		
							PHYSCHAR	.				SAND	56	%-BYWT	3.91		
							PHYSCHAR	.				SILT	56	%-BYWT	59.4		
							PHYSCHAR	.				CLAY	56	%-BYWT	36.69		
XIF4126	841126	0	15	2139997	SEDIMENT	1	GRAB	BA			3914080	7622380					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	90		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	63		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.56		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	2600		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	55		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	210		
XIF4221	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3914125	7622090					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	90		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	38		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.71		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	2550		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	55		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	220		
XIF4221	841126	0	19	2139997	SEDIMENT	1	GRAB	BA			3914125	7622090					
							PHYSCHAR	.				WATERCON	56	%-BYWT	61.74		
							PHYSCHAR	.				SAND	56	%-BYWT	2.65		
							PHYSCHAR	.				SILT	56	%-BYWT	52.4		
							PHYSCHAR	.				CLAY	56	%-BYWT	44.94		
XIF4317	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3914185	7621400					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	100		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	48		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.66		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1200		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	20		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	150		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF4317	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3914185	7621400					
							PHYSCHAR	.			WATERCON	56	%-BYWT	52.84			
							PHYSCHAR	.			SAND	56	%-BYWT	1.09			
							PHYSCHAR	.			SILT	56	%-BYWT	45.06			
							PHYSCHAR	.			CLAY	56	%-BYWT	50.85			
XIF4405	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3914220	7620290					
							PHYSCHAR	.			WATERCON	56	%-BYWT	60.7			
							PHYSCHAR	.			SAND	56	%-BYWT	1.14			
							PHYSCHAR	.			SILT	56	%-BYWT	39.08			
							PHYSCHAR	.			CLAY	56	%-BYWT	59.78			
XIF4405	841126	0	20	2139997	SEDIMENT	1	GRAB	BA			3914220	7620290					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	130			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	68			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.71			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2250			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	90			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	380			
XIF4609	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3914370	7620570					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	100			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	63			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.39			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2750			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	75			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	290			
XIF4609	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3914370	7620570					
							PHYSCHAR	.			WATERCON	560	%-BYWT	57.81			
							PHYSCHAR	.			SAND	56	%-BYWT	4.21			
							PHYSCHAR	.			SILT	56	%-BYWT	39.61			
							PHYSCHAR	.			CLAY	56	%-BYWT	56.19			
XIF4615	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3914370	7621300					
							PHYSCHAR	.			WATERCON	56	%-BYWT	55.48			
							PHYSCHAR	.			SAND	56	%-BYWT	10.2			
							PHYSCHAR	.			SILT	56	%-BYWT	53.42			
							PHYSCHAR	.			CLAY	56	%-BYWT	36.39			
XIF4615	841126	0	17	2139997	SEDIMENT	1	GRAB	BA			3914370	7621300					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	90			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	38			
							CHEMCHAR	.			TIRON	183	%-BYWT	3.19			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1600			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	40			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	170			
XIF4642	841126	0	11	2139997	SEDIMENT	1	GRAB	BA			3914360	7624140					
							PHYSCHAR	.			WATERCON	56	%-BYWT	65.93			
							PHYSCHAR	.			SAND	56	%-BYWT	1.04			
							PHYSCHAR	.			SILT	56	%-BYWT	49.97			
							PHYSCHAR	.			CLAY	56	%-BYWT	49			
XIF4642	841126	0	14	2139997	SEDIMENT	1	GRAB	BA			3914360	7624140					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	145			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	68			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.09			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1300			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	70			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	290			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF4806	841126	0	20	2139997	SEDIMENT	1	GRAB	BA			3914495	7620356					
							PHYSCHAR	.			WATERCON	56	%-BYWT	61.63			
							PHYSCHAR	.			SAND	56	%-BYWT	2.15			
							PHYSCHAR	.			SILT	56	%-BYWT	39.47			
							PHYSCHAR	.			CLAY	56	%-BYWT	58.38			
XIF4806	841126	0	21	2139997	SEDIMENT	1	GRAB	BA			3914490	7620356					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	50			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	63			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.85			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2600			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	45			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	320			
XIF5009	841126	0	0	2139997	SEDIMENT	1	GRAB	BA			3914575	7620510					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	50			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	38			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.71			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2050			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	10			B
							CHEMCHAR	.			TZINC	186	UG/GM-DW	50			
XIF5009	841126	0	14	2139997	SEDIMENT	1	GRAB	BA			3914575	7620510					
							PHYSCHAR	.			WATERCON	56	%-BYWT	44.69			
							PHYSCHAR	.			SAND	56	%-BYWT	69.13			
							PHYSCHAR	.			SILT	56	%-BYWT	19.18			
							PHYSCHAR	.			CLAY	56	%-BYWT	11.69			
XIF5203	841126	0	17	2139997	SEDIMENT	1	GRAB	BA			3915100	7620210					
							PHYSCHAR	.			WATERCON	56	%-BYWT	28.77			
							PHYSCHAR	.			SAND	56	%-BYWT	82.46			
							PHYSCHAR	.			SILT	56	%-BYWT	7.69			
							PHYSCHAR	.			CLAY	56	%-BYWT	9.85			
XIF5203	841126	0	18	2139997	SEDIMENT	1	GRAB	BA			3915100	7620210					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	35			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	23			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.05			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1150			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	0.1			B
							CHEMCHAR	.			TZINC	186	UG/GM-DW	80			
XIF5302	841126	0	21	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							PHYSCHAR	.			WATERCON	56	%-BYWT	53.34			
							PHYSCHAR	.			SAND	56	%-BYWT	34.44			
							PHYSCHAR	.			SILT	56	%-BYWT	26.4			
							PHYSCHAR	.			CLAY	56	%-BYWT	39.17			
XIF5302	841126	0	21	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							PHYSCHAR	.			WATERCON	56	%-BYWT	61.85			
							PHYSCHAR	.			SAND	56	%-BYWT	9.58			
							PHYSCHAR	.			SILT	56	%-BYWT	35.12			
							PHYSCHAR	.			CLAY	56	%-BYWT	51.3			
XIF5302	841126	0	22	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	130			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	63			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.71			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2300			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	60			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	290			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF5302	841126	0	22	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	105			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	38			
							CHEMCHAR	.			TIRON	183	%-BYWT	3.51			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1850			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	30			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	200			
XIF5302	841126	0	22	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	80			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	39			
							CHEMCHAR	.			TIRON	183	%-BYWT	3.09			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2000			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	40			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	200			
XIF5305	841126	0	0	2139997	SEDIMENT	1	GRAB	BA			3915180	7620315					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	65			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	23			
							CHEMCHAR	.			TIRON	183	%-BYWT	2.37			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1250			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	20			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	110			
XIF5305	841126	0	0	2139997	SEDIMENT	1	GRAB	BA			3915180	7620315					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	75			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	23			
							CHEMCHAR	.			TIRON	183	%-BYWT	2.73			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	900			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	30			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	140			
XIF5305	841126	0	0	2139997	SEDIMENT	1	GRAB	BA			3915180	7620315					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	75			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	33			
							CHEMCHAR	.			TIRON	183	%-BYWT	2.58			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1700			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	50			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	190			
XIF5305	841126	0	18	2139997	SEDIMENT	1	GRAB	BA			3915180	7620315					
							PHYSCHAR	.			WATERCON	56	%-BYWT	47.02			
							PHYSCHAR	.			SAND	56	%-BYWT	29.66			
							PHYSCHAR	.			SILT	56	%-BYWT	38.8			
							PHYSCHAR	.			CLAY	56	%-BYWT	31.54			
XIF5305	841126	0	18	2139997	SEDIMENT	1	GRAB	BA			3915180	7620315					
							PHYSCHAR	.			WATERCON	56	%-BYWT	32.96			
							PHYSCHAR	.			SAND	56	%-BYWT	24.25			
							PHYSCHAR	.			SILT	56	%-BYWT	55.97			
							PHYSCHAR	.			CLAY	56	%-BYWT	19.78			
XIF5501	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3915275	7620090					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	10			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	33			
							CHEMCHAR	.			TIRON	183	%-BYWT	0.3			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	200			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	10			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	30			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF5925	841126	0	12	2139997	SEDIMENT	1	GRAB	BA			3915510	7622340					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	130			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	53			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.44			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1950			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	60			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	340			
XIF6008	841126	0	10	2139997	SEDIMENT	1	GRAB	BA			3916000	7620500					
							PHYSCHAR	.			WATERCON	56	%-BYWT	20.9			
							PHYSCHAR	.			SAND	56	%-BYWT	82.47			
							PHYSCHAR	.			SILT	56	%-BYWT	9.95			
							PHYSCHAR	.			CLAY	56	%-BYWT	7.58			
XIF6008	841126	0	11	2139997	SEDIMENT	1	GRAB	BA			3916000	7620500					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	25			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	19			
							CHEMCHAR	.			TIRON	183	%-BYWT	0.6			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	800			
							CHEMCHAR	.			TNICKEL	186	UG/GM-DW	35			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	40			
XIF6407	841126	0	15	2139997	SEDIMENT	1	GRAB	BA			3916200	7620420					
							PHYSCHAR	.			WATERCON	56	%-BYWT	62.72			
							PHYSCHAR	.			SAND	56	%-BYWT	1.21			
							PHYSCHAR	.			SILT	56	%-BYWT	48.48			
							PHYSCHAR	.			CLAY	56	%-BYWT	50.31			
XIF6407	841126	0	16	2139997	SEDIMENT	1	GRAB	BA			3916200	7620420					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	110			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	53			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.03			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	3450			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	90			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	200			
XIG7589	841126	0	12	2139997	SEDIMENT	1	GRAB	BA			3917290	7618545					
							PHYSCHAR	.			WATERCON	56	%-BYWT	43.64			
							PHYSCHAR	.			SAND	56	%-BYWT	57.97			
							PHYSCHAR	.			SILT	56	%-BYWT	19.8			
							PHYSCHAR	.			CLAY	56	%-BYWT	22.23			
XIG7585	841126	0	14	2139997	SEDIMENT	1	GRAB	BA			3917290	7618545					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	90			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	38			
							CHEMCHAR	.			TIRON	183	%-BYWT	2.42			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1300			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	10			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	150			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
								MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE		
XIF3638	841126	0	10	2139997	SEDIMENT	1	GRAB	BA		0	3913350	7623420					
							SURFSAMP	.				WATERCON.	56	%-BYWT	22.21		
							SURFSAMP	.				SAND	56	%-BYWT	9708		
							SURFSAMP	.				SILT	56	%-BYWT	161		
							SURFSAMP	.				CLAY	56	%-BYWT	131		
XIF3638	841126	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3913240	7622556					
							SURFSAMP	.				WATERCON	56	%-BYWT	35.67		
							SURFSAMP	.				SAND	56	%-BYWT	79		
							SURFSAMP	.				SILT	56	%-BYWT	8.92		
							SURFSAMP	.				CLAY	56	%-BYWT	12.05		
XIF4126	841126	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3914080	7622380					
							SURFSAMP	.				WATERCON	56	%-BYWT	60.4		
							SURFSAMP	.				SAND	56	%-BYWT	3.91		
							SURFSAMP	.				SILT	56	%-BYWT	59.4		
							SURFSAMP	.				CLAY	56	%-BYWT	36.69		
XIF4221	841126	0	19	2139997	SEDIMENT	1	GRAB	BA		0	3914125	7622090					
							SURFSAMP	.				WATERCON	56	%-BYWT	61.74		
							SURFSAMP	.				SAND	56	%-BYWT	2.65		
							SURFSAMP	.				SILT	56	%-BYWT	52.4		
							SURFSAMP	.				CLAY	56	%-BYWT	44.94		
XIF4317	841126	0	18	2139997	SEDIMENT	1	GRAB	BA		0	3914185	7621400					
							SURFSAMP	.				WATERCON	56	%-BYWT	52.84		
							SURFSAMP	.				SAND	56	%-BYWT	1.09		
							SURFSAMP	.				SILT	56	%-BYWT	48.06		
							SURFSAMP	.				CLAY	56	%-BYWT	50.85		
XIF4609	841126	0	18	2139997	SEDIMENT	1	GRAB	BA		0	3914370	7620570					
							SURFSAMP	.				WATERCON	56	%-BYWT	57.81		
							SURFSAMP	.				SAND	56	%-BYWT	4.21		
							SURFSAMP	.				SILT	56	%-BYWT	39.61		
							SURFSAMP	.				CLAY	56	%-BYWT	56.19		
XIF5009	841126	0	14	2139997	SEDIMENT	1	GRAB	BA		0	3914575	7620510					
							SURFSAMP	.				WATERCON	56	%-BYWT	44.69		
							SURFSAMP	.				SAND	56	%-BYWT	65.13		
							SURFSAMP	.				SILT	56	%-BYWT	19.18		
							SURFSAMP	.				CLAY	56	%-BYWT	11.69		
XIF4-06	841126	0	20	2139997	SEDIMENT	1	GRAB	BA		0	3914495	7620356					
							SURFSAMP	.				WATERCON	56	%-BYWT	61.63		
							SURFSAMP	.				SAND	56	%-BYWT	2.15		
							SURFSAMP	.				SILT	56	%-BYWT	39.47		
							SURFSAMP	.				SILT	56	%-BYWT	39.47		
							SURFSAMP	.				CLAY	56	%-BYWT	59.36		
XIF5203	841126	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915100	7620210					
							SURFSAMP	.				WATERCON	56	%-BYWT	25.77		
							SURFSAMP	.				SAND	56	%-BYWT	82.46		
							SURFSAMP	.				SILT	56	%-BYWT	7.69		
							SURFSAMP	.				CLAY	56	%-BYWT	9.85		
XIF5501	841126	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620050					
							SURFSAMP	.				WATERCON	56	%-BYWT	26.26		
							SURFSAMP	.				SAND	56	%-BYWT	82.55		
							SURFSAMP	.				SILT	56	%-BYWT	7.74		
							SURFSAMP	.				CLAY	56	%-BYWT	9.68		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF5501	841126	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620390					
							SURFSAMP	.				WATERCON	56	%-BYWT	24.86		
							SURFSAMP	.				SAND	56	%-BYWT	85.41		
							SURFSAMP	.				SILT	56	%-BYWT	6.2		
							SURFSAMP	.				CLAY	56	%-BYWT	8.39		
XIF5505	841126	0	14	2139997	SEDIMENT	1	GRAB	BA		0	3915510	7620315					
							SURFSAMP	.				WATERCON	56	%-BYWT	39.61		
							SURFSAMP	.				SAND	56	%-BYWT	46.51		
							SURFSAMP	.				SILT	56	%-BYWT	32.73		
							SURFSAMP	.				CLAY	56	%-BYWT	20.76		
XIF6008	841126	0	10	2139997	SEDIMENT	1	GRAB	BA		0	3916000	7620500					
							SURFSAMP	.				WATERCON	56	%-BYWT	20.9		
							SURFSAMP	.				SAND	56	%-BYWT	62.47		
							SURFSAMP	.				SILT	56	%-BYWT	9.95		
							SURFSAMP	.				CLAY	56	%-BYWT	7.58		
XIF6407	841126	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3916200	7620420					
							SURFSAMP	.				WATERCON	56	%-BYWT	62.72		
							SURFSAMP	.				SAND	56	%-BYWT	1.21		
							SURFSAMP	.				SILT	56	%-BYWT	48.48		
							SURFSAMP	.				CLAY	56	%-BYWT	50.31		
XIF5722	841126	0	12	2139997	SEDIMENT	1	GRAB	BA		0	3915410	7622135					
							SURFSAMP	.				WATERCON	56	%-BYWT	66.36		
							SURFSAMP	.				SAND	56	%-BYWT	2.06		
							SURFSAMP	.				SILT	56	%-BYWT	42.63		
							SURFSAMP	.				CLAY	56	%-BYWT	55.31		
XIF3620	841126	0	19	2139997	SEDIMENT	1	GRAB	BA		0	3913330	7621590					
							SURFSAMP	.				WATERCON	56	%-BYWT	66.59		
							SURFSAMP	.				SAND	56	%-BYWT	0.32		
							SURFSAMP	.				SILT	56	%-BYWT	42.32		
							SURFSAMP	.				CLAY	56	%-BYWT	57.36		
XIF3064	841126	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3913005	7623390					
							SURFSAMP	.				WATERCON	56	%-BYWT	63.05		
							SURFSAMP	.				SAND	56	%-BYWT	1.43		
							SURFSAMP	.				SILT	56	%-BYWT	40.6		
							SURFSAMP	.				CLAY	56	%-BYWT	57.68		
XIF5305	841126	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3915180	7620315					
							SURFSAMP	.				WATERCON	56	%-BYWT	47.02		
							SURFSAMP	.				SAND	56	%-BYWT	29.66		
							SURFSAMP	.				SILT	56	%-BYWT	38.8		
							SURFSAMP	.				CLAY	56	%-BYWT	31.54		
XIF5305	841126	0	18	2139997	SEDIMENT	1	GRAB	BA		0	3915180	7620315					
							SURFSAMP	.				WATERCON	56	%-BYWT	32.96		
							SURFSAMP	.				SAND	56	%-BYWT	24.25		
							SURFSAMP	.				SILT	56	%-BYWT	55.97		
							SURFSAMP	.				CLAY	56	%-BYWT	19.78		
XIF7589	841126	0	12	2139997	SEDIMENT	1	GRAB	BA		0	3917290	7618545					
							SURFSAMP	.				WATERCON	56	%-BYWT	43.64		
							SURFSAMP	.				SAND	56	%-BYWT	57.97		
							SURFSAMP	.				SILT	56	%-BYWT	19.6		
							SURFSAMP	.				CLAY	56	%-BYWT	22.23		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUP	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF4642	841126	0	11	2139997	SEDIMENT	1	GRAB	BA		0	3914360	7624140					
							SURFSAMP	.				WATERCON	56	%-BYWT	65.93		
							SURFSAMP	.				SAND	56	%-BYWT	1.04		
							SURFSAMP	.				SILT	56	%-BYWT	49.97		
							SURFSAMP	.				CLAY	56	%-BYWT	49		
XIF5302	841126	0	21	2139997	SEDIMENT	1	GRAB	BA		0	3915010	7620035					
							SURFSAMP	.				WATERCON	56	%-BYWT	53.34		
							SURFSAMP	.				SAND	56	%-BYWT	34.44		
							SURFSAMP	.				SILT	56	%-BYWT	26.4		
							SURFSAMP	.				CLAY	56	%-BYWT	39.17		
XIF5302	841126	0	21	2139997	SEDIMENT	1	GRAB	BA		0	3915010	7620035					
							SURFSAMP	.				WATERCON	56	%-BYWT	61.65		
							SURFSAMP	.				SAND	56	%-BYWT	9.56		
							SURFSAMP	.				SILT	56	%-BYWT	39.12		
							SURFSAMP	.				CLAY	56	%-BYWT	51.3		
XIF4405	841126	0	18	2139997	SEDIMENT	1	GRAB	BA		0	3914220	7620290					
							SURFSAMP	.				WATERCON	56	%-BYWT	60.7		
							SURFSAMP	.				SAND	56	%-BYWT	1.14		
							SURFSAMP	.				SILT	56	%-BYWT	35.08		
							SURFSAMP	.				CLAY	56	%-BYWT	59.78		
XIF4016	841126	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3913580	7621350					
							SURFSAMP	.				WATERCON	56	%-BYWT	67.34		
							SURFSAMP	.				SAND	56	%-BYWT	0.68		
							SURFSAMP	.				SILT	56	%-BYWT	45.14		
							SURFSAMP	.				CLAY	56	%-BYWT	53.98		
XIF2038	841126	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3911595	7623470					
							SURFSAMP	.				WATERCON	56	%-BYWT	60.13		
							SURFSAMP	.				SAND	56	%-BYWT	1.65		
							SURFSAMP	.				SILT	56	%-BYWT	37.51		
							SURFSAMP	.				CLAY	56	%-BYWT	60.84		
XIF4615	841126	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3914370	7621300					
							SURFSAMP	.				WATERCON	56	%-BYWT	55.48		
							SURFSAMP	.				SAND	56	%-BYWT	10.2		
							SURFSAMP	.				SILT	56	%-BYWT	53.42		
							SURFSAMP	.				CLAY	56	%-BYWT	36.39		
XIF5325	841126	0	12	2139997	SEDIMENT	1	GRAB	BA		0	3915510	7622340					
							SURFSAMP	.				WATERCON	56	%-BYWT	65.49		
							SURFSAMP	.				SAND	56	%-BYWT	1.87		
							SURFSAMP	.				SILT	56	%-BYWT	37.01		
							SURFSAMP	.				CLAY	56	%-BYWT	61.13		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF2038	850415	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3911595	7623470					
							SURFSAMP	.				WATERCON	56	%-BYWT	62.41		
							SURFSAMP	.				SAND	56	%-BYWT	1.62		
							SURFSAMP	.				SILT	56	%-BYWT	36.92		
							SURFSAMP	.				CLAY	56	%-BYWT	61.46		
XIF2038	850415	1	17	2139997	SEDIMENT	1	GRAB	BA			3911595	7623470					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	180		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	69		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.62		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	4850		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	90		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	510		
XIF3046	850415	0	16	2139997	SEDIMENT	1	GRAB	BA			3913005	7623390					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	155		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	63		
							CHEMCHAR	.				TIRON	183	%-BYWT	4.82		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	2900		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	70		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	370		
XIF3064	850415	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3913005	7623390					
							SURFSAMP	.				WATERCON	56	%-BYWT	60.68		
							SURFSAMP	.				SAND	56	%-BYWT	1.74		
							SURFSAMP	.				SILT	56	%-BYWT	45.02		
							SURFSAMP	.				CLAY	56	%-BYWT	53.24		
XIF3430	850415	0	18	2139997	SEDIMENT	1	GRAB	BA		0	3913240	7622596					
							SURFSAMP	.				WATERCON	56	%-BYWT	54.11		
							SURFSAMP	.				SAND	56	%-BYWT	30.35		
							SURFSAMP	.				SILT	56	%-BYWT	30.4		
							SURFSAMP	.				CLAY	56	%-BYWT	39.25		
XIF3430	850415	1	18	2139997	SEDIMENT	1	GRAB	BA			3913240	7622596					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	120		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	38		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.75		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	2700		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	20		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	280		
XIF3620	850415	0	19	2139997	SEDIMENT	1	GRAB	BA		0	3913330	7621590					
							SURFSAMP	.				WATERCON	56	%-BYWT	44.75		
							SURFSAMP	.				SAND	56	%-BYWT	35.76		
							SURFSAMP	.				SILT	56	%-BYWT	30.32		
							SURFSAMP	.				CLAY	56	%-BYWT	29.92		
							SURFSAMP	.				WATERCON	56	%-BYWT	61.2		
							SURFSAMP	.				SAND	56	%-BYWT	2.87		
							SURFSAMP	.				SILT	56	%-BYWT	35.47		
							SURFSAMP	.				CLAY	56	%-BYWT	57.66		
XIF3620	850415	1	19	2139997	SEDIMENT	1	GRAB	BA			3913330	7621590					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	140		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	63		
							CHEMCHAR	.				TIRON	183	%-BYWT	5.15		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	6200		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	80		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	320		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF3638	850415	0	7	2139997	SEDIMENT	1	GRAB	BA		0	3913350	7623480					
							SURFSAMP	.				WATERCON	56	%-BYWT	18.25		
							SURFSAMP	.				SAND	56	%-BYWT	95.96		
							SURFSAMP	.				SILT	56	%-BYWT	2.02		
							SURFSAMP	.				CLAY	56	%-BYWT	2.02		
XIF3638	850415	0	13	2139997	SEDIMENT	1	GRAB	BA			3913350	7623480					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	25		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	13		
							CHEMCHAR	.				TIRON	183	%-BYWT	0.37		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1400		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	20		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	40		
XIF4016	850415	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3913580	7621350					
							SURFSAMP	.				WATERCON	56	%-BYWT	54.09		
							SURFSAMP	.				SAND	56	%-BYWT	0.6		
							SURFSAMP	.				SILT	56	%-BYWT	36.42		
							SURFSAMP	.				CLAY	56	%-BYWT	60.97		
XIF4016	850415	1	17	2139997	SEDIMENT	1	GRAB	BA			3913580	7621350					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	125		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	48		
							CHEMCHAR	.				TIRON	183	%-BYWT	4.17		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	2250		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	40		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	220		
XIF4024	850702	0	0	2139997	SEDIMENT	1	CORES	BA			3914010	7622210					
							PHYSCHAR	99900004				WATERCON	180	%-BYWT	61.82		
							PHYSCHAR	99900004				SAND	180	%-BYWT	1.79		
							PHYSCHAR	99900004				SILT	180	%-BYWT	46.15		
							PHYSCHAR	99900004				CLAY	180	%-BYWT	52.06		
							CHEMCHAR	99900004				TCHROMUM	187	UG/GM-DW	110		
							CHEMCHAR	99900004				TCOPPER	188	UG/GM-DW	38		
							CHEMCHAR	99900004				TIRON	189	%-BYWT	4.37		
							CHEMCHAR	99900004				TMANGAN	190	UG/GM-DW	2050		
							CHEMCHAR	99900004				TNICKEL	191	UG/GM-DW	50		
							CHEMCHAR	99900004				TZINC	192	UG/GM-DW	180		
							PHYSCHAR	99916020				WATERCON	180	%-BYWT	48.04		
							PHYSCHAR	99916020				SAND	180	%-BYWT	0		
							PHYSCHAR	99916020				SILT	180	%-BYWT	43.11		
							PHYSCHAR	99916020				CLAY	180	%-BYWT	56.89		
							CHEMCHAR	99916020				TCHROMUM	187	UG/GM-DW	110		
							CHEMCHAR	99916020				TCOPPER	188	UG/GM-DW	23		
							CHEMCHAR	99916020				TIRON	189	%-BYWT	2.89		
							CHEMCHAR	99916020				TMANGAN	190	UG/GM-DW	750		
							CHEMCHAR	99916020				TNICKEL	191	UG/GM-DW	10		B
							CHEMCHAR	99916020				TZINC	192	UG/GM-DW	80		
							PHYSCHAR	99921025				WATERCON	180	%-BYWT	56.65		
							PHYSCHAR	99921025				SAND	180	%-BYWT	0.32		
							PHYSCHAR	99921025				SILT	180	%-BYWT	35.48		
							PHYSCHAR	99921025				CLAY	180	%-BYWT	64.2		
							CHEMCHAR	99921025				TCHROMUM	180	UG/GM-DW	140		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE					REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE				
XIF4024	850702	0	0	2139997	SEDIMENT	1	CORES	BA			3914010	7622210						
							CHEMCHAR	99921025				TCOPPER	188	UG/GM-DW	46			
							CHEMCHAR	99921025				TIRON	189	%-BYWT	3.77			
							CHEMCHAR	99921025				TMANGAN	190	UG/GM-DW	2350			
							CHEMCHAR	99921025				TNICKEL	191	UG/GM-DW	60			
							CHEMCHAR	99921025				TZINC	192	UG/GM-DW	240			
							PHYSCHAR	99928032				WATERCON	180	%-BYWT	55.24			
							PHYSCHAR	99928032				SAND	180	%-BYWT	4.12			
							PHYSCHAR	99928032				SILT	180	%-BYWT	37.49			
							PHYSCHAR	99928032				CLAY	180	%-BYWT	58.39			
							CHEMCHAR	99928032				TCHROMUM	187	UG/GM-DW	140			
							CHEMCHAR	99928032				TCOPPER	188	UG/GM-DW	66			
							CHEMCHAR	99928032				TIRON	189	%-BYWT	3.94			
							CHEMCHAR	99928032				TMANGAN	190	UG/GM-DW	3300			
							CHEMCHAR	99928032				TNICKEL	191	UG/GM-DW	120			
							CHEMCHAR	99928032				TZINC	192	UG/GM-DW	620			
							PHYSCHAR	99956060				WATERCON	180	%-BYWT	62			
							PHYSCHAR	99956060				SAND	180	%-BYWT	0			S
							PHYSCHAR	99956060				SILT	180	%-BYWT	0			S
							PHYSCHAR	99956060				CLAY	180	%-BYWT	0			S
							CHEMCHAR	99956060				TCHROMUM	187	UG/GM-DW	195			
							CHEMCHAR	99956060				TCOPPER	188	UG/GM-DW	48			
							CHEMCHAR	99956060				TIRON	189	%-BYWT	3.91			
							CHEMCHAR	99956060				TMANGAN	190	UG/GM-DW	0			S
							CHEMCHAR	99956060				TNICKEL	191	UG/GM-DW	60			
							CHEMCHAR	99956060				TZINC	192	UG/GM-DW	110			
XIF4126	850415	0	14	2139997	SEDIMENT	1	GRAB	BA		0	3914080	7622380						
							SURFSAMP	.				WATERCON	56	%-BYWT	54.93			
							SURFSAMP	.				SAND	56	%-BYWT	1.56			
							SURFSAMP	.				SILT	56	%-BYWT	51.87			
							SURFSAMP	.				CLAY	56	%-BYWT	46.56			
XIF4126	850415	0	15	2139997	SEDIMENT	1	GRAB	BA			3914080	7622380						
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	120			
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	39			
							CHEMCHAR	.				TIRON	183	%-BYWT	3.44			
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1900			
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	60			
							CHEMCHAR	.				TZINC	186	UG/GM-DW	230			
XIF4221	850415	0	19	2139997	SEDIMENT	1	GRAB	BA		0	3914125	7622090						
							SURFSAMP	.				WATERCON	56	%-BYWT	55.18			
							SURFSAMP	.				SAND	56	%-BYWT	3.23			
							SURFSAMP	.				SILT	56	%-BYWT	51.85			
							SURFSAMP	.				CLAY	56	%-BYWT	44.92			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF4285	850415	0	0	2139997	SEDIMENT	1	CORES	BA			3914125	7621090					
							PHYSCHAR	99900004				WATERCON	180	%-BYWT	56.7		
							PHYSCHAR	99900004				SAND	180	%-BYWT	1.43		
							PHYSCHAR	99900004				SILT	180	%-BYWT	40.69		
							PHYSCHAR	99900004				CLAY	180	%-BYWT	57.88		
							CHEMCHAR	99900004				TCHROMUM	187	UG/GM-DW	155		
							CHEMCHAR	99900004				TCOPPER	188	UG/GM-DW	63		
							CHEMCHAR	99900004				TIRON	189	%-BYWT	2.66		
							CHEMCHAR	99900004				TMANGAN	190	UG/GM-DW	2550		
							CHEMCHAR	99900004				TNICKEL	191	UG/GM-DW	75		
							CHEMCHAR	99900004				TZINC	192	UG/GM-DW	320		
							PHYSCHAR	99928032				WATERCON	180	%-BYWT	58.94		
							PHYSCHAR	99928032				SAND	180	%-BYWT	1.07		
							PHYSCHAR	99928032				SILT	180	%-BYWT	42.82		
							PHYSCHAR	99928032				CLAY	180	%-BYWT	56.11		
							CHEMCHAR	99928032				TCHROMUM	187	UG/GM-DW	110		
							CHEMCHAR	99928032				TCOPPER	188	UG/GM-DW	83		
							CHEMCHAR	99928032				TIRON	189	%-BYWT	3.84		
							CHEMCHAR	99928032				TMANGAN	190	UG/GM-DW	2550		
							CHEMCHAR	99928032				TNICKEL	191	UG/GM-DW	85		
							CHEMCHAR	99928032				TZINC	192	UG/GM-DW	240		
							PHYSCHAR	99956060				WATERCON	180	%-BYWT	58.12		
							PHYSCHAR	99956060				SAND	180	%-BYWT	0.38		
							PHYSCHAR	99956060				SILT	180	%-BYWT	37.99		
							PHYSCHAR	99956060				CLAY	180	%-BYWT	61.63		
							CHEMCHAR	99956060				TCHROMUM	187	UG/GM-DW	125		
XIF4285	850415	0	0	2139997	SEDIMENT	1	CORES	BA			3914125	7621090					
							CHEMCHAR	99956060				TCOPPER	188	UG/GM-DW	73		
							CHEMCHAR	99956060				TIRON	189	%-BYWT	3.12		
							CHEMCHAR	99956060				TMANGAN	190	UG/GM-DW	2450		
							CHEMCHAR	99956060				TNICKEL	191	UG/GM-DW	75		
							CHEMCHAR	99956060				TZINC	192	UG/GM-DW	170		
XIF4317	850415	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3914185	7621400					
							SURFSAMP	.				WATERCON	56	%-BYWT	62.37		
							SURFSAMP	.				SAND	56	%-BYWT	3.43		
							SURFSAMP	.				SILT	56	%-BYWT	44.67		
							SURFSAMP	.				CLAY	56	%-BYWT	51.9		
XIF4317	850415	1	16	2139997	SEDIMENT	1	GRAB	BA			3914185	7621400					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	150		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	48		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.56		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	4350		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	50		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	250		
XIF4405	850415	0	20	2139997	SEDIMENT	1	GRAB	BA		0	3914220	7620290					
							SURFSAMP	.				WATERCON	56	%-BYWT	56.79		
							SURFSAMP	.				SAND	56	%-BYWT	1.34		
							SURFSAMP	.				SILT	56	%-BYWT	38		
							SURFSAMP	.				CLAY	56	%-BYWT	60.67		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF4405	850415	1	20	2139997	SEDIMENT	1	GRAB	BA			3914220	7620290					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	155			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	63			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.87			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1850			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	80			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	330			
XIF4609	850415	0	19	2139997	SEDIMENT	1	GRAB	BA		0	3914370	7620570					
							SURFSAMP	.			WATERCON	56	%-BYWT	61.86			
							SURFSAMP	.			SAND	56	%-BYWT	1.7			
							SURFSAMP	.			SILT	56	%-BYWT	37.99			
							SURFSAMP	.			CLAY	56	%-BYWT	60.31			
XIF4609	850415	1	19	2139997	SEDIMENT	1	GRAB	BA			3914370	7620570					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	135			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	53			
							CHEMCHAR	.			TIRON	183	%-BYWT	3.95			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1700			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	70			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	360			
XIF4615	850415	0	7	2139997	SEDIMENT	1	CORES	BA			3914370	7621300					
							CHEMCHAR	99912016			TCOPPER	188	UG/GM-DW	38			
							CHEMCHAR	99912016			TIRON	189	%-BYWT	3.97			
							CHEMCHAR	99912016			TMANGAN	190	UG/GM-DW	135			
							CHEMCHAR	99912016			TNICKEL	191	UG/GM-DW	60			
							CHEMCHAR	99912016			TZINC	192	UG/GM-DW	150			
							PHYSCHAR	99916020			WATERCON	180	%-BYWT	59.55			
							PHYSCHAR	99916020			SAND	180	%-BYWT	0			
							PHYSCHAR	99916020			SILT	180	%-BYWT	38.06			
							PHYSCHAR	99916020			CLAY	180	%-BYWT	61.94			
							CHEMCHAR	99916020			TCHROMUM	187	UG/GM-DW	140			
							CHEMCHAR	99916020			TCOPPER	188	UG/GM-DW	53			
							CHEMCHAR	99916020			TIRON	189	%-BYWT	4.98			
							CHEMCHAR	99916020			TMANGAN	190	UG/GM-DW	4500			
							CHEMCHAR	99916020			TNICKEL	191	UG/GM-DW	95			
							CHEMCHAR	99916020			TZINC	192	UG/GM-DW	300			
							PHYSCHAR	99928032			WATERCON	180	%-BYWT	59.02			
							PHYSCHAR	99928032			SAND	180	%-BYWT	3.63			
							PHYSCHAR	99928032			SILT	180	%-BYWT	39.2			
							PHYSCHAR	99928032			CLAY	180	%-BYWT	57.17			
							CHEMCHAR	99928032			TCHROMUM	187	UG/GM-DW	140			
							CHEMCHAR	99928032			TCOPPER	188	UG/GM-DW	73			
							CHEMCHAR	99928032			TIRON	189	%-BYWT	4.76			
							CHEMCHAR	99928032			TMANGAN	190	UG/GM-DW	2200			
							CHEMCHAR	99928032			TNICKEL	191	UG/GM-DW	160			
							CHEMCHAR	99928032			TZINC	192	UG/GM-DW	480			
XIF4615	850415	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3914370	7621300					
							SURFSAMP	.			WATERCON	56	%-BYWT	51.95			
							SURFSAMP	.			SAND	56	%-BYWT	5.44			
							SURFSAMP	.			SILT	56	%-BYWT	53			
							SURFSAMP	.			CLAY	56	%-BYWT	41.56			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF4615	850415	0	17	2139997	SEDIMENT	1	CORES	BA			3914370	7621300					
							PHYSCHAR	99900004			WATERCON	180	%-BYWT	56.57			
							PHYSCHAR	99900004			SAND	180	%-BYWT	3.95			
							PHYSCHAR	99900004			SILT	180	%-BYWT	49.55			
							PHYSCHAR	99900004			CLAY	180	%-BYWT	46.51			
							CHEMCHAR	99900004			TCHROMUM	187	UG/GM-DW	125			
							CHEMCHAR	99900004			TCOPPER	188	UG/GM-DW	33			
							CHEMCHAR	99900004			TIRON	189	%-BYWT	3.63			
							CHEMCHAR	99900004			TMANGAN	190	UG/GM-DW	500			
							CHEMCHAR	99900004			TNICKEL	191	UG/GM-DW	10			B
							CHEMCHAR	99900004			TZINC	192	UG/GM-DW	50			
							PHYSCHAR	99908012			WATERCON	180	%-BYWT	41.59			
							PHYSCHAR	99908012			SAND	180	%-BYWT	1.69			
							PHYSCHAR	99908012			SILT	180	%-BYWT	58.45			
							PHYSCHAR	99908012			CLAY	180	%-BYWT	39.86			
							CHEMCHAR	99908012			TCHROMUM	187	UG/GM-DW	110			
							CHEMCHAR	99908012			TCOPPER	188	UG/GM-DW	35			
							CHEMCHAR	99908012			TIRON	189	%-BYWT	2.69			
							CHEMCHAR	99908012			TMANGAN	190	UG/GM-DW	1350			
							CHEMCHAR	99908012			TNICKEL	191	UG/GM-DW	25			
							CHEMCHAR	99908012			TZINC	192	UG/GM-DW	190			
							PHYSCHAR	99912016			WATERCON	180	%-BYWT	50.98			
							PHYSCHAR	99912016			SAND	180	%-BYWT	0.46			
							PHYSCHAR	99912016			SILT	180	%-BYWT	48.75			
							PHYSCHAR	99912016			CLAY	180	%-BYWT	49.79			
							CHEMCHAR	99912016			TCHROMUM	187	UG/GM-DW	125			
XIF4615	850415	0	17	2139997	SEDIMENT	1	CORES	BA			3914370	7621300					
							PHYSCHAR	99956060			WATERCON	180	%-BYWT	55.96			
							PHYSCHAR	99956060			SAND	180	%-BYWT	2.16			
							PHYSCHAR	99956060			SILT	180	%-BYWT	36.56			
							PHYSCHAR	99956060			CLAY	180	%-BYWT	61.28			
							CHEMCHAR	99956060			TCHROMUM	187	UG/GM-DW	110			
							CHEMCHAR	99956060			TCOPPER	188	UG/GM-DW	38			
							CHEMCHAR	99956060			TIRON	189	%-BYWT	4.63			
							CHEMCHAR	99956060			TMANGAN	190	UG/GM-DW	1450			
							CHEMCHAR	99956060			TNICKEL	191	UG/GM-DW	35			
							CHEMCHAR	99956060			TZINC	192	UG/GM-DW	150			
XIF4615	850415	0	17	2139997	SEDIMENT	1	GRAB	BA			3914370	7621300					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	125			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	33			
							CHEMCHAR	.			TIRON	183	%-BYWT	2.69			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1300			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	30			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	130			
XIF4642	850415	0	13	2139997	SEDIMENT	1	GRAB	BA		0	3914360	7624140					
							SURFSAMP	.			WATERCON	56	%-BYWT	45.73			
							SURFSAMP	.			SAND	56	%-BYWT	46.56			
							SURFSAMP	.			SILT	56	%-BYWT	31.58			
							SURFSAMP	.			CLAY	56	%-BYWT	21.14			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF4642	850415	0	14	2139997	SEDIMENT	1	GRAB	BA			3914360	7624140					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	110			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	35			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.94			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	550			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	20			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	180			
XIF4703	850415	0	0	2139997	SEDIMENT	1	CORES	BA			3914420	7620200					
							CHEMCHAR	99956060			TCOPPER	188	UG/GM-DW	23			
							CHEMCHAR	99956060			TIRON	189	%-BYWT	4.72			
							CHEMCHAR	99956060			TMANGAN	190	UG/GM-DW	1200			
							CHEMCHAR	99956060			TNICKEL	191	UG/GM-DW	35			
							CHEMCHAR	99956060			TZINC	192	UG/GM-DW	130			
XIF4806	850415	0	21	2139997	SEDIMENT	1	GRAB	BA		0	3914495	7620356					
							SURFSAMP	.			WATERCON	56	%-BYWT	59.95			
							SURFSAMP	.			SAND	56	%-BYWT	2.35			
							SURFSAMP	.			SILT	56	%-BYWT	39.21			
							SURFSAMP	.			CLAY	56	%-BYWT	58.44			
XIF4806	850415	1	21	2139997	SEDIMENT	1	GRAB	BA			3914490	7620356					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	135			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	53			
							CHEMCHAR	.			TIRON	183	%-BYWT	4.48			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1900			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	80			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	350			
XIF4964	850415	0	12	2139997	SEDIMENT	1	CORES	BA			3914560	7623380					
							CHEMCHAR	99956060			TCOPPER	186	UG/GM-DW	83			
							CHEMCHAR	99956060			TIRON	189	%-BYWT	4.23			
							CHEMCHAR	99956060			TMANGAN	190	UG/GM-DW	750			
							CHEMCHAR	99956060			TNICKEL	191	UG/GM-DW	130			
							CHEMCHAR	99956060			TZINC	192	UG/GM-DW	640			
XIF5009	850415	0	0	2139997	SEDIMENT	1	GRAB	BA			3914575	7620510					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	95			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	18			
							CHEMCHAR	.			TIRON	183	%-BYWT	2.05			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	1150			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	20			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	120			
XIF5009	850415	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3914575	7620510					
							SURFSAMP	.			WATERCON	56	%-BYWT	38.55			
							SURFSAMP	.			SAND	56	%-BYWT	54.76			
							SURFSAMP	.			SILT	56	%-BYWT	30.3			
							SURFSAMP	.			CLAY	56	%-BYWT	14.95			
XIF5203	850415	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915100	7620210					
							SURFSAMP	.			WATERCON	56	%-BYWT	24.92			
							SURFSAMP	.			SAND	56	%-BYWT	87.77			
							SURFSAMP	.			SILT	56	%-BYWT	5.42			
							SURFSAMP	.			CLAY	56	%-BYWT	6.82			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS		SPECIES	PARAMETER	METHOD	UNITS	VALUE		
XIF5303	850415	0	18	2139997	SEDIMENT	1	GRAB	BA			3915100	7620210					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	40		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	13		
							CHEMCHAR	.				TIRON	183	%-BYWT	1.05		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	600		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	10		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	70		
XIF5302	850415	0	22	2139997	SEDIMENT	1	GRAB	BA		0	3915010	7620035					
							SURFSAMP	.				WATERCON	56	%-BYWT	31.45		
							SURFSAMP	.				SAND	56	%-BYWT	78.15		
							SURFSAMP	.				SILT	56	%-BYWT	8.82		
							SURFSAMP	.				CLAY	56	%-BYWT	13.03		
XIF5302	850415	0	22	2139997	SEDIMENT	1	GRAB	BA		0	3915010	7620035					
							SURFSAMP	.				WATERCON	56	%-BYWT	43.96		
							SURFSAMP	.				SAND	56	%-BYWT	56.63		
							SURFSAMP	.				SILT	56	%-BYWT	17.9		
							SURFSAMP	.				CLAY	56	%-BYWT	25.46		
XIF5302	850415	0	22	2139997	SEDIMENT	1	GRAB	BA		0	3915010	7620035					
							SURFSAMP	.				WATERCON	56	%-BYWT	32.66		
							SURFSAMP	.				SAND	56	%-BYWT	73.34		
							SURFSAMP	.				SILT	56	%-BYWT	10.77		
							SURFSAMP	.				CLAY	56	%-BYWT	15.89		
XIF5302	850415	1	22	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	50		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	15		
							CHEMCHAR	.				TIRON	183	%-BYWT	0.71		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	600		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	10		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	110		
XIF5302	850415	2	22	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	80		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	35		
							CHEMCHAR	.				TIRON	183	%-BYWT	2.17		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1800		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	50		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	220		
XIF5302	850415	3	22	2139997	SEDIMENT	1	GRAB	BA			3915010	7620035					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	65		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	18		
							CHEMCHAR	.				TIRON	183	%-BYWT	1.26		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	450		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	10		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	110		
XIF5501	850415	0	16	2139997	SEDIMENT	1	GRAB	BA			3915275	7620090					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	30		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	13		
							CHEMCHAR	.				TIRON	183	%-BYWT	0.53		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	400		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	10		B
							CHEMCHAR	.				TZINC	186	UG/GM-DW	50		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF5501	850415	0	16	2139997	SEDIMENT	1	GRAB	BA			3915275	7620090					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	40			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	33			
							CHEMCHAR	.			TIRON	183	%-BYWT	0.88			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	450			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	10			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	60			
XIF5501	850415	0	16	2139997	SEDIMENT	1	GRAB	BA			3915275	7620090					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	55			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	13			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.11			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	650			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	20			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	90			
XIF5501	850415	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620090					
							SURFSAMP	.			WATERCON	56	%-BYWT	23.46			
							SURFSAMP	.			SAND	56	%-BYWT	95.65			
							SURFSAMP	.			SILT	56	%-BYWT	1.9			
							SURFSAMP	.			CLAY	56	%-BYWT	2.45			
XIF5501	850415	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620090					
							SURFSAMP	.			WATERCON	56	%-BYWT	28.19			
							SURFSAMP	.			SAND	56	%-BYWT	86.75			
							SURFSAMP	.			SILT	56	%-BYWT	5.43			
							SURFSAMP	.			CLAY	56	%-BYWT	7.82			
XIF5501	850415	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620090					
							SURFSAMP	.			WATERCON	56	%-BYWT	27.39			
							SURFSAMP	.			SAND	56	%-BYWT	82.53			
							SURFSAMP	.			SILT	56	%-BYWT	7.58			
							SURFSAMP	.			CLAY	56	%-BYWT	9.89			
XIF5505	850415	0	0	2139997	SEDIMENT	1	GRAB	BA			3915275	7620310					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	80			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	18			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.75			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	600			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	10			B
							CHEMCHAR	.			TZINC	186	UG/GM-DW	60			
XIF5505	850415	0	0	2139997	SEDIMENT	1	GRAB	BA			3915275	7620310					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	50			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	23			
							CHEMCHAR	.			TIRON	183	%-BYWT	1.22			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	500			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	10			B
							CHEMCHAR	.			TZINC	186	UG/GM-DW	60			
XIF5505	850415	0	0	2139997	SEDIMENT	1	GRAB	BA			3915275	7620310					
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	50			
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	18			
							CHEMCHAR	.			TIRON	183	%-BYWT	2.52			
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	500			
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	30			
							CHEMCHAR	.			TZINC	186	UG/GM-DW	70			

