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New Bedford Harbor Long Term Monitoring Survey IV: Summary Report

Submitted to

U.S. Army Corps of Engineers, New England District
696 Virginia Road
Concord, Massachusetts 01742-2751

Prepared by

Battelle
The Business of Innovation

Under

Contract No. DACW33-03-D-0004

Delivery Order 10

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Table of Contents

1. INTRODUCTION 1
2. METHODS 3
2.1 Quality Assurance 3
2.2 Field Methods 3
2.3 Laboratory Methods 7
2.3.1 Chemical Analyses 7
2.3.2 Physical Analyses 8
2.3.3 Toxicity Testing 9
2.3.4 Benthic Biology Analysis 11
3. RESULTS 11
3.1 Water Quality 11
3.2 Sediment Characterization 12
3.2.1 Grain Size 12
3.2.2 Total Organic Carbon 14
3.3 Contaminant Chemistry 16
3.3.1 Polychlorinated Biphenyls 16
3.3.2 Metals 20
3.3.3 Acid Volatile Sulfides 20
3.4 Sediment Toxicity 23
3.5 Benthic Fauna 25
3.5.1 Area 1 (Upper Harbor) 27
3.5.2 Area 2 (Lower Harbor) 27
3.5.3 Area 3 (Outer Harbor) 28
4. DISCUSSION AND CONCLUSIONS 29
5. REFERENCES 31

List of Tables

Table 1. Laboratory Methods Used for Chemical Analyses of Samples Collected for the 2004 New Bedford Harbor LTM IV Survey. 7
Table 2. New Bedford Harbor Sediment Collection and Test Series Dates. 9
Table 3. Species Richness and Total Density in the Three Areas of New Bedford Harbor. 25
Table 4. Dominant Species in NBH Area 1 (Upper Harbor) 27
Table 5. Dominant Species in NBH Area 2 (Lower Harbor). 28
Table 6. Dominant Species in NBH Area 3 (Outer Harbor). 29

List of Figures

Figure 1. Map of the New Bedford Harbor LTM IV sampling area. 4
Figure 2. Map of each of the New Bedford Harbor LTM IV sampling areas. 5
Figure 3. Percent Gravel, Sand, and Silt+Clay at New Bedford's Upper, Lower, and Outer Harbors. Surface (0-4 cm) Sediments. 13
Figure 4. Boxplot of Total Organic Carbon at New Bedford's Upper, Lower, and Outer Harbors. Surface (0-4 cm) Sediments. 14
Figure 5. Total Organic Carbon at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface. 15
Figure 6. Total Organic Carbon vs. Percent Fines at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface. 16
Figure 7. Boxplot of Total PCB Concentrations (log scale) at New Bedford's Upper, Lower, and Outer Harbors. Surface (0-4 cm) Sediments. 17
Figure 8. Total PCB's as the Sum of NOAA 18 Congeners at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface. 18
Figure 9. Map of total PCB's at Each Station, as the Sum of NOAA 18 Congeners, in New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface. 19
Figure 10. Boxplot of Cadmium, Copper, and Lead Concentrations at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface. 21
Figure 11. Map of Copper Concentrations at Each Station in New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface. 22
Figure 12. Boxplot of AVS Concentrations at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface. 23
Figure 13. Map Showing Percent Survival of *Ampelisca abdita* in Toxicity Tests of the 2004 New Bedford Harbor Sediments. 24
Figure 14. Map Showing Total Number of Species Identified from the 2004 New Bedford Harbor LTM IV Survey. 26
Figure 15. Average Number of Individuals per Grab. 31

Appendices

Appendix 1 Station Data from the 2004 NBH LTM IV Survey
Appendix 2 Water Quality Data from the 2004 NBH LTM IV Survey
Appendix 3 Sediment Grain-Size Data from the 2004 NBH LTM IV Survey
Appendix 4 TOC Data from the 2004 NBH LTM IV Survey
Appendix 5 PCB Data
5a. Total PCBs Data from the 2004 NBH LTM IV Survey
5b. NOAA PCB Congeners Data from the 2004 NBH LTM IV Survey
Appendix 6 Inorganics Data from the 2004 NBH LTM IV Survey
Appendix 7 Acid Volatile Sulfides (AVS) Data from the 2004 NBH LTM IV Survey
Appendix 8 Toxicity Testing Results: 2004 NBH LTM IV Survey (*Ampelisca Abdita* 10-Day Sediment Toxicity Test Results)
Appendix 9 Species Identified from the 2004 New Bedford Harbor Samples
Appendix 10 Benthic Infaunal Data from the 2004 NBH LTM IV Survey

1. INTRODUCTION

The New Bedford Harbor Superfund Site, located in Bristol County, Massachusetts, extends from the shallow northern reaches of the Acushnet River estuary south through the commercial harbor of New Bedford and into 17,000 adjacent acres of Buzzards Bay. Industrial and urban development surrounding the harbor has resulted in sediments becoming contaminated with high concentrations of many pollutants, notably polychlorinated biphenyls (PCBs) and heavy metals, with contaminant gradients decreasing from north to south. From the 1940s into the 1970s two electrical capacitor manufacturing facilities, one located near the northern boundary of the site and one located just south of the New Bedford Harbor hurricane barrier, discharged PCB wastes either directly into the harbor or indirectly via discharges to the city's sewerage system. The site has been divided into three areas – the upper, lower and Outer Harbors – consistent with geographical features of the area and gradients of contamination. The site is also defined by three state-sanctioned fishing closure areas extending approximately 6.8 miles north to south and encompassing approximately 18,000 acres in total.

The City of New Bedford, located along the western shore of the site, is approximately 55 miles south of Boston. During most of the 1800s, New Bedford was a world renowned center of the whaling industry and attracted a large community of immigrants from Portugal and the Cape Verde islands. Including the neighboring towns of Acushnet, Fairhaven and Dartmouth, the combined 2000 population was approximately 151,000. New Bedford is currently home port to a large offshore fishing fleet and is a densely populated manufacturing and commercial center. By comparison, the eastern shore of New Bedford Harbor is predominantly residential or undeveloped.

The Acushnet River's 16.5 square mile (43 km^2) drainage basin (VHB, 1996) discharges to New Bedford Harbor in the northern reaches of the Site, contributing relatively minor volumes of fresh water to the tidally influenced harbor. Numerous storm drains, combined sewer overflows (CSOs) and industrial discharges as well as smaller brooks and creeks also discharge directly to the site. The Upper and Lower Harbors are believed to be areas of net groundwater discharge and are generally described as a shallow, well-mixed estuary. The Upper Harbor comprises approximately 187 acres. A large (approximately 70 acre) saltmarsh system has formed along almost the entire eastern shore of the Upper Harbor. Prior to the removal of the most contaminated hot spot sediments in 1994 and 1995 as part of EPA's first cleanup phase (see Section 1.3), sediment PCB levels were reported higher than 100,000 ppm in the Upper Harbor. The boundary between the Upper and Lower Harbor is the Coggeshall Street Bridge where the width of the harbor narrows to approximately 100 feet. The Lower Harbor comprises approximately 750 acres. The boundary between the Lower and Outer Harbor is the 150 foot wide opening of the New Bedford hurricane barrier. (The hurricane barrier was constructed in the mid-1960s). Sediment PCB levels in the Outer Harbor are generally low, with only localized areas of elevated PCBs near the Cornell-Dubilier plant and the City's sewage treatment plant's outfall pipes. The southern extent of the Outer Harbor and the Site is an imaginary line drawn from Rock Point (the southern tip of West Island in Fairhaven) southwesterly to Negro Ledge and then southwesterly to Mishaum Point in Dartmouth.

Identification of PCB-contaminated sediments and seafood in and around New Bedford Harbor was first made in the mid 1970s as a result of EPA region-wide sampling programs. Total PCB usage in New Bedford at this time was around two million pounds per year (Nelson et al., 1996). In 1978, the manufacture and sale of PCBs was banned by the federal Toxic Substance Control

Act (TSCA). In 1979, the Massachusetts Department of Public Health promulgated regulations prohibiting fishing and lobstering throughout the Site due to elevated PCB levels in area seafood. Elevated levels of heavy metals in sediments (notably cadmium, chromium, copper and lead) were also identified during this time frame. Due to these concerns, the Site was proposed for the Superfund National Priorities List (the NPL) in 1982, and finalized on the NPL in September 1983. Pursuant to 40 CFR 300.425(c) (2), the Commonwealth of Massachusetts (the Commonwealth) nominated the Site as its priority site for listing on the NPL.

EPA's site-specific investigations began in 1983 and 1984 with the Remedial Action Master Plan (Weston, 1983) and the Acushnet River Estuary Feasibility Study (NUS, 1984). Site investigations continued throughout the rest of the 1980s and early 1990s, including a pilot dredging and disposal study in 1988 and 1989 (Otis et al., 1990), which field tested different dredging and disposal techniques for Upper Harbor sediments, and extensive physical and chemical computer modeling of the Site (Battelle, 1990). These site studies are summarized in more detail in the Record of Decision (ROD) for the Upper and Lower Harbor areas of the site (EPA, 1998). Collectively, these investigations identified the Aerovox facility as the primary source of PCBs to the Site. PCB wastes were discharged from Aerovox's operations directly to the Upper Harbor through open trenches and discharge pipes, or indirectly throughout the Site via CSOs and the City's sewage treatment plant outfall. Secondary inputs of PCBs were also made from the Cornell-Dubilier Electronics, Inc. (CDE) facility just south of the New Bedford hurricane barrier.

In April 1990, EPA issued the ROD for the hot spot operable unit of the Site. The hot spot ROD called for dredging and on-site incineration of the Site's most highly PCB-contaminated sediments located adjacent to the Aerovox facility. The ROD specified a 4,000 ppm PCB level to define the sediments to be dredged (sediments below this 4,000 ppm threshold were to be left in place pending subsequent cleanup plans). Dredging of these sediments – about 14,000 cubic yards (cy) in volume and 5 acres in area – began in April 1994 and was completed in September 1995. However, due to a vehement reversal in local support for on-site incineration during the initial mobilization stage, EPA suspended the incineration component of the hot spot remedy (EPA, 1995). The dredged hot spot sediments were therefore placed in interim storage in a shoreline confined disposal facility (CDF) near Sawyer Street in New Bedford, and ultimately transported in 1999 to an offsite TSCA landfill. In September 1998, EPA issued ROD 2, the ROD for the upper and Lower Harbor operable unit (EPA, 1998). ROD 2 called for the dredging of approximately 450,000 cy of PCB-contaminated sediments, and disposal in four shoreline CDFs.

In August 2002 EPA issued a change to the 1998 harbor cleanup plan using a process known as an Explanation of Significant Difference (ESD) (EPA 2002). This ESD eliminates CDF "D", the largest of the four CDFs (confined disposal facilities), and instead sends the dredged sediment slated for it to an offsite landfill. This ESD as well as other site information is available for review at the New Bedford Free Public Library (reference section) and at EPA's Boston records center. Other site information is also available online at the New Bedford Harbor web site (epa.gov/ne/nbh).

In order to assess the effectiveness of the New Bedford Harbor Superfund remediation efforts, a long term environmental monitoring plan has been developed by the U.S. Environmental Protection Agency's Research Laboratory, Atlantic Ecology Division in Narragansett, Rhode Island (AED). This plan incorporates an intensive sampling and analysis effort for the purpose of

quantifying the long-term environmental effects of reduced PCB levels in the sediments and water column of the New Bedford Harbor estuary as a result of remediation efforts. The three previous sampling rounds for this program include the "baseline" sampling event conducted in October 1993 (LTM I), a second event (LTM II) conducted immediately after removal of the "hot spot" sediments in October of 1995 and a third event conducted in 1999 (LTM III). This Summary Report describes the results of the sampling activities conducted under the fourth round of sampling and analysis conducted in 2004 (LTM IV). This work was performed by Battelle for the Corps of Engineers New England district (USACE NAE). Normandeau Associates participated in the collection activities as a subcontractor to Battelle

2. METHODS

2.1 Quality Assurance

Quality Assurance (QA) for this project is presented in detail in the Quality Assurance Project Plan (QAPP) developed for the LTM IV survey (Battelle 2004).

2.2 Field Methods

The sampling effort followed the original format that was developed as part of the Environmental Monitoring and Assessment Program (EMAP).

Area 1 – Wood Street to the Coggeshall Street Bridge (27 stations)
Area 2 – Coggeshall Street Bridge to Hurricane Barrier (29 stations)
Area 3 – Hurricane Barrier to edge of Fishing Closure Area 3 (23 stations)

The overall objective of LTM IV was to gather chemical, biological, and physical data for sediments just prior to the initiation of full-scale dredging that took place in late 2004. Sampling was conducted at 79 separate stations located in the three distinct geographical areas of New Bedford Harbor. Within each of the three areas a hexagonal sampling grid was established by EPA AED. The sampling grid and station locations for the entire effort are shown in Figure 1. Because the areas in each of the three areas become progressively larger, the hexagonal sampling grid is proportionally adjusted to obtain representative sampling. The hexagons in Area 1 have a radius (center to side mid-point) of 88m, in Area 2 the radius of each hexagon is 175m, and the hexagons in Area 3 have a radius of 793m. This distribution of sample locations and the sample ID numbers can be seen in Figure 2. Station Data is provided in Appendix 1.

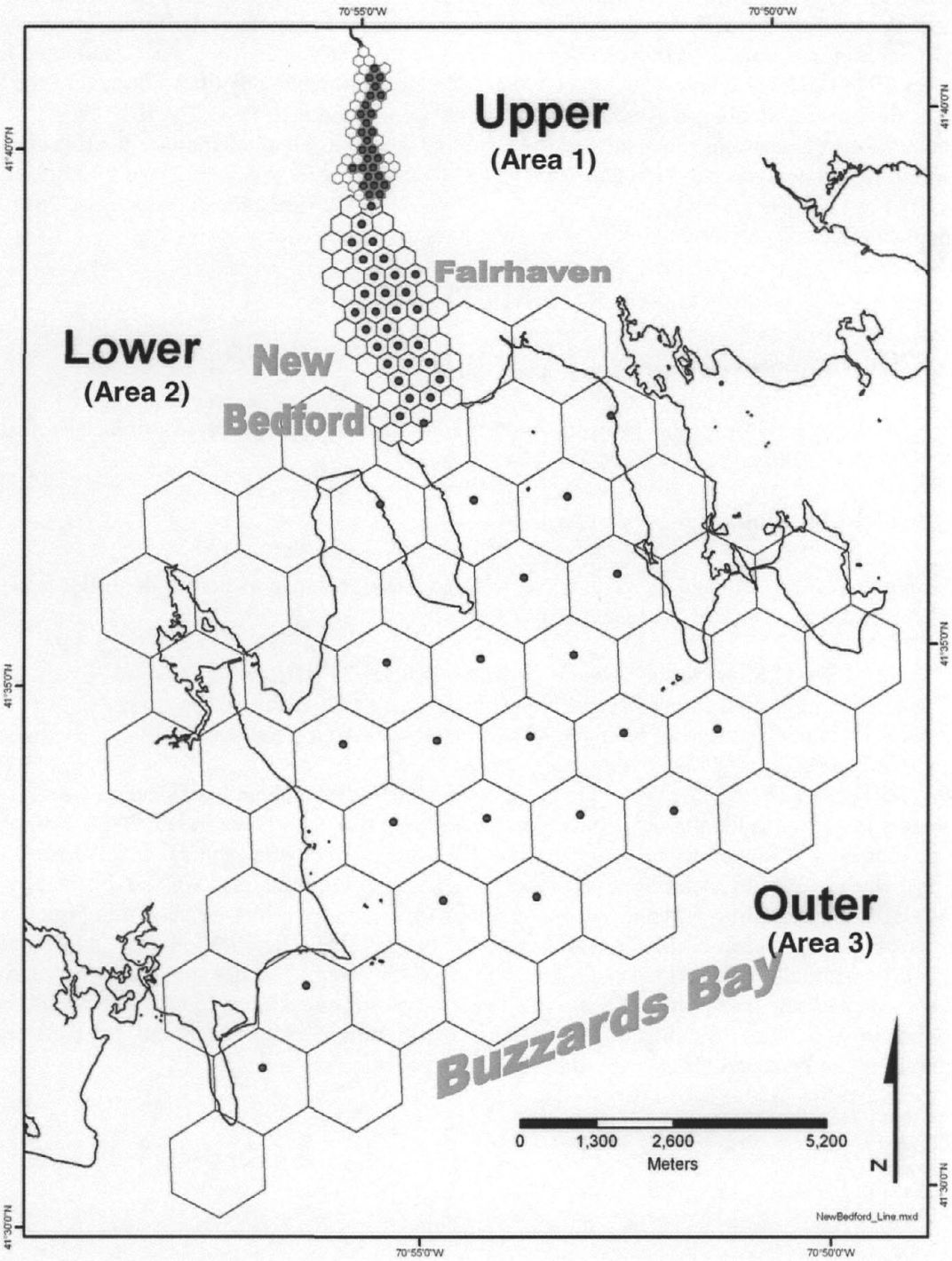

Figure 1. Map of the New Bedford Harbor LTM IV sampling area. Hexagons with center dot represent station locations.

