3.4

NEW BEDFORD SUPERFUND PROJECT
BENTHIC SAMPLING

NEW BEDFORD, MASSACHUSETTS

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Prepared for

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1.0 INTRODUCTION

Sanford Ecological Services, Inc. (SES) was contracted by the U.S. Army Corps of Engineers (COE), New England Division (NED) to collect and identify benthic organisms from the New Bedford Harbor area. This work was performed in support of EPA's endangerment assessment.

The following report presents the results of the field effort conducted on 8 and 9 September, 1986. Samples were collected at various locations throughout New Bedford Harbor for the purpose of determining the existing benthic community within the area.

All benthic invertebrate identifications were conducted by Cove Corporation.

2.0 METHODS

2.1 Field Methods

On September 8 and 9, 1986, personnel from SES collected benthic samples from the study area. Twenty-two randomly selected locations in the new Bedford Harbor area were sampled by SES personnel (See Figure 2-1). These locations were provided by the Corps. Three replicate samples were collected at each location. The loran coordinates and water depth for each replicate sampling location are given in Table 2-1.

Benthic sampling was accomplished with a Smith-McIntyre grab (0.1 m^2). Three replicates were collected at each of the stations for a total of 66 benthic samples. All samples were screened through a 0.5mm seive and preserved in a 10% solution of buffered formalin to which Rose Bengal, a protein stain, had been added. Twelve additional benthic samples collected at four stations upriver of the Coggleshall Street Bridge were delivered to SES for invertebrate identification. Sediment samples for grain size analysis were also collected at each station and transorted to the Corps' laboratory facility in Waltham, Massachusetts for physical analysis. In addition, a video documentation of the sampling effort showing the field procedures and the physical characteristics of the sediments was conducted by SES and supplied to the Corps.

All samples collected were labelled and chain of custody procedures applied (See Appendix I).

2.2 Laboratory Procedures

All samples were inventoried upon receipt at the benthic laboratory. A sample tracking sheet was maintained for all samples from time of delivery through data analysis. This tracking sheet contained information on station location, processing procedures, replicate number, date of collection,

Figure 2-1. Benthic Sampling Locations

date received, storage location, number of containers for each taxon identified and dated initials of each staff member recording information throughout processing and identification. Each benthic sample was given a unique designation, which was entered into the log book and onto the sample tracking sheet.

Benthic samples were quantitatively rinsed into a nesteed pair of standard mesh sieves that were submered in a tray filled with water to minimize damage to delicate organisms. The sieves were carefully agitated to minimize tissue damage or fragmentation. Upon completion of sorting of the 0.50 mm fraction, the residue and water in the bottom of the tray were poured through the 0.50 mm sieve to ensure retention in the counting process of borderline - sized organisms.

Material retained on the sieve was sorted in a white enamel pan under high - intensity lights. All of the residual material that had been examined by technicians was retained for resieve and resort analysis. The first five samples processed by each technician were resieved and resorted by another person. If less than 5 percent of total abundance had been missed in the picking process, only a random selection of 10 percent of that picker's samples were rechecked. If greater than 5 percent of the material had been missed, the picker(s) was required to resort all subsequent samples until five consecutive samples passed the resort control. A log was kept for resieve/resort evaluations for each technician, and used as an in-house quality assurance procedure.

Taxonomic identification was conducted under the supervision of a senior taxonomist. Following initial sample sorting to phyla, each phylum was further broken down to the family level. A specialist familiar with taxonomy of that family then made final identifications to the species level. This ensured consistent identification within family throughout the project. A minimum of 10 percent of the identifications were rechecked by another taxonomist and errors corrected on the sample data sheet. Errors were discussed with the senior taxonomist and

guidance was given to correct any misidentifications. All previously identified samples containing that taxon were also rechecked. When a family group had been completed, a minimum of 15 percent of the vials were rechecked and recounted. Recounts and reidentifications were noted on the taxonomic evaluation sheet. A detailed list of comments and observations on samples and specimens is provided in Appendix II.

A voucher collection was maintained to ensure consistent identifications throughout the project and among projects. At the end of the project the voucher was curated into the laboratory's specimen library. Verification of any questionable and for all unresolved species was performed by outside experts from the U.S. National Museum. Following completion of the taxonomic identification, the voucher sample was submitted to the Corps.

TABLE 2-1: NEW BEDFORD HARBOR BENTHIC SAMPLING PROGRAM
SEPTEMBER 8 AND 9, 1986

Station No.	Water Depth (feet)	Loran Coordinates W	Loran Coordinates Y
5-A	15	14193.9	44022.5
5-B	17	14193.9	44022.8
5-C	16	14193.9	44022.7
5-D	16	14193.8	44023.0
6-A	15	14194.4	44021.7
6-B	15	14194.5	44021.7
6-C	14	14194.4	44021.7
6-D	15	14194.5	44021.7
7-A	11	14192.0	44020.3
7-B	11	14192.1	44020.3
7-C	11	14192.0	44020.3
7-D	11	14192.0	44020.3
8-A	32	14195.2	44019.5
8-B	32	14195.2	44019.5
8-C	32	14195.2	44019.5
8-D	32	14195.2	44019.5
9-A	7	14192.7	44018.2
9-B	8	14192.7	44018.2
9-C	7	14192.7	44018.2
9-D	7	14192.7	44018.2
10-A	14	14192.3	44017.2
10-B	14	14192.4	44017.1
10-C	14	14192.4	44017.2
10-D	14	14192.3	44017.2
11-A	14	14192.9	44016.9
11-B	15	14192.9	44015.8
11-C	14	14193.0	44016.9
11-D	14	14192.9	44016.9
12-A	12	14196.4	44018.0
12-B	11	14196.4	44018.0
12-C	12	14196.4	44018.0
12-D	12	14196.4	44018.0
13-A	14	14194.9	44012.5
13-B	15	14194.9	44012.5
13-C	14	14195.0	44012.6
13-D	13	14195.0	44012.5

Station No.	Depth	Loran Coordinates W	Loran Coordinates Y
14-A	19	14195.0	44011.2
14-B	19	14195.0	44011.2
14-C	19	14194.9	44011.2
14-D	19	14195.0	44011.2
15-A	13	14194.3	44011.1
15-B	11	14194.3	44011.1
15-C	13	14194.3	44011.1
15-D	14	14194.3	44011.1
16-A	12	14197.2	44010.4
16-B	12	14197.3	44010.4
16-C	12	14197.2	44010.4
16-D	12	14197.2	44010.4
17-A	11	14196.6	44011.0
17-B	11	14196.7	44011.0
17-C	11	14196.6	44011.0
17-D	11	14196.7	44011.0
18-A	12	14197.9	44009.7
18-B	12	14198.0	44009.8
18-C	12	14197.9	44009.8
18-D	12	14198.0	44009.8
19-A	14	14197.1	44009.9
19-B	14	14197.1	44010.0
19-C	14	14197.0	44009.9
19-D	14	14197.1	44009.9
20-A	21	14195.7	44008.2
20-B	21	14195.6	44008.1
20-C	21	14195.7	44008.1
20-D	21	14195.7	44008.1
21-A	19	14196.3	44008.1
21-B	20	14196.3	44008.1
21-C	19	14196.3	44008.1
21-D	19	14196.2	44008.2
22-A	21	14196.0	44007.6
22-B	20	14196.1	44007.6
22-C	20	14196.1	44007.6
22-D	20	14196.1	44007.6
23-A	17	14196.6	44007.6
23-B	18	14196.6	44007.6
23-C	18	14196.6	44007.6
23-D	18	14196.6	44007.6

Station No.	Depth	Loran Coordinates W	Loran Coordinates Y
24-A	18	14196.6	44007.0
24-B	18	14196.6	44007.0
24-C	18	14196.6	44007.1
24-D	18	14196.6	44007.0
25-A	19	14196.3	44006.2
25-B	19	14196.3	44006.2
25-C	18	14196.3	44006.2
25-D	19	14196.2	44006.3
26-A	15	14196.9	44006.2
26-B	15	14196.9	44006.2
26-C	15	14196.9	44006.2
26-D	15	14196.9	44006.2

III. RESULTS

This section presents the results of the taxonomic identifications. The data are presented by station location (See Figure 2-1). A list of species with corresponding number of individuals is provided for each replicate.