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				REM
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE			
XIF5505	850415	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620315					
							SURFSAMP	.				WATERCON	56	%-BYWT	25.44		
							SURFSAMP	.				SAND	56	%-BYWT	62.74		
							SURFSAMP	.				SILT	56	%-BYWT	28.15		
							SURFSAMP	.				CLAY	56	%-BYWT	9.11		
XIF5505	850415	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620315					
							SURFSAMP	.				WATERCON	56	%-BYWT	22.74		
							SURFSAMP	.				SAND	56	%-BYWT	50.55		
							SURFSAMP	.				SILT	56	%-BYWT	37.7		
							SURFSAMP	.				CLAY	56	%-BYWT	11.75		
XIF5505	850415	0	15	2139997	SEDIMENT	1	GRAB	BA		0	3915275	7620315					
							SURFSAMP	.				WATERCON	56	%-BYWT	26.42		
							SURFSAMP	.				SAND	56	%-BYWT	24.04		
							SURFSAMP	.				SILT	56	%-BYWT	63.23		
							SURFSAMP	.				CLAY	56	%-BYWT	12.72		
XIF5722	850415	0	12	2139997	SEDIMENT	1	GRAB	BA			3915410	7622135					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	110		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	38		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.14		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1050		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	30		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	190		
XIF5722	850415	0	17	2139997	SEDIMENT	1	GRAB	BA		0	3915410	7622135					
XIF5805	850415	0	14	2139997	SEDIMENT	1	GRAB	BA		0	3915510	7620315					
							SURFSAMP	.				WATERCON	56	%-BYWT	36.66		
							SURFSAMP	.				SAND	56	%-BYWT	47.85		
							SURFSAMP	.				SILT	56	%-BYWT	33.52		
							SURFSAMP	.				CLAY	56	%-BYWT	18.63		
XIF5805	850415	1	14	2139997	SEDIMENT	1	GRAB	BA			3915510	7620315					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	80		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	18		
							CHEMCHAR	.				TIRON	183	%-BYWT	2.46		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	850		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	10		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	110		
XIF5925	850415	0	12	2139997	SEDIMENT	1	GRAB	BA			3915510	7622340					
							CHEMCHAR	.				TCHROMUM	181	UG/GM-DW	165		
							CHEMCHAR	.				TCOPPER	182	UG/GM-DW	53		
							CHEMCHAR	.				TIRON	183	%-BYWT	3.83		
							CHEMCHAR	.				TMANGAN	184	UG/GM-DW	1850		
							CHEMCHAR	.				TNICKEL	185	UG/GM-DW	70		
							CHEMCHAR	.				TZINC	186	UG/GM-DW	290		
XIF5925	850415	0	13	2139997	SEDIMENT	1	GRAB	BA		0	3915510	7622340					
							SURFSAMP	.				WATERCON	56	%-BYWT	62.69		
							SURFSAMP	.				SAND	56	%-BYWT	1.53		
							SURFSAMP	.				SILT	56	%-BYWT	38.91		
							SURFSAMP	.				CLAY	56	%-BYWT	59.56		
XIF5975	850415	0	12	2139997	SEDIMENT	1	CORES	BA			3915510	7622340					
							CHEMCHAR	99956060				TCOPPER	188	UG/GM-DW	19		
							CHEMCHAR	99956060				TIRON	189	%-BYWT	4.67		
							CHEMCHAR	99956060				TMANGAN	190	UG/GM-DW	1600		
							CHEMCHAR	99956060				TNICKEL	191	UG/GM-DW	25		
							CHEMCHAR	99956060				TZINC	192	UG/GM-DW	120		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
XIF5975	850415	0	99	2139997	SEDIMENT	1	CORES	BA			3915510	7622340			
							PHYSCHAR	99900004			WATERCON	180	%-BYWT	66.58	
							PHYSCHAR	99900004			SAND	180	%-BYWT	1.87	
							PHYSCHAR	99900004			SILT	180	%-BYWT	37.25	
							PHYSCHAR	99900004			CLAY	180	%-BYWT	60.89	
							CHEMCHAR	99900004			TCHROMUM	187	UG/GM-DW	140	
							CHEMCHAR	99900004			TCOPPER	188	UG/GM-DW	63	
							CHEMCHAR	99900004			TIRON	189	%-BYWT	4.72	
							CHEMCHAR	99900004			TMANGAN	190	UG/GM-DW	1700	
							CHEMCHAR	99900004			TNICKEL	191	UG/GM-DW	70	
							CHEMCHAR	99900004			TZINC	192	UG/GM-DW	37	
							PHYSCHAR	99928032			WATERCON	180	%-BYWT	64.01	
							PHYSCHAR	99928032			SAND	180	%-BYWT	0	S
							PHYSCHAR	99928032			SILT	180	%-BYWT	0	S
							PHYSCHAR	99928032			CLAY	180	%-BYWT	0	S
							CHEMCHAR	99928032			TCHROMUM	187	UG/GM-DW	110	
							CHEMCHAR	99928032			TCOPPER	188	UG/GM-DW	19	
							CHEMCHAR	99928032			TIRON	189	%-BYWT	4.58	
							CHEMCHAR	99928032			TMANGAN	190	UG/GM-DW	1600	
							CHEMCHAR	99928032			TNICKEL	191	UG/GM-DW	35	
							CHEMCHAR	99928032			TZINC	192	UG/GM-DW	110	
							PHYSCHAR	99956060			WATERCON	180	%-BYWT	62.85	
							PHYSCHAR	99956060			SAND	180	%-BYWT	1.19	
							PHYSCHAR	99956060			SILT	180	%-BYWT	35.84	
							PHYSCHAR	99956060			CLAY	180	%-BYWT	62.97	
							CHEMCHAR	99956060			TCHROMUM	187	UG/GM-DW	95	
XIF6008	850415	0	11	2139997	SEDIMENT	1	GRAB	BA		0	3916000	7620500			
							SURFSAMP	.			WATERCON	56	%-BYWT	25.64	
							SURFSAMP	.			SAND	56	%-BYWT	92.42	
							SURFSAMP	.			SILT	56	%-BYWT	4.06	
							SURFSAMP	.			CLAY	56	%-BYWT	3.52	
XIF6008	850415	1	11	2139997	SEDIMENT	1	GRAB	BA			3916000	7620420			
							CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	35	
							CHEMCHAR	.			TCOPPER	182	UG/GM-DW	13	
							CHEMCHAR	.			TIRON	183	%-BYWT	0.74	
							CHEMCHAR	.			TMANGAN	184	UG/GM-DW	850	
							CHEMCHAR	.			TNICKEL	185	UG/GM-DW	30	
							CHEMCHAR	.			TZINC	186	UG/GM-DW	50	