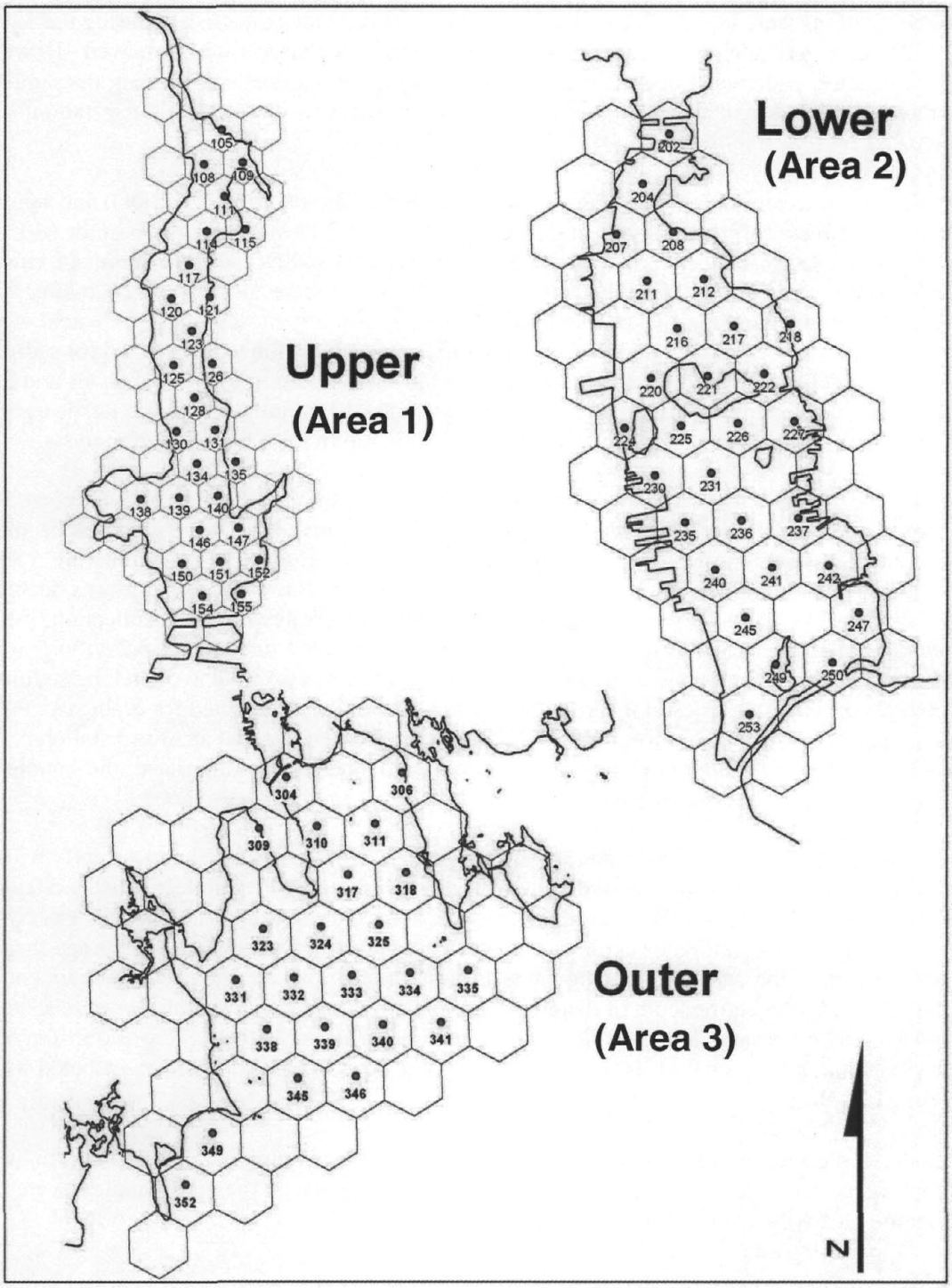

Figure 2. Map of each of the New Bedford Harbor LTM IV sampling areas. Station numbers are shown for each of the sampled locations. Note: areas are not shown to scale, refer to Figure 1 for reference.

Navigation was performed using a Trimble NT 300D Differential Global Positioning System (DGPS). Stations were initially located using the target coordinates established during the 1993 and 1995 surveys (Appendix A of the QAPP). In general, these targets were achieved. However, where obstacles, underwater debris, or unacceptable sampling material was present, the sampling was moved to the nearest acceptable location. All sample locations were within the station hexagon.

At each station, water quality measurements of temperature, dissolved oxygen (DO) and salinity were taken ~1 meter off the bottom using an OS Model 200 CTD water quality monitor with a Seabird Model 43 DO probe, or a Hydrolab Surveyor 4a CTD and DO sensor. Sediment samples at each station were collected for the analysis of PCB congeners, metals (copper, cadmium, lead, arsenic, chromium, mercury, nickel, zinc, and selenium), total organic carbon (TOC), acid volatile sulfides (AVS), and grain size. One sample from each station was collected for sediment toxicity. Three benthic biology samples were collected at each station: two for analysis and one for archival. One additional sample was collected from the 30 stations outside the hurricane barrier. These samples were archived frozen for possible future PCB homologue analysis.

Grab samples for chemistry analysis were collected at all of the stations using a Kynar coated 0.1-m^2 Van Veen grab sampler. Each grab was inspected for acceptability. If the grab was deemed unacceptable it was discarded over the opposite side of the vessel to avoid contaminating subsequent samples and the equipment was washed with site water. Once the grab was deemed acceptable, the AVS sample was collected from the top 2 cm. Following AVS collection, the remainder of the top 2 cm was transferred to a pre-decontaminated stainless steel 2 gallon mixing bowl using a pre-decontaminated stainless steel spoon. Care was taken to avoid taking sediment which had contacted the sides of the grab. Sufficient material was collected for grain size, PCBs, metals, toxicity, AVS, and archive samples (archives were only collected at Area 3 stations). When the bowl reached approximately ¾ full (after approximately 4-5 full grabs), the sample was thoroughly homogenized and subdivided into the remaining sample containers.

Grab samples for infauna analysis, and associated grain size, were collected concurrently with the grabs for compositing described above. The infauna grab samples were collected using a 0.04-m^2 Van Veen grab sampler. Triplicate grabs were taken at each of the stations. Once the grab was deemed acceptable, a grain size sample was collected by inserting an open ended syringe through the entire depth of the core and drawing the sediment out, thereby capturing a small sediment core representing the entire depth of the grab. The remaining material was transferred to a sieving station and passed through a 0.5mm sieve. All material remaining in the sieve was transferred to clean plastic jar, preserved with 10% formaldehyde and Rose Bengal solution, and labeled with preprinted labels.

For both the sediment and infauna grabs, the vessel was moved slightly while on station to avoid resampling the same location. After the each station was completed, the grab samplers were decontaminated with soap and water and rinsed with site water.

2.3 Laboratory Methods

2.3.1 Chemical Analyses

PCB analysis was performed by Battelle in Duxbury, Massachusetts. Analyses of metals and AVS samples were performed by Battelle Marine Sciences Laboratory in Sequim, Washington. Analysis of TOC was performed by Applied Marine Sciences, Inc., League City, Texas. Table 1 summarizes the analytical methods that were used. Standard operating procedures (SOPs) employed by each lab are referenced below and in Table 1 and are provided in Appendix D of the QAPP.

Table 1. Laboratory Methods Used for Chemical Analyses of Samples Collected for the 2004 New Bedford Harbor LTM IV Survey.

Analyte Group	Laboratory SOP No.	Equivalent EPA Method No.
PCBs	5-192 (extraction) 5-191 (HPLC extract purification) 5-128 (analysis)	NOAA Status and Trends (NOAA 1993)
Metals (Cu, Cr, Pb, Ni, Zn, As, Cd)	MSL-I-006 (digestion) MSL-I-022 (ICP-MS) MSL-I-033 (ICP-OES)	EPA Method 1638 and 200.8 modified SW-846 6010b
Metals (Se)	MSL-I-006 (digestion) MSL-I-030 (Hydride Generation AA)	EPA Method 270.3 and 7742 modified
Mercury	MSL-I-006 (digestion) MSL-I-016	EPA Method 245.5 modified
TOC	AMS SOP 2201	SW-846 9060, modified (EPA, 1986)
Percent Solids	5-192	SM 2540G (APHA-AWWA-WPCF, 1992)
AVS	MSL-C-001 (preparation and analyses)	Modified and Adapted from Allen et al. (1991) and Cutter and Oates (1987)

PCBs

Extracts were analyzed using a gas chromatography/electron capture detector (GC/ECD) following general NOAA Status and Trends (NS&T) methods. Sample data was quantified by the method of internal standards, using the Recovery Internal Standard (RIS) compounds (SOP 5-128). Qualitative second column confirmation was performed. PCB results were Surrogate Internal Standard (SIS) corrected.

As used in this report, "total PCBs" refers to the sum of the eighteen congeners quantified following the NOAA Status and Trends program. It should be noted that this is in contrast to the upper and lower New Bedford Harbor site sediment monitoring, which uses a site-specific correlation factor to transform the NOAA 18 congeners to a total PCB value based on total PCB homologue groups (FWEC, 2001).

Under this correlation approach, the total of the eighteen NOAA congeners is multiplied by a site specific factor for the upper and lower harbor of 2.6 to arrive at a reported total PCB value. This correlation factor is based on a parallel site sampling program that correlated (and continues to correlate) the eighteen NOAA congeners to total homologues. Due to the ongoing nature of this correlation process, the exact value of the correlation factor can change slightly over time (e.g., it originally was calculated to be 2.5). In order to retain comparability with the previous LTM

rounds, however, and since the correlation factor was developed specifically for the upper and lower harbors only, the LTM program will continue to report only the total of the eighteen NOAA congeners.

Metals

Battelle's methods for analysis of low-level trace metals (Cu, Cr, Pb, Ni, Zn, As, Cd) are based on the methods developed for the NS&T program. Sediment samples were digested for all metals in accordance with MSL-I-006. A 200-mg aliquot of each freeze dried, homogenized sediment sample was digested using combination of nitric and hydrochloric acids (aqua regia) in a Teflon digestion vessel. The sample was heated in an oven at 130°C (±10°C) for a minimum of eight hours and deionized water was added to the digested sediment to achieve analysis volume.

Metals analyses (Cu, Cr, Pb, Ni, Zn, As, Cd) were performed using inductively coupled plasma-mass spectrometry (ICP-MS) according to MSL-I-022. Depending on the concentrations of the metals and potential interferences, some metals were analyzed using inductively coupled plasma-optical emissions spectroscopy (ICP-OES) according to MSL-I-033.

Digested sediments were analyzed for total Hg by cold vapor atomic absorption (CVAA) in accordance with MSL-I-016. Digested sediments were analyzed for Se by hydride generation flow injection atomic absorption spectroscopy (FIAS) in accordance with MSL-I-030.

TOC

TOC analysis was performed by Applied Marine Sciences, Inc. in League City, Texas. An aliquot of sample was secured and dried at low temperature (70°C). The sample was ground and acidified with a dilute solution (pH<2) of HCl to remove inorganic carbon. The sample was rinsed with distilled water until the pH was 7. The sample was dried to remove water. A small aliquot of sample was weighed into a precombusted sample boat and combusted at 900°C in a stream of oxygen to convert organic substances to CO_2. The CO_2 stream was scrubbed to remove interferants such as water vapor, NO_X and SO_X, and swept into the coulometer cell. The amount of CO_2 produced was measured, recorded digitally, and printed as a hard copy report.

AVS

Sediment samples were analyzed for acid volatile sulfide (AVS). In this method, metal sulfides in the sample were converted to hydrogen sulfide by the addition of hydrochloric acid at room temperature. The hydrogen sulfide (H_2S) was purged from the sample by an inert gas and trapped in a sodium hydroxide (NaOH) solution with zinc acetate. With the addition of a mixed-diamine reagent (MDR), the sulfide was converted to methylene blue and concentrations were determined colorimetrically using a spectrophotometer.

2.3.2 Physical Analyses

Grain size analysis was performed by Applied Marine Sciences, Inc. in League City, Texas following AMS SOP 2101. Sediment grain-size were determined with phi-classes for sands using wet sieve analysis based on the methods outlined in NOAA 1993, and for silt and clay using pipette analysis based on the NOAA, 1993 and Head, 1992 methods. Wet sieving yielded the following phi-classes: gravel (>2.00 mm), very coarse sand (1.00-2.00 mm), coarse sand (0.50-1.00 mm), medium sand (0.25-0.50 mm), fine sand (0.125-0.25 mm), very fine sand (0.0625-0.125 mm), and silt and clay (<0.0625 mm). Pipette analysis resulted in percents of silt (0.0039-0.0625 mm) and clay (<0.0039 mm).

2.3.3 Toxicity Testing

Ten-day acute toxicity tests with the amphipod *Ampelisca abdita* were performed by EnviroSystems, Inc (ESI) in Hampton, New Hampshire. Testing was conducted according to the protocols in Appendix E of the QAPP (Section 7, *Sediment Toxicity Testing*, Envirosystems SOP 1426, *Acute Toxicity of Sediments to the Marine Amphipod, Ampelisca abdita* and ERL-N SOP 1.03.002 (May 1990), *ERL-N Standard Operating Procedure Conducting Acute Toxicity Tests Using Ampelisca abdita*).

Samples were placed in one gallon polyethylene bottles and packed in coolers with ice. Samples were delivered to ESI in four groups on August 18, 20, 23 and 24, 2004. Upon arrival, the project designated sample custodian assigned each sample an internal control number, reviewed the chain of custody, documented sample condition, and signed the chain of custody. After log-in, sediment samples were placed in a secure refrigerator and stored at a temperature of 2-4°C until test initiation. Control sediment used in the amphipod assay was provided by the test organism supplier and was obtained from the same site where the amphipods were collected.

Overlying water used in the assays was provided by ESI. Natural sea water was collected from the Hampton/Seabrook Estuary. This water is classified as SA-1 and has been used to culture marine test organisms since 1991. Marine amphipods, *A. abdita*, were obtained from Aquatic Research Organisms, Inc., Hampton, New Hampshire. Amphipods were collected from the Narrow River area in Rhode Island. At ESI, each batch of amphipods was assigned a unique reference number for tracking purposes.

Temperature and salinity of the overlying water were documented and adjusted, if necessary, to meet protocol limits. The maximum changes in temperature and salinity were limited to 3°C and 2‰ per day, respectively. Test organisms were held in ten gallon glass aquaria for a minimum of 48 hours and a maximum of 9 days. Organisms were held under flow through conditions at a temperature of 20±1°C, a salinity of 28±2‰, and continuous light. Organisms from each lot were arbitrarily selected for use in reference toxicant evaluations. The testing was conducted in five series with a total of 80 New Bedford Harbor sediments during August 2004 (Table 2).

Table 2. New Bedford Harbor Sediment Collection and Test Series Dates.

Bioassay Number	Dates Collected	Date Test Started	Sediment Sample (Station) Numbers
1	08/16-17/04	08/20/04	224, 318, 222, 226, 225, 235, 231, 227, 236, 109, 105, 117, 114, 108, 111, 310, 311, 317, 325
2	08/18-19/04	08/24/04	115, 120, 121, 123, 125, 126, 128, 130, 131, 134, 135, 139, 247, 250, 253, 304, 306, 309, 323, 324, 331, 332, 333, 338
3	08/20-22/04	09/13/04	138, 140, 146, 147, 150, 151, 152, 154, 155, 202, 204, 207, 208, 212, 218, 221, 230
4	08/20-22/04	09/14/04	237, 240, 241, 242, 425, 249, 334, 335, 339, 340, 341, 345, 346, 349, 352
5	08/23/04	09/14/04	211, 216, 217, 220

Acute Exposure Solid Phase Amphipod Assay

The static, non-renewal assays were conducted in 1.0 liter beakers. All beakers were washed, rinsed with tap water, soaked in a 10% hydrochloric acid solution, and then rinsed with deionized water prior to use in the assays. New Bedford Harbor sediments and control sediments were sieved through a 2 mm stainless steel mesh to remove macro invertebrates, large shell hash, and rocks. Approximately 0.2L of sieved sediment was added to the 5 replicate test chambers for each sample. Chambers were placed in a water bath and filled with approximately 0.6 L of 28±2‰ seawater. Air lines were placed in each test chamber and flow adjusted to achieve a dissolved oxygen level of 90% saturation without disturbing the test sediments. Test chambers were allowed to settle for 24 hours prior to the addition of test organisms.

After settling and prior to the addition of amphipods, water samples were collected to document ammonia levels in the sediment pore water. The concentration of un-ionized ammonia was subsequently determined. The temperature of the water bath was set to achieve a time weighted average temperature of 20±1°C in the test chambers. The photoperiod was set to provide 24 hours light. Each sediment was evaluated using five replicates with 20 organisms/replicate and one surrogate replicate for ammonia analysis.

Temperature, salinity, pH, and dissolved oxygen were measured in all replicates of each treatment at the start and end of the assay and in one replicate of each treatment on Day 1 through Day 9. Temperatures were also monitored on a hourly basis in a surrogate test chamber for the duration of the assay. Pore water ammonia samples were taken from a surrogate replicate on Day 0. Samples were taken from the overlying water on days 2 and 8 of the assay for ammonia analysis.

All replicates were aerated throughout the assay to maintain dissolved oxygen levels.
After 10 days exposure, the organisms were recovered from the sediments. Test chambers were gently swirled to loosen the sediments and material dumped into an 8" stainless steel sieve with a 500μ mesh screen. The sediments were washed through the sieve using seawater and material left on the screen was rinsed into a container. The contents of the container were subsampled and placed on a 500μ screen and sorted to recover all living and dead amphipods. This process was continued until the entire sample was evaluated.

Statistical procedures used for evaluating differences in survival between the control sediment and the test sediments followed protocol suggested by the U.S. EPA/CE (1986) and U.S. EPA (1994, 1995). Analysis of survival data derived from the amphipod assays included evaluation of homogeneity and normality of the data sets. Data sets were subsequently evaluated using a 2 Sample t-Test.

Review of data collected during the four series of assays documented a protocol deviation related to the salinity of the overlying water. The deviation was noted during the third and fourth rounds of testing. Salinity data collected from September 22 through 24, days 9 - 10 and days 8 -10 of the third and fourth rounds of testing, respectively, showed a one day increase in overlying water salinity ranging from 2 to 5‰. The change in salinity values corresponded to a change in the salinometer used for salinity measurements and a change in protocol used for salinometer calibration. The change in salinometer calibration was the result of implementation of a NELAC requirement related to daily calibration of the instrument. Prior to the September 22 date ESI calibrated the salinometers following the manufacture's guidelines which utilized an internal

calibration. In order to be compliant with NELAC requirements ESI modified the manufacture's guidelines and substituted an external calibration standard for the internal electronic calibration. All assays associated with this study were conducted in the same self contained walk-in incubator. The incubator design plus the water bath in which the test chambers were placed minimizes any salinity increase due to evaporation. Additionally, no other test exhibited the sharp rise in salinity. Based on the available data, it is the opinion of the Study Director that the deviation in salinity values was related to inappropriate calibration of the instrument and not an actual change in the salinity of the overlying water. The deviation in reported salinity was considered to have had no impact on the outcome of the assay. This conclusion is further supported by the high survival in the laboratory control treatment, 100%. ESI is not aware of any additional circumstances that would affect the integrity of this study.