STUDY SITE = New Bedford Inner Harbor

STATION = 1 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		9	18	9	36
Podarke obscura		1	2	0	3
Nereis succinea		2	7	7	16
Polydora ligni		0	1	2	3
Streblospio benedicti		327	420	222	969
Tharyx acutus		0	2	0	2
Capitella capitata		7	3	3	13
Pectinaria gouldii		1	2	3	6
OLIGOCHAETA					
Tubificoides spp.		0	2	0	2
GASTROPODA					
Nassarius obsoletus		16	0	6	22
BIVALVIA					
Mulinia lateralis		2	3	5	10
Gemma gemma		0	0	1	1
Mya arenaria		0	1	0	1
CRUSTACEA					
Edotea triloba		2	2	0	4
TOTAL	14	367	463	258	1088

STUDY SITE = New Bedford Inner Harbor

STATION = 2 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		4	9	4	17
Podarke obscura		1	0	0	1
Nereis succinea		2	1	2	5
Leitoscoloplos fragilis		0	0	1	1
Polydora ligni		1	0	0	1
Streblospio benedicti		92	148	145	385
Tharyx acutus		2	1	3	6
Pectinaria gouldii		0	0	2	2
OLIGOCHAETA					
Tubificoides spp.		6	2	1	9
GASTROPODA					
Nassarius obsoletus		19	8	11	38
Acteon punctostriatus		3	2	4	9
Gastropod sp. 1 (juvenile)		0	0	1	1
BIVALVIA					
Mulinia lateralis		24	19	39	82
TOTAL	13	154	190	213	557

STUDY SITE = New Bedford Inner Harbor

STATION = 3 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Lagisca extenuata		0	0	2	2
Eteone heteropoda		6	2	0	8
Eumida sanguinea		11	0	20	31
Phyllodoce arenae		0	1	0	1
Podarke obscura		54	5	193	252
Odontosyllis fulgurans		1	0	1	2
Nereis succinea		5	2	2	9
Polydora socialis		14	4	5	23
Polydora ligni		13	9	0	22
Streblospio benedicti		87	126	39	252
Boccardiella hamata		0	0	1	1
Cirriformia grandis		1	0	1	2
Tharyx acutus		2	0	44	46
Dodecaceria concharum		5	0	0	5
Cirratulidae sp. (juvenile)		1	0	0	1
Capitella capitata		10	7	1	18
Mediomastus ambiseta		3	1	8	12
Pectinaria gouldii		1	0	0	1
OLIGOCHAETA					
Tubificoides spp.		18	16	396	430
GASTROPODA					
Crepidula fornicata		1	1	1	3
Crepidula plana		2	0	0	2
Nassarius obsoletus		10	12	26	48
BIVALVIA					
Anomia simplex		1	0	0	1
Mulinia lateralis		1	0	0	1
Tellina agilis		1	0	0	1
CRUSTACEA					
Microdeutopus gryllotalpa		11	0	32	43
Corophium acherusicum		2	0	3	5
Corophium insidiosum		0	0	33	33
Neopanope sayi		4	0	10	14
TOTAL	29	265	186	818	1269

STUDY SITE = NEW BEDFORD INNER HARBOR

STATION = 4 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
CNIDARIA					
Sessile Anemone		1	0	1	2
POLYCHAETA					
Eteone heteropoda		0	8	14	22
Eumida sanguinea		1	1	0	2
Podarke obscura		0	1	0	1
Nereis succinea		0	0	1	1
Nereis acuminata		6	1	0	7
Nereis sp. (juvenile)		0	0	2	2
Glycera americana		1	0	0	1
Leitoscoloplos fragilis		0	1	0	1
Polydora ligni		1	0	0	1
Streblospio benedicti		31	85	593	709
Tharyx acutus		19	578	24	621
Capitella capitata		12	5	23	40
Mediomastus ambiseta		1	10	28	39
Pectinaria gouldii		1	0	5	6
OLIGOCHAETA					
Tubificoides spp.		28	73	42	143
GASTROPODA					
Crepidula fornicata		4	0	0	4
Crepidula plana		2	0	0	2
Nassarius obsoletus		125	41	10	176
Odostomia bisuturalis		0	2	0	2
BIVALVIA					
Mulinia lateralis		0	1	2	3
Tellina agilis		5	14	0	19
Mercenaria mercenaria		4	6	0	10
Gemma gemma		11	4	0	15
Mya arenaria		3	4	3	10
CRUSTACEA					
Microdeutopus gryllotalpa		2	1	0	3
Neopanope sayi		2	0	0	2
TOTAL	27	260	836	748	1844

STUDY SITE = New Bedford Inner Harbor

STATION = 5 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
NEMERTINEA					
Nemertinea		1	0	0	1
POLYCHAETA					
Eteone heteropoda		1	0	1	2
Eumida sanguinea		2	0	0	2
Phyllodoce arenae		1	0	0	1
Podarke obscura		10	4	12	26
Nereis succinea		1	2	3	6
Glycera americana		0	0	1	1
Lumbrineris tenuis		1	0	0	1
Polydora ligni		37	4	40	81
Streblospio benedicti		153	118	264	535
Tharyx acutus		12	5	82	99
Capitella capitata		11	2	0	13
Heteromastus filiformis		0	1	8	9
Mediomastus ambiseta		11	8	6	25
Pectinaria gouldii		0	0	7	7
OLIGOCHAETA					
Tubificoides spp.		1	1	20	22
GASTROPODA					
Crepidula fornicata		0	0	1	1
BIVALVIA					
Mulinia lateralis		0	8	13	21
Ensis directus		0	0	1	1
Tellina sp. (juvenile)		1	0	0	1
Mercenaria mercenaria		0	0	10	10
CRUSTACEA					
Erichsonella filiformis		0	1	0	1
Crangon septemspinosa		0	1	0	1
Pagurus longicarpus		0	1	0	1
TOTAL	24	243	156	469	868

STUDY SITE = New Bedford Inner Harbor

STATION = 6 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		2	3	0	5
Paranaitis speciosa		2	0	1	3
Podarke obscura		4	12	5	21
Nereis succinea		1	2	7	10
Nephtys incisa		0	0	1	1
Glycera americana		1	0	1	2
Leitoscoloplos fragilis		1	0	0	1
Polydora ligni		5	21	19	45
Streblospio benedicti		54	417	129	600
Tharyx acutus		69	161	332	562
Capitella capitata		0	0	2	2
Mediomastus ambiseta		5	17	4	26
Pectinaria gouldii		3	13	1	17
OLIGOCHAETA					
Tubificoides spp.		16	26	7	49
GASTROPODA					
Crepidula fornicata		0	1	0	1
BIVALVIA					
Anomia simplex		1	1	4	6
Mulinia lateralis		11	21	3	35
Tellina sp. (juvenile)		1	0	0	1
Mercenaria mercenaria		20	19	31	70
Petricola pholadiformis		1	1	0	2
CRUSTACEA					
Leucon americanus		0	1	0	1
Corophium sp. (juvenile)		0	1	0	1
Crangon septemspinosa		0	1	0	1
Pagurus longicarpus		0	0	1	1
TOTAL	24	197	718	548	1463

STUDY SITE = New Bedford Inner Harbor

STATION = 7 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		1	1	1	3
Eumida sanguinea		0	1	0	1
Podarke obscura		6	7	1	14
Nereis succinea		0	2	0	2
Nephtys incisa		0	0	1	1
Polydora ligni		1	3	0	4
Streblospio benedicti		116	210	157	483
Cirratulidae sp. (fragment)		1	1	2	4
Tharyx acutus		0	1	0	1
Pectinaria gouldii		2	12	5	19
OLIGOCHAETA					
Tubificoides spp.		8	7	2	17
GASTROPODA					
Acteon punctostriatus		1	1	0	2
BIVALVIA					
Mulinia lateralis		5	20	4	29
Tellina agilis		1	1	0	2
Mercenaria mercenaria		3	8	1	12
CRUSTACEA					
Rhepoxynius hudsoni		0	1	0	1
Squilla empusa		0	0	1	1
TOTAL	17	145	276	175	596

STUDY SITE = New Bedford Inner Harbor

STATION = 8 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		8	0	1	9
Eumida sanguinea		1	0	0	1
Podarke obscura		1	1	0	2
Nereis succinea		1	0	0	1
Nephtys incisa		0	2	3	5
Glycinde solitaria		1	1	0	2
Schistomeringos rudolphi		1	0	1	2
Polydora ligni		11	3	0	14
Streblospio benedicti		170	155	60	385
Spiochaetopterus costarum		0	0	2	2
Tharyx acutus		0	4	3	7
Mediomastus ambiseta		132	100	9	241
Pectinaria gouldii		39	4	10	53
OLIGOCHAETA					
Tubificoides spp.		3	10	1	14
GASTROPODA					
Crepidula fornicata		12	9	1	22
Crepidula plana		5	2	2	9
Nassarius trivittatus		1	0	0	1
Odostomia seminuda		2	1	0	3
Gastropod sp. 1 (juvenile)		1	0	0	1
BIVALVIA					
Anadara transversa		1	0	0	1
Mulinia lateralis		22	14	18	54
Tellina agilis		12	6	3	21
Mercenaria mercenaria		16	1	2	19
Petricola pholadiformis		1	0	0	1
CRUSTACEA					
Leucon americanus		2	0	0	2
Ampelisca vadorum		0	1	0	1
Microdeutopus gryllotalpa		0	1	0	1
Neopanope sayi		1	0	0	1
TOTAL	28	444	315	116	875

STUDY SITE = New Bedford Inner Harbor

STATION = 9 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Sthenelais boa		0	1	0	1
Eumida sanguinea		2	2	0	4
Podarke obscura		1	9	1	11
Nereis succinea		4	5	5	14
Glycera americana		1	1	1	3
Eunicidae sp. (juvenile)		0	2	0	2
Lumbrineris tenuis		1	0	0	1
Drilonereis longa		0	0	1	1
Leitoscoloplos sp. (fragment)		0	0	1	1
Polydora sp. (fragment)		0	1	0	1
Polydora ligni		2	2	0	4
Polydora websteri		0	5	0	5
Streblospio benedicti		41	58	6	105
Boccardiella hamata		1	3	0	4
Tharyx acutus		1	0	2	3
Capitella capitata		0	0	1	1
Heteromastus filiformis		24	42	22	88
Mediomastus ambiseta		74	137	3	214
Pectinaria gouldii		12	6	17	35
OLIGOCHAETA					
Tubificoides spp.		105	207	28	340
GASTROPODA					
Crepidula fornicata		88	400	25	513
Crepidula plana		13	37	5	55
BIVALVIA					
Anomia simplex		2	1	0	3
Mulinia lateralis		0	1	0	1
Macoma balthica		0	1	0	1
Mercenaria mercenaria		0	2	0	2
Mya arenaria		2	2	2	6
Pholadidae		0	1	0	1
CRUSTACEA					
Crangon septemspinosa		1	0	0	1
Pagurus longicarpus		0	0	1	1
Neopanope sayi		3	12	5	20
TOTAL	31	378	938	126	1442