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUB	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE				
							MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM		
XIF6388	850415	0	12	2139997	SEDIMENT	1	CORES	BA			3916160	7621120					
								PHYSCHAR	99900004			WATERCON	180	%-BYWT	65.09		
								PHYSCHAR	99900004			SAND	180	%-BYWT	2.04		
								PHYSCHAR	99900004			SILT	180	%-BYWT	40.85		
								PHYSCHAR	99900004			CLAY	180	%-BYWT	57.11		
								CHEMCHAR	99900004			TCHROMUM	187	UG/GM-DW	110		
								CHEMCHAR	99900004			TCOPPER	188	UG/GM-DW	38		
								CHEMCHAR	99900004			TIRON	189	%-BYWT	5.03		
								CHEMCHAR	99900004			TMANGAN	190	UG/GM-DW	3400		
								CHEMCHAR	99900004			TNICKEL	191	UG/GM-DW	70		
								CHEMCHAR	99900004			TZINC	192	UG/GM-DW	300		
								PHYSCHAR	99928032			WATERCON	180	%-BYWT	54.9		
								PHYSCHAR	99928032			SAND	180	%-BYWT	1.18		
								PHYSCHAR	99928032			SILT	180	%-BYWT	37.41		
								PHYSCHAR	99928032			CLAY	180	%-BYWT	61.41		
								CHEMCHAR	99928032			TCHROMUM	187	UG/GM-DW	95		
								CHEMCHAR	99928032			TCOPPER	188	UG/GM-DW	45		
								CHEMCHAR	99928032			TIRON	189	%-BYWT	4.76		
								CHEMCHAR	99928032			TMANGAN	190	UG/GM-DW	2450		
								CHEMCHAR	99928032			TNICKEL	191	UG/GM-DW	70		
								CHEMCHAR	99928032			TZINC	192	UG/GM-DW	200		
								PHYSCHAR	99956060			WATERCON	180	%-BYWT	60.92		
								PHYSCHAR	99956060			SAND	180	%-BYWT	0		S
								PHYSCHAR	99956060			SILT	180	%-BYWT	0		S
								PHYSCHAR	99956060			CLAY	180	%-BYWT	0		S
								CHEMCHAR	99956060			TCHROMUM	187	UG/GM-DW	80		
XIF6388	850415	0	12	2139997	SEDIMENT	1	CORES	BA			3916160	7621120					
								CHEMCHAR	99956060			TCOPPER	188	UG/GM-DW	23		
								CHEMCHAR	99956060			TIRON	189	%-BYWT	4.28		
								CHEMCHAR	99956060			TMANGAN	190	UG/GM-DW	1050		
								CHEMCHAR	99956060			TNICKEL	191	UG/GM-DW	35		
								CHEMCHAR	99956060			TZINC	192	UG/GM-DW	120		
XIF6407	850415	0	16	2139997	SEDIMENT	1	GRAB	BA		0	3916200	7620420					
								SURFSAMP	.			WATERCON	56	%-BYWT	62.59		
								SURFSAMP	.			SAND	56	%-BYWT	1.56		
								SURFSAMP	.			SILT	56	%-BYWT	48.88		
								SURFSAMP	.			CLAY	56	%-BYWT	49.55		
XIF6407	850415	1	16	2139997	SEDIMENT	1	GRAB	BA			3916200	7620420					
								CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	110		
								CHEMCHAR	.			TCOPPER	182	UG/GM-DW	48		
								CHEMCHAR	.			TIRON	183	%-BYWT	4.6		
								CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2400		
								CHEMCHAR	.			TNICKEL	185	UG/GM-DW	60		
								CHEMCHAR	.			TZINC	186	UG/GM-DW	230		
XIF7589	850415	0	14	2139997	SEDIMENT	1	GRAB	BA		0	3917290	7618545					
								SURFSAMP	.			WATERCON	56	%-BYWT	52.69		
								SURFSAMP	.			SAND	56	%-BYWT	34.51		
								SURFSAMP	.			SILT	56	%-BYWT	30.72		
								SURFSAMP	.			CLAY	56	%-BYWT	34.73		

STATION	DATE	TIME	DEPTH FT	BASIN	MEDIA CLASS	SUP	SAMPLE METHOD	CTY	TIDE	WEATHER	LATITUDE	LONGITUDE	REPLICATE
XIG7589	650415	0	14	2139997	SEDIMENT	1	GRAB	BA			3917290	7616545	

MEDIA	PHYLUM	CLASS	SPECIES	PARAMETER	METHOD	UNITS	VALUE	REM
CHEMCHAR	.			TCHROMUM	181	UG/GM-DW	95	
CHEMCHAR	.			TCOPPER	182	UG/GM-DW	38	
CHEMCHAR	.			TIRON	183	%-BYWT	3.14	
CHEMCHAR	.			TMANGAN	184	UG/GM-DW	2450	
CHEMCHAR	.			TNICKEL	185	UG/GM-DW	40	
CHEMCHAR	.			TZINC	186	UG/GM-DW	200	

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INTRODUCTION

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

SAMPLING LOCATIONS

The data presented in this report were collected during the fourth year monitoring of the surficial sediment and core stations established during the initial phase of this project. These stations are shown in Figure 1. The data represent information collected from two sampling cruises.

In the field, the geographical positions of the stations were determined using the Loran-C Navigational System. In the upper Bay, one Loran-C x-coordinate unit equals 260.2 meters (290 yds) and one y-coordinate unit equals 150.9 meters (165 yds). Over a given year, the variability of the x-coordinate can be up to 78.1 meters (87 yds) and the y-coordinate can vary up to 30.2 meters (33 yds). The Loran-C coordinates, and the latitude and longitude for each station are listed in Tables 2 and 5.

SEDIMENTOLOGICAL PARAMETERS

FIELD METHODS

During the fourth year of monitoring, two sampling cruises were conducted; in November 1984 and April 1985. During each

cruise, surficial sediment samples were collected at 25 locations (Figure 1).

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

During the April sampling period, one core was collected at each of the seven BX stations (Figure 1). Benthos-type gravity corer model #2171, with clear cellulose acetate butyrate (CAB)

liners diameter of 6.3 cm was used to collect the cores. Each core was cut and capped at the original level of the sediment-water interface and refrigerated until they were X-rayed and processed in the lab.

Laboratory Procedures

- Sediment Analyses -

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

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

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

The percentages of sand, silt and clay were determined using standard sedimentological procedures. Detailed procedures may be found in Kerhin and others (1983). Briefly, the procedure is as follows: Prior to textural analysis, each sample was cleaned by treatment with hydrochloric acid to remove any carbonates (and shells) and then each sample is treated with hydrogen peroxide to remove organics. Once cleaned, the sediment was wet sieved through a 62um mesh sieve to separate the sand fraction from the finer material (see Table 1 for definition of sand, silt and clay). The fine fraction was then pipetted to determined the silt and clay components. The sediments were classified according to Shepard's (1954) classification based on the percentages of sand, silt and clay Figure 2).

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

The percent sand, silt, clay, water content and weight loss for the sediments are listed in Tables 4 and 7.

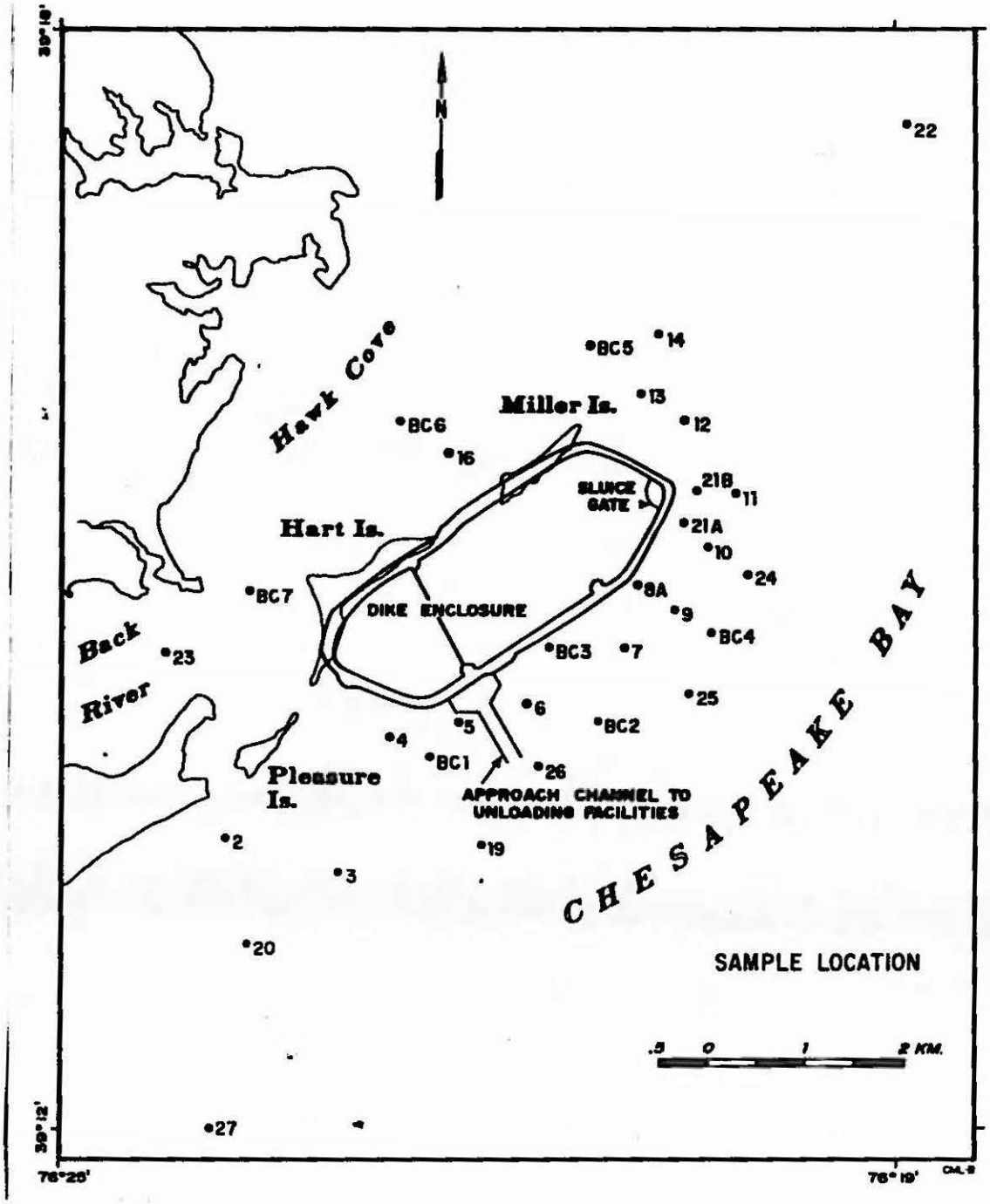

Figure 1. Locations of surficial sediment and core stations.