As part of the laboratory quality control program, reference toxicant assays were conducted for each lot of test species. These results provide relative health and response data while allowing for comparison with historic data sets. For the purposes of this study, organism health was evaluated using cadmium chloride ($CdCl_2$). Reference toxicant assays started on August 24, 2004 and September 13, 2004 resulted in 96 hour LC-50 values of 0.20 ppm and 1.16 ppm, respectively. Results were within one standard deviation of the historic laboratory mean for each toxicant.

2.3.4 Benthic Biology Analysis

Benthic biology sorting, enumeration, and identification were performed by Normandeau Associates in Bedford, New Hampshire. Biological laboratory procedures were carried out according to protocols established for the Environmental Monitoring and Assessment Program (EMAP) for estuaries. A complete description of those procedures is presented in Environmental Monitoring and Assessment Program (EMAP) Laboratory Methods Manual – Estuaries Volume 1 – *Biological and Physical Analyses* (US EPA 1995) Section 5. Two of three replicate grab samples collected at each station were analyzed taxonomically. The third sample was archived.

3. RESULTS

3.1 Water Quality

The *in situ* water quality measurements were taken prior to the collection of sediment samples. The parameters collected included salinity, temperature, and dissolved oxygen. The *in situ* sensors recorded data electronically and the data results are presented in Appendix 2. Water depth ranged from the shallow stations (0.5 – 6m) in the Upper Harbor, to moderate depths in the Lower Harbor and Outer Harbors (5 – 13m). As expected, salinity, temperature, and dissolved oxygen (DO) followed trends along a north south gradient. In the upper reaches of the harbor, where the Acushnet river enters the system salinities were lower (min = 22.4‰). However, tidal exchange dominates the entire system and salinities in the Upper Harbor are influenced as much by tide stage as proximity to the freshwater input. Salinities in the Upper Harbor ranged from 22.4 to 30.6‰. In the Lower Harbor salinities also varied by location, with the northern stations somewhat less saline than stations further to the south. The overall range of salinities in the Lower Harbor was 28.9 – 31.6‰. Outer harbor salinities were fairly stable throughout at a mean of 30.9‰. Temperature followed the expected gradient of cooler values (min = 19.8°C) in the deeper offshore stations increasing into the shallow areas of the Upper Harbor (max = 25.6°C). Dissolved oxygen levels were fairly low throughout the survey area as is typical for late summer. In the Outer Harbor DO ranged from 4.6 – 7.7 mg/L with a mean of 6.3mg/L. The mean DO

decreased into the Lower Harbor (5.5 mg/L) although this was found over a somewhat larger range of 3.1 – 7.8 mg/L. In the Upper Harbor DO values were considerably low but even more variable (mean = 4.7, range = 1.3 to 8.3 mg/L).

3.2 Sediment Characterization

Surface sediment data collected from stations located in each of the three regions of NBH, *i.e.*, Upper Harbor, Lower Harbor, and Outer Harbor, were evaluated to assess 2004 baseline conditions. Surface sediments were analyzed for grain-size, TOC, PCB congeners, metals and AVS. Sample results are summarized below; complete data are provided in Appendices 3-7. All sediment results discussed in this section are expressed as dry weight.

3.2.1 Grain Size

Sediment grain size composition was measured in four replicate samples at each station in each of the three regions of NBH. One of the replicate samples is associated with the grab samples analyzed for chemistry; three of the replicates are associated with the grab samples collected for benthic infauna analyses. The grain size values reported here are from the composited material from the top 4 cm only and are associated with the chemistry samples. (Note: the LTM III report presented data as mean value of the 4 grain size samples which includes different depth intervals). Sediment grain size data for the chemistry grab sample are presented here, as percentage gravel, sand, and silt + clay.

Surface sediments collected from the three regions of NBH had variable grain-size, ranging from sandy to silty sediments (Figure 3). Surface sediments from the Upper Harbor were generally more fine-grained, with approximately 50% of the sediments containing >80% fines (silt+clay). The Lower and Outer Harbor generally contained coarser sediments, with approximately 50% of the sediments containing >50% gravel + sand.

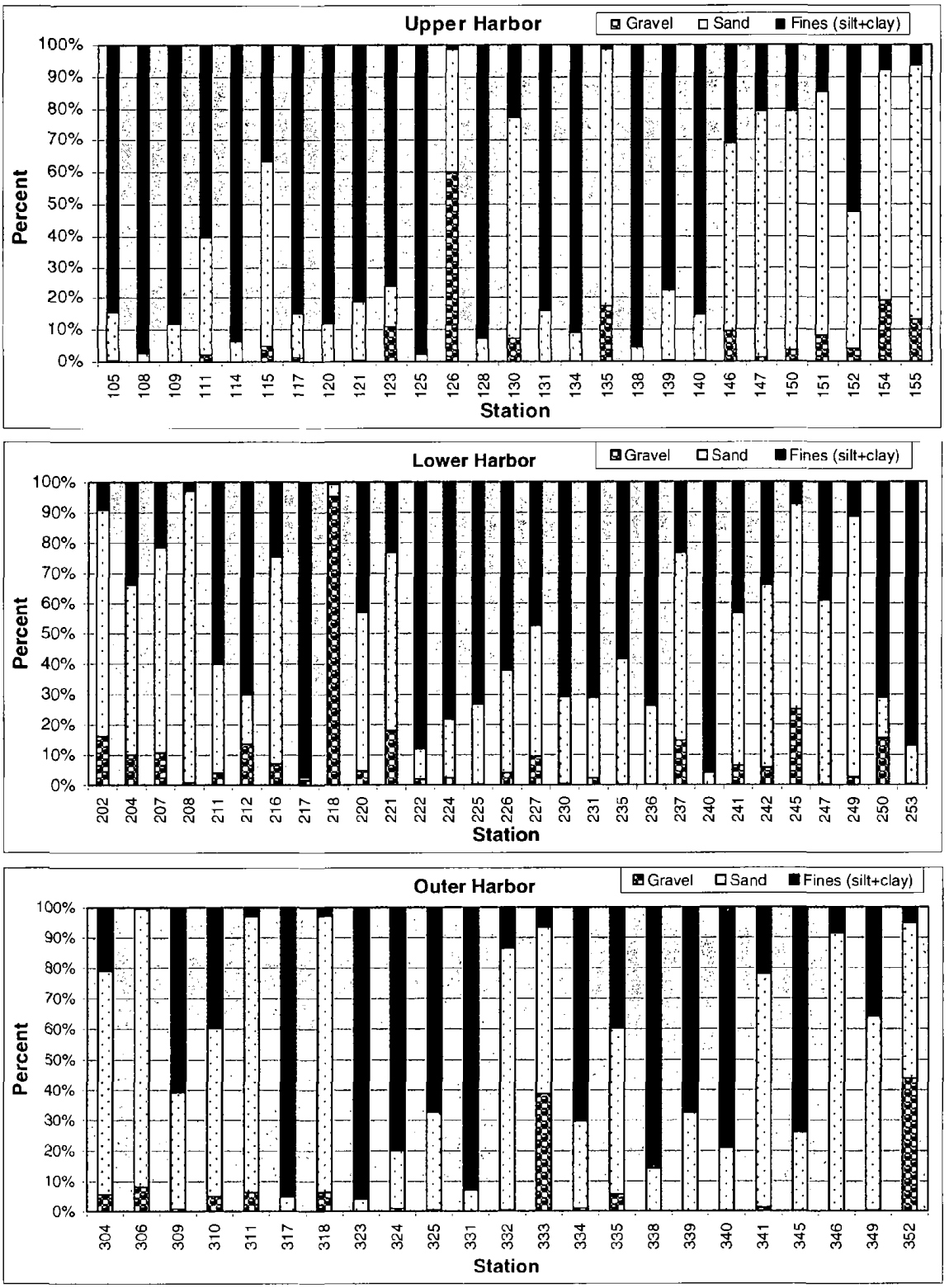

Figure 3. Percent Gravel, Sand, and Silt+Clay at New Bedford's Upper, Lower, and Outer Harbors. Surface (0-4 cm) Sediments.

3.2.2 Total Organic Carbon

A statistical summary of TOC in surface sediments from the Upper, Lower and Outer Harbor regions of NBH is shown graphically as side-by-side boxplots in Figure 4. Each boxplot shows the sample distribution. The ends of the box represent the 25th and 75th quartiles, and the line across the middle represents the median value. The solid lines are "whiskers" that extend a distance of 1.5X the interquartile range (difference between 25th and 75th quartiles). The data indicate that TOC is generally higher in Upper Harbor sediments, and decreases in a downstream direction (Lower and Outer Harbor sediments) (Figure 4).

TOC levels varied widely in surface sediments collected from the three regions of NBH, ranging from 0.05% to 11% (Figures 4 and 5). The wide range in TOC is generally associated with sediment grain-size, in that higher TOC was typically measured in sediments with higher percentages of silt+clay and lower TOC was typically measured in coarse-grained sediments. Surface sediments from the Outer Harbor demonstrated the strongest correlation (r = 0.93) between grain-size (percent fines) and TOC, followed by Upper Harbor (r = 0.86) and Lower Harbor (r = 0.55) (Figure 6). TOC was higher than expected, with respect to the corresponding grain-size, at selected stations in the Upper (station 115) and Lower (stations 237, 207 and 221) Harbors (Figure 6), resulting in a weaker correlation (smaller r value) between grain-size and TOC compared to the Outer Harbor.

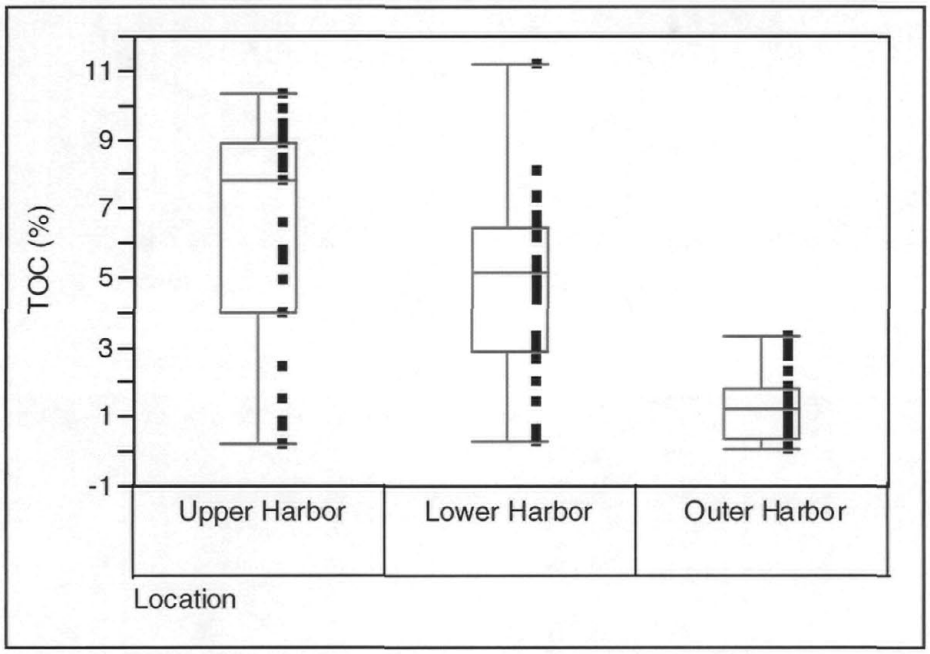

Figure 4. Boxplot of Total Organic Carbon (TOC) at New Bedford's Upper, Lower, and Outer Harbors. Surface (0-4 cm) Sediments.

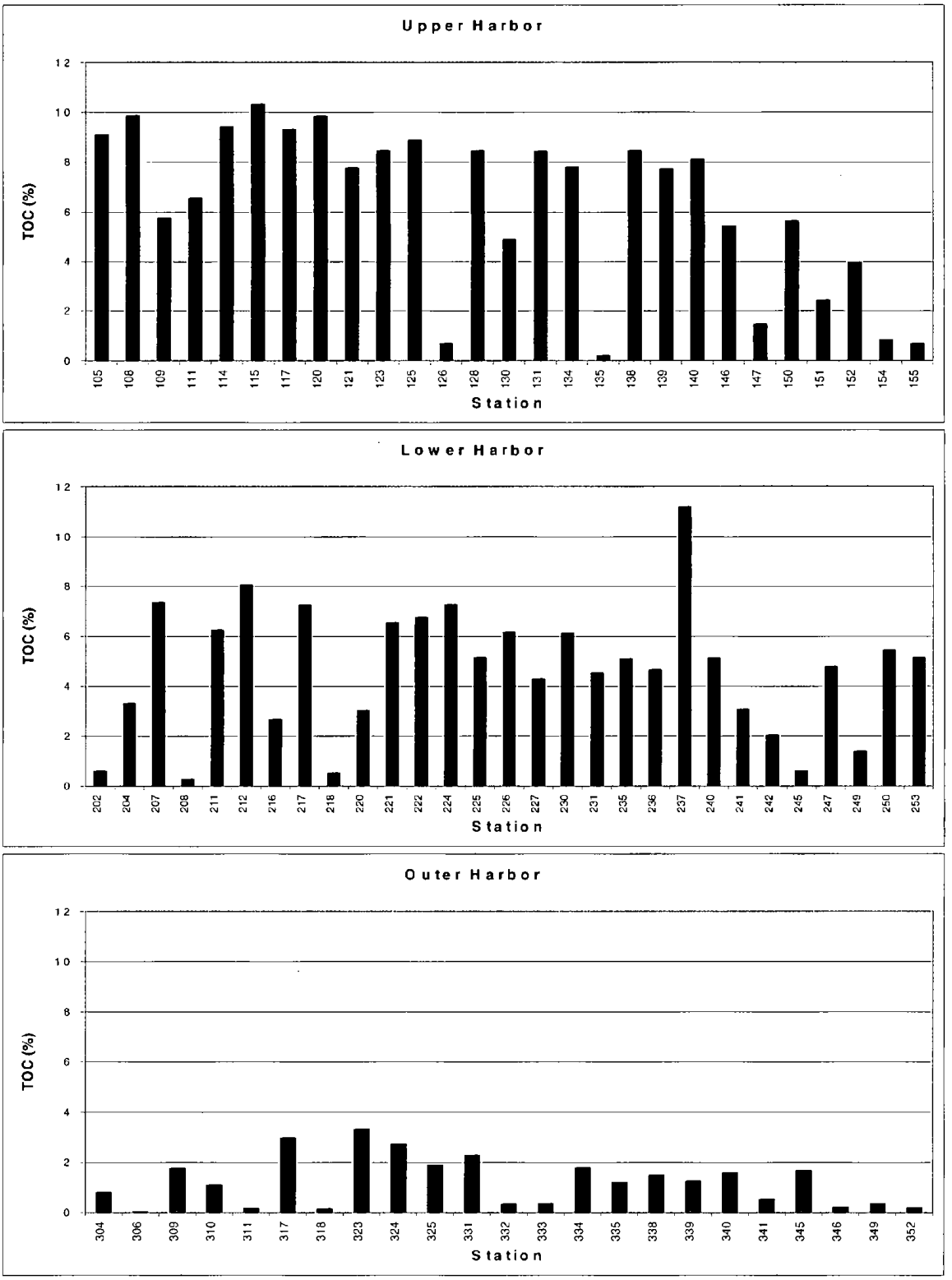

Figure 5. Total Organic Carbon at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

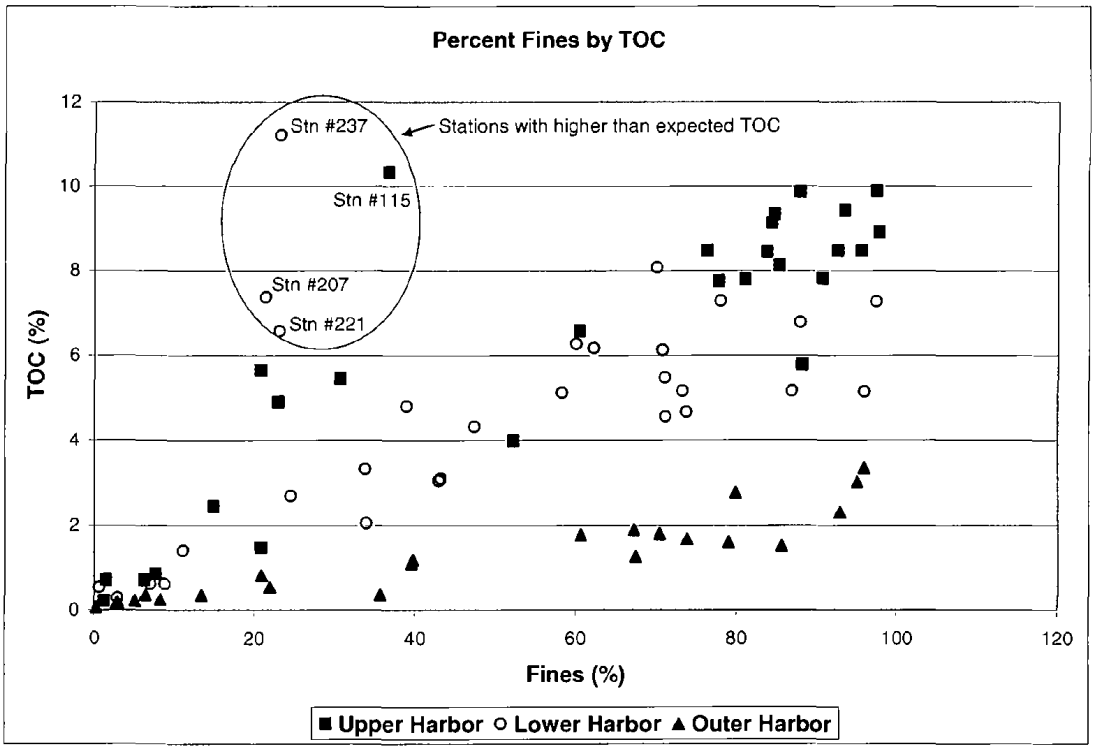

Figure 6. Total Organic Carbon vs. Percent Fines at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

3.3 Contaminant Chemistry

3.3.1 Polychlorinated Biphenyls

Surface sediment samples were analyzed for the 18 National Status & Trends congeners, and total PCB was calculated as the sum of the 18 congeners[1]. Readers are advised that total PCB concentrations reported here are not equivalent to total PCB as measured by the Aroclor or PCB homologue methods.