STUDY SITE = New Bedford Inner Harbor

STATION = 10 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		1	4	5	10
Paranaitis speciosa		2	0	0	2
Eumida sanguinea		1	1	0	2
Podarke obscura		27	1	2	30
Nereis succinea		1	0	1	2
Nereis acuminata		15	6	2	23
Glycera americana		2	3	3	8
Polydora ligni		4	16	6	26
Streblospio benedicti		85	41	15	141
Boccardiella hamata		5	0	0	5
Tharyx acutus		265	183	598	1046
Capitella capitata		11	3	5	19
Heteromastus filiformis		5	6	4	15
Mediomastus ambiseta		6	3	0	9
Pectinaria gouldii		2	0	4	6
Sabellidae sp. (fragment)		1	0	0	1
OLIGOCHAETA					
Tubificoides spp.		3	0	1	4
GASTROPODA					
Crepidula fornicata		162	11	5	178
Crepidula plana		9	0	0	9
BIVALVIA					
Anomia simplex		6	0	0	6
Mulinia lateralis		0	1	0	1
Ensis directus		0	0	1	1
Tellina agilis		1	1	1	3
Tellina sp. (juvenile)		2	0	0	2
Mercenaria mercenaria		1	0	2	3
Petricola pholadiformis		0	0	1	1
Thracia sp. (juvenile)		1	0	0	1
CRUSTACEA					
Microdeutopus gryllotalpa		5	0	0	5
Rudilemboides naglei		0	0	3	3
Corophium acutum		0	0	1	1
Neopanope sayi		5	0	2	7
TOTAL	31	628	280	662	1570

STUDY SITE = New Bedford Inner Harbor

STATION = 11 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Sigalionidae		0	0	1	1
Eteone heteropoda		1	0	1	2
Eumida sanguinea		0	0	2	2
Phyllodoce arenae		6	1	1	8
Podarke obscura		0	0	2	2
Nereis succinea		1	0	1	2
Nereis virens		1	1	0	2
Nereis acuminata		2	1	1	4
Glycera americana		5	1	2	8
Polydora ligni		12	0	25	37
Streblospio benedicti		205	13	269	487
Tharyx acutus		325	46	265	636
Capitella capitata		0	2	6	8
Heteromastus filiformis		0	3	8	11
Mediomastus ambiseta		12	2	18	32
Pectinaria gouldii		0	1	2	3
OLIGOCHAETA					
Oligochaeta		0	0	1	1
Tubificoides spp.		6	0	15	21
GASTROPODA					
Crepidula fornicata		6	4	98	108
Crepidula plana		1	0	4	5
Mitrella lunata		0	0	1	1
BIVALVIA					
Anomia simplex		1	0	3	4
Mulinia lateralis		0	1	3	4
Tellina agilis		1	2	3	6
Mercenaria mercenaria		0	3	4	7
Petricola pholadiformis		2	1	2	5
Mya arenaria		1	1	1	3
CRUSTACEA					
Ampelisca vadorum		0	1	0	1
Neopanope sayi		1	1	2	4
TOTAL	29	589	85	741	1415

STUDY SITE = New Bedford Inner Harbor

STATION = 12 SAMPLING DATE = 09-08-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		1	1	5	7
Eumida sanguinea		2	0	1	3
Podarke obscura		0	4	0	4
Brania wellfleetensis		1	0	0	1
Nereis succinea		0	3	1	4
Platynereis dumerilii		0	1	0	1
Glycera americana		1	0	0	1
Lumbrineris tenuis		1	0	0	1
Drilonereis longa		1	0	0	1
Polydora ligni		9	9	64	82
Spio sp. (fragment)		1	0	0	1
Streblospio benedicti		0	4	8	12
Capitella capitata		0	2	0	2
Heteromastus filiformis		7	0	5	12
Mediomastus ambiseta		0	0	1	1
Pectinaria gouldii		1	2	4	7
OLIGOCHAETA					
Tubificoides spp.		0	0	1	1
GASTROPODA					
Crepidula fornicata		2	13	0	15
Crepidula plana		1	0	1	2
BIVALVIA					
Anomia simplex		0	2	0	2
Mulinia lateralis		0	0	4	4
Tellina agilis		0	0	1	1
Mercenaria mercenaria		5	0	5	10
CRUSTACEA					
Microdeutopus gryllotalpa		0	2	0	2
Corophium acherusicum		2	0	0	2
Crangon septemspinosa		0	0	1	1
Neopanope sayi		1	0	0	1
Pinnotheridae sp. (fragment)		2	0	0	2
TOTAL	28	38	43	102	183

STUDY SITE = New Bedford Inner Harbor

STATION = 13 SAMPLING DATE = 09-08-86

TAXA	REP 1	REP 2	REP 3	SUM
POLYCHAETA				
Sthenelais boa	0	2	2	4
Eumida sanguinea	0	8	0	8
Podarke obscura	3	4	0	7
Autolytus alexandri	0	2	1	3
Odontosyllis fulgurans	0	2	0	2
Nereis succinea	5	5	2	12
Nephtys incisa	2	0	0	2
Glycera americana	1	1	0	2
Glycinde solitaria	1	0	0	1
Lumbrineris tenuis	2	0	19	21
Leitoscoloplos sp. (juvenile)	0	0	1	1
Polydora ligni	0	0	1	1
Polydora websteri	2	2	2	6
Streblospio benedicti	0	2	0	2
Boccardiella hamata	2	5	1	8
Tharyx acutus	0	2	1	3
Dodecaceria concharum	0	1	0	1
Capitella capitata	1	5	1	7
Heteromastus filiformis	8	1	3	12
Mediomastus ambiseta	1	32	4	37
Euclymeninae sp. (fragments)	0	1	0	1
Pectinaria gouldii	11	3	15	29
Amphitrite ornata	0	0	1	1
Polycirrus eximius	0	0	1	1
Potamilla sp. (fragment)	0	2	0	2
OLIGOCHAETA				
Tubificoides spp.	0	11	1	12
GASTROPODA				
Diastoma alternatum	1	0	0	1
Crepidula fornicata	109	335	862	1306
Crepidula plana	36	41	38	115
Mitrella lunata	35	30	43	108
Nassarius trivittatus	0	0	1	1
Odostomia seminuda	278	73	0	351
BIVALVIA				
Anomia simplex	8	24	2	34
Tellina agilis	4	1	6	11
Mercenaria mercenaria	1	0	0	1
CRUSTACEA				
Ampelisca vadorum	2	1	1	4
Microdeutopus gryllotalpa	0	8	0	8

Corophium acutum		0	4	1	5
Crangon septemspinosa		0	0	1	1
Neopanope sayi		4	20	7	31
TOTAL	40	517	628	1018	2163

STUDY SITE = New Bedford Inner Harbor

STATION = 14 SAMPLING DATE = 09-08-86

TAXA	REP 1	REP 2	REP 3	SUM
NEMERTINEA				
Nemertinea	0	1	0	1
POLYCHAETA				
Lagisca extenuata	0	1	0	1
Lepidonotus sublevis	1	0	0	1
Sthenelais boa	0	3	1	4
Eteone heteropoda	0	1	0	1
Eulalia bilineata	0	1	0	1
Eumida sanguinea	0	1	0	1
Phyllodoce sp. (juvenile)	0	1	0	1
Podarke obscura	2	3	0	5
Exogone dispar	1	1	1	3
Nereis succinea	24	14	4	42
Glycera americana	1	1	0	2
Glycinde solitaria	2	2	5	9
Lumbrineris tenuis	0	1	0	1
Polydora sp. (fragment)	1	0	0	1
Polydora ligni	1	0	2	3
Polydora websteri	9	3	1	13
Streblospio benedicti	1	0	3	4
Boccardiella hamata	11	4	3	18
Capitella capitata	1	0	0	1
Heteromastus filiformis	1	3	1	5
Mediomastus ambiseta	13	15	51	79
Pectinaria gouldii	2	6	5	13
Amphitrite ornata	2	1	0	3
Polycirrus eximius	0	1	0	1
OLIGOCHAETA				
Tubificoides spp.	0	0	1	1
GASTROPODA				
Crepidula fornicata	150	154	31	335
Crepidula plana	52	50	17	119
Mitrella lunata	0	51	0	51
Anachis avara	0	2	0	2
Odostomia seminuda	0	235	3	238
BIVALVIA				
Nucula proxima	0	4	3	7
Anomia simplex	9	6	1	16
Mulinia lateralis	0	1	0	1
Macoma balthica	0	1	1	2

Tellina agilis		2	3	0	5
Mercenaria mercenaria		1	0	0	1
CRUSTACEA					
Ampelisca vadorum		0	0	1	1
Corophium acutum		3	0	0	3
Neopanope sayi		5	3	0	8
TOTAL	40	295	574	135	1004