TABLE 1. WENTWORTH SIZE NOMENCLATURE.

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

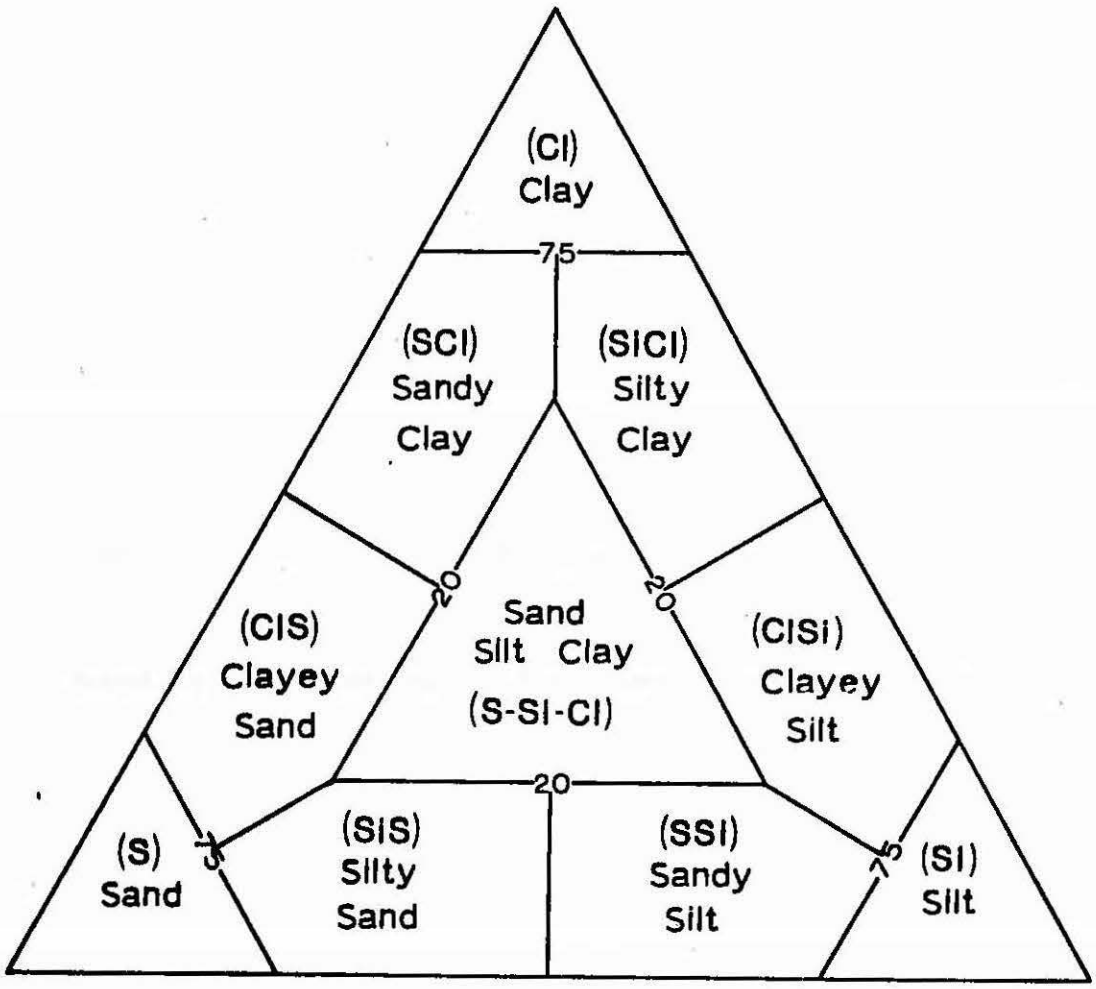

Figure 2. Ternary diagram showing Shepard's (1954) classification of sediment type based on relative percentages of sand, silt and clay components.

2) Approximately 10g of wet sample were drawn into a modified Leur-loc syringe fitted with a 1.25mm polyethylene screen (used to remove shell material and large pieces of detritus);

3) Sieved samples were desegregated in high-purity water and dried in teflon evaporating dishes at 110°C overnight;

4) Dried samples were then hand ground in an agate molar and pestle, and stored in Whir-Pac bags;

5) Samples were weighed (0.$\pm$0.0002g) into a depression formed in $LiBO_2$ (1.00$\pm$0.1g) at the bottom of drill-point graphite crucibles (7.8 cc vol.);

6) These crucibles were placed in a highly regulated muffle furnace at 1050$\pm$5°C for 30 min.;

7) The molten beads produced were poured directly into teflon beakers, containing 100 ml of a solution composed of 4% HNO_3, 1000 ppm La (from $La(NO_3)_3$) and 2000 ppm Cs (from CsNO3), and stirred for 10 min. (if dissolution did not occur after 30 min. the solution and bead were thrown out and the sample re-fused), and;

8) The dissolved samples were transferred to CPE bottles and stored for analysis.

All surfaces which came in contact with the samples were acid washed (3 days 1:1 HNO_3, 3 days 1:1 HCl), rinsed six times in high purity water (<5 mega-ohms) and stored in high purity water until use.

The dissolved samples were analyzed using the method of bracketing standards and standard F.A.A.S. settings

(Emmel et al., 1970). A standard curve was run every 11 samples. Blanks were run every 12 samples, and National Bureau of Standards Reference Material #1646 (Estuarine Sediment) was run every 24 samples.

The results of trace metal analyses for the surficial sediments and the core samples are given in Tables 8 and 11.

BEACH EROSION STUDY

Field Methods

There are 10 beach and nearshore profile lines that were chosen from the engineering site plan of the constructed dike and recreational beach created between Hart and Miller Islands (Figure 3). The end profiles are located inside the fences constructed to keep people out of dangerous areas. The benchmark, located approximately 20' from the center line of the dike roadway at 30+00, is the starting point with an elevation of 14.57 feet mean low water. All other profile starting points are located along the centerline of the dike roadway with elevations transferred from the benchmark. Each profile is measured down the dike face past level of the low tide, usually to a negative elevation.

Profiling measurements were made by the same leveling methods discussed in the previous report of 1984 (Wells et al., 1985). The beach profiles were surveyed five times in this second year of the beach study; September and December 1984 and March, June and September 1985. In June 1985, surface sediment samples were collected along each profile at changes in slope

and/or every fifty feet. Distance and elevation data from each survey are given in Table 12.

Laboratory Methods

Beach sediment samples were processed using the same method as described earlier in this chapter (Sediment Analysis). Percentages of gravel, sand, silt and clay were obtained and are listed in Table 13.

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SEDIMENTARY ENVIRONMENT

DATA TABLES

TABLE 2. LORAN C COORDINATES AND LATITUDES AND LONGITUDES OF SURFICIAL SEDIMENT STATIONS SAMPLED NOVEMBER 26, 1984

Station Number	Loran C Coordinates X	Y	Latitude	Longitude
2	27640.80	42888.14	39°13'35.0"	76°23'48.0"
3	27636.52	42886.57	39°13'24.0"	76°22'59.6"
4	27637.33	42895.57	39°14' 8.0"	76°22'38.0"
5	27635.43	42897.02	39°14'12.5"	76°22' 9.0"
6	27633.43	42898.48	39°14'18.5"	76°21'40.0"
7	27631.05	42902.55	39°14'37.0"	76°20'57.0"
8A	27632.37	42906.38	39°14'57.5"	76°20'51.0"
9	27629.86	42905.18	39°14'49.5"	76°20'35.6"
10	27630.10	42909.73	39°15'10.0"	76°20'21.0"
11	27630.24	42913.39	39°15'27.5"	76°20' 9.0"
12	27633.29	42917.37	39°15'51.0"	76°20'31.5"
13	27635.47	42919.75	39°16' 0.0"	76°20'50.0"
14	27636.17	42924.07	39°16'20.0"	76°20'42.0"
16	27641.13	42919.96*	39°15'41.0"	76°22'13.5"
19	27632.29	42888.97	39°13'33.0"	76°21'59.0"
20	27638.13	42881.43	39°13' 0.5"	76°23'39.0"
21A	27631.50	42911.54	39°15'18.0"	76°20'31.5"
22	27631.67	42939.22	39°17'29.0"	76°18'54.5"
23	27646.84	42900.51	39°14'36.0"	76°24'14.0"
24	27629.81	42908.94	39°15' 1.0"	76°20' 3.5"
25	27629.73	42900.48	39°14'22.0"	76°20'29.0"
26	27633.61	42895.00	39°13'58.0"	76°21'35.0"
27	27637.34	42869.72	39°11'59.5"	76°23'47.0"
BC-3	27633.30	42901.91	39°14'37.0"	76°21'30.0"
BC-6	27643.42	42917.18	39°15'51.0"	76°22'34.0"

*Loran C y-coordinate should have been 42914.96.

TABLE 3. FIELD DESCRIPTIONS OF SURFICIAL SEDIMENT SAMPLES COLLECTED NOVEMBER 26, 1984

Station Number	Water Depth	Description
2	10'	Brown silty sand with shell fragments.
3	15'	Dark grey, somewhat cohesive, muddy sand; layer of Rangia shells on top.
4	15'	Greenish-grey, cohesive lumpy mud; pink smooth mud found at approx. 20 cm depth.
5	19.5'	Brown fluid mud with some lighter (whitish) lumps.
6	18'	Reddish-brown smooth mud with streaks of steel-grey mud; layer of shells on top; darker grey mud at depth.
7	18'	Brown, somewhat fluid, smooth mud.
8A	14'	Yellowish-brown, very smooth silty mud; some streaks of white and steel grey mud; shells on top.
9	20.5'	Grey cohesive mud; layer of Rangia shells on top; worms and plant material present.
10	17'	Grey to greyish-brown muddy sand; lots of shells.
11	17'	Brown to greyish-brown muddy sand; lots of shells, - mostly oyster shells.
12	14'	Brown to greyish-brown sandy mud; lots of shells, most of which were concentrated toward top of sediment.
13	10.5'	Brown to greyish-brown sandy mud; shells, worms present.
14	15'	Brown to grey mud; noticeable decrease in water content with depth, layer of Rangia (live) on top.
16	12'	Brown to grey mud; increased cohesiveness with depth; shells.
19	19'	Greenish-grey cohesive lumpy mud with some shells.
20	15'	Greenish-grey cohesive, slightly gritty mud; worm tubes, shells present.
21A	18'	Greyish-brown sandy mud; lots of shell hash and fragments, mostly oyster shells.
22	12.5'	Brown to grey, very gritty mud; shells on top; plant material present.
23	11'	Brown to grey cohesive mud; shells.
24	21'	Brown to grey, very gritty mud; lots of shells.
25	18.5'	Grey somewhat fluid mud - becomes dryer with depth; layer of shells; (live? Macoma) on top.
26	17.5'	Reddish-brown, fluid, lumpy mud; live Rangia.
27	17'	Greenish-grey, slightly gritty cohesive mud; worm tubes, shells, and copepods present.
BC-3	16.5'	Darker grey mud; (live) shells; on top is thick flocculent layer of reddish-brown smooth mud.
BC-6	12.5'	Brown to grey mud; layer of shells on top.

TABLE 4. SEDIMENTOLOGICAL PARAMETERS OF SURFICIAL SAMPLES COLLECTED NOVEMBER 26, 1984

Station Number	Sand %	Silt %	Clay %	Shepard's Class	% Water	% Weight loss after cleaning
2	97.08	1.61	1.31	S	22.21	1.86
3	79.00	8.92	12.08	S	35.67	5.61
4	3.91	59.40	36.69	ClSi	60.40	7.59
5	2.65	52.40	44.94	ClSi	61.74	13.50
6	1.09	48.06	50.85	SiCl	52.84	25.05
7	4.21	39.61	56.19	SiCl	57.81	30.49
8	69.13	19.18	11.69	SiS	44.69	-
9	2.15	39.47	58.38	SiCl	61.63	16.62
10	82.46	7.69	9.85	S	28.77	13.57
11 repli-	82.58	7.74	9.68	S	28.26	16.19
11 cates	85.41	6.20	8.39	S	24.86	7.19
12	46.51	32.73	20.76	SSiCl	39.61	8.55
13	82.47	9.95	7.58	S	20.90	5.42
14	1.21	48.48	50.31	SiCl	62.72	18.24
16	2.06	42.63	55.31	SiCl	66.36	14.74
19	0.32	42.32	57.36	SiCl	66.59	16.51
20	1.43	40.60	57.98	SiCl	63.05	16.03
21 repli-	29.66	38.80	31.54	SSiCl	47.02	12.72
21 cates	24.25	55.97	19.78	SSi	32.96	7.88
22	57.97	19.80	22.23	ClS	43.64	15.66
23	1.04	49.97	49.00	ClSi	65.93	16.30
24 repli-	34.44	26.40	39.17	SSiCl	53.34	19.54
24 cates	9.58	39.12	51.30	SiCl	61.85	16.71
25	1.14	39.08	59.78	SiCl	60.70	22.56
26	0.88	45.14	53.98	SiCl	67.34	13.33
27	1.65	37.51	60.84	SiCl	60.13	21.36
BC-3	10.20	53.42	36.39	ClSi	55.48	16.31
BC-6	1.87	37.01	61.13	SiCl	65.49	21.98

TABLE 5. LORAN C COORDINATES AND LATITUDES AND LONGITUDES OF THE SURFICIAL SEDIMENT STATIONS, AND CORING STATIONS OCCUPIED APRIL 15, 1985

Station Number	Loran C Coordinates X	Y	Latitude	Longitude
2	27640.8	42888.1	39°13'35.0"	76°23'48.0"
3	27636.5	42886.5	39°13'24.0"	76°22'59.6"
4	27637.2	42895.6	39°14' 8.0"	76°22'38.0"
5	27635.5	42897.0	39°14'12.5"	76°22' 9.0"
6	27633.5	42898.5	39°14'18.5"	76°21'40.0"
7	27630.9	42902.6	39°14'37.0"	76°20'57.0"
8A	27632.3	42906.6	39°14'57.5"	76°20'51.0"
9	27629.9	42905.2	39°14'49.5"	76°20'35.6"
10	27630.1	42909.7	39°15'10.0"	76°20'21.0"
11	27630.2	42913.5	39°15'27.5"	76°20' 9.0"
12	27633.3	42917.2	39°15'51.0"	76°20'31.5"
13	27635.5	42919.7	39°16' 0.0"	76°20'50.0"
14	27636.1	42924.0	39°16'20.0"	76°20'42.0"
16	27641.1	42914.9	39°15'41.0"	76°22'13.5"
19	27632.3	42888.9	39°13'33.0"	76°21'59.0"
20	27638.1	42881.4	39°13' 0.5"	76°23'39.0"
21B*	27632.1	42912.9	39°15'27.5"	76°20'31.0"
22	27631.7	42939.2	39°17'29.0"	76°18'54.5"
23	27646.8	42900.6	39°14'36.0"	76°24'14.0"
24	27629.8	42909.0	39°15' 1.0"	76°20' 3.5"
25	27629.8	42900.4	39°14'22.0"	76°20'29.0"
26	27633.6	42895.0	39°13'58.0"	76°21'35.0"
27	27637.4	42869.7	39°11'59.5"	76°23'47.0"
BC-3	27633.3	42901.9	39°14'37.0"	76°21'30.0"
BC-6	27643.4	42917.1	39°15'51.0"	76°22'34.0"

*Station #21 was moved toward Station #13. Relocation was necessary because the former site was situated over an oyster bar, making it very difficult to collect enough sample for analysis.

BC-1	27635.7	42894.4	39°14' 1.0"	76°22'21.0"
BC-2	27630.7	42897.7	39°14'12.5"	76°21' 9.0"
BC-3	27633.3	42901.9	39°14'37.0"	76°21'30.0"
BC-4	27628.4	42904.0	39°14'42.0"	76°20'20.0"
BC-5	27627.8	42920.1	39°16'16.0"	76°21'12.0"
BC-6	27643.4	42917.1	39°15'51.0"	76°22'34.0"
BC-7	27645.0	42904.6	39°14'56.0"	76°23'38.0"

TABLE 6. FIELD DESCRIPTIONS OF SURFICIAL SEDIMENT SAMPLES COLLECTED APRIL 15, 1985

Station Number	Water Depth	Description
2	7'	Reddish brown medium to fine sand; few live copepods; fairly clean sand, very few shells.
3	18'	Grey, gritty, somewhat watery mud; brown floc on top; oxidized burrows extending approximately 10 cm down; some shells, wood fragments.
4	14.5'	Brown and grey smooth, fluid mud with streaks of pink mud; becomes solid pink to pinkish brown about 10 cm down; thin floc on top.
5	19'	Medium brown fluid mud with streaks of white mud; 10 to 15 cm thick overlying cohesive, light steel grey mud having very "curdled" appearance; some small shells (Mulinia?)
6	16'	Medium grey, fluid mud with some lenses of dark grey mud; lots of shells on top in floc layer - Rangia -dead; sewage-like odor; may be from rotting clams
7	19'	Dark grey to almost black, very stiff, cohesive (sticky) mud; lots of shells on top with floc layer; few copepods; slight diesel-like odor
8A	15'	Medium grey, slightly gritty mud, streaks of reddish-brown mud and white clayey sand throughout; light tan smooth mud layer on top containing live Rangia; lots of large (1 cm) copepods.
9	21'	Dark grey, cohesive, slightly gritty mud; lots of shells (different species) in floc layer.
10	17'	Brown and grey sandy mud; shells on top
11	17'	Dark reddish brown sandy mud overlying grey muddy sand; lots of shells in layer on top; triplicates taken at this station - first grab was much sandier than other two
12	14'	Reddish brown to medium grey, gritty mud; reddish-brown, very sandy floc on top; some shells in floc
13	11'	Tannish-brown to medium grey, sandy mud; some shells; very unusual iron-red coarse sand (approx. 2 mm thick) layer on top
14	16'	Medium grey to grey-green, watery mud; some shells, pockets of very dark grey "drier" mud; brown flocculent layer on top
16	17'	Grey to green-grey, slighty gritty, cohesive mud; brown floc layer on top; some shells
19	19'	Brown to brown-grey, watery mud; more cohesive medium grey mud at depth; lots of oyster shells
20	16'	Mottled medium to dark grey, very cohesive, stiff mud; fairly thick (approx. 1-2 cm) floc layer on top; worms, oxidized burrows, some shells

TABLE 6 (cont.). FIELD DESCRIPTIONS OF SURFICIAL SEDIMENT SAMPLES COLLECTED APRIL 15, 1985

21B	15'	Light yellowish-brown, smooth, very sticky clayey mud; darker brown, gritty mud at depth; some streaks of white mud; dark grey, anoxic "halos" around shells; abundant shells in floc layer on top. Triplicate samples taken at this station
22	14'	Grey to grey-green somewhat cohesive mud, slightly gritty. Shells throughout; reddish-brown floc layer on top
23	13'	Medium grey to greenish grey watery mud, becomes drier with depth to a dark grey, cohesive stiff mud; very thick brown floc on top
24	22'	Dark grey, very gritty mud; abundant shells (several species) in floc layer on top; triplicate samples taken at this station - first grab had thicker layer of flocculence than other two
25	20'	Dark grey watery mud, becomes more cohesive with depth, abundant shells (several species) in flocculent layer on top
26	17'	Light steel grey very smooth mud, shells (live Rangia) in floc layer on top
27	17'	Medium grey, very cohesive, stiff mud; thick flocculent layer on top (approx. 1-2 cm); some worms; oxidized burrows extending approx. 10 cm down; shells (Macoma)
BC-3	16'	Grey to brown smooth mud with streaks of pink and white mud throughout; layer of shells in floc on top; mud becomes more compact with depth; copepods
BC-6	13'	Dark greenish-grey mud; cohesive; some shells; oxidized burrows; reddish-brown floc on top

TABLE 7. SEDIMENTOLOGICAL PARAMETERS OF SURFICIAL SEDIMENT SAMPLES COLLECTED APRIL 15, 1985

Station Number	Sand%	Silt%	Clay%	Shepard's Class	%Water	%Weight loss after cleaning
2	95.96	2.02	2.02	S	18.25	8.26
3	30.35	30.40	39.25	SSiCl	54.11	16.81
4	1.56	51.87	46.56	ClSi	54.98	9.47
5	3.23	51.85	44.92	ClSi	55.18	10.20
6	3.43	44.67	51.90	SiCl	62.37	12.56
7	1.70	37.99	60.31	SiCl	61.86	18.40
8	54.76	30.30	14.95	SiS	38.55	10.26
9	2.35	39.21	58.44	SiCl	59.95	22.61
10	87.77	5.42	6.82	S	24.92	3.64
11	95.65	1.90	2.45	S	23.46	1.70
11 Tripli-	86.75	5.43	7.82	S	28.19	28.78
11 cates	82.53	7.58	9.89	S	27.39	22.80
12	47.85	33.52	18.63	SiS	36.68	7.20
13	92.42	4.06	3.52	S	25.64	8.07
14	1.58	48.88	49.55	SiCl	62.59	13.84
16	39.76	30.32	29.92	SSiCl	44.75	13.94
19	2.87	39.47	57.66	SiCl	61.20	34.14
20	1.74	45.02	53.24	SiCl	60.68	17.51
21B	62.74	28.15	9.11	SiS	25.44	3.10
21B Tripli-	50.55	37.70	11.75	SiS	22.74	10.41
21B cates	24.04	63.23	12.72	SSi	26.42	6.79
22	34.51	30.72	34.78	SSiCl	52.89	18.99
23	46.88	31.98	21.14	SSiCl	48.73	10.54
24	78.15	8.82	13.03	S	31.45	10.12
24 Tripli-	56.63	17.90	25.46	ClS	43.96	17.01
24 cates	73.34	10.77	15.89	ClS	32.86	12.09
25	1.34	38.00	60.67	SiCl	58.79	30.08
26	0.60	38.42	60.97	SiCl	54.09	15.15
27	1.62	36.92	61.46	SiCl	62.41	25.54
BC-3	5.44	53.00	41.56	ClSi	51.95	12.15
BC-6	1.53	38.91	59.56	SiCl	62.69	20.50

TABLE 8. TRACE METAL ANALYSIS OF SURFICIAL SEDIMENT SAMPLES COLLECTED DURING THE PERIOD BETWEEN JUNE, 1984 AND APRIL, 1985.