Total PCB concentrations are substantially higher (10× higher on average) in Upper Harbor sediments, and decrease in a downstream direction (Lower and Outer Harbor sediments) (Figures 7, 8, and 9). Concentrations of total PCB ranged from 0.0035 to 170 micrograms per gram (µg/g) in sediments from NBH. The sample distribution for the Lower Harbor sediments indicates that the concentrations of total PCB are unusually high at stations 211, 212, 217, and 222 (Figure 7). The lowest concentrations of total PCB were measured in Outer Harbor sediments, where concentrations are comparable to levels found in un-impacted marine and estuarine sediments (Brown and Neff, 1993; Peven, personal communication, 2004[2]).

[1] In cases of non-detects, ½ the value of the reporting limit was used in the total PCB calculation.
[2] The concentration of total PCB in five replicates of a sandy, clean reference sediment from Long Island, New York, ranged from 0.6 to 3.7 µg/g.

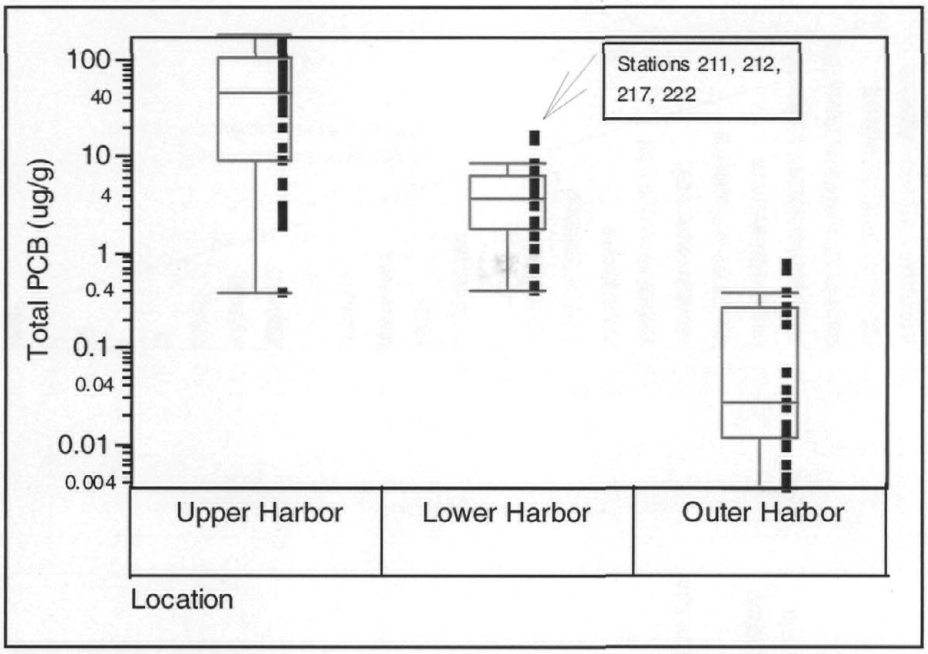

Figure 7. Boxplot of Total PCB Concentrations (log scale) at New Bedford's Upper, Lower, and Outer Harbors. Surface (0-4 cm) Sediments.

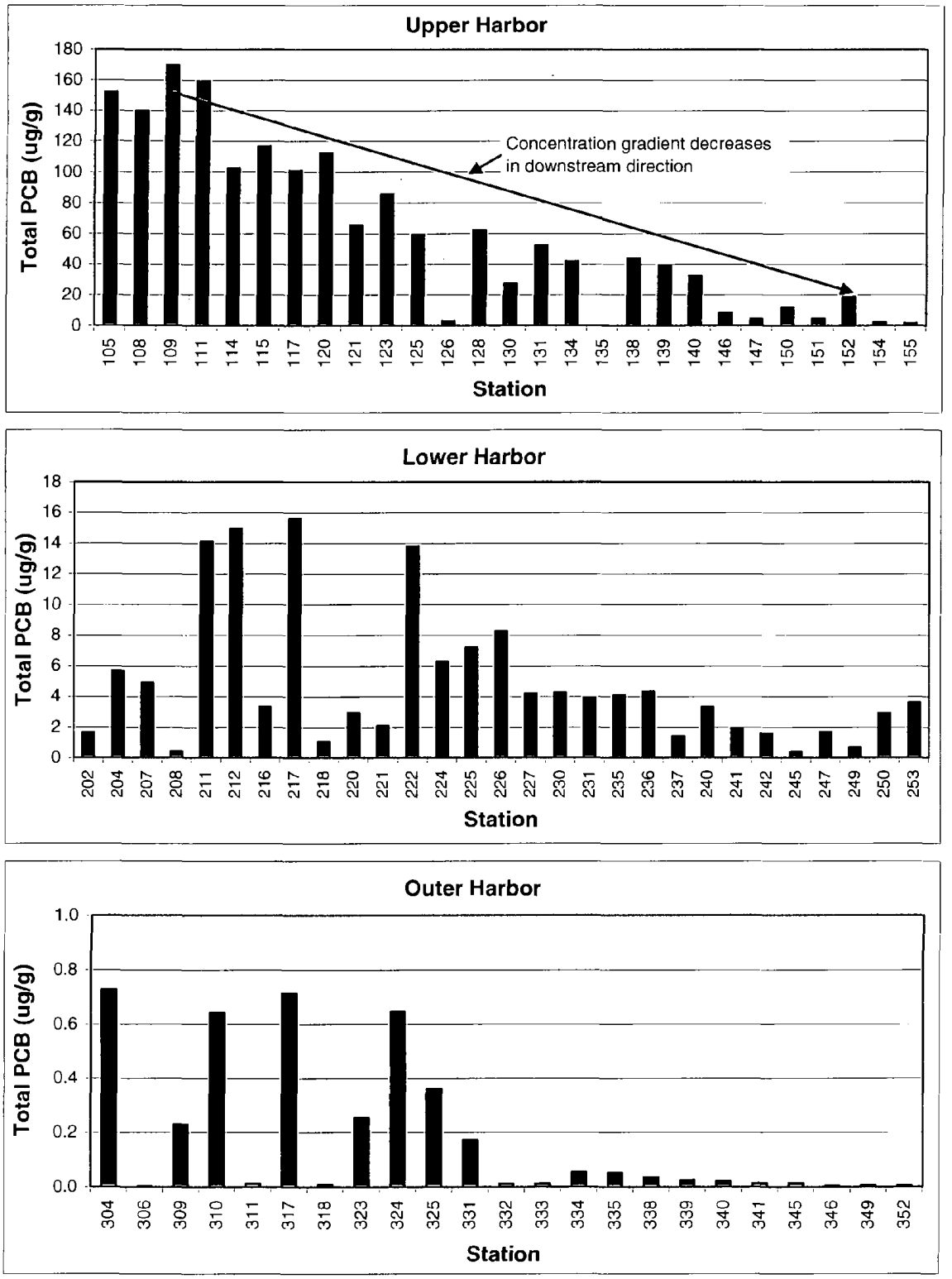

Figure 8. Total PCB's as the Sum of NOAA 18 Congeners at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

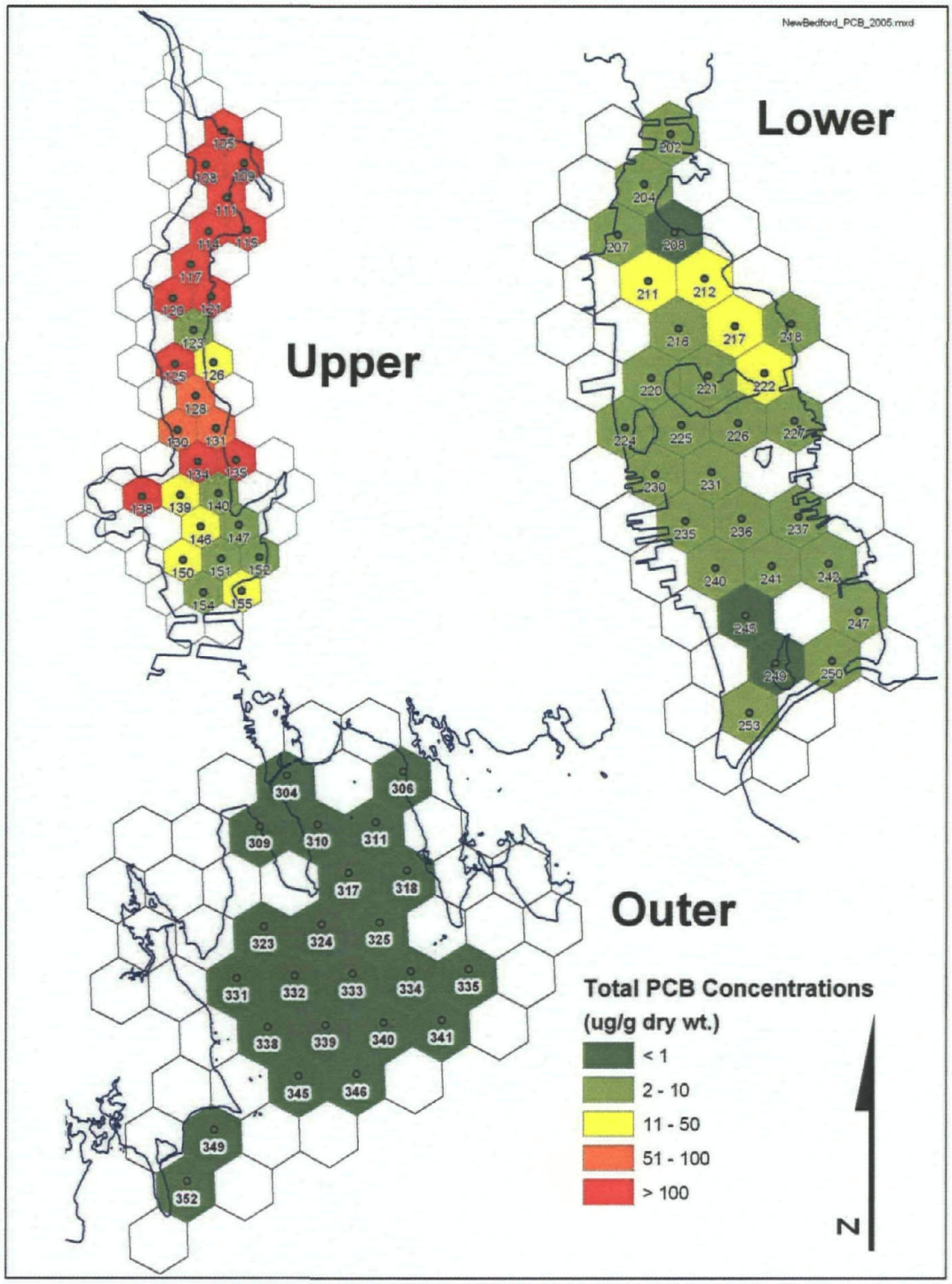

Figure 9. Map of total PCB's at Each Station, as the Sum of NOAA 18 Congeners, in New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

3.3.2 Metals

The distribution of representative metals (cadmium, copper, and lead) are graphically shown in Figure 10; box plots for all metals are provided in Appendix 6. Sample data indicate that concentrations of cadmium, chromium, copper, lead, mercury, nickel, and zinc are generally higher in Upper Harbor sediments, and decrease in a downstream direction (Lower and Outer Harbor sediments). The distribution of concentrations of arsenic and selenium are not substantially different between the three regions of NBH.

As was observed with total PCB, the sample distributions for Lower Harbor sediments indicated that selected metals are unusually high at selected stations. For example, the concentrations of cadmium and zinc are unusually high at Lower Harbor station 230; the concentrations of copper are unusually high at Lower Harbor stations 207, 217, and 222 (Figure 11); the concentrations of chromium are unusually high at Lower Harbor stations 207, 212, 217, and 222; and the concentration of nickel is unusually high at Lower Harbor station 207 (Figure 11 and Appendix 6).

3.3.3 Acid Volatile Sulfides

The distribution of AVS concentrations are not substantially different between the Upper and Lower Harbor regions, although the distribution of AVS concentrations are generally higher compared to Outer Harbor levels (Figure 12). The sample distribution indicates that the AVS concentration at Lower Harbor station 250 and Outer Harbor stations 304 and 323 are unusually high.

Simultaneously extracted metals were not measured as part of this project; therefore metal bioavailability assessments cannot be made.

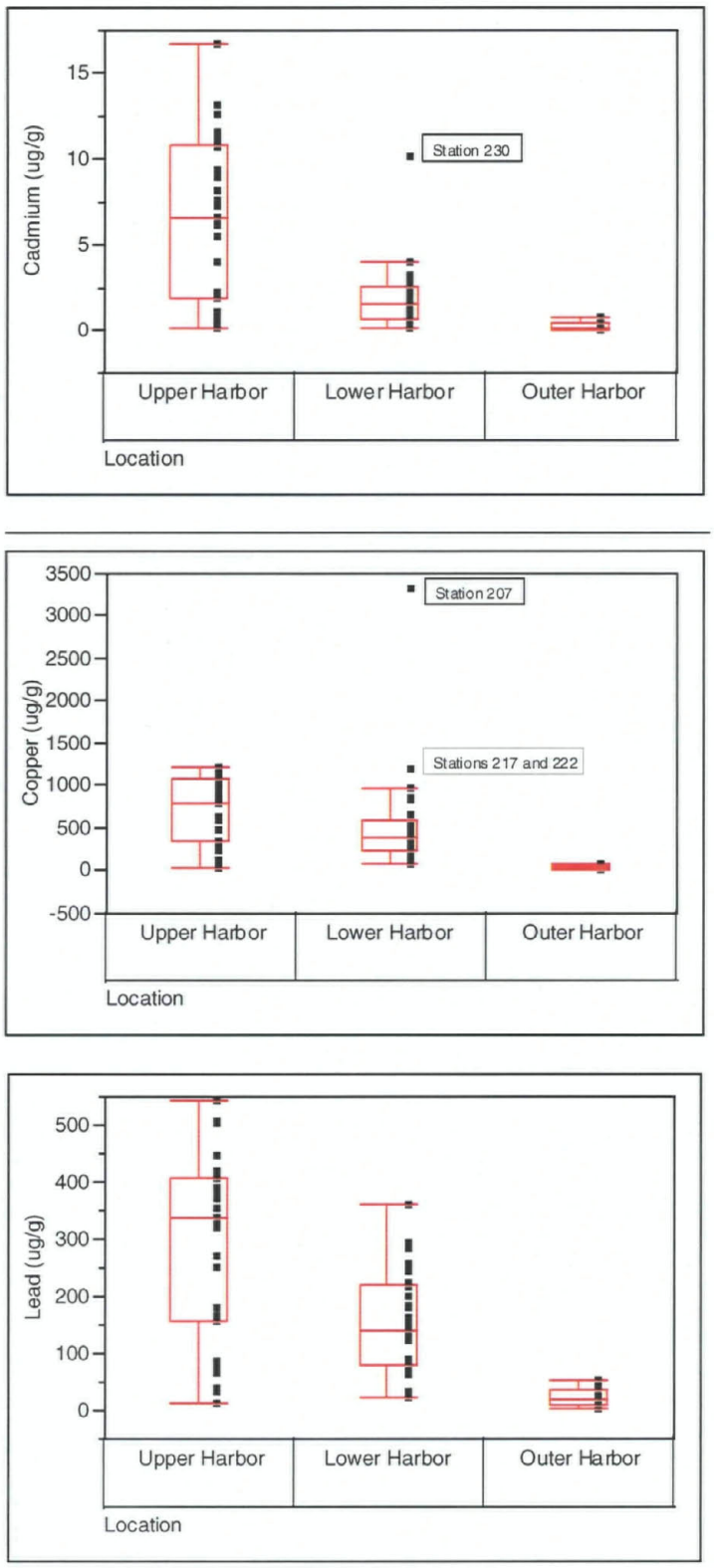

Figure 10. Boxplot of Cadmium, Copper, and Lead Concentrations at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