STUDY SITE = New Bedford Inner Harbor

STATION = 15 SAMPLING DATE = 09-08-86

TAXA	REP 1	REP 2	REP 3	SUM
CNIDARIA				
Burrowing Anemone	0	2	1	3
NEMERTINEA				
Nemertinea	0	5	5	10
POLYCHAETA				
Lepidonotus sp. (juvenile)	1	0	0	1
Sthenelais boa	3	5	8	16
Eteone heteropoda	1	0	0	1
Eumida sanguinea	1	1	2	4
Eumida sp. (juvenile)	0	1	0	1
Phyllodoce arenae	1	3	2	6
Phyllodoce sp. (juvenile)	0	0	1	1
Podarke obscura	12	30	10	52
Autolytus sp.	0	1	1	2
Exogone dispar	1	4	2	7
Brania wellfleetensis	22	69	55	146
Nereis acuminata	1	0	0	1
Platynereis dumerilii	0	1	4	5
Glycera americana	9	5	11	25
Glycinde solitaria	8	9	12	29
Diopatra cuprea	0	3	1	4
Lumbrineris tenuis	45	77	43	165
Lumbrineris acicularum	1	0	0	1
Drilonereis longa	0	0	1	1
Schistomeringos rudolphi	0	1	0	1
Leitoscoloplos fragilis	0	1	2	3
Polydora ligni	0	1	0	1
Prionospio (P.) heterobranchia	0	2	2	4
Spiophanes bombyx	1	0	2	3
Streblospio benedicti	0	3	0	3
Boccardiella hamata	1	0	0	1
Cirratulidae sp. (fragment)	0	0	3	3
Tharyx acutus	0	265	24	289
Heteromastus filiformis	21	9	6	36
Mediomastus ambiseta	9	37	44	90
Euclymeninae sp. (fragments)	16	6	9	31
Pectinaria gouldii	7	8	2	17
Ampharetidae sp. (fragment)	1	0	0	1
Terebellidae sp. (fragment)	0	1	0	1
Polycirrus eximius	2	16	4	22
Sabellidae sp. (fragment)	0	1	0	1

OLIGOCHAETA					
Oligochaeta		6	34	11	51
Tubificoides spp.		0	46	5	51
GASTROPODA					
Crepidula fornicata		221	345	153	719
Crepidula plana		8	30	3	41
Polinices duplicatus		0	0	1	1
Urosalpinx sp. (juvenile)		0	1	0	1
Mitrella lunata		2	35	9	46
Anachis avara		0	11	2	13
Anachis lafresnayi		0	2	0	2
Anachis sp. (juvenile)		0	1	1	2
Nassarius trivittatus		1	2	5	8
Odostomia seminuda		182	346	243	771
Acteocina canaliculata		2	37	31	70
Gastropod sp. 2 (juvenile)		1	0	0	1
BIVALVIA					
Nucula proxima		8	37	5	50
Anadara transversa		1	6	5	12
Anomia simplex		3	5	7	15
Laevicardium mortoni		6	7	8	21
Tellina agilis		43	47	159	249
Tagelus divisus		3	4	10	17
Mercenaria mercenaria		4	24	21	49
Petricola pholadiformis		0	9	7	16
Lyonsia hyalina		2	0	0	2
Periploma papyratium		0	6	2	8
CRUSTACEA					
Ampelisca vadorum		4	2	8	14
Lembos smithi		2	66	10	78
Microdeutopus gryllotalpa		0	7	2	9
Rudilemboides naglei		1	9	6	16
Corophium tuberculatum		0	7	5	12
Corophium acutum		0	17	4	21
Elasmopus levis		0	19	4	23
Jassa falcata		0	0	1	1
Eobrolgus spinosus		1	3	2	6
Paracaprella tenuis		0	2	0	2
Pagurus longicarpus		0	0	2	2
Neopanope sayi		25	33	7	65
Pinnotheridae sp. (fragment)		0	0	2	2
ECHINODERMATA					
Havelockia scabra		0	1	0	1
TOTAL	76	690	1768	998	3456

STUDY SITE = New Bedford Harbor

STATION = 16 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Microphthalmus aberrans		1	0	0	1
Platynereis dumerilii		0	1	0	1
Diopatra cuprea		1	0	0	1
Lumbrineris tenuis		0	2	0	2
Polydora ligni		12	5	0	17
Capitella capitata		36	39	0	75
Maldanidae sp. (fragment)		0	1	0	1
Euclymeninae sp. (fragments)		1	0	0	1
Pectinaria gouldii		1	5	0	6
OLIGOCHAETA					
Oligochaeta		2	0	0	2
Tubificoides spp.		0	2	0	2
GASTROPODA					
Crepidula fornicata		63	1	0	64
Crepidula plana		4	0	0	4
BIVALVIA					
Tellina agilis		1	0	0	1
Mercenaria mercenaria		0	1	0	1
Petricola pholadiformis		0	1	0	1
CRUSTACEA					
Ampelisca vadorum		0	3	0	3
Cymadusa compta		1	0	0	1
Palaemonetes vulgaris		1	1	0	2
Hippolyte zostericola		2	2	0	4
TOTAL	20	126	64	0	190

STUDY SITE = New Bedford Harbor

STATION = 17 SAMPLING DATE = 09-09-86

TAXA	REP 1	REP 2	REP 3	SUM
POLYCHAETA				
Sthenelais boa	0	1	3	4
Eteone heteropoda	0	1	1	2
Eumida sanguinea	0	4	2	6
Phyllodoce arenae	0	0	2	2
Podarke obscura	0	3	0	3
Exogone dispar	0	8	7	15
Brania wellfleetensis	0	27	38	65
Nereis virens	1	0	0	1
Nereis acuminata	0	1	1	2
Platynereis dumerilii	0	6	0	6
Nephtys picta	0	5	2	7
Glycera americana	0	4	1	5
Glycinde solitaria	0	1	1	2
Lumbrineris tenuis	0	4	21	25
Leitoscoloplos fragilis	0	1	6	7
Polydora ligni	3	0	0	3
Prionospio (P.) heterobranchia	0	1	1	2
Spio setosa	0	0	1	1
Spiophanes bombyx	0	2	4	6
Streblospio benedicti	0	0	1	1
Boccardiella hamata	0	0	1	1
Cirratulidae sp. (fragment)	0	2	0	2
Tharyx acutus	0	4	15	19
Capitella capitata	18	0	0	18
Heteromastus filiformis	0	2	1	3
Mediomastus ambiseta	0	11	13	24
Pectinaria gouldii	3	6	4	13
Polycirrus eximius	0	16	4	20
OLIGOCHAETA				
Oligochaeta	0	1	3	4
Tubificoides spp.	3	8	2	13
GASTROPODA				
Diastoma alternatum	0	10	0	10
Crepidula fornicata	15	727	185	927
Crepidula plana	0	11	1	12
Mitrella lunata	0	31	5	36
Anachis lafresnayi	0	3	0	3
Odostomia seminuda	0	1	0	1

BIVALVIA					
Nucula proxima		0	24	12	36
Solemya sp. (juvenile)		0	0	1	1
Anadara ovalis		0	1	0	1
Anomia simplex		0	2	0	2
Laevicardium mortoni		0	2	0	2
Tellina agilis		0	5	3	8
Mercenaria mercenaria		0	3	1	4
CRUSTACEA					
Mysidacea sp. (fragment)		0	2	0	2
Cymadusa compta		0	2	0	2
Lembos smithi		0	70	18	88
Corophium tuberculatum		0	8	24	32
Corophium acutum		0	8	1	9
Elasmopus levis		0	15	2	17
Eobrolgus spinosus		1	38	21	60
Palaemonetes vulgaris		0	4	0	4
Hippolyte zostericola		0	6	0	6
Pagurus longicarpus		0	1	0	1
Neopanope sayi		0	24	11	35
TOTAL	54	44	1117	420	1581

STUDY SITE = New Bedford Harbor

STATION = 18 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Platynereis dumerilii		0	2	0	2
Glycera americana		0	1	0	1
Polydora ligni		0	1	0	1
Capitella capitata		2	1	0	3
Heteromastus filiformis		12	19	6	37
Amphitrite ornata		0	1	0	1
GASTROPODA					
Diastoma alternatum		7	7	0	14
Crepidula fornicata		3	5	0	8
Mitrella lunata		7	6	1	14
Nassarius obsoletus		1	0	0	1
CRUSTACEA					
Microdeutopus gryllotalpa		1	0	0	1
Palaemonetes vulgaris		0	2	0	2
Hippolyte zostericola		2	3	0	5
Neopanope sayi		0	1	0	1
TOTAL	14	35	49	7	91