Sample #	Date Collected	Cr µg/g	Cu µg/g	Fe wt%	Mn µg/g	Ni µg/g	Zn µg/g
2	6/6/84	16±2	14±3	0.21±0.38	780±70	10±30	20±15
3		73±2	24±3	1.62±0.38	980±70	21±30	140±15
4		104±2	34±3	3.21±0.38	520±70	31±30	100±15
5		88±2	34±3	3.32±0.38	1090±70	31±30	130±15
6		88±2	40±3	4.40±0.38	1400±70	21±30	160±15
7		120±2	55±3	5.33±0.38	2080±70	57±30	350±15
8A		73±2	34±3	2.36±0.38	570±70	BDL*	70±15
9		120±2	55±3	5.66±0.38	2080±70	57±30	320±15
10		63±2	24±3	0.94±0.38	570±70	BDL	60±15
11A		62±2	24±3	0.62±0.38	1300±70	BDL	50±15
11B		45±2	40±3	0.46±0.38	1400±70	BDL	50±15
12		73±1	50±3	0.99±0.38	1770±70	10±30	90±15
13		57±1	19±3	0.52±0.38	1200±70	BDL	30±15
14		120±1	50±3	4.24±0.38	1870±70	31±30	210±15
16		88±1	40±3	2.73±0.38	1090±70	31±30	180±15
19		130±1	71±3	5.17±0.38	4060±70	57±30	330±15
20		146±1	66±3	5.44±0.38	2500±70	66±30	370±15
$21A_1$		88±1	34±3	3.65±0.38	1090±70	21±30	110±15
$21A_2$		88±1	40±3	3.54±0.38	780±70	31±30	120±15
22		88±1	24±3	2.25±0.38	830±70	BDL	120±15
23		57±1	34±3	1.99±0.38	620±70	21±30	140±15
24_1	6/7/84	146±1	66±3	4.73±0.38	1920±70	66±30	300±15
24_2		120±1	71±3	4.57±0.38	2450±70	78±30	280±15
25		109±1	68±3	3.27±0.38	2750±70	55±30	350±15
26		105±1	68±3	2.47±0.38	3170±70	40±30	330±15
27		120±1	88±3	8.19±0.38	6080±70	95±30	710±15
BC3		90±1	53±3	3.77±0.38	2130±70	40±30	200±15
BC6		135±1	98±3	5.55±0.38	1870±70	65±30	380±15
2	11/26/84	30±1	103±3	0.35±0.38	520±70	10±15	40±15
3		15±1	38±3	1.10±0.38	940±70	10±15	80±15
4		90±1	63±3	3.56±0.38	2600±70	55±15	210±15
5		90±1	38±3	3.71±0.38	2550±70	55±15	220±15
6		100±2	48±3	3.66±0.38	1200±70	20±15	150±15
7		100±2	63±3	4.39±0.38	2750±70	75±15	290±15
8A		50±2	38±3	1.71±0.38	2050±70	BDL	90±15
9		50±2	63±3	4.85±0.38	2600±70	45±15	320±15
10		35±2	23±3	1.05±0.38	1150±70	BDL	80±15
11_1		10±2	33±3	0.30±0.38	200±70	10±15	30±15
11_2		60±2	23±3	1.46±0.38	1650±70	20±15	100±15
11_3		25±2	23±3	1.00±0.38	1050±70	20±15	80±15
12		60±2	38±3	2.32±0.38	950±70	BDL	100±15
13		25±2	18±3	0.60±0.38	800±70	35±15	40±15
14		110±2	53±3	4.03±0.38	3450±70	90±15	200±15
16		110±1	53±3	4.13±0.38	1700±70	55±15	230±15
19		110±1	63±3	4.71±0.38	4550±70	75±15	280±15
20		75±1	33±3	3.09±0.38	450±70	20±20	110±15
$21A_1$		65±1	23±3	2.37±0.38	1250±70	20±20	110±15

*Below detection limit

TABLE 8 (cont.). TRACE METAL ANALYSIS OF SURFICIAL SEDIMENT SAMPLES COLLECTED DURING THE PERIOD BETWEEN JUNE, 1984 AND APRIL, 1985

Sample #	Date Collected	Cr µg/g	Cu µg/g	Fe wt%	Mn µg/g	Ni µg/g	Zn µg/g
$21A_2$	11/26/84	75±1	23±3	2.73±0.38	900±70	30±20	140±15
$21A_3$		75±1	33±3	2.58±0.38	1700±70	50±20	190±15
22		90±1	38±3	2.42±0.38	1300±70	10±20	150±15
23		145±1	68±3	4.08±0.38	1300±70	70±20	290±15
24_1		130±1	63±3	4.71±0.38	2300±70	60±20	290±15
24_2		105±1	38±3	3.51±0.38	1850±70	30±20	200±15
24_3		80±1	38±3	3.09±0.38	2000±70	40±20	200±15
25		130±1	68±3	4.71±0.38	2250±70	90±20	380±15
26		120±1	63±3	4.39±0.38	4300±70	50±20	280±15
27		170±1	73±3	5.55±0.38	4200±70	90±20	540±15
BC3		90±1	38±3	3.19±0.38	1600±70	40±20	170±15
BC6		130±1	53±3	4.44±0.38	1950±70	60±20	340±15
2	4/15/85	25±1	13±3	0.37±0.13	1400±70	20±15	40±15
3		120±1	38±3	3.75±0.13	2700±70	20±15	280±15
4		120±1	38±3	3.44±0.13	1900±70	60±15	230±15
5		135±1	33±3	2.51±0.13	1600±70	20±15	160±15
6		150±1	48±3	3.56±0.13	4350±70	50±15	250±15
7		135±1	53±3	3.95±0.13	1700±70	70±15	360±15
8		95±1	18±3	2.05±0.20	1150±70	20±15	120±15
9		135±1	53±3	4.48±0.20	1800±70	80±15	350±15
10		40±1	13±3	1.05±0.20	600±70	10±15	70±15
11_1		30±1	13±3	0.53±0.20	400±70	BDL	50±15
11_2		40±1	33±3	0.88±0.20	450±70	10±15	80±15
11_3		55±1	13±3	1.11±0.20	650±70	20±15	90±15
12		80±1	18±3	2.46±0.26	850±70	10±15	110±15
13		35±2	13±3	0.74±0.26	850±70	30±15	50±15
14		110±2	48±3	4.60±0.26	2400±70	60±15	230±15
16		110±2	38±3	3.14±0.26	1050±70	30±15	190±15
19		140±2	63±3	5.15±0.26	6200±70	80±15	320±15
20		155±2	63±3	4.82±0.26	2900±70	70±20	370±15
$21B_1$		80±2	18±3	1.75±0.26	600±70	BDL	60±15
$21B_2$		50±2	23±3	1.22±0.26	500±70	BDL	60±15
$21B_3$		50±2	18±3	2.52±0.26	500±70	30±20	70±15
22		95±2	38±3	3.14±0.26	2450±70	40±20	200±15
23		110±2	38±3	1.94±0.26	950±70	20±20	180±15
24_1		65±2	18±3	1.26±0.21	450±70	10±20	110±15
24_2		80±2	38±3	2.17±0.21	1800±70	50±20	220±15
24_3		50±2	18±3	0.71±0.21	600±70	10±20	110±15
25		155±2	63±3	1.87±0.21	1850±70	80±20	330±15
26		125±2	48±3	4.17±0.21	2250±70	40±20	220±15
27		180±2	68±3	3.62±0.21	4850±70	90±20	510±15
BC3		125±2	33±3	2.69±0.21	1300±70	30±20	130±15
BC6		165±2	53±3	3.83±0.21	1850±70	70±20	290±15

TABLE 9. VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN MAY AND JULY,1985

NOTE: All xeroradiographs are positively enhanced, i.e. - more dense objects appear dark in the radiograph, less dense material lighter shade. Radiographs are included in Interpretive Report.

Station BC-1

Latitude: 39°14' 1.0"
Longitude: 76°22'21.0"
Loran C TD's: 27635.7
42894.4
Sampling date: July 2, 1985
Depth of Penetration: 82 cm

	subsamples	
interval	textural	trace metal
0-4 cm	x	x
16-20 cm	x	x
21-25 cm	x	x
28-32 cm	x	x
56-60 cm	x	x

Visual Observations:

0-2 cm	Medium to dark brown watery flocculent layer of mud
2-20.5 cm	"Steel" grey to grey brown "banded", somewhat smooth mud
20.5-27 cm	Abrupt change (at 20.5 cm) to medium grey-brown, dryer cohesive mud
27-35 cm	Dark grey to black cohesive mud containing shell layer of Rangia cuneata shells
35-42 cm	Medium brownish-grey cohesive shell; inarticulated shell with anoxic halo (darker-colored mud)
42-50 cm	Lighter greyish brown cohesive mud; texture same as above layer
50-82 cm	Medium to dark "steel"-grey, cohesive mud, uniform in texture and structure

Radiographic Observations:

0-11 cm	Somewhat reticulated network of burrows, Macoma shell at 9 cm down
11-20.5 cm	Very little evidence of bioturbation; subtle laminae seen
20.5-25 cm	More defined laminae of less dense material (more clayey sediment with higher water content), several shell fragments seen
26-40 cm	Shell layer of Rangia
40-	Very highly reticulated (mottled) uniform

TABLE 9 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN MAY AND JULY,1985

Station BC-2

Latitude: 39°14'12.5"
Longitude: 76°21' 9.0"
Loran C TD's: 27630.7
42897.7
Sampling date: April 15, 1985
Depth of penetration: 88 cm

	subsamples	
interval	textural	trace metal
0-4 cm	x	x
28-32 cm	x	x
56-60 cm	x	x

Visual Observations:

0-1 cm	Dark brown flocculent layer, also layer of shells mainly *Rangia cuneata*
1-10 cm	Dark grey, almost black mud with network of oxidized (medium brown) burrows down to approx. 10 cm
10-52 cm	Very dark grey mud; very uniform throughout, evidence of burrows but not oxidized, occasional oyster shell fragment; faint band of lighter grey mud at 42 cm
52-70 cm	Slightly darker grey almost black very stiff cohesive mud
70-88 cm	Very dark grey mud, becomes lighter at very bottom of core

Radiographic Observations:

0-22.0 cm	Layer of *Rangia cuneata* shells at 0 to 10.5 cm; oyster shell fragment at 13 cm; network of burrowing, well defined to a depth of 22 cm
22.0-	Uniformly mottled structure, some "ghost" of burrows; oyster shell fragment at 60 cm

TABLE 9 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN MAY AND JULY, 1985

Station BC-3

Latitude: 39°14'37.0"
Longitude: 76°21'30.0"
Loran C TD's: 27633.3
42901.9
Sampling date: April 15, 1985
Depth of penetration: 82 cm

	subsamples	
interval	textural	trace metal
0-4 cm	x	x
8-12 cm	x	x
12-16 cm	x	x
16-20 cm	x	x
28-32 cm	x	x
56-60 cm	x	x

Visual Observations:

0-0.4 cm	Medium to dark brown flocculent layer; live Rangia
0.5-4 cm	Medium grey, cohesive mud; some burrows down to approx. 4 cm
4-9 cm	Steel grey to brownish grey, very smooth mud
9-12 cm	"Banded" reddish-brown and medium grey smooth mud
12-16 cm	Steel grey smooth mud
16-26 cm	Series of shell layers: top layer consists of small shells Rangia cuneata); second layer, larger shells (Rangia cuneata) - mud matrix of grey mud gradually darkening to dark grey, almost black mud, evidence of numerous burrows extending down to approx. 30 cm
26-48 cm	Dark grey, almost black cohesive mud, uniform throughout
48-50 cm	Slightly lighter grey mud
50-82 cm	Dark grey mud, gradually lightening downcore, occasional burrows

Radiographic Observations:

0-7 cm	Somewhat reticulated (bioturbated) framework, prominent features include burrows; traces of lamination. Live Rangia cuneata at surface
7-15 cm	Series of fine laminations
15-60 cm	Somewhat mottled (bioturbated) traces of burrows and tunnels; shell

TABLE 9 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN MAY AND JULY,1985

Station BC-4

Latitude: 39°14'42.0"
Longitude: 76°20'20.0"
Loran C TD's: 27628.4
42904.0
Sampling date: April 15, 1985
Depth of penetration: 88 cm

	subsamples	
interval	textural	trace metal
0-4 cm	x	x
28-32 cm	x	x
56-60 cm	x	x

Visual Observations:

0-0.5 cm	Very thin dark brown floc layer with Rangia shells and live crustaceans
0.5-8 cm	Dark grey, slightly gritty mud; oxidized burrows down to approx. 8 cm
8-38 cm	Mottled dark greys, cohesive slightly gritty mud
38-54 cm	Darker grey, almost black mud, evidence of several burrows, slightly oxidized
54-88 cm	Dark greyish-brown, dryer mud; some shell hash throughout; large shell fragment at 86 cm

Radiographic Observations:

0-3 cm	Surface layer of Rangia cuneata shells
3-	Reticulated, network of burrows, particularly at 40 to 50 cm; shell hash at 52 to 54 cm

TABLE 9 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN MAY AND JULY,1985

Station BC-5

Latitude: 39°16'16.0"
Longitude: 76°21'12.0"
Loran C TD's: 27627.8
42920.1
Sampling Date: April 15, 1985
Depth of penetration: 90 cm

	subsamples	
interval	textural	trace metal
0-4 cm	x	x
28-32 cm	x	x
56-60 cm	x	x

Visual Observations:

0-2 cm	Brown floc layer with live Rangia
2-6 cm	Very dark grey slightly gritty mud, some shells and plant material
6-10 cm	Layer of Rangia cuneata shells, in very dark grey, almost black mud
10-30 cm	Dark grey cohesive mud
30-90 cm	Medium to dark grey, cohesive, mud, increase dryness downcore, also color lightens downcore, occasional shell

Radiographic Observations:

0-15 cm	Highly reticulated, prominent network of burrows down to 15 cm, shell throughout but mainly concentrated in layer 6-10 cm (Rangia cuneata)
15-	Uniformly mottled structure, less reticulated than overlying section

Station BC-6

Latitude: 39°15'51.0"
Longitude: 76°22'34.0"
Loran C TD's: 27643.4
42917.1
Sampling date: April 15, 1985
Depth of Penetration: 80 cm

	subsamples	
interval	textural	trace metal
0-4 cm	x	x
28-32 cm	x	x
56-60 cm	x	x

Visual Observations:

0-13 cm	Dark grey to almost black somewhat watery mud; shell layer of Rangia cuneata at surface
13-20 cm	Medium brownish grey cohesive mud, burrows
20-80 cm	Medium steel grey stiff cohesive mud; some shell fragments (oyster)

Radiographic Observations:

0-65 cm	Highly reticulated, prominent features include network of burrows and bedding (lighter layers); surface layer of large Rangia cuneata, oyster shell at 47 cm

TABLE 9 (cont.). VISUAL AND RADIOGRAPHIC OBSERVATIONS OF GRAVITY CORES COLLECTED IN MAY AND JULY, 1985

Station BC-7

Latitude: 39°14'56.0"
Longitude: 76°23'38.0"
Loran C TD's: 27645.0
42904.6
Sampling date: April 15, 1985
Depth of penetration: 80 cm

	subsamples	
interval	textural	trace metal
0-4 cm	x	x
28-32 cm	x	x
56-60 cm	x	x

Visual Observations:

0-0.5 cm	Dark brown flocculent layer
0.5-12 cm	Dark grey to almost black cohesive mud, evidence of burrows, some plant material
12-16 cm	Darker grey cohesive mud, several shells
16-52 cm	Dark grey cohesive mud
52-58 cm	Medium grey mud with some plant material
58-80 cm	Medium to dark steel grey firm cohesive mud

Radiographic Observations:

0-80 cm	Highly reticulated framework, throughout core; large shells (*Rangia cuneata*) at 12-16 cm; series of sand (darker zones) at 32-34 cm and 49-50 cm; mud layer at 52 cm (light banding)

TABLE 10. TEXTURAL PARAMETERS OF SEDIMENT SUBSAMPLES TAKEN FROM CORES COLLECTED IN APRIL, 1985 AND JULY, 1985

Station Number	Depth Interval (cm)	%Sand	%Silt	%Clay	%Water	Shep-ard's Class	% weight loss after cleaning
BC-1	0-4	1.79	46.15	52.06	61.82	SiCl	12.60
	16-20	0	43.11	56.89	48.04	SiCl	6.76
	21-25	0.32	35.48	64.20	56.65	SiCl	13.38
	28-32	4.12	37.49	58.39	55.24	SiCl	40.20
	56-60	-	-	-	62.00	-	-
BC-2	0-4	1.43	40.69	57.88	56.70	SiCl	39.68
	28-32	1.07	42.82	56.11	58.94	SiCl	12.53
	56-60	0.38	37.99	61.63	58.12	SiCl	14.93
BC-3	0-4	3.95	49.55	46.51	56.57	ClSi	9.60
	8-12	1.69	58.45	39.86	41.59	ClSi	7.03
	12-16	0.46	49.75	49.79	50.98	SiCl	12.73
	16-20	0	38.06	61.94	59.55	SiCl	21.30
	28-32	3.63	39.20	57.17	59.02	SiCl	12.32
	56-60	2.16	36.56	61.28	55.96	SiCl	12.04
BC-4	0-4	1.89	39.97	58.14	48.39	SiCl	44.39
	28-32	0.81	39.40	59.80	56.89	SiCl	12.04
	56-60	0.97	38.35	60.68	59.72	SiCl	14.62
BC-5	0-4	2.04	40.85	57.11	65.09	SiCl	34.81
	28-32	1.18	37.41	61.41	54.90	SiCl	15.54
	56-60	-	-	-	60.92	-	-
BC-6	0-4	1.87	37.25	60.89	66.58	SiCl	29.13
	28-32	-	-	-	64.01	-	-
	56-60	1.19	35.84	62.97	62.85	SiCl	13.62
BC-7	0-4	1.97	50.41	47.62	63.79	ClSi	13.20
	28-32	2.04	46.08	51.88	72.00	SiCl	19.01
	56-60	3.13	41.24	55.63	67.73	SiCl	14.94

TABLE 11. TRACE METAL ANALYSIS OF SEDIMENT SAMPLES TAKEN FROM GRAVITY CORES COLLECTED IN APRIL AND JULY, 1985

Sample Number	Depth Interval (cm)	Date Collected	Cr µg/g	Cu µg/g	Fe wt%	Mn µg/g	Ni µg/g	Zn µg/g
BC-1		7/2/85						
1	0-4		110±2	38±3	4.37±0.21	2050±70	50±15	180±15
2	16-20		110±2	23±3	2.89±0.21	750±70	BDL	80±15
3	21-25		140±2	48±3	3.77±0.21	2350±70	60±15	240±15
4	28-32		140±2	68±3	3.84±0.21	3300±70	120±15	620±15
5	56-60		195±2	48±3	3.91±0.21	not analyzed	60±15	110±15
BC-2		4/15/85						
1	0-4		155±2	63±3	2.66±0.21	2550±70	75±15	320±15
2	28-32		110±2	83±3	3.84±0.21	2550±70	85±15	240±15
3	56-60		125±2	73±3	3.12±0.21	2450±70	75±15	170±15
BC-3		4/15/85						
1	0-4		125±2	33±3	3.63±0.21	500±70	BDL	80±15
2	8-12		110±2	38±3	2.89±0.21	1350±70	25±15	190±15
3	12-16		125±2	38±3	3.97±0.21	1350±52	60±15	150±15
4	16-20		140±2	53±3	4.98±0.91	4500±52	95±15	300±15
5	28-32		140±2	73±3	4.76±0.91	2200±52	160±15	480±15
6	56-60		110±2	38±3	4.63±0.91	1450±52	35±15	150±15
BC-4		4/15/85						
1	0-4		155±2	48±3	5.30±0.91	3400±52	170±15	560±15
2	28-32		80±2	33±3	4.98±0.91	1900±52	50±15	160±15
3	56-60		140±2	23±3	4.72±0.91	1200±52	35±15	130±15
BC-5		4/15/85						
1	0-4		110±2	38±3	5.03±0.91	3400±52	70±15	300±15
2	28-32		95±2	48±3	4.76±0.91	2450±52	70±15	200±15
3	56-60		80±2	23±3	4.28±0.91	1050±52	35±15	120±15
BC-6		4/15/85						
1	0-4		140±2	63±3	4.72±0.91	1700±52	70±15	37±15
2	28-32		110±2	18±3	4.58±0.91	1600±52	35±15	110±15
3	56-60		95±2	18±3	4.67±0.91	1800±52	25±15	120±15
BC-7		4/15/85						
1	0-4		165±2	68±3	3.84±0.91	1200±52	70±15	300±15
2	28-32		250±2	98±3	4.23±0.91	900±52	130±15	550±15
3	56-60		185±2	83±3	4.23±0.91	750±52	130±15	640±15