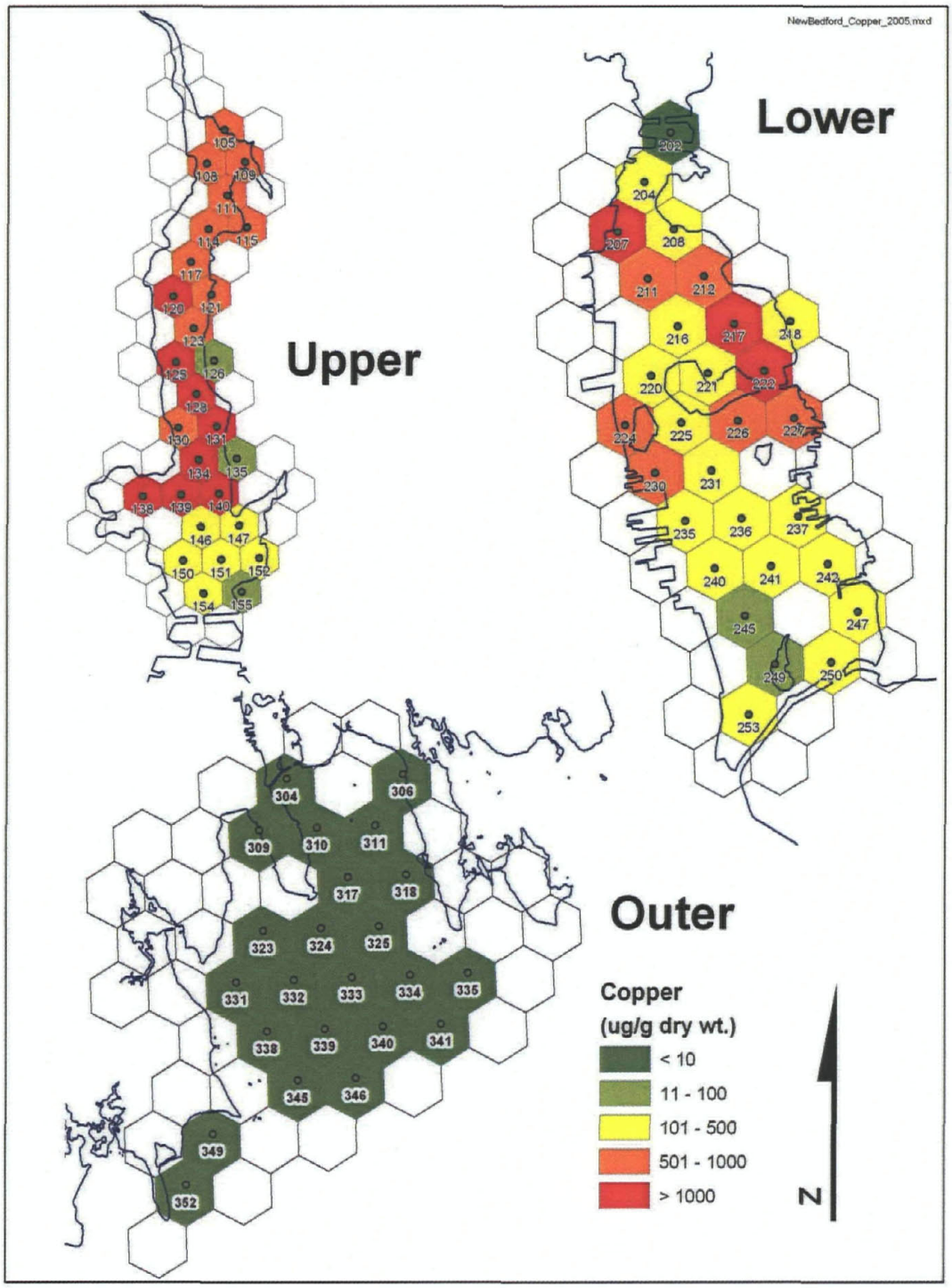

Figure 11. Map of Copper Concentrations at Each Station in New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

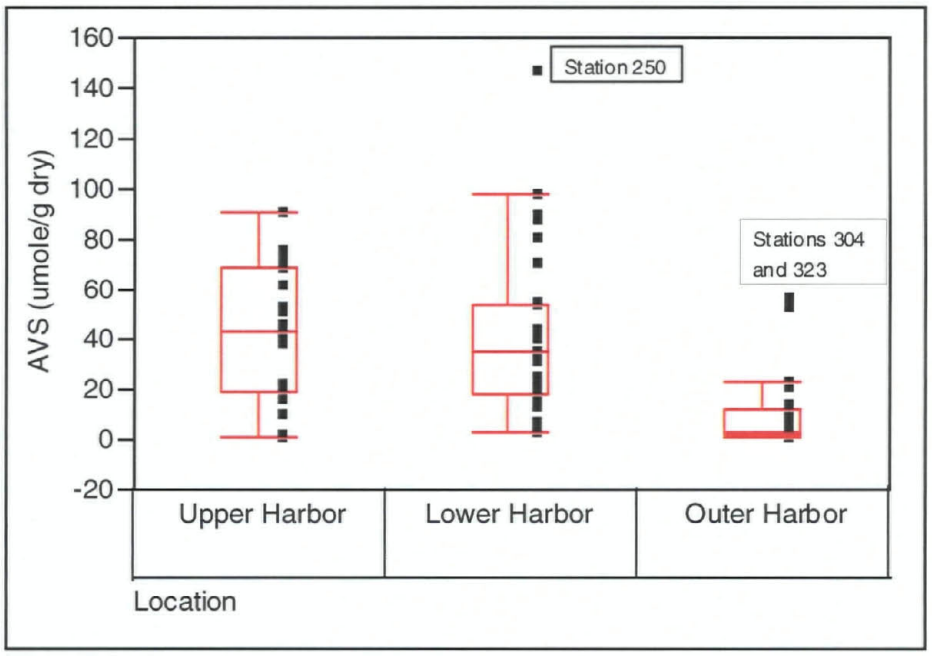

Figure 12. Boxplot of AVS Concentrations at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

3.4 Sediment Toxicity

This program utilized protocol developed by the U.S. EPA to assess the potential impact of sediments from New Bedford Harbor on the marine environment. The acute solid phase assay showed a substantial range in amphipod survival associated with sediments from New Bedford Harbor. Mean survival rates for individual samples ranged from 4% to 94%; 4% to 102.2% as compared to the associated laboratory control. Of the 80 samples evaluated, 47 (58.8%) of the samples had a significant impact on survival of the amphipod, *A. abdita*, as compared to the associated control sediment. Results for Sediment Toxicity are presented in Appendix 8.

Control Sediment
Overall survival of *A. abdita* in the four individual control treatments was 92%, 92%, 90%, and 96% after 10 days exposure. Minimum test acceptability criteria require overall mean survival of _90%. Based on these data, the amphipods were considered to be healthy and to have had no adverse impact on the outcome of the assay.

Test Sediments
Specific data related to survival by replicate, statistical analysis details and daily water quality are provided in the data appendix.

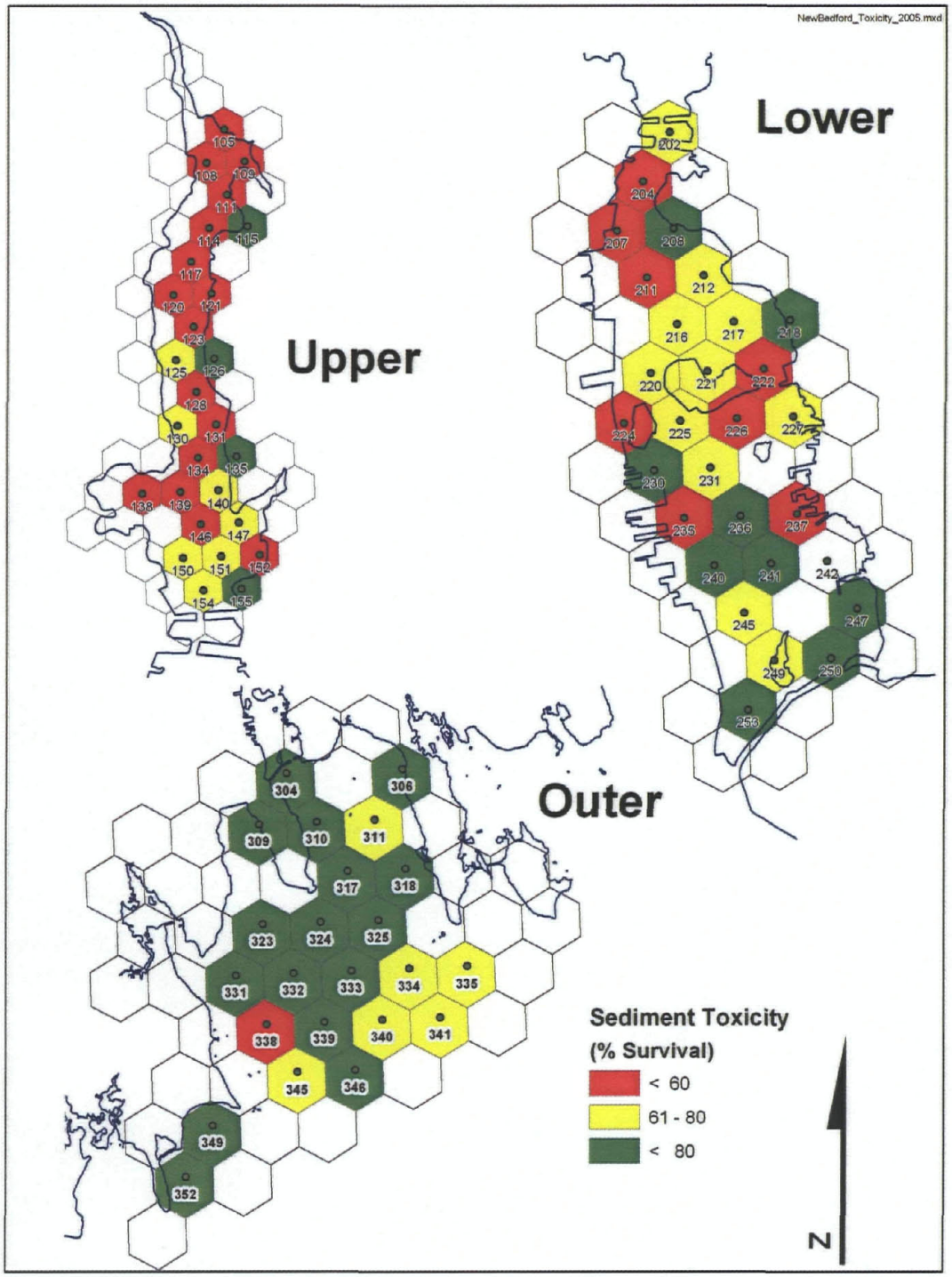

Figure 13. Map Showing Percent Survival of *Ampelisca abdita* in Toxicity Tests of the 2004 New Bedford Harbor Sediments.

3.5 Benthic Fauna

Laboratory analysis of the benthic samples included identification of all specimens collected. For the purposes of characterizing the infaunal community, a number of taxa are excluded in the following discussion. A few taxa, including epifaunal, clinging, or boring organisms such as *Crepidula*, *Mytilus*, *Crassostrea*, and caprellid amphipods, while contributing to the overall complexity of the ecosystem are not considered true constituents of the infaunal community, and are therefore excluded from any characterization of the community. However, these species were identified during the benthic taxonomic analysis and are included in the tables of Appendix 10 (Note: these species were not included in the tables of the 1999 LTM III report). These taxa are marked with an (a) in the species list presented in Appendix 9. Colonial taxa which were present but not enumerated were also excluded from analysis and are marked with a (b) in Appendix 9. In addition, when juvenile or damaged specimens could not be identified to species, the category "sp." was used. If no species were identified in the genus to which these specimens belong within any given Harbor area, then the taxon is included in discussions of both density and species richness for that area and is included in the species list (Appendix 9). If species were identified (and especially if more than one species was identified) in the genus in a given Harbor area, then the taxon was considered as contributing to the total density of infaunal organisms, but was not included in discussions of species richness nor in the species list (Appendix 9). Following EMAP protocols, oligochaetes were not identified to species. As they are an important component of the fauna, oligochaetes are included in both density and species richness totals.

Table 3 shows the number of valid taxa and total count (sum of organisms collected in all replicates) in each of the three areas sampled. There were clear gradients of increasing species richness and decreasing counts from the Upper to the Outer Harbor. Although the number of stations sampled differed slightly among the areas the differences in species richness and number of individuals (count) were large enough to dismiss sampling effort as a major factor. Overall, the Lower Harbor had only 37% of the individuals but 50% more species than the Upper Harbor and the Outer Harbor had 63% of the individuals but over twice as many species as the Lower Harbor. Figure 14 is a map showing the total number of species identified from the 2004 New Bedford Harbor LTM IV Survey.

Table 3. Species Richness and Total Density in the Three Areas of New Bedford Harbor.

	Area		
	Upper	**Lower**	**Outer**
Average Species per Station	12	17	29
Average Count per Station	708	268	217
Species Richness	57	85	203
Total Count	38,842	14,547	9,188

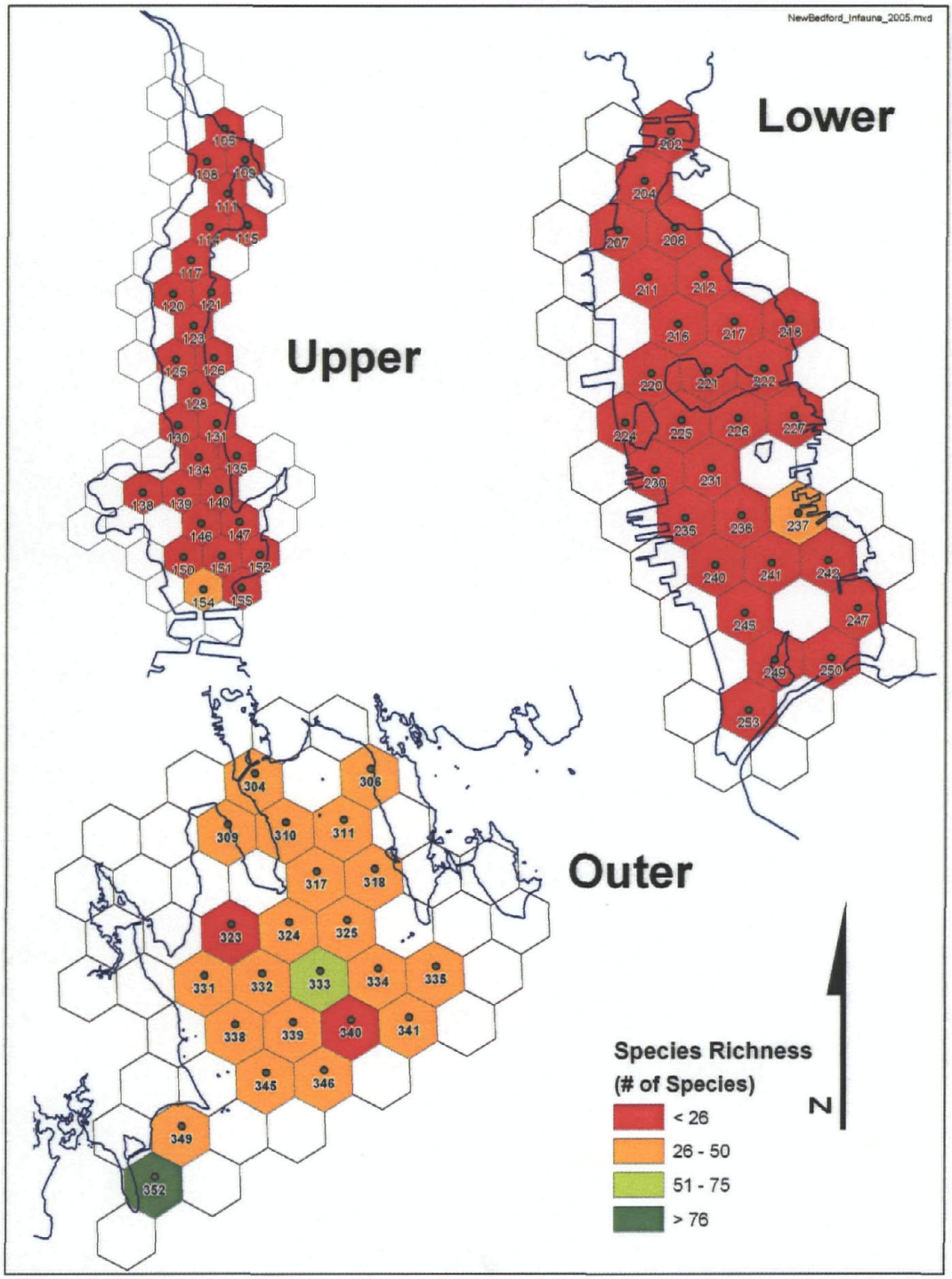

Figure 14. Map Showing Total Number of Species Identified from the 2004 New Bedford Harbor LTM IV Survey.

3.5.1 Area 1 (Upper Harbor)

Stations in Area 1 were characterized by low species richness (as measured by number of taxa; ranging from 4 to 27 unique taxa per station and averaging 13.1) and high densities, particularly of the dominant organisms. Table 4 shows the top dominant species (those contributing ≥1% of total infaunal count), their total count in all Area 1 replicates combined, and the number of stations within the Upper Harbor where they occurred. Eight of the dominants occurred in at least half of the 27 stations in this harbor area.

The polychaete *Streblospio benedicti* accounted for over a third of all organisms collected in Area 1. It occurred at every station, in mean abundances ranging from a low of 1.5 individuals per grab at Station 108 to a high of 2,860.5 at Station 117. Three bivalves (B), three additional polychaetes (P), two gastropods (G), and oligochaetes constitute the remaining top dominants.

The bivalve *Gemma gemma* accounted for nearly a third of all organisms collected at Area 1 stations. *G. gemma* occurred at most stations (Appendix 10), but more than 90% of the individuals were found at Station 111. Another bivalve, *Mulinia lateralis*, replaced *G. gemma* at Stations 123 and 128. Oligochaetes ranked third in abundance and were found at every station except 105, 108 and 109. The polychaete *Tharyx acutus* ranked fourth in abundance and was most common at Station 154.

Table 4. Dominant Species in NBH Area 1 (Upper Harbor)

Species	Total Count	Cumulative Percent	Number of Stations
Streblospio benedicti (P)	14275	36.8	27
Gemma gemma (B)	12472	68.9	20
Oligochaeta	4503	80.5	24
Tharyx acutus (P)	2428	86.7	19
Mulinia lateralis (B)	1098	89.5	17
Capitella capitata (P)	921	91.9	20
Cirratulidae (P)	918	94.3	12
Ilyanassa obsoleta (G)	767	96.2	27
Polydora cornuta	420	97.3	20
Mediomastus ambiseta	412	98.4	12

3.5.2 Area 2 (Lower Harbor)

Stations in Area 2 were characterized by intermediate species richness (ranging from 8 to 28 taxa per station, averaging 17.5) and intermediate counts. Table 5 shows the top dominant species, their total count in all Area 2 replicates combined, and the number of stations within the Lower Harbor where they occurred. Two bivalves (B), seven polychaetes (P), and oligochaetes constitute the top dominants. All ten taxa contributing at least 1% of the total count were present in at least half of the 29 stations in the Lower Harbor.