STUDY SITE = New Bedford Harbor

STATION = 19 SAMPLING DATE = 09-09-86

TAXA	REP 1	REP 2	REP 3	SUM
CNIDARIA				
Burrowing Anemone	1	0	0	1
POLYCHAETA				
Eteone heteropoda	1	3	1	5
Phyllodoce arenae	1	0	0	1
Podarke obscura	0	1	0	1
Nereis succinea	1	8	2	11
Platynereis dumerilii	0	1	2	3
Nephtys picta	1	0	0	1
Glycera americana	5	1	0	6
Glycinde solitaria	0	4	2	6
Diopatra cuprea	0	0	2	2
Lumbrineris tenuis	34	20	10	64
Polydora ligni	2	1	5	8
Streblospio benedicti	3	4	2	9
Capitella capitata	1	0	4	5
Heteromastus filiformis	15	26	15	56
Mediomastus ambiseta	2	2	6	10
Pectinaria gouldii	10	9	11	30
GASTROPODA				
Crepidula fornicata	0	71	4	75
Crepidula plana	0	9	0	9
Nassarius trivittatus	1	0	0	1
BIVALVIA				
Anomia simplex	0	2	0	2
Mulinia lateralis	0	6	1	7
Tellina agilis	2	1	1	4
Tellina sp. (juvenile)	9	0	0	9
Mercenaria mercenaria	0	1	0	1
CRUSTACEA				
Leucon americanus	15	10	3	28
Ampelisca vadorum	2	6	1	9
Ampithoe longimana	3	0	0	3
Cymadusa compta	1	0	0	1
Microdeutopus gryllotalpa	5	27	3	35
Corophium tuberculatum	3	0	1	4
Corophium acutum	0	5	0	5
Microprotopus raneyi	6	0	0	6
Neopanope sayi	0	5	1	6
Pinnotheridae sp. (fragment)	1	0	0	1
Pinnixa chaetopterana	0	1	0	1
TOTAL	36	125	224	77	426

STUDY SITE = New Bedford Harbor

STATION = 20 SAMPLING DATE = 09-09-86

TAXA	REP 1	REP 2	REP 3	SUM
POLYCHAETA				
Sthenelais boa	0	0	1	1
Eumida sanguinea	0	0	5	5
Podarke obscura	0	0	1	1
Nereis succinea	2	1	12	15
Nephtys incisa	1	4	1	6
Glycinde solitaria	0	3	2	5
Polydora socialis	0	0	1	1
Polydora websteri	0	0	7	7
Boccardiella hamata	0	0	1	1
Mediomastus ambiseta	1	1	0	2
Pectinaria gouldii	4	1	5	10
Terebellidae sp. (fragment)	0	0	1	1
GASTROPODA				
Crepidula fornicata	0	2	80	82
Crepidula plana	0	0	30	30
Polinices duplicatus	0	1	0	1
Mitrella lunata	0	0	6	6
Odostomia seminuda	0	0	40	40
BIVALVIA				
Anomia simplex	0	0	5	5
Mulinia lateralis	37	25	4	66
Tellina agilis	2	2	1	5
Mercenaria mercenaria	0	5	3	8
CRUSTACEA				
Leucon americanus	1	2	0	3
Ampelisca vadorum	5	3	4	12
Lembos smithi	0	0	1	1
Microdeutopus gryllotalpa	0	0	2	2
Neopanope sayi	0	0	2	2
Pinnotheridae sp. (fragment)	0	1	0	1
TOTAL 27	53	51	215	319

STUDY SITE = New Bedford Harbor

STATION = 21 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Nereis succinea		18	1	6	25
Platynereis dumerilii		1	0	0	1
Diopatra cuprea		1	0	0	1
Polydora ligni		0	0	1	1
Streblospio benedicti		0	0	1	1
Pectinaria gouldii		2	2	1	5
GASTROPODA					
Mitrella lunata		2	0	0	2
Nassarius trivittatus		0	1	2	3
BIVALVIA					
Nucula proxima		0	0	1	1
Mulinia lateralis		39	3	26	68
Tellina agilis		5	3	2	10
Mercenaria mercenaria		0	1	1	2
CRUSTACEA					
Leucon americanus		6	0	1	7
Ampelisca vadorum		4	0	2	6
Microdeutopus gryllotalpa		1	0	0	1
Corophium tuberculatum		3	0	0	3
Microprotopus raneyi		7	0	0	7
TOTAL	17	89	11	44	144

STUDY SITE = New Bedford Harbor

STATION = 22 SAMPLING DATE = 09-09-86

TAXA		REP 1	REP 2	REP 3	SUM
POLYCHAETA					
Eteone heteropoda		1	3	0	4
Eumida sanguinea		0	4	0	4
Podarke obscura		0	2	0	2
Nereis succinea		0	1	1	2
Glycera americana		2	0	3	5
Glycinde solitaria		4	0	1	5
Diopatra cuprea		1	0	0	1
Boccardiella hamata		1	0	0	1
Heteromastus filiformis		0	1	0	1
Maldanidae sp. (fragment)		0	1	0	1
Euclymeninae sp. (fragments)		2	0	0	2
Pectinaria gouldii		4	2	7	13
GASTROPODA					
Crepidula fornicata		4	16	0	20
Crepidula plana		0	4	0	4
Mitrella lunata		0	2	0	2
Nassarius trivittatus		0	0	7	7
Odostomia seminuda		2	17	2	21
BIVALVIA					
Nucula proxima		1	0	0	1
Nucula sp. (juvenile)		1	0	0	1
Anomia simplex		0	4	0	4
Mulinia lateralis		20	7	11	38
Tellina agilis		6	2	1	9
Mercenaria mercenaria		1	2	2	5
Pitar morrhuanus		0	1	1	2
Petricola pholadiformis		0	0	1	1
CRUSTACEA					
Leucon americanus		2	2	0	4
Ampelisca vadorum		3	2	0	5
Lembos smithi		1	0	0	1
Microdeutopus gryllotalpa		0	1	0	1
Corophium tuberculatum		7	0	0	7
Pagurus longicarpus		0	0	1	1
TOTAL	31	63	74	38	175

STUDY SITE = New Bedford Harbor

STATION = 23 SAMPLING DATE = 09-09-86

TAXA	REP 1	REP 2	REP 3	SUM
POLYCHAETA				
Lagisca extenuata	1	0	0	1
Sthenelais boa	1	1	1	3
Eulalia bilineata	1	0	0	1
Eumida sanguinea	11	22	6	39
Phyllodoce arenae	0	3	0	3
Podarke obscura	0	1	0	1
Nereis succinea	5	9	5	19
Glycera americana	2	0	1	3
Glycinde solitaria	2	2	2	6
Polydora ligni	0	0	2	2
Polydora websteri	1	2	0	3
Boccardiella hamata	0	1	0	1
Capitella capitata	0	2	0	2
Heteromastus filiformis	3	6	1	10
Mediomastus ambiseta	1	4	4	9
Euclymeninae sp. (fragments)	0	1	2	3
Pectinaria gouldii	12	27	13	52
Polycirrus eximius	1	0	1	2
GASTROPODA				
Crepidula fornicata	74	184	74	332
Crepidula plana	13	54	28	95
Mitrella lunata	0	2	0	2
Odostomia seminuda	5	201	80	286
BIVALVIA				
Nucula proxima	0	6	2	8
Anomia simplex	5	13	1	19
Mulinia lateralis	2	2	6	10
Tellina agilis	9	10	17	36
Mercenaria mercenaria	1	1	2	4
Periploma papyratium	0	0	2	2
Bivalvia sp. (juvenile)	0	1	0	1
CRUSTACEA				
Leucon americanus	2	0	0	2
Ampelisca vadorum	0	1	0	1
Lembos smithi	0	1	0	1
Microdeutopus gryllotalpa	1	0	0	1
Pagurus longicarpus	1	0	1	2
Neopanope sayi	3	7	4	14
Pinnotheridae sp. (fragment)	0	0	1	1
TOTAL 36	157	564	256	977

STUDY SITE = New Bedford Harbor

STATION = 24 SAMPLING DATE = 09-09-86

TAXA	REP 1	REP 2	REP 3	SUM
NEMERTINEA				
Nemertinea	0	1	0	1
POLYCHAETA				
Sigalionidae	0	0	1	1
Eteone heteropoda	1	0	0	1
Eumida sanguinea	0	20	7	27
Phyllodoce arenae	1	0	0	1
Podarke obscura	2	1	0	3
Exogone dispar	0	1	0	1
Nereis succinea	3	4	1	8
Glycera americana	1	1	1	3
Glycinde solitaria	6	5	0	11
Diopatra cuprea	2	0	0	2
Leitoscoloplos fragilis	1	0	0	1
Orbiniidae sp. (juvenile)	1	0	0	1
Polydora ligni	4	6	0	10
Polydora websteri	0	0	3	3
Prionospio (P.) heterobranchia	1	0	0	1
Boccardiella hamata	1	13	2	16
Capitella capitata	0	1	1	2
Heteromastus filiformis	3	5	1	9
Mediomastus ambiseta	7	5	3	15
Euclymeninae sp. (fragments)	0	1	0	1
Pectinaria gouldii	17	11	13	41
GASTROPODA				
Crepidula fornicata	39	147	136	322
Crepidula plana	13	29	19	61
Mitrella lunata	3	1	10	14
Anachis avara	0	0	1	1
Odostomia seminuda	40	106	205	351
BIVALVIA				
Nucula proxima	1	0	0	1
Nucula sp. (juvenile)	7	1	5	13
Anadara transversa	0	0	1	1
Anomia simplex	1	3	1	5
Mulinia lateralis	0	0	1	1
Tellina agilis	19	31	5	55
Mercenaria mercenaria	4	1	0	5
Pitar morrhuanus	1	0	0	1
Petricola pholadiformis	0	0	1	1
Periploma papyratium	0	1	0	1

CRUSTACEA

Leucon americanus		1	8	0	9
Microdeutopus gryllotalpa		1	0	0	1
Corophium tuberculatum		8	3	0	11
Corophium acutum		0	5	1	6
Elasmopus levis		1	0	0	1
Pagurus longicarpus		4	0	0	4
Neopanope sayi		2	2	5	9
TOTAL	44	196	413	424	1033