TABLE 12. DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
9/24/84	22+00	CL	-	17.98
		1	53	13.71
		2	106	10.21
		3	160	7.99
		4	211	5.64
		5	256	2.44
		6	273	.27
		7	289	-.68
	24+00	CL	-	17.87
		1	53	13.91
		2	105	10.61
		3	157	7.92
		4	204	4.63
		5	240	2.77
		6	241	2.37
		7	259	.46
		8	272	-.52
	28+00	CL	-	17.80
		1	54	13.16
		2	107	10.24
		3	165	6.53
		4	204	2.78
		5	207	2.44
		6	222	.53
		7	235	-.27
	30+00	CL	-	17.85
		1	52	14.70
		2	104	10.49
		3	156	7.25
		4	194	3.10
		5	196	2.51
		6	222	-.26
			Error	+.01
	32+00	CL	-	17.95
		1	54	14.76
		2	105	10.96
		3	157	7.83
		4	196	3.30
		5	200	2.49
		6	216	.16
		7	235	-.38

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
9/24/84	36+00	CL	-	17.90
		1	51	13.75
		2	104	11.47
		3	157	8.61
		4	203	3.69
		5	215	2.89
		6	220	2.34
		7	237	.12
		8	257	-.45
			Error	+.03
9/25/84	40+00	CL	-	17.47
		1	42	15.28
		2	108	11.36
		3	200	4.52
		4	224	2.49
		5	242	.62
		6	257	-.38
	44+00	CL	-	17.92
		1	46	14.81
		2	110	10.59
		3	170	7.20
		4	197	3.78
		5	200	2.46
		6	212	.70
		7	236	.02
	48+00	CL	-	18.02
		1	46	16.23
		2	115	10.79
		3	158	7.81
		4	172	2.81
		5	187	.44
		6	209	-.18
	49+00	CL	-	17.99
		1	46	14.62
		2	119	10.71
		3	180	5.60
		4	196	3.13
		5	220	.40
		6	240	-.75
			Error	-.01

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
12/10/84	22+00	CL	-	17.81
		1	52	14.09
		2	105	10.50
		3	158	7.90
		4	221	4.56
		5	250	2.75
		6	266	1.75
		7	270	1.35
		8	280	.24
	24+00	CL	-	17.74
		1	52	14.14
		2	104	10.65
		3	156	7.72
		4	218	3.73
		5	233	2.65
		6	263	.36
	28+00	CL	-	17.79
		1	52	13.82
		2	102	10.72
		3	157	7.09
		4	200	3.59
		5	201	2.60
		6	231	.31
	30+00	CL	-	17.78
		1	52	14.76
		2	106	10.51
		3	154	7.34
		4	176	4.83
		5	190	2.51
		6	216	.18
			Error	-.03
	32+00	CL	-	17.86
		1	52	14.69
		2	104	11.10
		3	155	7.81
		4	184	5.03
		5	188	2.59
		6	214	.56
			Error	+.01

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
12/11/84	36+00	CL	-	17.80
		1	54	13.60
		2	106	11.36
		3	162	8.29
		4	202	3.76
		5	212	2.39
		6	230	1.11
	40+00	CL	-	17.59
		1	54	14.84
		2	108	11.33
		3	160	8.20
		4	212	3.40
		5	220	2.41
		6	242	.88
	44+00	CL	-	18.02
		1	51	14.39
		2	104	10.74
		3	156	8.01
		5	188	5.18
		5	200	2.30
		6	220	.55
	48+00	CL	-	18.15
		1	52	15.89
		2	104	11.23
		3	158	7.63
		4	164	2.53
		5	192	.52
	49+00	CL	-	18.17
		1	50	15.09
		2	102	11.92
		3	156	8.37
		4	170	7.25
		5	184	2.77
		6	209	.75
			Error	+.10

*Mean Low Waater (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
3/20/85	22+00	CL	-	17.83
		1	50	14.22
		2	100	10.62
		3	154	8.29
		4	200	6.14
		5	244	2.68
		6	270	1.21
		7	280	.95
		8	300	-.73
	24+00	CL	-	17.81
		1	49	13.88
		2	100	10.74
		3	152	8.09
		4	200	5.00
		5	240	1.89
		6	262	1.13
		7	280	-.69
	28+00	CL	-	17.77
		1	9	17.54
		2	16	16.80
		3	52	13.23
		4	101	10.37
		5	154	7.16
		6	196	3.62
		7	204	2.16
		8	214	1.53
		9	218	1.08
		10	240	-.40
	30+00	CL	-	17.82
		1	14	17.24
		2	25	15.85
		3	33	15.64
		4	42	14.79
		5	48	14.83
		6	100	10.83
		7	152	7.53
		8	184	4.62
		9	188	2.58
		10	200	1.81
		11	204	1.24
		12	224	-.44
			Error	+.02

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
3/22/85	32+00	CL	-	17.84
		1	50	14.84
		2	102	11.30
		3	154	7.95
		4	182	5.20
		5	192	2.19
		6	206	.76
		7	248	-.55
	36+00	CL	-	17.78
		1	53	13.50
		2	108	11.38
		3	158	8.42
		4	208	3.20
		5	216	1.65
		6	231	.70
		7	260	-.53
	40+00	CL	-	17.51
		1	52	15.04
		2	106	11.51
		3	158	8.51
		4	214	3.05
		5	223	1.67
		6	240	.62
		7	270	-.73
	44+00	CL	-	17.91
		1	51	14.57
		2	62	12.77
		3	77	12.55
		4	99	10.18
		5	111	10.48
		6	186	5.65
		7	200	1.69
		8	223	.48
		9	261	-.61
	48+00	CL	-	18.01
		1	51	15.82
		2	102	11.32
		3	156	6.95
		4	164	3.08
		5	200	.28
		6	236	-.76

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
3/22/85	49+00	CL	-	18.05
		1	50	14.96
		2	101	12.05
		3	174	6.32
		4	192	2.18
		5	210	.25
		6	260	-1.04
			Error	+.05
6/20/85	22+00	CL	-	17.83
		1	50	14.03
		2	100	10.61
		3	150	8.24
		4	200	6.13
		5	276	.73
		6	308	-.88
	24+00	CL	-	17.74
		1	53	13.95
		2	104	10.66
		3	154	7.82
		4	203	4.74
		5	260	.77
		6	302	-.62
	28+00	CL	-	17.74
		1	50	13.35
		2	104	10.45
		3	150	7.14
		4	220	.79
		5	250	-.51
	30+00	CL	-	17.81
		1	51	14.92
		2	100	11.38
		3	154	6.25
		4	195	2.10
		5	204	.81
		6	230	-.57
			Error	+.02
	32+00	CL	-	17.81
		1	52	14.79
		2	102	11.77
		3	152	7.57
		4	210	.63
		5	262	-.79

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
6/20/85	36+00	CL		-17.76
		1	50	13.90
		2	102	11.74
		3	152	8.89
		4	200	4.89
		5	238	.37
		6	276	-.71
			Error	+.03
6/21/85	40+00	CL	-	17.63
		1	50	15.03
		2	100	11.90
		3	150	9.43
		4	200	5.08
		5	234	1.35
		6	268	-.72
	44+00	CL	-	17.95
		1	48	14.80
		2	100	11.61
		3	150	7.45
		4	212	1.12
		5	250	-.44
	48+00	CL	-	17.97
		1	50	16.59
		2	100	11.43
		3	150	4.39
		4	176	1.20
		5	200	-.45
	49+00	CL	-	18.05
		1	50	15.82
		2	100	12.14
		3	148	7.14
		4	196	1.05
		5	230	-.84
			Error	+.08

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)*
9/17/85	22+00	CL	-	17.82
		1	51	14.08
		2	101	10.62
		3	150	8.14
		4	200	5.95
		5	264	2.57
		6	266	1.94
		7	278	.81
		8	306	-.77
	24+00	CL	-	17.79
		1	50	14.12
		2	100	10.85
		3	150	7.90
		4	200	5.07
		5	248	2.46
		6	250	1.80
		7	260	.86
		8	294	-.74
	28+00	CL	-	17.77
		1	49	13.53
		2	100	10.48
		3	152	7.26
		4	209	2.34
		5	211	1.75
		6	225	1.02
		7	254	-.65
	30+00	CL	-	17.80
		1	50	15.06
		2	102	11.36
		3	149	6.49
		4	194	2.44
		5	196	1.82
		6	205	1.02
		7	235	-.49
				Error +.06
	32+00	CL	-	17.80
		1	52	14.89
		2	102	11.97
		3	152	8.06
		4	200	2.43
		5	201	1.83
		6	214	.55
		7	261	-.82

*Mean Low Water (MLW) datum

TABLE 12 (cont.). DISTANCE AND ELEVATION DATA FOR HART-MILLER RECREATIONAL BEACH PROFILES.

DATE SURVEYED	PROFILE	STADIA STATION	DISTANCE FROM CENTERLINE(FT)	ELEVATION(FT)
	36+00	CL	-	17.75
		1	50	14.10
		2	100	11.46
		3	151	9.07
		4	218	2.55
		5	221	1.96
		6	236	.33
		7	276	-.80
			Error	+.01
9/18/85	40+00	CL	-	17.51
		1	52	14.95
		2	102	11.84
		3	150	9.06
		4	220	2.62
		5	224	2.16
		6	234	1.05
		7	266	-.71
	44+00	CL	-	17.94
		1	50	14.72
		2	98	11.84
		3	150	7.44
		4	196	2.61
		5	200	2.07
		6	212	.85
		7	250	-.47
	48+00	CL	-	18.06
		1	50	16.73
		2	97	12.04
		3	146	6.08
		4	172	2.56
		5	174	2.16
		6	186	.85
		7	222	-.74
	49+00	CL	-	18.08
		1	50	15.51
		2	100	12.10
		3	150	7.41
		4	200	2.56
		5	201	2.21
		6	215	.59
		7	260	-.83
			Error	+.07

*Mean Low Water (MLW) datum

TABLE 13. TEXTURAL PARAMETERS OF HART-MILLER ISLAND BEACH SEDIMENT SAMPLES COLLECTED DURING JUNE, 1985, PROFILING SURVEY

Profile Number	Stadia Station	Dist.[1] (ft)	Elev.[2] (ft)	Percent Gravel	Percent Sand	Percent Silt	Percent Clay	Sand Description[3]
22+00	1	50	14.03	0	94.78	3.60	1.62	Fine to coarse sand
	2	100	10.61	13.64	83.72	1.32	1.32	Fine to med. sand
	3	150	8.24	6.89	87.19	4.40	1.50	Fine to med. sand
	4	200	6.13	1.71	87.49	6.82	3.97	Fine to med. sand
	5	276	0.73	0	99.84	0.08	0.08	Med. to coarse sand
	6	208	-0.88	3.19	95.55	0.66	0.66	Very fine to med. sand
24+00	1	53	13.95	4.99	92.64	1.18	1.18	Very fine to med. sand
	2	104	10.66	0	97.31	1.35	1.34	Very fine to med. sand
	3	154	7.82	6.57	87.15	4.96	1.32	Fine to med. sand
	4	203	4.74	0	97.48	1.26	1.26	Very fine to med. sand
	5	260	0.77	0	100.00	0	0	Medium to coarse sand
	6	302	-0.62	16.43	81.76	0.91	0.91	Very fine to very coarse sand
28+00	1	50	13.35	5.07	92.57	1.18	1.18	Very fine to fine sand
	2	104	10.45	1.52	94.61	2.78	1.08	Med. to very coarse sand
	3	150	7.14	3.20	91.06	4.00	1.75	Fine sand
	4	220	0.79	0	100.00	0	0	Medium to coarse sand
	5	250	-0.51	0	88.11	10.14	1.74	Fine to very coarse sand

[1]Distances are from centerline
[2]MLW datum
[3]Wentworth size nomenclature, see Table 1.

TABLE 13 (cont.). TEXTURAL PARAMETERS OF HART-MILLER ISLAND BEACH SEDIMENT SAMPLES COLLECTED DURING JUNE, 1985, PROFILING SURVEY

Profile Number	Stadia Station	Dist.[1] (ft)	Elev.[2] (ft)	Percent Gravel	Sand	Silt	Clay	Sand Description[3]
30+00	1	51	14.92	0	90.21	7.23	2.56	Fine sand
	2	100	11.38	0	86.32	10.66	3.03	Fine sand
	3	154	6.25	0	82.32	14.62	3.07	Very fine to fine sand
	4	195	2.10	0	97.07	1.47	1.46	Very fine sand
	5	204	0.81	0	99.71	0.15	0.14	Fine to med. sand
	6	230	-0.57	11.26	87.68	0.53	0.53	Med. to very coarse sand
32+00	1	52	14.79	16.08	81.53	1.65	1.64	Very fine to fine sand
	2	102	11.77	0	90.14	7.26	2.59	Fine to med. sand
	3	152	7.57	0	89.53	6.86	3.62	Fine to coarse sand
	4	210	0.63	0	100.00	0	0	Fine to coarse sand
	5	262	-0.79	10.54	84.55	2.52	2.40	Med. to very coarse sand
36+00	1	50	13.90	4.86	91.42	2.48	1.25	Fine sand
	2	102	11.74	7.37	91.03	0.80	0.80	Very fine to med. sand
	3	152	8.89	0.45	93.20	4.14	2.22	Fine sand with some med. sand
	4	200	4.89	0	95.79	2.11	2.10	Very fine to medium sand
	5	238	0.37	0	97.76	1.12	1.12	Fine to very coarse sand
	6	276	-0.71	12.07	87.93	0	0	Medium to very coarse sand

[1]Distances are from centerline
[2]MLW datum
[3]Wentworth size nomenclature - see Table 1.

TABLE 13 (cont.). TEXTURAL PARAMETERS OF HART-MILLER ISLAND BEACH SEDIMENT SAMPLES COLLECTED DURING JUNE, 1985, PROFILING SURVEY

Profile Number	Stadia Station	Dist.[1] (ft)	Elev.[2] (ft)	Percent Gravel	Percent Sand	Percent Silt	Percent Clay	Sand Description[3]
40+00	1	50	15.03	9.95	85.91	2.73	1.43	Fine to med. sand
	2	100	11.90	0	93.18	5.43	1.39	Fine sand
	3	150	9.43	0	93.09	4.98	1.93	fine to med. sand
	4	200	5.08	3.68	94.24	1.05	1.04	Very fine to med. sand
	5	234	1.35	0	100.00	0	0	Med. to very coarse sand
	6	268	-0.72	7.09	88.04	2.44	2.44	Very fine to fine sand
44+00	1	48	14.8	2.78	88.46	6.28	2.48	Fine to med. sand
	2	100	11.61	0	92.20	5.83	1.97	Very fine to med. sand
	3	150	7.45	0	89.38	7.18	3.45	Fine to med. sand
	4	212	1.12	0	100.00	0	0	Med. to coarse sand
	5	250	-0.44	2.52	93.52	1.99	1.98	Fine sand
48+00	1	50	16.59	7.43	82.93	7.39	2.22	Very fine to med. sand w/some very coarse sand
	2	100	11.43	10.03	80.93	6.92	2.07	Fine to coarse sand
	3	150	4.39	6.69	83.88	6.47	2.96	Fine to medium sand
	4	176	1.20	0	97.40	1.30	1.30	Medium sand
	5	200	-0.45	36.61	58.70	2.35	2.34	Fine sand
49+00	1	50	15.82	8.73	78.22	9.52	3.52	Fine to coarse sand
	2	100	12.14	18.32	93.37	6.26	2.05	Fine to med. sand with coarse sand
	3	148	7.14	20.16	71.68	5.83	2.33	Fine to very coarse sand
	4	196	1.05	0	100.00	0	0	Fine to med. sand
	5	230	-0.84	1.83	94.28	1.95	1.95	Very fine to fine sand

[1]Distances are from centerlines
[2]MLW datum
[3]Wentworth size nomenclature - see Table 1.

[UMCEES]CBL 85-107

University of Maryland
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The Continuing State Assessment of the Environmental Impacts of Construction and Operation of the Hart and Miller Islands Containment Facility

Fourth Data Report
Benthic Studies

October 1984 - October 1985

by

Hayes T. Pfitzenmeyer

to

Water Resources Administration
Maryland Department of Natural Resources
Annapolis, Maryland 21401

October 1985

Appendix B

Benthic Data Report

Fourth Year

Herein are presented the results of benthic samples from scientific cruises to the Hart and Miller Island Containment Facility. These were made October 8-10, 1984 and April 2-4, 1985. Sampling was conducted from the University of Maryland's R/V Aquarius.

Seventeen stations, as illustrated in Figures 1 and 2, were sampled on each of these visits. Four stations with the HM prefix were references sites and have been sampled since the inception of the project. Three stations at the northern end of the island (E designation) were concentrated at the effluent site of the facility. Six nearfield stations (N) were located at the rehandling pier and have been retained from the previous years sampling program. The four stations with an R designation are epifaunal sampling sites, and these samples were obtained from the piers located at various locations around the island.

Benthic data obtained at each site for each monitoring period is presented on a separate page. Station logistics and ecological data collected at each station is also presented on the respective page.

Benthic infaunal samples were obtained with a 0.1m Van Veen grab. Three replicates were obtained at each station. These samples were washed separately on a 1.0mm mesh-opening screen. Samples were preserved in 10% formalin and later stored in 70% ethyl alcohol. Epibenthic samples were obtained by a SCUBA diver by scraping a qualitative sample from a concrete piling.