M. lateralis was the most abundant species in Area 2, occurring in substantially higher numbers than in Area 1. Distribution of *M. lateralis* was skewed with three stations (231, 235, and 236) accounting for nearly 75% of the individuals. The polychaete *S. benedicti* was the second most dominant organism at Area 2 stations, with less than a quarter the number of individuals found in

Area 1. *S. benedicti* occurred at most stations, although two stations (208 and 217) accounted for 25% of the individuals. Another polychaete, *Polydora cornuta*, had twice the number of individuals in Area 2 as in Area 1. Although occurring at most stations in Area 2, most individuals were found at Stations 231, 235, 236 and 241.

Table 5. Dominant Species in NBH Area 2 (Lower Harbor).

Species	Total Count	Cumulative Percent	Number of Stations
Mulinia lateralis (B)	5295	36.4	25
Streblospio benedicti (P)	2259	51.9	27
Oligochaeta	2198	67.0	27
Tharyx acutus (P)	874	73.0	22
Polydora cornuta (P)	821	78.7	26
Capitella capitata (P)	521	82.3	17
Mediomastus ambiseta (P)	499	85.7	26
Cirratulidae (P)	447	88.8	19
Mercenaria mercenaria (B)	257	90.5	25
Pectinaria gouldii (P)	179	91.8	20

3.5.3 Area 3 (Outer Harbor)

Stations in Area 3 were characterized by the highest species richness (ranging from 14 to 98 taxa per station and averaging 39.2) and the lowest counts of all three areas. The relatively low number of widespread taxa (18 out of 203) exemplifies the greater complexity of the infaunal community in Area 3. Table 6 shows the top dominant species and their total count in all Area 3 replicates combined. Four bivalves (B), twelve polychaetes(P), two gastropods (G), 2 arthropods (A) and oligochaetes constitute the top dominants.

Cirratulidae (juveniles and damaged specimens) and *Mediomastus ambiseta* were the top two most abundant taxa, each comprising about 11% of the total abundance. Cirratulidae occurred at about half of the stations, but was most abundant at Station 335 (361.5 per grab). The cirratulid *Tharyx acutus* also reached its highest abundance at this station. *M. ambiseta* was present at every station and was most abundant at Station 304 (78.5 per grab).

Table 6. Dominant Species in NBH Area 3 (Outer Harbor).

Species	Total Count	Cumulative Percent	Number of Stations
Cirratulidae (P)	1058	11.5	13
Mediomastus ambiseta (P)	992	22.3	23
Tharyx acutus (P)	743	30.4	13
Nephtys incisa (P)	689	37.9	12
Macoma tenta (B)	434	42.6	11
Oligochaeta	306	46.0	20
Ampelisca verrilli (A)	301	49.2	7
Nucula annulata (B)	295	52.4	12
Capitella capitata (P)	183	54.4	4
Acteocina canaliculata (G)	180	56.4	11
Eumida sanguinea (P)	169	58.2	11
Aricidea (acmira) catherinae (P)	167	60.0	17
Cerastoderma pinnulatum (B)	159	61.8	12
Polycirrus eximius (P)	145	63.4	7
Ninoe nigripes (P)	140	64.9	13
Cylichna oryza (G)	138	66.4	11
Polycirrus sp. (P)	130	67.8	10
Lembos smithi (A)	124	69.1	7
Caulleriella sp. (P)	116	70.4	9
Mulinia lateralis (B)	109	71.6	10
Dyspanopeus sayi (D)	103	72.7	8
Podarke obscura (P)	95	73.7	9

4. DISCUSSION AND CONCLUSIONS

Detailed comparative results with previous long-term monitoring efforts is beyond the scope of this report. However, general comparisons can be made. Because complete data from the 1993 and 1995 events is not currently available, values presented in this discussion are taken from the Long Term Monitoring III report (ENSR, 2001). As has been the case since 1993, levels of PCB and toxicity, are generally highest in the Upper Harbor and decrease along a gradient to the Outer Harbor. Additionally species richness is low in the Upper Harbor and increases further south. Metals contamination is more variable with both Upper and Lower Harbor areas having elevated values.

In 1993, total PCB concentrations reached a survey maximum of 431 µg/g in the Upper Harbor and decreased to a low of 0.02 µg/g in the Outer Harbor. Although the gradients remained the same in 1999, the range of values had decreased somewhat (350 – 0.012 µg/g). This trend of decreasing PCB concentration continued into 2004 with a maximum value of 170 µg/g found in the Upper Harbor and minimum of 0.0035 µg/g in the Outer Harbor where concentrations were comparable to typical un-impacted marine sediments. As has been previously seen, the highest PCB concentrations were found at the eight stations furthest to the north, which are in the vicinity

of the Upper Harbor "hot spot". Only at these eight stations were concentrations >100 μg/g. It should be noted that the samples and concentrations discussed in this report represent only the top 2cm of sediment. This upper portion represents relatively recent sedimentation and in many cases is not indicative of the deeper sediments.

The Long Term Monitoring III report indicated that a potential increase had occurred for copper concentrations in portions of New Bedford harbor relative to 1993. This was primarily indicated for sections of the Lower Harbor. In 2004 copper concentrations were generally between the 1993 and 1999 levels. As with PCB, the general trend was for decreasing copper concentrations from north to south. However, as was seen in previous years, station 207 in the Lower Harbor had the highest copper concentrations (max = 3310 μg/g) of all regions.

It appears that toxicity has decreased considerably in both the Upper and Lower Harbors since 1999. In 1999 survival was <60% throughout the Upper Harbor. In 2004 survival was >60% at several stations and generally increased along a gradient towards the more southerly stations. This trend continued into the Lower Harbor. In 1999 survival was <60% at all but two Lower Harbor stations. In 2004, 20 of the 28 stations had >60% survival and 9 of those had >80% survival. Again this occurred along an increasing southerly trend. In the Outer Harbor there was less room for improvement since the 1999 survival rate was generally very good. This continued in 2004 with the majority of stations showing >80% survival. The most noticeable improvement in the Outer Harbor was seen at the most northerly stations. In 1999 stations 304 and 310 (which are near the entrance channel just outside the hurricane barrier) and station 305 had <60% survival. In 2004 these three stations showed >80% survival.

In the Upper Harbor, the polychaete *Streblospio benedicti* and the bivalve *Gemma gemma* have consistently been among the dominant taxa throughout the four surveys that have taken place (ENSR 2001). During the baseline survey, the second post-dredging survey (1999) and the third post-dredging survey (2004), the bivalve *Mulinia lateralis* co-dominated with these species and together they accounted for more than 70% of the total abundance. Following "hot spot" dredging in 1995, relative abundance of *M. lateralis* was reduced and it was replaced as a dominant by *Capitella capitata* and *Hydrobia totteni*. Species richness was slightly higher in 2004 (57) than in 1999 (48) while total number of individuals in 2004 was only about half that in 1999, largely due to reduced numbers of the three dominant species. The species composition and dominance structure observed in 1993, 1999, and 2004 is typical of a late summer assemblage in an upper estuarine habitat in New England.

Species richness was substantially reduced in 2004 (85 taxa) compared to 1999 (105 taxa). Total number of individuals showed a similar pattern. Despite these differences, infaunal community structure was similar during most surveys. *Mulinia lateralis* was the overwhelming dominant in 1993, 1999 (ENSR 2001), and 2004, accounting for over 40% of the density in 1999 and 36% in 2004. Most of the same species dominated in 1993, 1999 and 2004. While species composition was similar in 1995, this year was unusual in that no single species dominated numerically.

Species richness in the Outer Harbor was similar in 2004 (203 taxa) to 1999 (213 taxa), but total count was about 34% of the 1999 value. While *Mediomastus ambiseta* continued to dominate, in 2004 it accounted for about 11% of the total compared to 43% in 1999 (ENSR 2001). All dominant taxa exhibited lower abundances in 2004 compared to 1999; in 1999 ten taxa cumulatively comprised 71.4% of the total abundance, but in 2004 it took 20 taxa to make up this

proportion of the total abundance. It appears that the Outer Harbor infaunal community more closely resembled that of earlier surveys than 1999.

A summary graphic shows the top 5 most abundant species in each of the Harbor areas (Figure 15).

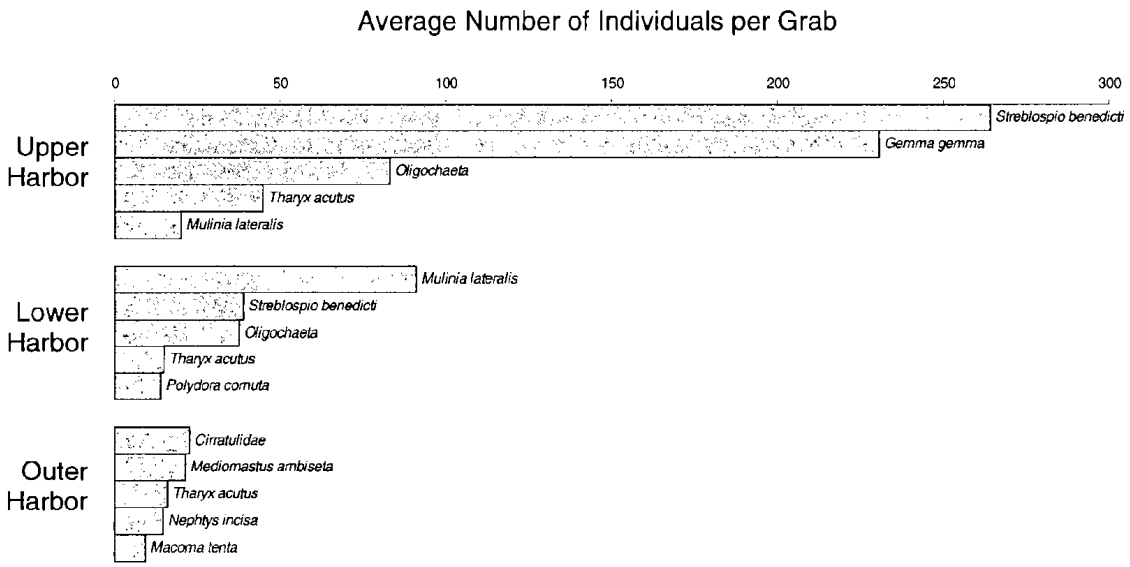

Figure 15. Average Number of Individuals per Grab.

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Appendix 1

Station Data from the 2004 NBH LTM IV Survey

Appendix 1. Station Data for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Event No.	Visit No.	Station ID.	Event Date	Begin Time	Northing*	Easting*	Hi Tide Time	Depth (m)
4001	1	105	08/17/04	08:32	2707642	815943	9:33	1.
4002	1	108	08/17/04	09:43	2707142	815669	9:33	1.5
4003	1	109	08/17/04	10:43	2707139	816242	9:33	0.8
4004	1	111	08/17/04	11:45	2706633	815968	9:33	0.4
4005	1	114	08/17/04	12:40	2706139	815662	9:33	0.8
4006	1	115	08/18/04	09:28	2706140	816242	10:13	0.8
4007	1	117	08/17/04	15:41	2705633	815374	9:33	0.5
4008	1	120	08/18/04	09:42	2705138	815095	10:13	2.
4009	1	121	08/18/04	12:26	2705118	815670	10:13	1.6
4010	1	123	08/18/04	10:41	2704629	815373	10:13	1.1
4011	1	125	08/18/04	11:30	2704131	815079	10:13	2.2
4012	1	126	08/19/04	09:06	2704103	815658	10:55	0.5
4013	1	128	08/18/04	13:35	2703629	815389	10:13	2.1
4014	1	130	08/19/04	11:23	2703130	815109	10:55	1.2
4015	1	131	08/18/04	14:39	2703152	815653	10:13	1.2
4016	1	134	08/19/04	12:47	2702630	815381	10:55	3.1
4017	1	135	08/19/04	10:10	2702619	815950	10:55	0.6
4018	1	138	08/20/04	08:11	2702127	814515	11:39	0.5
4019	1	139	08/19/04	14:38	2702149	815090	10:55	0.8
4020	1	140	08/20/04	08:11	2702161	815689	11:39	2.8
4021	1	146	08/20/04	13:18	2701635	815380	11:39	2.6
4022	1	147	08/20/04	12:23	2701641	815949	11:39	1.8
4023	1	150	08/21/04	08:37	2701142	815104	12:29	1.3
4024	1	151	08/21/04	09:37	2701152	815680	12:29	1.9
4025	1	152	08/20/04	11:32	2701150	816238	11:39	2.
4026	1	154	08/21/04	11:30	2700618	815365	12:29	5.3
4027	1	155	08/20/04	10:26	2700640	815971	11:39	0.9
4028	1	202	08/22/04	09:33	2699970	815461	13:24	4.7
4029	1	204	08/22/04	15:53	2698968	814936	13:24	8.2
4030	1	207	08/22/04	12:49	2697968	814315	13:24	0.8
4031	1	208	08/22/04	10:42	2697988	815478	13:24	1.3
4032	1	211	08/23/04	07:56	2696969	814850	14:25	2.5
4033	1	212	08/22/04	14:02	2696973	816050	13:24	3.4
4034	1	216	08/23/04	09:05	2696000	815460	14:25	2.
4035	1	217	08/23/04	07:55	2696004	816620	14:25	2.6
4036	1	218	08/22/04	16:39	2695964	817698	13:24	0.8
4037	1	220	08/23/04	09:08	2695003	814869	14:25	10.7
4038	1	221	08/21/04	14:50	2694991	816048	12:29	1.1
4039	1	222	08/16/04	16:00	2694999	817178	8:52	7.6
4040	1	224	08/16/04	13:54	2694007	814328	8:52	2.2

* Northing and Easting are reported in NAD 83.

Appendix 1. Station Data for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Event No.	Visit No.	Station ID	Event Date*	Begin Time	Northing*	Easting*	Hi Tide Time	Depth (m)
4041	1	225	08/16/04	12:09	2693991	815500	8:52	8.8
4042	1	226	08/16/04	09:52	2693881	816645	8:52	3.4
4043	1	227	08/16/04	09:39	2693978	817790	8:52	2.2
4044	1	230	08/21/04	14:28	2692988	814804	12:29	8.8
4045	1	231	08/16/04	12:24	2693041	816144	8:52	5.9
4046	1	235	08/16/04	14:14	2692006	815449	8:52	7.6
4047	1	236	08/16/04	15:20	2692039	816585	8:52	9.8
4048	1	237	08/21/04	07:54	2692012	817745	12:29	5.8
4049	1	240	08/21/04	12:31	2691006	815998	12:29	9.6
4050	1	241	08/21/04	13:19	2690896	817194	12:29	10.7
4051	1	242	08/21/04	09:24	2691009	818321	12:29	5.7
4052	1	245	08/21/04	10:28	2689968	816660	12:29	3.
4053	1	247	08/19/04	13:38	2689988	818898	10:55	2.6
4054	1	249	08/20/04	14:41	2689001	817105	11:39	2.3
4055	1	250	08/19/04	11:54	2689003	818271	10:55	9.5
4056	1	253	08/19/04	14:50	2687925	816572	10:55	2.2
4057	1	304	08/19/04	10:13	2686860	817731	10:55	3.9
4058	1	306	08/19/04	08:51	2686854	828170	10:55	3.1
4059	1	309	08/18/04	10:15	2682350	815176	10:13	4.9
4060	1	310	08/17/04	13:08	2682374	820416	9:33	5.5
4061	1	311	08/17/04	12:02	2682322	825616	9:33	5.5
4062	1	317	08/17/04	09:41	2677824	822965	9:33	9.
4063	1	318	08/17/04	10:41	2677828	828168	9:33	5.6
4064	1	323	08/18/04	09:14	2673374	815129	10:13	8.2
4065	1	324	08/18/04	08:17	2673391	820295	10:13	9.6
4066	1	325	08/17/04	15:07	2673354	825631	9:33	10.2
4067	1	331	08/18/04	11:17	2668840	812569	10:13	7.7
4068	1	332	08/18/04	13:31	2668847	817843	10:13	8.2
4069	1	333	08/18/04	12:20	2668859	823000	10:13	6.7
4070	1	334	08/22/04	07:59	2668772	828235	13:24	10.9
4071	1	335	08/22/04	09:00	2668878	833378	13:24	8.2
4072	1	338	08/18/04	14:34	2664358	815172	10:13	8.2
4073	1	339	08/22/04	13:49	2664370	820302	13:24	12.5
4074	1	340	08/22/04	12:06	2664389	825563	13:24	11.9
4075	1	341	08/22/04	11:02	2664384	830737	13:24	11.7
4076	1	345	08/20/04	12:05	2659801	817695	11:39	12.9
4077	1	346	08/20/04	13:10	2659833	822951	11:39	12.
4078	1	349	08/20/04	10:36	2655384	809937	11:39	8.2
4079	1	352	08/20/04	08:46	2650839	807314	11:39	6.7
4080	1	139(dup)	08/19/04	15:22	2702131	815091	10:55	0.5
4081	1	208(dup)	08/22/04	11:34	2697980	815480	13:24	1.6
4082	1	325(dup)	08/17/04	15:49	2673582	825730	9:33	10.5

* Northing and Easting are reported in NAD 83.

Appendix 2

Appendix 2

Water Quality Data from the 2004 NBH LTM IV Survey

Appendix 2. Water Quality Data for the 2004 New Bedford Long-Term Monitoring IV Survey.