STUDY SITE = New Bedford Harbor

STATION = 25 SAMPLING DATE = 09-09-86

TAXA	REP 1	REP 2	REP 3	SUM
POLYCHAETA				
Sthenelais boa	0	1	0	1
Eumida sanguinea	0	15	1	16
Exogone dispar	0	0	1	1
Parapionosyllis longicirrata	1	0	0	1
Nereis succinea	5	11	2	18
Nephtys incisa	0	0	1	1
Glycera americana	0	1	1	2
Glycinde solitaria	2	2	6	10
Polydora websteri	0	1	1	2
Boccardiella hamata	0	1	1	2
Heteromastus filiformis	0	2	1	3
Mediomastus ambiseta	0	3	2	5
Euclymeninae sp. (fragments)	0	0	1	1
Pectinaria gouldii	4	8	5	17
GASTROPODA				
Crepidula fornicata	13	116	9	138
Crepidula plana	3	21	2	26
Odostomia seminuda	14	193	13	220
Acteon punctostriatus	0	1	0	1
BIVALVIA				
Nucula sp. (juvenile)	3	2	1	6
Anomia simplex	0	2	1	3
Mulinia lateralis	8	2	0	10
Tellina agilis	13	7	2	22
Mercenaria mercenaria	1	1	2	4
Pitar morrhuanus	0	0	1	1
CRUSTACEA				
Leucon americanus	0	1	0	1
Microdeutopus gryllotalpa	0	3	0	3
Corophium acutum	0	0	1	1
Pagurus longicarpus	0	1	1	2
Neopanope sayi	0	8	2	10
TOTAL 29	67	403	58	528

STUDY SITE = New Bedford Harbor

STATION = 26 SAMPLING DATE = 09-09-86

TAXA	REP 1	REP 2	REP 3	SUM
NEMERTINEA				
Nemertinea	0	1	1	2
POLYCHAETA				
Lagisca extenuata	0	1	2	3
Sthenelais boa	0	1	0	1
Eulalia bilineata	0	1	0	1
Paranaitis speciosa	0	1	0	1
Eumida sanguinea	7	46	41	94
Phyllodoce arenae	0	0	1	1
Podarke obscura	0	3	15	18
Exogone dispar	1	8	10	19
Nereis succinea	0	3	4	7
Platynereis dumerilii	0	1	0	1
Glycera americana	1	0	6	7
Glycinde solitaria	6	4	4	14
Polydora socialis	0	4	7	11
Polydora quadrilobata	1	0	0	1
Polydora ligni	4	2	12	18
Polydora websteri	0	1	1	2
Streblospio benedicti	3	0	10	13
Boccardiella hamata	4	10	65	79
Tharyx acutus	6	10	9	25
Capitella capitata	4	1	1	6
Heteromastus filiformis	22	3	13	38
Mediomastus ambiseta	18	95	129	242
Euclymeninae sp. (fragments)	1	0	1	2
Pectinaria gouldii	7	16	10	33
Ampharete sp. (fragment)	2	0	0	2
Terebellidae sp. (fragment)	1	0	1	2
Polycirrus eximius	0	1	0	1
OLIGOCHAETA				
Tubificoides spp.	1	0	0	1
GASTROPODA				
Crepidula fornicata	48	327	477	852
Crepidula plana	11	96	155	262
Mitrella lunata	1	5	13	19
Odostomia seminuda	26	276	255	557

BIVALVIA					
Nucula proxima		0	0	2	2
Nucula sp. (juvenile)		0	8	4	12
Anomia simplex		4	20	33	57
Tellina agilis		30	22	31	83
Mercenaria mercenaria		1	0	3	4
Petricola pholadiformis		0	0	1	1
CRUSTACEA					
Ampelisca vadorum		3	0	0	3
Ampelisca verrilli		2	1	0	3
Lembos smithi		2	18	25	45
Microdeutopus anomalus		0	0	5	5
Aoridae sp. (juvenile)		0	0	3	3
Corophium tuberculatum		0	1	3	4
Corophium acutum		2	1	1	4
Upogebia affinis		1	0	0	1
Neopanope sayi		6	33	48	87
Pinnotheridae sp. (fragment)		1	0	0	1
TOTAL	49	227	1021	1402	2650

APPENDIX I

CHAIN OF CUSTODY RECORDS

See Instructions on Reverse
Before Completing Form

CHAIN OF CUSTODY RECORD*

BENTHIC SAMPLES

Benthic GC 1
Copy 1 of 7

Project Number: 944-19 | Project Name: New Bedford Harbor | Sampler (Signature): [signature]

Station/Grid Number and location	Date	Time	Comp	Grab	Number of Containers	Type of Containers	Preservative	Remarks
Station 1	9/9			1	1	1 qt/polyp	Formaldehyde	
" 1	9/9			2	1	"		
" 1	9/9			3	1	"		
" 2	9/9			1	1	"		
" 2	9/9			2	1	"		
" 2	9/9			3	1	"		
" 3	9/9			1	1	"		
" 3	9/9			2	1	"		
" 3	9/9			3	1	.5g poly		
" 4	9/9			1	1	1 qt poly		
" 4	9/9			2	1	"		
" 4	9/9			3	1	"		

1. Relinquished by (Signature):	Date	Time	2. Received by (Signature):	Date	Time	3. Relinquished by (Signature):	Date	Time	4. Received by (Signature):	Date	Time
[signature] Name of Agency/Company HMM	10/5	9/10	[signature] Name of Agency/Company C of E	9/10	1038	[signature] Name of Agency/Company C of E	9/18	1330	[signature] Name of Agency/Company SES	9/18/86	1330
5. Relinquished by (Signature):	Date	Time	6. Received by (Signature):	Date	Time	7. Relinquished by (Signature):	Date	Time	8. Received By		
[signature] Name of Agency/Company SES	10/1/86		Kevin M Avabian Name of Agency/Company			Kevin M Avabian Name of Agency/Company SES			Remarks: [signature]	10/10/86	1037

* Copies filed with appropriate party as completed.

Original [illegible] Linday, HMM Associates, 336 Baker Avenue, Concord, MA 01742

See Instructions on Reverse
Before Completing Form

CHAIN OF CUSTODY RECORD*

BENTHIC SAMPLES

Benthic 001
Copy 1 of 7

Project Number: 944-19 | Project Name: New Bedford Harbor | Sampler (Signature): [signature]

Station/Grid Number and location	Date	Time	Comp	Grab	Number of Containers	Type of Containers	Preservative	Remarks
Station 1	9/9			1	1	1 qt/poly	Formaldehyde	
" 1	9/9			2	1	"		
" 1	9/9			3	1	"		
" 2	9/9			1	1	"		
" 2	9/9			2	1	"		
" 2	9/9			3	1	"		
" 3	9/9			1	1	"		
" 3	9/9			2	1	"		
" 3	9/9			3	1	.5g poly		
" 4	9/9			1	1	1 qt poly		
" 4	9/9			2	1	"		
" 4	9/9			3	1	"		

1. Relinquished by (Signature):	Date	Time	2. Received by (Signature):	Date	Time	3. Relinquished by (Signature):	Date	Time	4. Received by (Signature):	Date	Time
[signature]	10/30	9/10	[signature]	9/10	1430	[signature]	9/8	1330	[signature]	9/8/86	1530
Name of Agency/Company: HMM			Name of Agency/Company: C of E			Name of Agency/Company: C of E			Name of Agency/Company: SES		

5. Relinquished by (Signature):	Date	Time	6. Received by (Signature):	Date	Time	7. Relinquished by (Signature):	Date	Time	8. Remarks:
[signature]	9/9/86		[signature]						
Name of Agency/Company: SES			Name of Agency/Company:			Name of Agency/Company:			

* Copies filed with appropriate party as completed.
Original copy is returned to: John Lindsay, HMM Associates, 336 Baker Avenue, Concord, MA 01742

[illegible] CUSTODY RECORD [illegible] Date [illegible]

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp (#)	Preservative	Date Collected	Time Collected	Collectors Name
5-A		Grab (4)	10% Buffered [illegible]	9/3/86		
5-B		(1)				
5-C		(1)				
6-A		(1)				
6-B		(4)				
6-C		(3)				
7-A		(1)				
7-B		(1)				
7-C		(1)				
8-A		(1)				
8-B		(1)				
8-C		(1)				
9-A		(2)				
9-B		✓ (4)	✓	✓		

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[signature]	Leon M. [illegible]	10/9/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
× Leon M. [illegible]	× Nancy K. [illegible]	10/10/86 1037	- Some [illegible] - [illegible]
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

CHAIN OF CUSTODY RECORD

Date:

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp #	Preservative	Date Collected	Time Collected	Collectors Name
9-C		Grab (3)	10% Buffered Formalin	9/8/86		
10-A		(1)				
10-B		(1)				
10-C		(1)				
11-A		(1)				
11-B		(1)				
11-C		(1)				
12-A		(2)				
12-B		(2)				
12-C		(2)				
13-A		(1)				
13-B		(2)				
13-C		(1)				
14-A		(2)				

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[signature]	Kevin M. Avakian	10/9/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
Kevin M. Avakian	[signature]	10/1/86 1530	- not checked yet
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