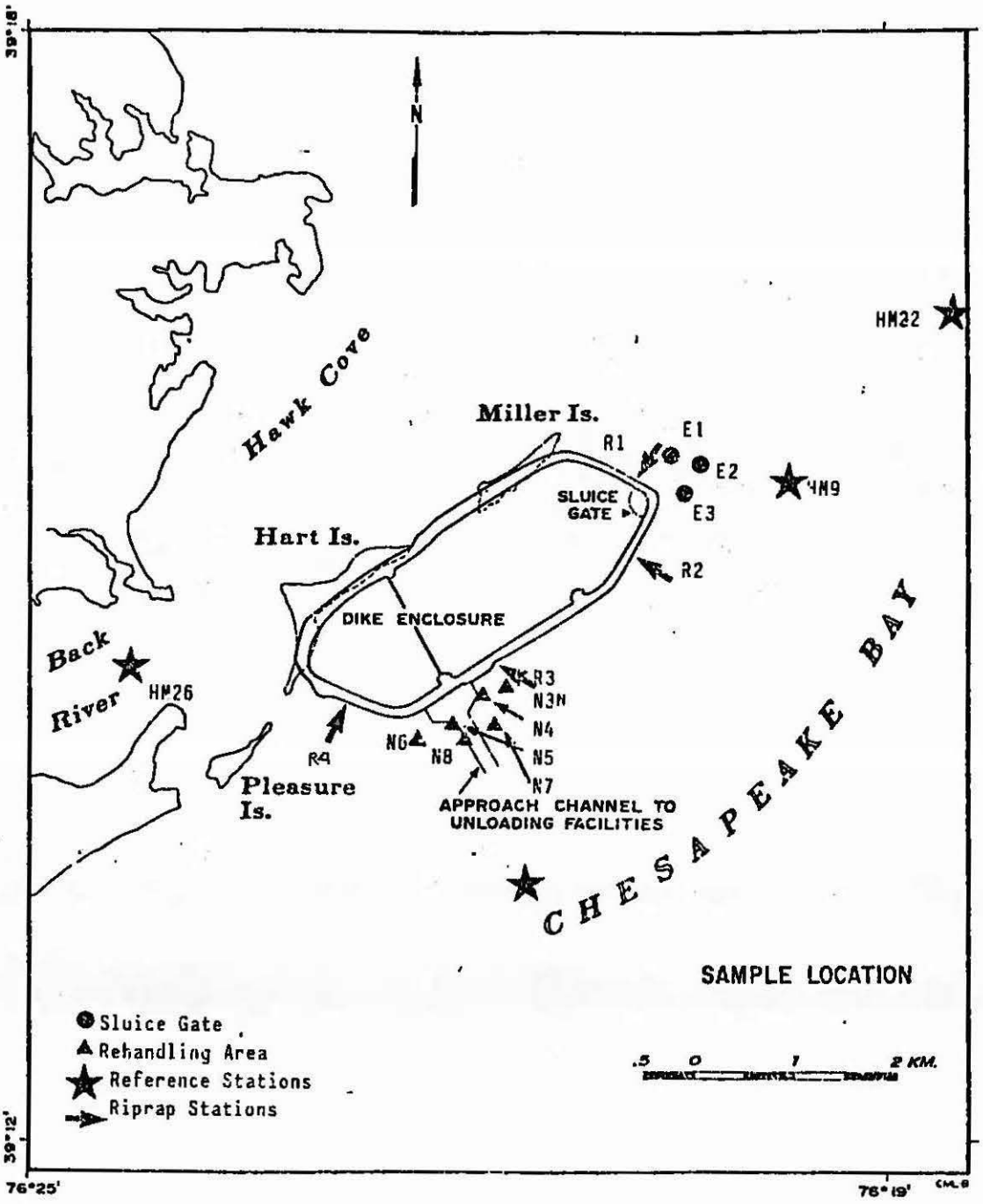

Figure 1

Sampling Stations for the Current Year

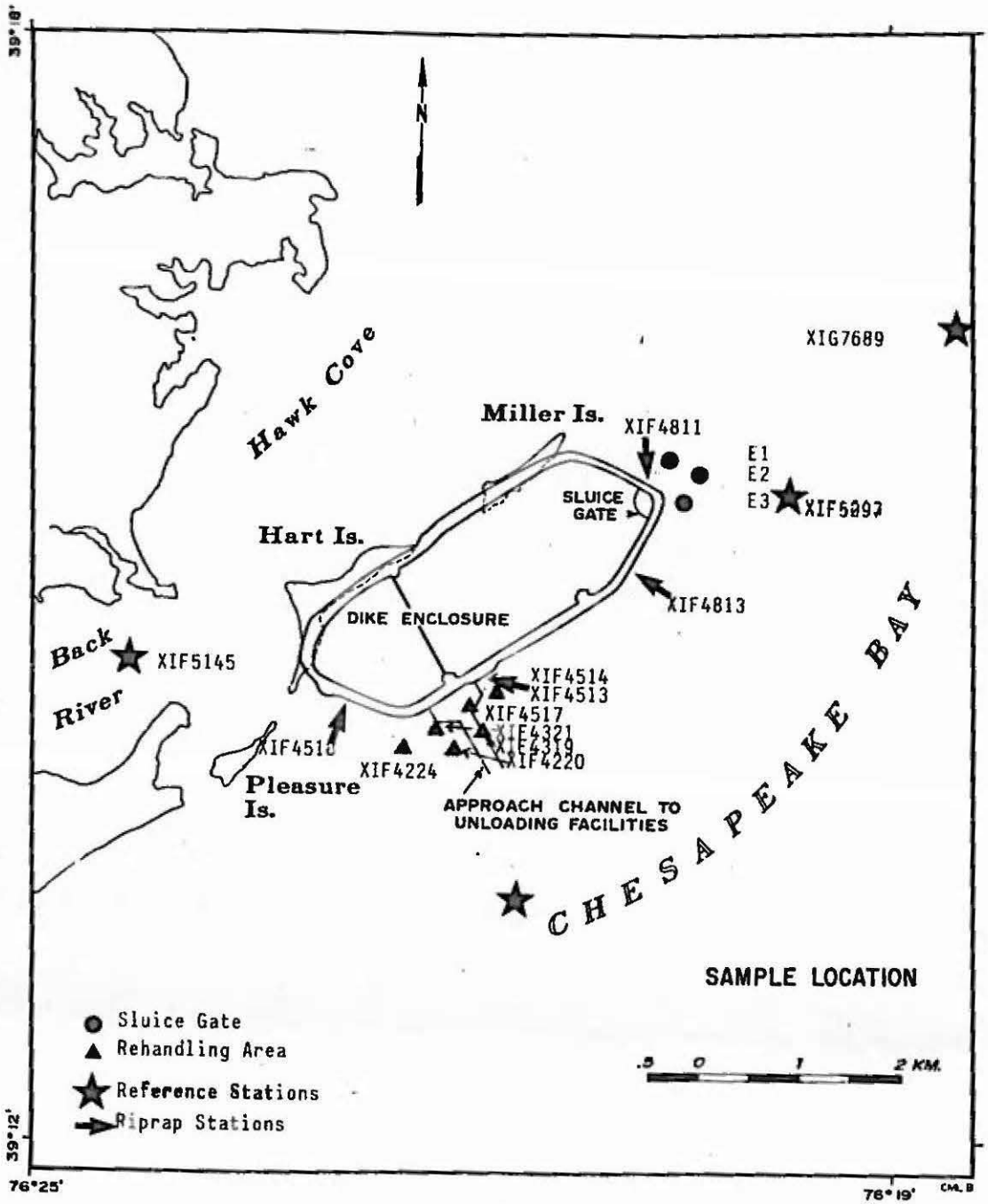

Figure 2

Sampling Stations for the Current Year

located about 50 feet from the stone riprap wall. Samples were taken from near the water surface, at 6 feet depth and 10 feet depth. These samples were also processed on the 1.0mm screen.

Individual specimens in benthic samples were identified to the lowest taxonomic unit possible. Counts were made on individuals or head sections of pieces of specimens. Colonial forms and qualitative epibenthic samples were classified to four densities, very abundant (1) abundant (2), moderate (3), and present (4). This numerical designation is recorded on the data sheet for these four epibenthic stations

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 1558 TIDE Ebb

STATION NO. XIF5145 LAT. 39° 14' 39" LONG. 76° 23' 55"

WATER DEPTH 16 WATER TEMP. 15.8 WATER SAL. 6.5

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	2	2	1
3	Heteromastus filiformis	4		
4	Melinna sp.			
5	Nereis succinea			
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni		2	1
10	Scolecolepides viridis	7	1	2
11	Streblospio benedicti	1	19	12
12	Hypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	2	2	1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	4	1	3
31	Cassidinidea lunifrons			
33	Edotea triloba		1	2
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	66	36	75
37	Corophium lacustre			
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			1
41	Chirodotea almyra		1	
42	Monoculodes edwardsi			
43	Chironomid sp.	12	12	14
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Stylochus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 1446 TIDE Ebb

STATION NO. XIG7689 LAT. 39° 16' 58" LONG. 76° 18' 31"

WATER DEPTH 14 - WATER TEMP. 15.5 WATER SAL. 6.1

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			1
3	Heteromastus filiformis			1
4	Melinna sp.			
5	Nereis succinea			
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	8	3	9
10	Scolecolepides viridis	36	59	44
11	Streblospio benedicti	1		1
12	Hypaniola grayi			
13	Limnodrilus hoffmeisteri		1	
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica	1		1
20	Macoma mitchelli			
21	Rangia cuneata	22	11	27
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	2	4	5
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	151	86	169
37	Corophium lacustre			
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chirodotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.	1	2	1
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Stylochus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 0935 TIDE Flood

STATION NO. XIF3325 LAT. 39° 13' 17" LONG. 76° 22' 30"

WATER DEPTH 19 WATER TEMP. 19.5 WATER SAL. 8.7

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	1		2
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea			
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	17	13	13
11	Streblospio benedicti			1
12	Hypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata		1	
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica	2	2	2
20	Macoma mitchelli	2	1	
21	Rangia cuneata	2	1	1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	10	4	10
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	96	72	85
37	Corophium lacustre	4		
38	Gammarus daiberi			
39	Gammarus tigrinus	1		
40	Melita nitida			
41	Chirodotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Stylochus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 1340 TIDE Ebb

STATION NO. XIE5297 LAT. 39° 15' 30" LONG. 76° 20' 28"

WATER DEPTH 15' WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformis		2	
4	Melinna sp.			
5	Nereis succinea	6	7	9
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	1	1	3
10	Scolecolepides viridis	27	58	13
11	Streblospio benedicti			
12	Spaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata	1		
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	4	1	
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilifer niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			1
29	Leucon americanus			
30	Cyathura polita	5	7	3
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus		1	
37	Corophium lacustre	32	17	19
38	Gammarus daiberi			
39	Gammarus tigrinus	1	1	1
40	Melita nitida	1		3
41	Chirodotea almyra			
42	Monocuiodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi		1	
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styliocus ellipticus		1	1
49	Membranipora tenuis			
[illegible]	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD Van Veen TIME 1003 TIDE Flood

STATION NO. XIF4220 LAT. 39° 14' 13" LONG. 76° 22' 01"

WATER DEPTH 18 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	1	1	
3	Heteromastus filiformis			2
4	Melinna sp.			
5	Nereis succinea			
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	1		
10	Scolecolepides viridis	7	29	11
11	Streblospio benedicti	1		
12	Hypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	3	2	1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	7	14	3
31	Cassidinidea lunifrons			
33	Edotea triloba	1		
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	31	51	20
37	Corophium lacustre			
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melitila nitida			
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenuis			
	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 1025 TIDE Flood

STATION NO. XIF4319 LAT. 39° 14' 17" LONG. 76° 21' 52"

WATER DEPTH 15 WATER TEMP. 15.3 WATER SAL. 6.6

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformis			1
4	Melinna sp.			
5	Nereis succinea	6	6	1
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	6	3	1
10	Scolecolepides viridis	23	20	26
11	Streblospio benedicti		3	
12	Pygospio elegans			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	26	66	1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	5	7	7
31	Cassidinidea lunifrons			
33	Edotea triloba		2	
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	2		5
37	Corophium lacustre		1	
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monocuiodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi	1		
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styloctenus elliptiocus			
49	Membranipora tenuis			
	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 1153 TIDE Ebb

STATION NO. XIF4321 LAT. 39° 14' 17" LONG. 76° 22' 07"

WATER DEPTH _____ WATER TEMP. 15.5 WATER SAL. 6.2

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			1
3	Heteromastus filiformis			1
4	Melinna sp.			
5	Nereis succinea		2	
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni		9	17
10	Scolecolepides viridis	1		3
11	Streblospio benedicti		1	1
12	Eupanio la grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	1	5	
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilicer niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	16	19	19
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	1		
37	Corophium lacustre		1	
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra	1		
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenuis			
[illegible]	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 1052 TIDE Ebb

STATION NO. XIF4517 LAT. 39° 14' 28" LONG. 76° 21' 46"

WATER DEPTH 14 WATER TEMP. WATER SAL.

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			1
3	Heteromastus filiformis	1		
4	Melinna sp.			
5	Nereis succinea		1	
6	Scolopios fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	51	21	27
11	Streblospio benedicti			
12	Hydaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	7		4
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbicus			
29	Leucon americanus			
30	Cyathura polita	6	3	5
31	Cassidinidea lunifrons			
33	Edotea triloba		1	
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	1	9	14
37	Corophium lacustre			
38	Gammarus daiberi			
39	Gammarui tigrinus			
40	Melita nitida			
41	Chiroodotea almyra			
42	Monocuiodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styiocous ellipticus			
49	Membranipora tenuis			
[illegible]	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD Van Veen TIME 1114 TIDE Ebb

STATION NO. XIF4513 LAT. 39° 14' 32" LONG. 76° 21' 19"

WATER DEPTH 14 WATER TEMP. 15.3 WATER SAL. 6.8

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	2	2	3
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea	2		
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	1	6	2
10	Scolecolepides viridis	42	37	47
11	Streblospio benedicti			
12	Hydaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			1
21	Rangia cuneata	25	35	35
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	4	6	3
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	1	3	1
37	Corophium lacustre			
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			2
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corophophora caspia			
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenuis			
	Victorella pavida			

DATE 9 OCT. 84 SAMPLE METHOD EPIFAUNAL SCRAPE TIME 1555 TIDE EBB

STATION NO. XIF 4518 LAT. 39° 14' 32" LONG. 76° 21' 23"

WATER DEPTH 1, 6, 10 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteronastus filiformis			
4	Melinna sp.			
5	Nereis succinea	4	2	2
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	4	4	4
11	Streblospio benedicti			
12	Dyspanioia grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.	2	1	2
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbicus	1	1	1
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	1	1	1
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida	4		
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia		4	4
47	Garveia franciscana			
48	Styloctenus ellipticus		4	
49	Membranipora tenuis			
[illegible]	Victorella pavida			4

DATE 9 OCT 84 SAMPLE METHOD EPIFAUNAL SCRAP TIME 1525 TIDE EBB

STATION NO. XIF 4514 LAT. 39° 14' 46" LONG. 76° 21' 16"

WATER DEPTH 1,6,10 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformus			
4	Melinna sp.			
5	Nereis succinea	4	3	3
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	4	4	4
10	Scolecolepides viridis			
11	Streblospio benedicti			
12	Pygospio grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta	2	2	2
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbicus	2	2	1
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	1	1	1
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chirodotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corophiophora caspia	4	4	4
47	Garveia franciscana			2
48	Styliocous ellipticus	4	4	4
49	Membranipora tenuis			
[illegible]	Victorella pavida	-	3	2

DATE 9 OCT. 84 SAMPLE METHOD EPIFAUNAL SCRAPE TIME 1500 TIDE EBB

STATION NO. XIF 4813 LAT. 39° 14' 46" LONG. 76° 21' 16"

WATER DEPTH 1, 6, 10 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea	2	2	1
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis			
11	Streblospio benedicti			
12	Pygospio elegans			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta	2	2	4
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilipes niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus	2	2	2
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	1	1	2
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corbicula fluminea	2	1	2
47	Garveia franciscana			4
48	Styelopsis ellipticus	4	4	2
49	Membranipora tenuis			4
50	Victorella pavida			4

DATE 9 OCT. 84 SAMPLE METHOD Epifaunal scrapeme TIME 1400 TIDE EBB

STATION NO. XIF 4811 LAT. 39° 14' 49" LONG. 76° 21' 07"

WATER DEPTH 1, 6-, 10 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformus			
4	Melinna sp.			
5	Nereis succinea		2	2
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	3	4	3
10	Scolecolepides viridis			
11	Streblospio benedicti			
12	Eupanioia grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta	3	3	3
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger	4		
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus	4	2	2
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	1	1	1
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			4
45	Gammarus mucronatus			
46	Cordylophora caspia	4	4	4
47	Garveia franciscana	4		
48	Styloctenus ellipticus			2
49	Membranipora tenius			
50	Victorella pavida		4	4

DATE 8 OCT 84 SAMPLE METHOD VanVeen TIME 1225 TIDE EBB

STATION NO. E1 LAT. 39° 15' 23" LONG. 76° 20' 32"

WATER DEPTH 12 WATER TEMP. 15.4 WATER SAL. 6.2

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	1		
3	Heteromastus filiformus			
4	Melinna sp.			
5	Nereis succinea	29	83	81
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	2	7	8
10	Scolecolepides viridis	19	3	10
11	Streblospio benedicti	5	8	8
12	Boccardiola grayi			
13	Limnodrilus hoffmeisteri	2	3	1
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta	1		7
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rancia cuneata			2
22	Mya arenaria			
23	Bydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			2
28	Balanus subalbidus	55	14	68
29	Leucon americanus			
30	Cyathura polita	15	17	25
31	Cassidinidea lunifrons	22	38	33
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	10	45	110
38	Gammarus daiberi			
39	Gammarus tigrinus			1
40	Melita nitida	29	21	43
41	Chirodotea almyra			1
42	Monoculodes edwardsi	16	25	17
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styloctenus ellipticus			14
49	Membranipora tenuis			
50	Victorella pavida			

DATE 10 OCT 84 SAMPLE METHOD Van Veen TIME 1306 TIDE EBB

STATION NO. E2 LAT. 39° 15' 26" LONG. 76° 20' 36"

WATER DEPTH 13 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			1
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea	45	21	6
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	11	6	8
10	Scolecolepides viridis	3	7	5
11	Streblospio benedicti			
12	Paraonia grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta	5	6	
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	1	1	1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilifer niger		1	
25	Doridella obscura			
27	Balanus improvisus	6		1
28	Balanus subalbicus	15	10	8
29	Leucon americanus	4	4	9
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	26	19	6
38	Gammarus daiberi			
39	Gammarus tigrinus	1		
40	Melita nitida	3	7	
41	Chiridotea almyra		1	
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi		2	
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styliocnus ellipticus	2	1	1
49	Membranipora tenuis			
51	Victorella pavida			

DATE 8 Oct 84 SAMPLE METHOD van Veen TIME 1320 TIDE Ebb

STATION NO. E3 LAT. 39° 15' 20" LONG. 76° 20' 39"

WATER DEPTH - WATER TEMP. WATER SAL.

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	3	2	2
3	Heteromastus filiformis	2	1	1
4	Melinna sp.			
5	Nereis succinea	15		5
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	4	3	
10	Scolecolepides viridis			
11	Streblospio benedicti	57	146	56
12	Hypaniola gravi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata	2		
16	Ischadium recurvus			
17	Conoeria leucophaeta	1		1
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	1	2	1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	28	13	22
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	16	2	5
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida	1		
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi	1	1	2
45	Gammarus mucronatus			
46	Corophophora caspia			
47	Garveia franciscana			
48	Styliochus ellipticus	1		1
49	Membranipora tenuis			
51	Victorella pavida			

DATE 4-2-85 SAMPLE METHOD van Veen TIME 1618 TIDE Flood

STATION NO. XIF5145 LAT. 39° 14' 39" LONG. 76° 23' 55"

WATER DEPTH 16 WATER TEMP. 8.5 WATER SAL. 5.8

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	1		1
3	Heteromastus filiformus		2	
4	Melinna sp.			
5	Nereis succinea	1	2	3
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	24	54	40
11	Streblospio benedicti			
12	Eupanio la grayi			
13	Limnodrilus hoffmeisteri			1
14	Peloscolex sp.			
15	Capitella capitata			1
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli	1	4	1
21	Rangia cuneata	1	3	2
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	1	6	6
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	5		6
37	Corophium lacustre			1
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monocuilodes edwardsi			
43	Chironomid sp.	3	7	4
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styloctus ellipticus			
49	Membranipora tenuis			
51	Victorella pavida			

DATE 4-2-85 SAMPLE METHOD van Veen TIME 0945 TIDE Slack

STATION NO. XIF3325 LAT. 39° 13' 17" LONG. 76° 22' 30"

WATER DEPTH 19 WATER TEMP. 7.4 WATER SAL. 5.5

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	1	1	
3	Heteromastus filiformis			1
4	Melinna sp.			
5	Nereis succinea		1	1
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	13	26	21
11	Streblospio benedicti		1	
12	Pygospio grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica	3	1	4
20	Macoma mitchelli			1
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	7	3	8
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	125	144	73
37	Corophium lacustre			
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corbicula fluminea			
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenius			

DATE 4-2-85 SAMPLE METHOD Van Veen TIME 1075 TIDE Flood

STATION NO. XIF4220 LAT. 39° 14' 13" LONG. 76° 22' 01"

WATER DEPTH 18 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	2		1
3	Heteromastus filiformis		2	
4	Melinna sp.			
5	Nereis succinea	1	3	2
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	23	24	10
11	Streblospio benedicti			
12	Bypaniola grayi			
13	Limnodrilus hoffmeisteri		1	
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica	1		2
20	Macoma mitchelli	1	3	
21	Rangia cuneata	2	17	8
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	11	4	8
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	36	148	197
37	Corophium lacustre		1	
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chirodotea almyra			
42	Monoculoides edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi	1		
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 4-2-85 SAMPLE METHOD van Veen TIME 1406 TIDE Flood

STATION NO. XIF5297 LAT. 39° 15' 30" LONG. 76° 20' 28"

WATER DEPTH 15 - WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	2		
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea	29	15	52
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	1	1	4
10	Scolecolepides viridis	198	244	274
11	Streblospio benedicti			
12	Bypaniola grayi			
13	Limnodrilus hoffmeisteri		1	
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus	5	14	16
28	Balanus subalbidus	1	10	10
29	Leucon americanus			
30	Cyathura polita	10	12	7
31	Cassidinidea lunifrons	2	10	8
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			1
36	Leptocheirus plumulosus	8	3	5
37	Corophium lacustre	41	97	195
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida	-	3	3
41	Chirodotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.		1	
44	Rithropanopeus harrisi	5	7	11
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styloctus ellipticus	1	1	
49	Membranipora tenuis			
50	Victorella pavida			

DATE 4-2-85 SAMPLE METHOD van Veen TIME 1426 TIDE Flood

STATION NO. XIG7689 LAT. 39° 16' 58" LONG. 76° 18' 31"

WATER DEPTH 14 - WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea		2	
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	47	39	46
11	Streblospio benedicti			
12	Dypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica	1		1
20	Macoma mitchelli			1
21	Rangia cuneata	16	29	23
22	Mya arenaria			
23	Bydrobia sp.			
24	Stilifer niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	2	5	8
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	87	118	87
37	Corophium lacustre	1	9	4
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.	1		
44	Rithropanopeus harrisi	1		
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styliocbus ellipticus			
49	Membranipora tenuis			
[illegible]	Victorella pavida			

DATE 2 Apr 85 SAMPLE METHOD van-Veen TIME 1115 TIDE Flood

STATION NO. XIF4319 LAT. 39° 14' 17" LONG. 76° 21' 52"

WATER DEPTH 15 . WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi		1	1
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea	6	1	1
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	51	27	30
11	Streblospio benedicti			
12	Bypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli	3	2	1
21	Rangia cuneata	10	2	4
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbicus			
29	Leucon americanus			
30	Cyathura polita	4	10	2
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	143	73	222
37	Corophium lacustre		1	
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida	2		
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.	1		2
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 2 Apr 85 SAMPLE METHOD van Veen TIME 1038 TIDE Flood

STATION NO. XIF4321 LAT. 39° 14' 17" LONG. 76° 22' 07"

WATER DEPTH 14 WATER TEMP. WATER SAL.

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			1
3	Heteromastus filiformis			
4	Melinna sp.	2		
5	Nereis succinea			
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	1	6	3
11	Streblospio benedicti			
12	Eupanioia grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica	1	1	
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilijer niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	15	17	10
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	16	20	27
37	Corophium lacustre			
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monocuiodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styiocopus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 2 Apr 85 SAMPLE METHOD van Veen TIME 1131 TIDE Flood

STATION NO. XIF4517 LAT. 39° 14' 28" LONG. 76° 21' 46"

WATER DEPTH 14 WATER TEMP. 8.4 WATER SAL. 4.5

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	1	1	1
3	Heteromastus filiformis			1
4	Melinna sp.			
5	Nereis succinea	1	1	4
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	74	58	76
11	Streblospio benedicti			
12	Hypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica		1	1
20	Macoma mitchelli	2	1	2
21	Rangia cuneata		18	24
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilioer niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	6	7	5
31	Cassidinidea lunifrons			
33	Edotea triloba	2		
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	100	95	127
37	Corophium lacustre	1	4	2
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chirodotea almyra			1
42	Monoculodes edwardsi			
43	Chironomid sp.		1	
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corophophora caspia			
47	Garveia franciscana			
48	Styliochus ellipticus			
49	Membranipora tenuis			
5[illegible]	Victorella pavida			

DATE 2 Apr 85 SAMPLE METHOD van Veen TIME 1149 TIDE Flood

STATION NO. XIF4513 LAT. 39° 14' 32" LONG. 76° 21' 19"

WATER DEPTH 14 - WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi		1	2
3	Heteromastus filiformis			1
4	Melinna sp.			
5	Nereis succinea	1	2	1
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis	64	54	50
11	Streblospio benedicti			
12	Bypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Congeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli	1	2	
21	Rangia cuneata	33	27	26
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus			
29	Leucon americanus			
30	Cyathura polita	5	4	9
31	Cassidinidea lunifrons			
33	Edotea triloba			1
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus	51	60	97
37	Corophium lacustre	1	5	
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.	2		1
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styliocopus ellipticus			
49	Membranipora tenuis			
51	Victorella pavida			

DATE 2 Apr 85 SAMPLE METHOD van-Veen TIME 1354 TIDE Flood

STATION NO. E1 LAT. 39° 15' 23" LONG. 76° 20' 32"

WATER DEPTH 12 WATER TEMP. 8.5 WATER SAL. 4.1

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena	1	1	
2	Micrura leidyi			
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea	22	56	46
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	3	8	4
10	Scolecolepides viridis	98	293	367
11	Streblospio benedicti			
12	Spiophanes bombyx			
13	Limnodrilus hoffmeisteri		2	1
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta	1		
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	1		
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilicer niger			
25	Doridella obscura			
27	Balanus improvisus	24	19	10
28	Balanus subalbidus	31	11	21
29	Leucon americanus			
30	Cyathura polita	6	12	13
31	Cassidinidea lunifrons	10	17	8
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			2
37	Corophium lacustre	135	365	248
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida	9	13	14
41	Chiridotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi	7	4	2
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 2 Apr 85 SAMPLE METHOD van Veen TIME 1337 TIDE Flood

STATION NO. E2 LAT. 39° 15' 26" LONG. 76° 20' 36"

WATER DEPTH 13 WATER TEMP. WATER SAL.

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi	1	1	
3	Heteromastus filiformis	1	1	
4	Melinna sp.			
5	Nereis succinea	2	10	12
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni		7	
10	Scolecolepides viridis	309	185	87
11	Streblospio benedicti			
12	Pygospio elegans			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata	1		1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus	1	7	3
28	Balanus subalbidus	2		
29	Leucon americanus			
30	Cyathura polita	8	18	24
31	Cassidinidea lunifrons			2
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris		2	
36	Leptocheirus plumulosus	53	11	3
37	Corophium lacustre	72	306	203
38	Gammarus daiberi			
39	Gammarus tigrinus	1	1	2
40	Melita nitida		3	2
41	Chirodotea almyra		1	
42	Monocuiodes edwardsi			1
43	Chironomid sp.			
44	Rithropanopeus harrisi			2
45	Gammarus mucronatus			
46	Cordylophora caspia			
47	Garveia franciscana			
48	Styiocbus ellipticus			
49	Membranipora tenuis			
51	Victorella pavida			

DATE 2 Apr 85 SAMPLE METHOD van Veen TIME 1319 TIDE Flood

STATION NO. E3 LAT. 39° 15' 20" LONG. 76° 20' 39"

WATER DEPTH 12 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	GRAB 1	GRAB 2	GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea	63	52	44
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni	8	8	
10	Scolecolepides viridis	122	193	134
11	Streblospio benedicti			
12	Hypaniola grayi			
13	Limnodrilus hoffmeisteri	1	1	1
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta		1	1
18	Littoridinops sp.			
19	Macoma balthica		1	
20	Macoma mitchelli			
21	Rangia cuneata			1
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus	20	9	8
28	Balanus subalbidus		4	
29	Leucon americanus			
30	Cyathura polita	11	16	47
31	Cassidinidea lunifrons			
33	Edotea triloba		1	
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus		3	3
37	Corophium lacustre	412	165	261
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida	7		
41	Chiridotea almyra			1
42	Monoculodes edwardsi			
43	Chironomid sp.	3		
44	Rithropanopeus harrisi	2	9	4
45	Gammarus mucronatus			
46	Corophiophora caspia			
47	Garveia franciscana			
48	Styliochus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE April'85 SAMPLE METHOD Epifaunal Scrape TIME 0953 TIDE Ebb

STATION NO. XIF4811 LAT. 39° 14' 49" LONG. 76° 21' 07"

WATER DEPTH 1,6,10 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformis			
4	Melinna sp.			
5	Nereis succinea			4
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			
10	Scolecolepides viridis			4
11	Streblospio benedicti			
12	Hypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta			
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus		2	1
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	3	1	1
38	Gammarus daiberi			
39	Gammarus tigrinus		4	
40	Melita nitida			
41	Chirodotea almyra			
42	Monocuiodes edwardsi			
43	Chironomid sp.			4
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia		1	1
47	Garveia franciscana			
48	Stylochus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 25 Apr 85 SAMPLE METHOD Epifaunal Scrape TIME 1028 TIDE Ebb

STATION NO. XIF4813 LAT. 39° 14' 46" LONG. 76° 21' 16"

WATER DEPTH - WATER TEMP. WATER SAL.

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformus			
4	Melinna sp.			
5	Nereis succinea		3	2
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni			3
10	Scolecolepides viridis			
11	Streblospio benedicti			
12	Boccardiola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta		4	4
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			4
28	Balanus subalbidus		2	3
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	4	1	1
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chiridotea almyra			
42	Monocuiodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia		2	3
47	Garveia franciscana			
48	Styloctus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 25 Apr 85 SAMPLE METHOD Epifaunal Scrape TIME 1059 TIDE Ebb

STATION NO. XIF4514 LAT. 39° 14' 40" LONG. 76° 21' 16"

WATER DEPTH _____ WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteronastus filiformis			
4	Melinna sp.			
5	Nereis succinea		3	2
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni		4	3
10	Scolecolepides viridis			
11	Streblospio benedicti			
12	Bypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta		3	2
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stilicer niger			
25	Doridella obscura			
27	Balanus improvisus		4	
28	Balanus subalbicus		2	2
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	3	1	2
38	Gammarus daiberi	4		
39	Gammarus tigrinus			
40	Melita nitida			
41	Chirodotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.			
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Cordylophora caspia		1	3
47	Garveia franciscana			
48	Styloctenus ellipticus			
49	Membranipora tenuis			
50	Victorella pavida			

DATE 25 Apr 85 SAMPLE METHOD Epiraunal Scrape TIME 1126 TIDE Ebb

STATION NO. XIF4518 LAT. 39° 14' 32" LONG. 76° 21' 23"

WATER DEPTH 1, 6, 10 WATER TEMP. _____ WATER SAL. _____

SPECIES NO.	SPECIES	SUR GRAB 1	MID GRAB 2	BOT GRAB 3
1	Diadumene leucolena			
2	Micrura leidyi			
3	Heteromastus filiformus			
4	Melinna sp.			
5	Nereis succinea		2	2
6	Scoloplos fragilis			
7	Pectinaria gouldi			
8	Eteone heteropoda			
9	Polydora ligni		2	2
10	Scolecolepides viridis			
11	Streblospio benedicti			
12	Bypaniola grayi			
13	Limnodrilus hoffmeisteri			
14	Peloscolex sp.			
15	Capitella capitata			
16	Ischadium recurvus			
17	Conoeria leucophaeta	4	3	2
18	Littoridinops sp.			
19	Macoma balthica			
20	Macoma mitchelli			
21	Rangia cuneata			
22	Mya arenaria			
23	Hydrobia sp.			
24	Stiliger niger			
25	Doridella obscura			
27	Balanus improvisus			
28	Balanus subalbidus		2	1
29	Leucon americanus			
30	Cyathura polita			
31	Cassidinidea lunifrons			
33	Edotea triloba			
34	Neohaustorius biarticulatus			
35	Gammarus palustris			
36	Leptocheirus plumulosus			
37	Corophium lacustre	4	2	3
38	Gammarus daiberi			
39	Gammarus tigrinus			
40	Melita nitida			
41	Chirodotea almyra			
42	Monoculodes edwardsi			
43	Chironomid sp.		4	4
44	Rithropanopeus harrisi			
45	Gammarus mucronatus			
46	Corbicula fluminea		3	4
47	Garveia franciscana			
48	Styloctus ellipticus			4
49	Membranipora tenuis			
50	Victorella pavida			

LABORATORY ANALYSIS DATA

WATER RESOURCES ADMINISTRATION

APPENDIX C

Sediment Data

Phthalates

Polynuclear Aromatic Hydrocarbons

Pesticides and Pcbs

The only constituent that was above detectable levels was Pcbs

The detection levels are shown

Sediment Data

Detection Limits

Phthalates

Constituent	Units	Amount	Detection Limit
Butyl Benzyl Phthalate	ug/kg	BDL	100
Di-n-octyl Phthalate	ug/kg	BDL	100
Bis(2-Ethylhexyl) Phthalate	ug/kg	BDL	100
Di-n-butyl Phthalate	ug/kg	BDL	100
Diethyl Phthalate	ug/kg	BDL	100
Dimethyl Phthalate	ug/kg	BDL	100

BDL = Below Detection Limit

Sediment Data

Detection Limits

Polynuclear Aromatic Hydrocarbons

Constituent	Units	Amount	Detection Limit
Benzo (b) fluoranthene	ug/kg	BDL	200
Acenaphthene	ug/kg	BDL	100
Acenaphthylene	ug/kg	BDL	100
Anthracene	ug/kg	BDL	100
Benzo (a) anthracene	ug/kg	BDL	100
Benzo (a) pyrene	ug/kg	BDL	100
Benzo (g,h,i) perylene	ug/kg	BDL	200
Benzo (k) fluoranthene	ug/kg	BDL	200
Chrysene	ug/kg	BDL	100
Dibenzo (a,h) anthracene	ug/kg	BDL	200
Fluoranthene	ug/kg	BDL	100
Fluorene	ug/kg	BDL	100
Indeno (1,2,3-cd) pyrene	ug/kg	BDL	200
Naphthalene	ug/kg	BDL	100
Phenanthrene	ug/kg	BDL	100
Pyrene	ug/kg	BDL	100

BDL = Below Detection Limit

Sediment Data

Detection Limits

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	BDL	10

BDL = Below Detection Limit

Sample No.: HMI Sta #3 4/16/85

Lab ID No.: 850416 - 44

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	22	10

BDL = Below Detection Limit

Sample No.: HMI Sta #19 4/16/85

Lab ID No.: 840416 - 45

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	162	10

BDL = Below Detection Limit

Sample No.: HMI Sta #21 4/16/85

Lab ID No.: 840416 - 46

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	BDL	10

BDL = Below Detection Limit

Sample No.: HMI Sta # 21 Dupl. 4/16/85

Lab ID No.: 840416 - 47

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	BDL	10

BDL = Below Detection Limit

Sample No.: HMI Sta #23 4/16/85

Lab ID No.: 840416 - 48

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	28	10

BDL = Below Detection Limit

Sample No.: HMI Sta #24 4/16/85

Lab ID No.: 840416 - 49

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	28	10

BDL = Below Detection Limit

Sample No.: HMI Sta #24 Dupl. 4/16/85

Lab ID No.: 840416 - 50

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	18	10

BDL = Below Detection Limit

Sample No.: HMI Sta #24 Dupl. 4/16/85

Lab ID No.: 840416 - 50 (Dupl.)

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	17	10

BDL = Below Detection Limit

Sample No.: HMI Sta #BC-3 4/16/85

Lab ID No.: 840416 - 51

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	12	10

BDL = Below Detection Limit

Sample No.: HMI Sta #BC-6 4/16/85

Lab ID No.: 840416 - 52

Pesticides and PCBs

Constituent	Units	Amount	Detection Limit
Aldrin	ug/kg	BDL	0.3
Alpha BHC	ug/kg	BDL	0.1
Beta BHC	ug/kg	BDL	0.4
Gamma BHC (Lindane)	ug/kg	BDL	0.3
Chlordane	ug/kg	BDL	7
4,4'-DDD	ug/kg	BDL	1
4,4'-DDE	ug/kg	BDL	0.6
4,4'-DDT	ug/kg	BDL	2
Dieldrin	ug/kg	BDL	0.8
Endrin	ug/kg	BDL	2
Heptachlor	ug/kg	BDL	0.4
Heptachlor Epoxide	ug/kg	BDL	0.5
Toxaphene	ug/kg	BDL	90
PCBs, Total	ug/kg	21	10

BDL = Below Detection Limit

Clam Tissue Data

Polynuclear Aromatic Hydrocarbons

Pesticides and PCBs

There were no constituents above the detection limits

The detection limits are shown

Clam Tissue Data

Detection Limits

Polynuclear Aromatic Hydrocarbons

Constituent	Units*	Amount	Detection Limit
Benzo (b) fluoranthene	ug/kg	BDL	133
Acenaphthene	ug/kg	BDL	133
Acenaphthylene	ug/kg	BDL	133
Anthracene	ug/kg	BDL	133
Benzo (a) anthracene	ug/kg	BDL	133
Benzo (a) pyrene	ug/kg	BDL	133
Benzo (g,h,i) perylene	ug/kg	BDL	133
Benzo (k) fluoranthene	ug/kg	BDL	133
Chrysene	ug/kg	BDL	133
Dibenzo (a,h) anthracene	ug/kg	BDL	133
Fluoranthene	ug/kg	BDL	133
Flourene	ug/kg	BDL	133
Ideno (1,2,3-cd) pyrene	ug/kg	BDL	133
Naphthalene	ug/kg	BDL	133
Phenanthrene	ug/kg	BDL	133
Pyrene	ug/kg	BDL	133

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

Clam Tissue Data

Detection Limits

Pesticides and PCBs

Constitutent	Units*	Amount	Detection Limit
Aldrin	ug/kg	BDL	.7
Alpha BHC	ug/kg	BDL	.7
Beta BHC	ug/kg	BDL	1.3
Gamma BHC (Lindane)	ug/kg	BDL	.7
Chlordane	ug/kg	BDL	27.
4,4'-DDD	ug/kg	BDL	2.6
4,4'-DDE	ug/kg	BDL	1.3
4,4'-DDT	ug/kg	BDL	2.6
Dieldrin	ug/kg	BDL	.7
Endrin	ug/kg	BDL	1.3
Heptachlor	ug/kg	BDL	1.3
Heptachlor Epoxide	ug/kg	BDL	.7
Toxaphene	ug/kg	BDL	333.
PCBs, Total	ug/kg	BDL	200.

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

White Perch, *Morone americana*

Phathalates

Polynuclear Aromatic Hydrocarbons

Pesticides and PCBs

The only constituents that were above detectable levels were 4,4 DDE and PCBs

The detection levels are shown

White Perch, *Morone americana* Data

Detection Limits

Pesticides and PCBs

Constitutent	Units*	Amount	Detection Limit
Aldrin	ug/kg	BDL	1.6
Alpha BHC	ug/kg	BDL	1.6
Beta BHC	ug/kg	BDL	3.2
Gamma BHC (Lindane)	ug/kg	BDL	1.6
Chlordane	ug/kg	BDL	64.
4,4'-DDD	ug/kg	BDL	6.4
4,4'-DDE	ug/kg	BDL	3.2
4,4'-DDT	ug/kg	BDL	6.4
Dieldrin	ug/kg	BDL	1.6
Endrin	ug/kg	BDL	3.2
Heptachlor	ug/kg	BDL	3.2
Heptachlor Epoxide	ug/kg	BDL	1.6
Toxaphene	ug/kg	BDL	804.
PCBs, Total	ug/kg	BDL	482.

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

Sample No.: HMT-9 October 9, 1984

Lab ID No.: 850821-05

Pesticides and PCBs

Constitutent	Units*	Amount	Detection Limit
Aldrin	ug/kg	BDL	1.6
Alpha BHC	ug/kg	BDL	1.6
Beta BHC	ug/kg	BDL	3.2
Gamma BHC (Lindane)	ug/kg	BDL	1.6
Chlordane	ug/kg	BDL	64.
4,4'-DDD	ug/kg	BDL	6.4
4,4'DDE	ug/kg	295.	3.2
4,4'-DDT	ug/kg	BDL	6.4
Dieldrin	ug/kg	BDL	1.6
Endrin	ug/kg	BDL	3.2
Heptachlor	ug/kg	BDL	3.2
Heptachlor Epoxide	ug/kg	BDL	1.6
Toxaphene	ug/kg	BDL	804.
PCBs, Total	ug/kg	3,227.	482.

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

Sample No.: HMT-1 October 9, 1984

Lab ID No.: 850821-07

Pesticides and PCBs

Constitutent	Units*	Amount	Detection Limit
Aldrin	ug/kg	BDL	1.6
Alpha BHC	ug/kg	BDL	1.6
Beta BHC	ug/kg	BDL	3.2
Gamma BHC (Lindane)	ug/kg	BDL	1.6
Chlordane	ug/kg	BDL	64.
4,4'-DDD	ug/kg	BDL	6.4
4,4'DDE	ug/kg	196. ± 3.5	3.2
4,4'-DDT	ug/kg	BDL	6.4
Dieldrin	ug/kg	BDL	1.6
Endrin	ug/kg	BDL	3.2
Heptachlor	ug/kg	BDL	3.2
Heptachlor Epoxide	ug/kg	BDL	1.6
Toxaphene	ug/kg	BDL	804.
PCBs, Total	ug/kg	2,764. ± 275.	482.

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

Sample No.: HMT-6 October 9, 1984

Lab ID No.: 850821-08

Pesticides and PCBs

Constitutent	Units*	Amount	Detection Limit
Aldrin	ug/kg	BDL	1.6
Alpha BHC	ug/kg	BDL	1.6
Beta BHC	ug/kg	BDL	3.2
Gamma BHC (Lindane)	ug/kg	BDL	1.6
Chlordane	ug/kg	BDL	64.
4,4'-DDD	ug/kg	BDL	6.4
4,4'DDE	ug/kg	376.	3.2
4,4'-DDT	ug/kg	BDL	6.4
Dieldrin	ug/kg	BDL	1.6
Endrin	ug/kg	BDL	3.2
Heptachlor	ug/kg	BDL	3.2
Heptachlor Epoxide	ug/kg	BDL	1.6
Toxaphene	ug/kg	BDL	804.
PCBs, Total	ug/kg	3,308.	482.

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

Sample No.: HMT-10 April 3, 1985

Lab ID No.: 850821-09

Pesticides and PCBs

Constitutent	Units*	Amount	Detection Limit
Aldrin	ug/kg	BDL	1.6
Alpha BHC	ug/kg	BDL	1.6
Beta BHC	ug/kg	BDL	3.2
Gamma BHC (Lindane)	ug/kg	BDL	1.6
Chlordane	ug/kg	BDL	64.
4,4'-DDD	ug/kg	BDL	6.4
4,4'DDE	ug/kg	172.	3.2
4,4'-DDT	ug/kg	BDL	6.4
Dieldrin	ug/kg	BDL	1.6
Endrin	ug/kg	BDL	3.2
Heptachlor	ug/kg	BDL	3.2
Heptachlor Epoxide	ug/kg	BDL	1.6
Toxaphene	ug/kg	BDL	804.
PCBs, Total	ug/kg	2,137.	482.

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

Sample No.: HMT-2 April 3, 1985

Lab ID No.: 850821-11

Pesticides and PCBs

Constitutent	Units*	Amount	Detection Limit
Aldrin	ug/kg	BDL	1.6
Alpha BHC	ug/kg	BDL	1.6
Beta BHC	ug/kg	BDL	3.2
Gamma BHC (Lindane)	ug/kg	BDL	1.6
Chlordane	ug/kg	BDL	64.
4,4'-DDD	ug/kg	BDL	6.4
4,4'DDE	ug/kg	183.	3.2
4,4'-DDT	ug/kg	BDL	6.4
Dieldrin	ug/kg	BDL	1.6
Endrin	ug/kg	BDL	3.2
Heptachlor	ug/kg	BDL	3.2
Heptachlor Epoxide	ug/kg	BDL	1.6
Toxaphene	ug/kg	BDL	804.
PCBs, Total	ug/kg	2,325.	482.

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