Chain of Custody Record Date: ___ ___ ___

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp. #	Preservative	Date Collected	Time Collected	Collectors Name
14-B		Grab (2)	10% Buffered Formalin	9/8		
14-C		(3)		9/8		
15-A		(5)		9/8		
15-B		(2)				
15-C		(2)				
16-A		(1)		9/9		
16-B		(1)				
16-C		(1)				
17-A		(1)				
17-B		(3)		9/9		
17-C		(1)		9/9		
18-A		(1)		9/9		
18-B		(1)		9/9		
18-C		(1)		9/9		

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[illegible]	Kim M. Aubeau	[illegible]	Preserved
Relinquished by: (Signature) Kim M. Aubeau	Received by: (Signature) [illegible]	Date/Time 10/6/86 1531	Sample Conditions: [illegible]
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Reason of Shipment:

MAT - C JDY ORI ate

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp. #	Preservative	Date Collected	Time Collected	Collectors Name
19-A		Grab (1)	10% Buffered Formalin	9/9		
19-B		(2)		9/9		
19-C		(1)		9/9		
20-A		(1)		9/9		
20-B		(1)		9/9		
20-C		(2)		9/9		
21-A		(1)		9/9		
21-B		(1)		9/9		
21-C		(1)		9/9		
22-A		(3)		9/9		
22-B		(1)		9/9		
22-C		(2)		9/9		
23-A		(3)		9/9		
23-B		(3)		9/9		

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[signature]	Kevin M. Avokian	10/8/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
Kevin M Avokian	[signature]	10/10/86	[illegible]
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

CHAIN OF CUSTODY RECORD

Date: [illegible]

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp. #	Preservative	Date Collected	Time Collected	Collectors Name
23-C		Grab (3)	10% Buffered Formal.	9/9		
24-A		(2)				
24-B		(4)				
24-C		(3)				
25-A		(3)				
25-B		(3)				
25-C		(3)				
[illegible]		(3)				
[illegible]		(3)				
[illegible]		(5)				

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[illegible]	[illegible]	[illegible]	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
[illegible]	[illegible]	[illegible]	[illegible]
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

HAI F C DUY COR Dat

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp (#)	Preservative	Date Collected	Time Collected	Collectors Name
5-A		Grab (4)	10% Buffered Formalin	9/8/86		
5-B		(1)				
5-C		(1)				
6-A		(1)				
6-B		(4)				
6-C		(3)				
7-A		(1)				
7-B		(1)				
7-C		(1)				
8-A		(1)				
8-B		(1)				
8-C		(1)				
9-A		(2)				
9-B		(4)				

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[illegible]	Kevin M. Auckear	10/8/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
X	X		
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Reason of Shipment:

CHAIN OF CUSTODY RECORD

Date

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp.*	Preservative	Date Collected	Time Collected	Collectors Name
9-C		Grab (3)	10% Buffered Formalin	9/8/86		
10-A		(1)				
10-B		(1)				
10-C		(1)				
11-A		(1)				
11-B		(1)				
11-C		(1)				
12-A		(2)				
12-B		(2)				
12-C		(2)				
13-A		(1)				
13-B		(2)				
13-C		(1)				
14-A		(2)				

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[signature]	Kevin M. Avakian	10/9/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

HAI F (ODY COF Dat

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp. #	Preservative	Date Collected	Time Collected	Collectors Name
14-B		Grab (2)	10% Buffered Formalin	9/8		
14-C		(3)		9/8		
15-A		(5)		~~9/8~~		
15-B		(2)				
15-C		(2)				
16-A		(1)		9/9		
16-B		(1)				
16-C		(1)				
17-A		(1)				
17-B		(3)		9/9		
17-C		(1)		9/9		
18-A		(1)		9/9		
18-B		(1)		9/9		
18-C		(1)		9/9		

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[signature]	Keom M. Avakian	14/9/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

CHAIN OF CUSTODY RECORD

Date: [illegible]

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp. #	Preservative	Date Collected	Time Collected	Collectors Name
19-A		Grab (1)	10% Buffered Formalin	9/9		
19-B		(2)		9/9		
19-C		(1)		9/9		
20-A		(1)		9/9		
20-B		(1)		9/9		
20-C		(2)		9/9		
21-A		(1)		9/9		
21-B		(1)		9/9		
21-C		(1)		9/9		
22-A		(3)		9/9		
22-B		(1)		9/9		
22-C		(2)		9/9		
23-A		(3)		9/9		
23-B		(3)		9/9		

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[signature]	Kevin M. Avakian	10/9/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

HAI F C ODY COR Dat. 1

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp. #	Preservative	Date Collected	Time Collected	Collectors Name
23-C		Grab (3)	10% Buffered Formalin	9/9		
24-A		(2)				
24-B		(4)				
24-C		(3)				
25-A		(3)				
25-B		(3)				
25-C		(3)				
26-A		(3)				
26-B		(3)				
26-C		(5)				

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
[signature]	Kevin M. Avakian	10/9/86	Preserved
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

NEW BEDFORD HARBOR SEDIMENT

CHAIN OF CUSTODY RECORD

Record No: /

Date:

Sample Designation	Analysis Required	Type of Sample Grab 1 Comp.	Preservative	Date Collected	Time Collected	Collectors Name

Relinquished by: (signature)	Received by: (signature)	Date/Time	Sample Conditions:
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Sample Conditions:

Method of Shipment:

See Instructions on Reverse
Before Completing Form

CHAIN OF CUSTODY RECORD*

BENTHIC SAMPLES

Benthic 001
Copy 5 of 7

Project Number:				Project Name:				Sampler (Signature):
Station/Grid Number and location	Date	Time	Comp	Grab	Number of Containers	Type of Containers	Preservative	Remarks

1. Relinquished by (Signature):	Date	Time	2. Received by (Signature):	Date	Time	3. Relinquished by (Signature):	Date	Time	4. Received by (Signature):	Date	Time
Name of Agency/Company			Name of Agency/Company			Name of Agency/Company			Name of Agency/Company		
5. Relinquished by (Signature):	Date	Time	6. Received by (Signature):	Date	Time	7. Relinquished by (Signature):	Date	Time	8. Remarks:		
Name of Agency/Company			Name of Agency/Company			Name of Agency/Company					

* Copies filed with appropriate party as completed.
Original copy is returned to: John Lindsay, HMM Associates, 336 Baker Avenue, Concord, MA 01742

APPENDIX II

COMMENTS ON SAMPLES AND SPECIMENS COLLECTED FROM NEW BEDFORD HARBOR, MASSACHUSETTS ON SEPTEMBER 8-9, 1986

General Notes

It is highly probably that a small (0.5-2 mm) gastropod species, Odostomia seminuda, was not sorted from a number of samples. This error was discovered during our quality control check of the sample processing. Unfortunately, this error was not corrected until approximately one half of the sorted samples were determined to pass our quality check and discarded. After this error was discovered, the remaining samples (Stations 1, 2, 3, 4, 15, 18, 20, 21, 22, 23, 24, 25, 26, and Samples 13-A, 13-B, 14-B, 16-C) were carefully checked for this gastropod species. Based upon the location of the stations, we do not believe that O. seminuda was prevalent at Stations 5-12. (O. seminuda was present only at Station 8.) However, the abundances of O. seminuda recorded for Samples 13-C, 14-A, 14-C, 16-A, 16-B, 17-A, 17-B, 17-C, 19-A, 19-B, and 19-C are questionable. Although O. seminuda was one of the dominant species in this study, we recommend that this species should be omitted from further data analyses. If you have any questions or want additional information, please contact Tim Morris (Quality Control Officer).

Enclosed is a list of epifaunal macroinvertebrates (i.e., fouling organisms or organisms associated with fouling species). Tradditionally, epifauna are omitted from studies of infaunal species because benthic grab samplers do not adequately sample epibenthic organisms. In addition to grab samplers, other sampling methodologies and devices are necessary to accurately assess epifaunal communities.

Some reference vials were erroneously labeled as New Bedford, Connecticut.

Notes On Individual Samples

Stations 1-4: 0.04 m^2 Van Veen grabs.

Stations 5-26: 0.1 m^2 Smith-MacIntyre grabs.

Station 16 had only two replicates; there was no replicate 16-C. Material identified from Sample 17-A would appear to have come from Station 16 since it was very different from replicates 17-B and 17-C.

Station 22-C had three jars, not two as recorded on the log sheet.

Stations 2, 4, 5, 6: Many *Streblospio benedicti* were ovigerous.

Stations 3-1, 3-3, 4-1, 14-A, 15, 26-B, 26-C: *Hydroides dianthus* worms and tubes were present, but not counted since this is an epifaunal species.

Stations 13-B, 13-C: *Serpulidae* sp. (juvenile), probably *Hydroides dianthus* present, but not counted.

Stations 6-C, 12-B, 19-B, 19-C: *Pectinaria gouldii* very large.

Station 17: *Nucula proxima* are record size large.

Stations 19-B, 19-C: *Heteromastus filiformis* very large.

Station 19: *Tellina* sp. (juvenile), probably *Tellina agilis*, but too small to identify with certainty.

Station 24: *Mercenaria mercenaria*, one very large, all other specimens less than 2 mm.

LIST OF EPIFAUNAL MACROINVERTEBRATES

Cnidaria
- *Sessile anemone*

Polychaeta
- *Boccardiella hamata**
- *Dodecaceria concharum**
- *Polydora websteri**
- *Hydroides dianthus***
- *Serpulidae* sp. (juvenile)**

Mollusca
- *Anomia simplex***
- *Crepidula fornicata***
- *Crepidula plana***

Amphipoda
- *Ampithoe longimana*
- *Cymadusa compta*
- *Dyopedos monacanthus*
- *Jassa falcata*
- *Lembos smithi*
- *Microdeutopus anomalus*
- *M. gryllotalpa*
- *Paracaprella tenuis*
- *Rudilemboides naglei*

Decapoda
- *Hippolyte zostericola*
- *Palaemonetes vulgaris*
- *Neopanope sayi*
- *Pagurus longicarpus*

*Shell-boring species
**Sessile species

APPENDIX III

BENTHIC INVERTEBRATE SPECIES LIST

BENTHIC INVERTEBRATE SPECIES LIST

NEW BEDFORD, MA. 8-9 SEPTEMBER, 1986

Prepared November, 1986 by COVE CORPORATION, Lusby, MD.

TAXA	SPECIES CODE (NODC)
POLYCHAETA	
Ampharetidae	5001670000
Ampharete sp. (fragment)	5001670200
Arabellidae	5001330000
Drilonereis longa	5001330103
Capitellidae	5001600000
Capitella capitata	5001600101
Heteromastus filiformis	5001600201
Mediomastus ambiseta	5001600401
Chaetopteridae	5001490000
Spiochaetopterus costarum	5001490302
Cirratulidae	5001500000
Cirratulidae sp. (juvenile)	5001509999
Cirratulidae sp. (fragment)	5001500000
Cirriformia grandis	5001500104
Dodecaceria concharum	5001500501
Tharyx acutus	5001500305
Dorvilleidae	5001360000
Schistomeringos rudolphi	5001360504
Eunicidae	5001300000
Eunicidae sp. (juvenile)	5001309999
Glyceridae	5001270000
Glycera americana	5001270104
Goniadidae	5001280000
Glycinde solitaria	5001280104
Hesionidae	5001210000
Microphthalmus aberrans	5001210202
Podarke obscura	5001211502
Lumbrineridae	5001310000
Lumbrineris acicularum	5001310149
Lumbrineris tenuis	5001310113

Maldanidae	5001630000
Euclymeninae sp. (fragment)	5001639999
Maldanidae sp. (fragment)	5001630000
Nephtyidae	5001250000
Nephtys incisa	5001250115
Nephtys picta	5001250117
Nereidae	5001240000
Nereis acuminata	5001240417
Nereis succinea	5001240410
Nereis sp. (juvenile)	5001240499
Nereis virens	5001240412
Platynereis dumerilii	5001240503
Onuphidae	5001290000
Diopatra cuprea	5001290201
Orbiniidae	5001400000
Leitoscoloplos fragilis	5001400104
Leitoscoloplos sp. (fragment)	5001400100
Leitoscoloplos sp. (juvenile)	5001400199
Orbiniidae sp. (juvenile)	5001409999
Pectinariidae	5001660000
Pectinaria gouldii	5001660302
Phyllodocidae	5001130000
Eteone heteropoda	5001130207
Eulalia bilineata	5001130304
Eumida sanguinea	5001131101
Eumida sp. (juvenile)	5001131199
Paranaitis speciosa	5001130801
Phyllodoce arenae	5001131410
Phyllodoce sp. (juvenile)	5001131499
Polynoidae	5001020000
Lagisca extenuata	5001020803
Lepidonotus sublevis	5001021104
Lepidonotus sp. (juvenile)	5001021199
Sabellidae	5001700000
Potamilla sp. (fragment)	5001700600
Sabellidae sp. (fragment)	5001709999
Serpulidae	5001730000
Hydroides dianthus	5001730901
Serpulidae sp. (juvenile)	5001739999
Sigalionidae	5001060000
Sigalionidae sp. (fragment)	5001060000
Sthenelais boa	5001060302
Spionidae	5001430000
Boccardiella hamata	5001432801

Polydora ligni	5001430411
Polydora socialis	5001430402
Polydora quadrilobata	5001430408
Polydora websteri	5001430412
Polydora sp. (fragment)	5001430400
Prionospio (P.) heterobranchia	5001430503
Spio setosa	5001430704
Spio sp. (fragment)	5001430700
Spiophanes bombyx	5001431001
Streblospio benedicti	5001431801
Syllidae	5001230000
Autolytus alexandri	5001230107
Autolytus sp.	5001230100
Brania wellfleetensis	5001230903
Exogone dispar	5001230701
Odontosyllis fulgurans	5001231304
Parapionosyllis longicirrata	5001231701
Terebellidae	5001680000
Amphitrite ornata	5001680102
Polycirrus eximius	5001680804
Terebellidae sp. (fragment)	5001680000

MOLLUSCA

BIVALVIA

Bivalvia sp. (juvenile)[1]	5599999999
Anomiidae	5509090000
Anomia simplex	5509090202
Arcidae	5506010000
Anadara transversa	5506010201
Anadara ovalis	5506010202
Cardiidae	5515220000
Laevicardium mortoni	5515220401
Lyonsiidae	5520050000
Lyonsia hyalina	5520050206
Mactridae	5515250000
Mulinia lateralis	5515250301
Myidae	5517010000
Mya arenaria	5517010201
Nuculidae	5502020000
Nucula proxima	5502020204
Nucula sp. (juvenile)	5502020299

Periplomatidae	5520070000
Periploma papyratium	5520070104
Petricolidae	5515480000
Petricola pholadiformis	5515480102
Pholadidae	5518010000
Pholadidae sp. (fragment)[2]	5518010000
Solecurtidae	5515330000
Tagelus divisus	5515330202
Solemyacidae	5504010000
Solemya sp. (juvenile)	5504010199
Solenidae	5515290000
Ensis directus	5515290301
Tellinidae	5515310000
Macoma balthica	5515310116
Tellina agilis	5515310205
Tellina sp. (juvenile)	5515310299
Thraciidae	5520080000
Thracia sp. (juvenile)	5520080299
Veneridae	5515470000
Gemma gemma	5515471301
Mercenaria mercenaria	5515471101
Pitar morrhuanus	5515471201
GASTROPODA	
Gastropoda sp. 1 (juvenile)[3]	519999999
Gastropoda sp. 2 (juvenile)	519999998
Acteocinidae	5110040000
Acteocina canaliculata	5110040103
Acteonidae	5110010000
Acteon punctostriatus	5110010101
Calyptraeidae	5103640000
Crepidula fornicata	5103640204
Crepidula plana	5103640207
Cerithiidae	5103460000
Diastoma alternatum	5103460105
Columbellidae	5105030000
Anachis avara	5105030301
Anachis lafresnayi	5105030306
Anachis sp. (juvenile)	5105030399
Mitrella lunata	5105030207

Muricidae	5105010000
Urosalpinx sp. (juvenile)	5105010399
Nassariidae	5105080000
Nassarius trivittatus	5105080103
Nassarius obsoletus	5105080104
Naticidae	5103760000
Polinices duplicatus	5103760407
Pyramidellidae	5108010000
Odostomia seminuda	5108010135
Odostomia bisuturalis (sensu Abbott, 1974)	5108010127

CRUSTACEA

AMPHIPODA

Ampeliscidae	6169020000
Ampelisca vadorum	6169020109
Ampelisca verrilli	6169020110
Aoridae	6169060000
Aoridae sp. (juvenile)	6169069999
Lembos smithi	6169060303
Microdeutopus anomalus	6169060402
Microdeutopus gryllotalpa	6169060401
Rudilemboides naglei	6169060801
Ampithoidae	6169040000
Ampithoe longimana	6169040115
Cymadusa compta	6169040201
Caprellidae	6171010000
Paracaprella tenuis	6171010901
Corophiidae	6169150000
Corophium acherusicum	6169150201
Corophium acutum	6169150213
Corophium insidiosum	6169150211
Corophium tuberculatum	6169150207
Corophium sp. (juvenile)	6169150299
Isaeidae	6169260000
Microprotopus raneyi	6169260901
Ischyroceridae	6169270000
Jassa falcata	6169270302
Melitidae	6169580000
Elasmopus levis	6169210301
Phoxocephalidae	6169420000
Eobrolgus spinosus	6169420928

Rhepoxynius hudsoni	6169421502
CUMACEA	
Leuconidae	6154040000
Leucon americanus	6154040110
ISOPODA	
Idoteidae	6162020000
Edotea triloba	6162020703
Erichsonella filiformis	6162020602
MYSIDACEA	
Mysidacea sp. (fragment)	6151000000
STOMATOPODA	
Squillidae	6191010000
Squilla empusa	6191010101
DECAPODA	
ANOMURA	
Paguridae	6183060000
Pagurus longicarpus	6183060230
Upogebiidae	6183040000
Upogebia affinis	6183040102
BRACHYURA	
Pinnotheridae	6189060000
Pinnixa chaetopterana	6189060405
Pinnotheridae sp. (fragment)	6189060000
Xanthidae	6189010000
Neopanope sayi	6189020703
CARIDEA	
Crangonidae	6179220000
Crangon septemspinosa	6179220103
Hippolytidae	6179160000
Hippolyte zostericola	6179160104
Palaemonidae	6179110000
Palaemonetes vulgaris	6179110304

MISCELLANEOUS

Nemertinea	4300000000
Oligochaeta	5004000000
Tubificoides spp.	5009020900
Burrowing Anemone	3740000001
Sessile Anemone	3740000002
Echinodermata	8100000000
Havelockia scabra	8172040201

Taxonomic Notes:

1. Unidentified broken shell.
2. Probably Cyrtopleura costata.
3. Unidentified juvenile "bubble" shell.