Station ID	CTD Date	CTD ID	Cast Time	Depth (m)	Water Temperature (C°)	Salinity (PSU)	Dissolved Oxygen (mg/L)
105	08/17/04	4001_CTD	08:32	1.	22.67	26.61	1.31
108	08/17/04	4002_CTD	09:43	1.5	23.09	28.08	1.83
109	08/17/04	4003_CTD	10:43	0.8	23.08	28.27	2.02
111	08/17/04	4004_CTD	11:45	0.4	23.22	28.75	1.77
114	08/17/04	4005_CTD	12:40	0.8	23.31	28.66	2.7
115	08/18/04	4006_CTD	09:28	0.8	22.3	22.4	3.9
117	08/17/04	4007_CTD	15:41	0.5			
120	08/18/04	4008_CTD	09:42	2.	23.3	29.65	3.89
121	08/18/04	4009_CTD	12:26	1.6	23.6	29.3	4.01
123	08/18/04	4010_CTD	10:41	1.1	23.3	28.8	5.
125	08/18/04	4011_CTD	11:30	2.2	23.	29.8	4.1
126	08/19/04	4012_CTD	09:06	0.5	23.4	25.9	6.75
128	08/18/04	4013_CTD	13:35	2.1	23.6	29.5	4.8
130	08/19/04	4014_CTD	11:23	1.2	25.6	30.3	5.2
131	08/18/04	4015_CTD	14:39	1.2	24.2	24.4	8.3
134	08/19/04	4016_CTD	12:47	3.1	23.6	30.1	5.6
135	08/19/04	4017_CTD	10:10	0.6	23.7	29.9	5.7
138	08/20/04	4018_CTD	08:11	0.5	23.5	27.43	4.3
139	08/19/04	4019_CTD	14:38	0.8	23.97	29.7	7.5
139(dup)	08/19/04	4080_CTD	15:22	0.5	23.9	29.8	7.5
140	08/20/04	4020_CTD	08:11	2.8	23.1	30.2	4.1
146	08/20/04	4021_CTD	13:18	2.6	23.4	30.24	4.92
147	08/20/04	4022_CTD	12:23	1.8	23.6	30.03	5.94
150	08/21/04	4023_CTD	08:37	1.3	23.9	30.17	5.42
151	08/21/04	4024_CTD	09:37	1.9	23.7	30.37	6.17
152	08/20/04	4025_CTD	11:32	2.	23.3	30.04	5.52
154	08/21/04	4026_CTD	11:30	5.3	23.7	30.6	5.85
155	08/20/04	4027_CTD	10:26	0.9	23.5	29.68	5.13
202	08/22/04	4028_CTD	09:33	4.7	23.	31.1	4.7
204	08/22/04	4029_CTD	15:53	8.2	22.95	30.08	5.35
207	08/22/04	4030_CTD	12:49	0.8	23.8	30.8	5.6
208	08/22/04	4031_CTD	10:42	1.3	23.3	29.4	6.54
208(dup)	08/22/04	4081_CTD	11:34	1.6	23.4	30.6	7.
211	08/23/04	4032_CTD	07:56	2.5	22.92	28.86	7.04
212	08/22/04	4033_CTD	14:02	3.4	23.4	30.5	7.1
216	08/23/04	4034_CTD	09:05	2.	23.	31.46	4.66
217	08/23/04	4035_CTD	07:55	2.6	23.	31.3	3.1
218	08/22/04	4036_CTD	16:39	0.8	24.7	30.8	7.8
220	08/23/04	4037_CTD	09:08	10.7	22.75	30.12	5.37
221	08/21/04	4038_CTD	14:50	1.1	23.8	31.2	5.54

Appendix 2. Water Quality Data for the 2004 New Bedford Long-Term Monitoring IV Survey.

Station ID	CTD Date	CTD ID	Cast Time	Depth (m)	Water Temperature (C°)	Salinity (PSU)	Dissolved Oxygen (mg/L)
222	08/16/04	4039_CTD	16:00	7.6	23.45	31.63	3.64
224	08/16/04	4040_CTD	13:54	2.2	23.7	30.51	3.44
225	08/16/04	4041_CTD	12:09	8.8	23.47	30.56	4.71
226	08/16/04	4042_CTD	09:52	3.4	23.27	29.88	5.19
227	08/16/04	4043_CTD	09:39	2.2	23.45	29.18	5.14
230	08/21/04	4044_CTD	14:28	8.8	22.87	30.14	5.22
231	08/16/04	4045_CTD	12:24	5.9	23.	30.24	4.95
235	08/16/04	4046_CTD	14:14	7.6	22.72	30.17	5.21
236	08/16/04	4047_CTD	15:20	9.8	22.45	30.49	4.87
237	08/21/04	4048_CTD	07:54	5.8	23.03	30.25	5.62
240	08/21/04	4049_CTD	12:31	9.6	22.87	30.32	5.64
241	08/21/04	4050_CTD	13:19	10.7	22.92	30.39	6.15
242	08/21/04	4051_CTD	09:24	5.7	22.94	30.32	6.33
245	08/21/04	4052_CTD	10:28	3.	23.02	30.21	6.11
247	08/19/04	4053_CTD	13:38	2.6	22.91	29.9	5.69
249	08/20/04	4054_CTD	14:41	2.3	23.32	30.09	6.92
250	08/19/04	4055_CTD	11:54	9.5	22.57	30.27	6.45
253	08/19/04	4056_CTD	14:50	2.2	22.69	30.18	5.06
304	08/19/04	4057_CTD	10:13	3.9	22.59	30.26	6.54
306	08/19/04	4058_CTD	08:51	3.1	22.71	30.6	7.72
309	08/18/04	4059_CTD	10:15	4.9	22.32	30.77	6.69
310	08/17/04	4060_CTD	13:08	5.5	21.84	30.77	4.63
311	08/17/04	4061_CTD	12:02	5.5	21.68	31.04	4.61
317	08/17/04	4062_CTD	09:41	9.	21.63	30.81	6.47
318	08/17/04	4063_CTD	10:41	5.6	21.59	30.84	6.2
323	08/18/04	4064_CTD	09:14	8.2	21.58	30.89	5.78
324	08/18/04	4065_CTD	08:17	9.6	21.56	30.9	5.35
325	08/17/04	4066_CTD	15:07	10.2	21.44	30.89	5.89
325(dup)	08/17/04	4082_CTD	15:49	10.5	21.43	30.9	5.56
331	08/18/04	4067_CTD	11:17	7.7	21.52	30.89	6.15
332	08/18/04	4068_CTD	13:31	8.2	21.6	30.9	6.56
333	08/18/04	4069_CTD	12:20	6.7	21.77	30.86	7.28
334	08/22/04	4070_CTD	07:59	10.9	21.02	31.05	6.62
335	08/22/04	4071_CTD	09:00	8.2	21.3	31.04	6.55
338	08/18/04	4072_CTD	14:34	8.2	21.49	30.88	6.68
339	08/22/04	4073_CTD	13:49	12.5	20.81	30.99	6.62
340	08/22/04	4074_CTD	12:06	11.9	20.92	31.01	6.58
341	08/22/04	4075_CTD	11:02	11.7	20.93	31.07	6.99
345	08/20/04	4076_CTD	12:05	12.9	19.82	31.08	6.54
346	08/20/04	4077_CTD	13:10	12.	20.09	31.11	6.35
349	08/20/04	4078_CTD	10:36	8.2	20.46	31.03	6.3
352	08/20/04	4079_CTD	08:46	6.7	20.36	31.03	6.48

Appendix 3

Appendix 3

Sediment Grain-Size Data from the 2004 NBH LTM IV Survey

Appendix 3. Sediment Grain-Size Data from 0-4cm samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Sample ID	Station ID		PCT GRAVEL	PCT V COARSE SAND	PCT COARSE SAND	PCT MEDIUM SAND	PCT FINE SAND	PCT V FINE SAND	PCT SILT	PCT CLAY
400127	105	SA	0.68	0.17	0.66	1.71	4.17	8.18	73.38	11.05
400227	108	DUP	0.	0.	0.	0.19	0.29	1.98	63.35	34.19
400227	108	SA	0.	0.	0.	0.18	0.38	1.98	62.96	34.5
400327	109	SA	0.	0.41	0.89	2.48	3.79	4.31	50.27	37.85
400427	111	SA	2.28	16.09	2.72	3.36	7.04	8.06	47.76	12.71
400527	114	SA	0.	0.11	0.1	0.44	1.55	4.32	76.56	16.92
400627	115	SA	4.88	2.4	6.89	14.94	14.14	19.99	31.32	5.44
400727	117	DUP	1.41	1.87	1.9	2.61	2.48	4.36	70.	15.39
400727	117	SA	1.21	1.65	2.04	3.23	2.69	4.43	68.64	16.1
400827	120	SA	0.09	0.05	3.77	2.34	2.43	3.39	63.06	24.88
400927	121	SA	0.64	0.67	2.48	5.16	5.7	4.31	58.35	22.69
401027	123	SA	11.12	3.03	1.95	2.06	2.	3.51	64.27	12.06
401127	125	SA	0.	0.	0.06	0.69	0.43	1.02	83.06	14.73
401227	126	SA	59.97	7.24	8.5	12.43	8.06	2.31	1.38	0.11
401327	128	DUP	0.	0.41	0.9	2.05	1.55	4.3	71.21	19.58
401327	128	SA	0.	0.58	1.4	0.81	0.92	3.69	73.88	18.73
401427	130	SA	7.16	4.08	3.92	15.2	31.06	15.58	16.43	6.56
401527	131	SA	0.	1.1	1.5	4.12	4.01	5.5	41.65	42.13
401627	134	SA	0.	0.14	0.3	1.45	2.07	5.34	59.65	31.05
401727	135	SA	17.33	4.21	9.91	31.15	30.97	5.15	1.09	0.19
401827	138	DUP	0.	0.	0.37	1.06	1.22	2.01	64.41	30.93
401827	138	SA	0.	0.	0.37	1.01	1.15	1.86	66.02	29.58
401927	139	SA	0.54	0.54	0.81	2.42	5.48	12.47	45.6	32.14
402027	140	SA	0.39	0.16	0.34	1.02	3.03	9.72	47.04	38.3
402127	146	SA	9.46	1.9	3.39	8.46	32.35	13.79	17.23	13.41
402227	147	SA	1.44	1.23	4.72	15.76	32.01	24.01	12.26	8.57
402327	150	DUP	2.96	3.24	6.09	20.89	29.24	16.83	13.13	7.63
402327	150	SA	3.63	3.93	6.05	21.01	27.7	16.93	12.78	7.97
402427	151	SA	8.35	1.77	3.65	14.86	40.55	15.96	9.22	5.66
402527	152	SA	4.16	2.19	4.12	11.49	12.06	13.76	41.1	11.12
402627	154	SA	19.42	3.19	4.9	38.15	24.03	2.58	4.65	3.09
402727	155	SA	13.5	1.9	5.6	28.26	34.41	10.04	4.32	1.97
402827	202	DUP	17.94	12.22	30.63	26.66	3.72	0.78	4.61	3.44
402827	202	SA	16.23	12.64	28.99	28.52	3.78	1.01	4.85	3.98
402927	204	SA	10.04	3.08	3.52	22.9	21.94	4.74	18.42	15.36
403027	207	SA	10.81	6.2	8.86	13.12	19.81	19.82	15.48	5.9
403127	208	SA	0.83	1.85	4.94	23.36	53.86	12.19	1.71	1.25
403227	211	DUP	3.88	2.29	3.29	8.87	14.36	8.03	38.44	20.84
403227	211	SA	3.89	2.26	2.74	8.41	14.5	8.16	38.96	21.08
403327	212	SA	13.6	1.16	1.9	5.06	3.74	4.45	37.48	32.62
403427	216	SA	7.09	4.25	10.22	24.4	18.67	10.85	14.99	9.53

Appendix 3. Sediment Grain-Size Data from 0-4cm samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Sample ID	Station ID		PCT GRAVEL	PCT V.COARSE SAND	PCT COARSE SAND	PCT MEDIUM SAND	PCT FINE SAND	PCT V.FINE SAND	PCT SILT	PCT CLAY
403627	218	DUP	94.82	0.22	0.93	1.72	0.6	1.	0.57	0.14
403627	218	SA	95.2	0.38	0.67	1.54	1.29	0.29	0.48	0.15
403727	220	DUP	5.22	2.49	6.61	22.48	14.22	5.62	21.93	21.44
403727	220	SA	4.77	2.55	6.55	20.9	17.	5.24	22.58	20.41
403827	221	SA	17.98	7.36	8.11	13.18	16.19	14.11	16.7	6.38
403927	222	SA	1.95	1.06	1.4	2.66	2.41	2.6	27.2	60.7
404027	224	SA	2.39	2.05	1.9	2.67	5.38	7.59	37.7	40.3
404127	225	SA	0.41	0.69	2.09	5.99	7.99	9.59	39.9	33.4
404227	226	SA	3.98	3.74	4.34	9.92	7.48	8.38	49.6	12.6
404327	227	DUP	9.4	0.81	0.83	6.67	15.2	22.	40.3	4.86
404327	227	SA	9.49	0.55	0.81	5.07	15.1	21.6	41.6	5.84
404427	230	SA	0.37	0.71	2.49	5.72	11.	8.94	38.83	31.93
404527	231	SA	2.23	2.85	2.56	7.11	6.33	7.75	48.31	22.86
404627	235	SA	0.26	0.41	1.07	8.07	20.18	11.67	40.79	17.54
404727	236	SA	0.34	0.97	2.6	5.75	7.56	9.06	48.01	25.72
404827	237	SA	14.74	12.19	15.58	18.13	10.29	5.87	14.6	8.59
404927	240	SA	0.	0.	0.05	0.09	0.91	2.99	50.18	45.78
405027	241	DUP	5.98	4.37	5.3	13.23	16.36	6.46	27.59	20.71
405027	241	SA	6.32	4.27	6.24	14.14	15.13	10.66	25.38	17.86
405127	242	SA	5.6	1.41	1.55	5.6	22.12	29.8	19.95	13.98
405227	245	SA	25.01	10.32	20.74	23.35	9.82	3.71	4.25	2.79
405327	247	SA	0.23	1.49	3.67	10.59	21.3	23.74	21.74	17.24
405427	249	SA	2.67	3.87	12.47	24.5	28.22	17.13	6.18	4.96
405527	250	DUP	14.79	3.43	2.95	2.28	2.76	3.49	30.	40.3
405527	250	SA	15.54	2.29	2.35	2.	2.75	4.01	30.62	40.45
405627	253	SA	0.34	0.76	0.9	3.47	3.75	3.81	55.73	31.24
405727	304	SA	5.57	2.08	5.36	22.68	33.57	9.9	14.45	6.39
405827	306	SA	8.13	2.51	15.7	51.76	20.06	1.54	0.15	0.15
405927	309	SA	0.81	2.18	1.27	2.25	7.29	25.54	40.78	19.88
406027	310	SA	5.08	3.06	6.32	13.84	12.89	19.24	28.27	11.29
406127	311	SA	6.37	4.19	11.58	38.35	35.23	1.23	0.23	2.81
406227	317	DUP	0.	0.	0.08	0.31	0.86	4.86	31.82	62.06
406227	317	SA	0.	0.	0.05	0.16	0.54	4.16	30.	65.08
406327	318	SA	6.33	5.37	25.91	43.44	14.71	1.41	1.17	1.64
406427	323	SA	0.	0.7	0.69	0.68	0.78	1.22	63.51	32.41
406527	324	SA	1.	1.21	2.	3.85	4.93	7.12	51.14	28.74
406627	325	SA	0.32	0.62	2.65	8.66	9.61	10.9	44.97	22.28
406727	331	DUP	0.	0.4	0.53	1.17	1.83	2.97	58.74	34.35
406727	331	SA	0.	0.43	0.58	1.28	1.74	3.05	59.43	33.48
406827	332	SA	0.4	2.84	11.89	42.91	24.83	3.69	10.41	3.03
406927	333	SA	38.72	19.4	13.66	14.49	6.24	1.04	3.33	3.13

Appendix 3. Sediment Grain-Size Data from 0-4cm samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

			PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT
Sample ID	Station ID		GRAVEL	V COARSE SAND	COARSE SAND	MEDIUM SAND	FINE SAND	V FINE SAND	SILT	CLAY
407027	334	SA	0.97	1.6	3.06	7.69	7.77	8.47	45.52	24.91
407127	335	DUP	6.74	3.88	14.03	28.27	8.09	1.07	18.3	19.62
407127	335	SA	5.76	3.28	13.83	28.74	7.5	1.14	18.54	21.22
407227	338	SA	0.	0.07	0.2	1.12	4.5	8.48	58.27	27.37
407327	339	SA	0.	0.19	0.37	1.8	8.65	21.57	44.79	22.63
407427	340	SA	0.	0.16	0.84	3.96	4.94	11.09	52.87	26.14
407527	341	SA	1.22	1.67	11.49	29.27	28.72	5.72	14.44	7.47
407627	345	SA	0.	0.43	0.19	1.61	5.95	17.99	50.71	23.13
407727	346	DUP	0.14	0.6	3.36	21.	62.57	3.66	5.4	3.28
407727	346	SA	0.15	0.66	3.56	23.42	60.2	3.67	5.2	3.13
407827	349	SA	0.26	0.75	2.62	5.85	7.51	47.25	33.77	1.99
407927	352	SA	43.83	13.66	15.12	15.51	4.5	2.22	4.18	0.99

Appendix 3. **Sediment Grain-Size from infauna grab samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.**

			PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT
Sample ID	Station ID		GRAVEL	V COARSE SAND	COARSE SAND	MEDIUM SAND	FINE SAND	V FINE SAND	SILT	CLAY
400106	105	SA	0.59	1.15	1.59	3.74	8.79	11.08	63.86	9.2
400107	105	SA	8.32	1.41	1.41	3.51	3.51	6.44	53.15	22.26
400108	105	SA	0.	0.77	1.48	3.1	6.95	10.22	70.72	6.76
400206	108	SA	0.	0.	0.09	0.12	0.5	2.06	60.68	36.55
400207	108	SA	0.	0.	0.05	0.15	0.42	2.09	65.83	31.45
400208	108	SA	0.	0.	0.1	0.17	0.49	2.24	67.64	29.37
400306	109	SA	0.81	0.81	1.32	4.09	5.95	6.96	46.54	33.51
400307	109	SA	5.62	1.16	2.	4.98	7.17	7.12	37.24	34.71
400308	109	SA	0.77	1.01	1.81	4.25	5.45	6.37	45.84	34.51
400406	111	SA	1.63	3.23	2.84	3.57	9.1	7.12	42.29	30.22
400407	111	SA	3.8	2.61	1.98	4.	5.67	6.86	52.21	22.87
400408	111	SA	2.89	3.66	2.96	5.85	10.78	11.1	45.67	17.08
400506	114	SA	0.	0.14	0.29	1.19	1.4	4.07	68.09	24.82
400507	114	SA	0.	0.28	0.33	0.4	1.27	5.35	67.49	24.89
400508	114	SA	0.	0.04	0.22	0.48	1.4	5.27	78.35	14.24
400606	115	SA	0.46	1.74	3.17	8.78	11.75	25.08	44.64	4.37
400607	115	SA	3.7	2.9	6.98	12.95	12.27	17.61	39.33	4.25
400608	115	SA	5.42	5.59	10.52	18.12	10.97	13.86	32.42	3.09
400706	117	SA	2.19	4.57	3.	4.38	3.78	5.1	56.47	20.51
400707	117	SA	3.22	4.51	4.19	4.45	3.53	4.4	62.18	13.52
400708	117	SA	2.35	4.21	3.57	4.51	3.52	4.96	62.12	14.77
400806	120	SA	2.07	0.97	1.11	3.68	4.49	4.62	64.21	18.84
400807	120	SA	0.	0.18	1.86	2.89	2.83	4.06	67.5	20.68
400808	120	SA	11.19	0.62	2.41	3.18	2.99	4.02	55.46	20.14
400906	121	SA	9.08	3.9	7.61	17.37	13.26	6.4	26.82	15.57
400907	121	SA	0.54	2.23	3.9	7.26	7.26	5.13	56.5	17.19
400908	121	SA	1.09	0.47	2.65	4.56	4.48	3.95	61.75	21.04
401006	123	SA	6.4	4.22	3.99	1.43	2.9	3.76	57.39	19.9
401007	123	SA	17.02	5.73	3.65	4.47	3.57	3.24	50.84	11.47
401008	123	SA	2.1	4.19	2.81	3.26	3.46	4.92	64.07	15.19
401106	125	SA	0.	0.	0.03	0.17	0.76	1.46	74.39	23.19
401107	125	SA	0.	0.	0.24	1.37	0.7	2.13	70.72	24.84
401108	125	SA	0.	0.01	0.01	0.8	0.53	1.21	69.79	27.65
401206	126	SA	70.83	2.55	3.84	8.2	9.65	3.07	1.18	0.69
401207	126	SA	45.04	7.18	9.25	17.87	14.61	4.03	1.4	0.62
401208	126	SA	50.76	11.04	13.56	14.76	6.65	1.55	1.3	0.38
401306	128	SA	0.03	0.15	2.	1.74	1.48	4.38	71.39	18.83
401307	128	SA	1.68	3.01	3.5	1.78	1.55	3.53	69.15	15.8
401308	128	SA	2.57	1.92	1.38	1.18	1.35	3.5	72.77	15.32
401406	130	SA	41.98	6.45	6.91	17.08	15.12	4.95	5.11	2.4
401407	130	SA	20.81	5.15	5.88	20.89	25.64	8.6	9.	4.01
401408	130	SA	35.22	3.42	3.5	10.04	24.39	10.8	8.7	3.94

Appendix 3. **Sediment Grain-Size from infauna grab samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.**

			PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT
Sample ID	Station ID		GRAVEL	V.COARSE SAND	COARSE SAND	MEDIUM SAND	FINE SAND	V.FINE SAND	SILT	CLAY
401506	131	SA	8.14	1.39	2.36	3.74	4.1	4.91	37.86	37.5
401507	131	SA	1.63	1.92	1.94	4.73	4.72	5.42	39.77	39.86
401508	131	SA	3.41	1.95	2.54	4.31	4.	6.03	41.28	36.49
401606	134	SA	1.49	0.38	0.5	0.97	2.99	4.66	60.53	28.48
401607	134	SA	0.71	0.72	0.93	3.34	3.18	5.62	58.6	26.91
401608	134	SA	0.02	0.16	0.42	1.02	2.2	5.66	58.49	32.02
401706	135	SA	20.98	4.3	10.98	29.48	28.92	3.9	1.12	0.33
401707	135	SA	13.08	5.08	12.45	32.6	29.43	5.59	1.3	0.47
401708	135	SA	10.1	4.22	12.41	34.62	32.83	4.41	1.	0.41
401806	138	SA	0.55	0.43	0.36	0.7	1.68	2.16	64.02	30.12
401807	138	SA	1.41	0.87	0.46	1.08	1.73	1.95	58.55	33.95
401808	138	SA	6.91	0.41	0.63	1.17	1.44	2.05	61.34	26.04
401906	139	SA	0.	0.11	0.48	1.2	4.64	10.84	47.09	35.64
401907	139	SA	0.03	0.24	0.65	1.37	3.68	12.03	48.03	33.97
401908	139	SA	0.43	0.59	0.98	2.66	5.69	12.14	46.21	31.3
402006	140	SA	0.51	0.32	0.2	1.22	3.	8.32	47.69	38.75
402007	140	SA	0.	0.29	0.46	1.23	3.02	7.67	47.17	40.15
402008	140	SA	0.42	0.13	0.26	1.03	3.58	9.27	46.82	38.48
402106	146	SA	2.41	1.94	4.18	8.51	25.24	10.	26.95	20.77
402107	146	SA	5.61	2.47	4.33	9.68	31.93	13.46	18.14	14.38
402108	146	SA	8.14	1.7	3.35	7.55	33.96	15.37	16.07	13.86
402206	147	SA	0.84	1.36	5.23	16.27	33.34	23.35	12.17	7.44
402207	147	SA	50.16	0.78	2.19	7.99	17.12	13.13	5.6	3.03
402208	147	SA	1.72	1.27	5.28	17.29	34.69	21.03	11.09	7.62
402306	150	SA	6.07	3.92	7.53	25.23	28.44	13.71	9.2	5.9
402307	150	SA	11.63	4.55	7.26	20.63	24.04	14.53	10.51	6.87
402308	150	SA	4.85	3.81	7.13	20.89	28.97	16.14	11.03	7.19
402406	151	SA	4.41	1.68	4.61	14.68	45.14	15.94	8.55	4.98
402407	151	SA	6.2	1.1	3.02	14.86	42.01	15.24	10.92	6.63
402408	151	SA	15.95	0.95	1.48	7.03	17.92	12.17	27.72	16.78
402506	152	SA	1.44	2.42	4.91	13.05	14.25	15.32	39.66	8.96
402507	152	SA	5.61	2.77	5.96	16.02	13.54	13.02	33.5	9.6
402508	152	SA	12.33	1.68	4.33	10.81	11.93	13.15	36.42	9.36
402606	154	SA	22.02	4.12	3.97	30.31	26.3	2.91	6.26	4.1
402607	154	SA	4.02	4.7	22.91	56.48	10.03	0.6	0.71	0.55
402608	154	SA	12.07	4.48	8.49	42.12	27.6	2.14	2.06	1.05
402706	155	SA	3.99	1.43	7.32	29.04	35.81	15.57	5.69	1.15
402707	155	SA	2.96	1.34	4.97	24.18	35.79	19.5	9.11	2.15
402708	155	SA	3.22	2.35	7.22	30.23	42.46	10.56	3.01	0.94
402806	202	SA	4.81	13.81	39.01	33.49	4.79	0.87	1.9	1.31
402807	202	SA	66.07	4.52	2.69	3.17	1.68	1.31	14.3	6.27
402808	202	SA	1.1	10.6	44.78	39.44	3.26	0.22	0.36	0.23

Appendix 3. **Sediment Grain-Size from infauna grab samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.**

Sample ID	Station ID		PCT GRAVEL	PCT V.COARSE SAND	PCT COARSE SAND	PCT MEDIUM SAND	PCT FINE SAND	PCT V.FINE SAND	PCT SILT	PCT CLAY
402906	204	SA	7.99	3.42	6.46	34.78	24.29	3.16	10.97	8.92
402907	204	SA	8.94	4.48	7.06	33.12	25.75	4.1	9.35	7.19
402908	204	SA	12.15	3.71	6.	32.74	24.07	3.02	9.86	8.45
403006	207	SA	7.81	6.23	9.01	12.42	21.62	21.11	15.82	5.99
403007	207	SA	11.06	6.14	9.3	14.37	21.35	19.87	12.92	4.98
403008	207	SA	8.24	7.39	10.09	14.45	22.08	19.05	13.63	5.07
403106	208	SA	1.66	1.61	5.88	21.81	54.15	11.28	2.2	1.41
403107	208	SA	0.68	2.08	6.81	24.91	52.09	10.54	1.55	1.34
403108	208	SA	1.29	1.59	6.29	23.11	53.84	10.6	2.07	1.2
403206	211	SA	0.23	1.58	1.95	9.73	18.02	8.54	39.53	20.42
403207	211	SA	0.64	4.11	2.34	9.99	13.06	8.59	39.84	21.43
403208	211	SA	10.8	3.91	3.47	12.43	12.23	7.07	29.91	20.18
403306	212	SA	11.02	1.65	2.65	5.78	4.86	4.91	38.47	30.65
403307	212	SA	6.51	2.07	2.24	6.11	4.62	4.78	40.07	33.61
403308	212	SA	4.54	1.51	1.72	4.44	4.03	4.77	43.98	35.03
403406	216	SA	24.87	3.43	6.81	14.9	13.54	8.59	16.11	11.75
403407	216	SA	11.57	2.7	4.65	15.18	16.41	13.89	20.68	14.92
403408	216	SA	10.35	3.32	8.11	20.65	17.61	11.14	17.7	11.13
403506	217	SA	3.1	0.04	0.28	0.35	0.32	0.59	59.92	35.39
403507	217	SA	8.06	0.17	0.57	0.87	0.88	0.68	54.57	34.19
403508	217	SA	1.73	0.15	0.21	0.29	0.49	0.55	59.05	37.52
403606	218	SA	64.05	4.82	6.01	12.01	9.68	1.36	1.11	0.95
403607	218	SA	48.03	8.49	10.21	16.99	12.02	1.82	1.21	1.24
403608	218	SA	82.59	3.21	3.69	6.27	3.43	0.47	0.22	0.11
403706	220	SA	19.16	6.78	16.17	27.29	14.33	3.27	7.39	5.61
403707	220	SA	1.19	2.55	7.18	27.62	21.71	5.78	18.76	15.21
403708	220	SA	10.3	3.19	7.82	26.96	23.17	5.45	12.96	10.15
403806	221	SA	15.43	8.47	12.16	17.09	19.04	13.31	10.79	3.71
403807	221	SA	34.42	6.31	8.	11.71	14.43	11.39	10.62	3.11
403808	221	SA	17.14	6.39	9.18	13.77	18.33	14.57	15.5	5.11
403906	222	SA	1.47	2.12	1.74	1.85	1.94	2.39	19.1	69.4
403907	222	SA	6.25	2.69	3.24	2.58	2.06	1.98	17.7	63.5
403908	222	SA	5.13	3.03	3.24	2.76	2.16	2.13	17.9	63.7
404006	224	SA	5.67	2.92	2.8	3.17	4.	4.84	24.2	52.4
404007	224	SA	3.86	1.95	1.12	3.14	5.6	7.22	29.8	47.3
404008	224	SA	8.19	3.93	3.29	5.96	6.1	6.63	27.1	38.8
404106	225	SA	2.89	4.85	7.57	18.	17.6	11.3	16.9	20.7
404107	225	SA	4.06	2.74	3.83	8.39	11.4	11.2	30.6	27.8
404108	225	SA	1.29	1.55	2.47	7.56	10.8	12.3	32.9	31.1
404206	226	SA	5.88	1.7	2.51	6.25	5.68	7.94	46.4	23.6
404207	226	SA	2.83	4.73	4.66	11.1	10.4	9.5	55.7	1.08
404208	226	SA	41.7	16.1	5.51	3.4	2.99	3.24	25.	2.01

Appendix 3. **Sediment Grain-Size from infauna grab samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.**

			PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT
Sample ID	Station ID		GRAVEL	V.COARSE SAND	COARSE SAND	MEDIUM SAND	FINE SAND	V.FINE SAND	SILT	CLAY
404306	227	SA	0.07	0.01	0.67	5.63	15.6	25.8	35.	17.2
404307	227	SA	0.	0.1	0.31	3.95	11.6	20.6	48.1	15.3
404308	227	SA	10.6	0.96	1.18	7.99	20.7	27.5	29.9	1.15
404406	230	SA	0.	1.06	1.34	3.89	6.	5.19	47.77	34.73
404407	230	SA	0.52	0.6	1.17	2.73	5.42	5.39	47.97	36.21
404408	230	SA	0.	0.42	0.85	5.72	8.88	6.95	45.21	31.97
404506	231	SA	0.21	0.54	2.4	3.92	5.92	6.	56.93	24.08
404507	231	SA	1.1	1.46	1.66	3.54	3.79	4.87	48.27	35.31
404508	231	SA	1.37	1.61	3.66	9.95	9.16	8.86	40.52	24.87
404606	235	SA	0.46	0.09	0.28	3.46	10.56	8.24	45.54	31.39
404607	235	SA	1.15	0.08	0.28	4.95	10.56	8.19	46.66	28.12
404608	235	SA	0.	0.22	1.86	15.07	26.84	12.36	28.27	15.38
404706	236	SA	8.15	3.09	2.82	6.1	8.41	8.64	47.24	15.55
404707	236	SA	2.14	0.39	1.07	3.19	5.98	8.44	51.95	26.83
404708	236	SA	4.54	4.91	5.82	9.47	10.56	7.36	32.43	24.9
404806	237	SA	32.87	7.12	8.11	11.19	9.9	6.94	15.08	8.8
404807	237	SA	19.91	13.14	12.78	17.23	10.2	5.37	13.54	7.84
404808	237	SA	5.79	4.57	12.65	21.55	13.09	6.74	22.13	13.49
404906	240	SA	0.15	0.09	0.07	0.15	1.34	2.42	50.51	45.26
404907	240	SA	0.	0.	0.	0.26	0.69	1.92	57.15	39.97
404908	240	SA	1.24	0.49	2.62	12.7	16.91	8.05	34.3	23.69
405006	241	SA	6.1	2.7	5.39	10.19	15.08	11.76	28.51	20.26
405007	241	SA	6.76	3.48	6.51	11.27	13.07	10.73	28.21	19.97
405008	241	SA	8.13	3.81	5.16	9.24	13.63	12.02	27.23	20.78
405106	242	SA	6.24	1.75	1.83	5.	20.62	26.08	23.77	14.72
405107	242	SA	6.08	1.86	2.3	5.66	16.18	22.85	27.79	17.28
405108	242	SA	4.08	1.06	1.32	5.45	28.2	31.5	17.07	11.31
405206	245	SA	9.99	11.36	27.57	31.04	11.92	3.16	2.99	1.98
405207	245	SA	22.49	18.38	25.27	22.	6.64	1.81	2.06	1.35
405208	245	SA	12.46	8.71	23.67	29.89	16.83	5.03	2.29	1.13
405306	247	SA	1.43	0.81	1.64	8.86	23.99	23.23	22.63	17.42
405307	247	SA	0.51	1.15	3.57	12.27	25.43	28.36	17.15	11.57
405308	247	SA	1.4	1.01	3.4	10.98	24.99	27.22	17.72	13.29
405406	249	SA	17.38	1.93	9.67	20.9	26.43	14.98	5.18	3.53
405407	249	SA	2.19	5.2	19.14	28.05	25.65	13.33	4.1	2.35
405408	249	SA	2.76	5.31	17.72	27.65	26.54	13.34	3.72	2.95
405506	250	SA	20.7	1.69	2.99	2.62	3.84	5.02	27.6	35.54
405507	250	SA	1.68	1.15	1.38	2.42	2.47	4.45	49.25	37.2
405508	250	SA	7.39	3.65	3.91	4.52	5.23	5.04	31.03	39.24
405606	253	SA	2.34	1.4	2.86	8.03	7.72	5.62	49.51	22.52
405607	253	SA	3.63	1.97	3.56	10.35	10.94	7.04	42.45	20.05
405608	253	SA	4.16	0.95	3.01	6.44	7.	6.09	48.17	24.18

Appendix 3. **Sediment Grain-Size from infauna grab samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.**

Sample ID	Station ID		PCT GRAVEL	PCT V.COARSE SAND	PCT COARSE SAND	PCT MEDIUM SAND	PCT FINE SAND	PCT V.FINE SAND	PCT SILT	PCT CLAY
405706	304	SA	1.96	2.23	6.19	20.48	43.48	12.05	10.44	3.17
405707	304	SA	6.32	1.87	4.96	20.76	38.59	13.13	11.16	3.2
405708	304	SA	5.27	2.39	4.66	17.05	31.87	11.4	18.15	9.21
405806	306	SA	6.72	2.62	18.02	52.56	18.76	1.28	0.04	0.
405807	306	SA	2.88	4.44	21.31	51.92	17.73	1.27	0.43	0.02
405808	306	SA	3.63	3.93	20.03	50.61	19.95	1.43	0.15	0.27
405906	309	SA	0.27	0.64	1.03	3.12	6.34	26.	45.87	16.73
405907	309	SA	1.91	0.4	1.59	4.04	7.87	28.27	42.07	13.85
405908	309	SA	0.16	1.19	1.15	2.47	6.14	26.38	46.7	15.81
406006	310	SA	1.77	1.25	2.8	7.68	11.5	23.75	38.76	12.48
406007	310	SA	2.66	3.56	5.84	11.61	10.3	16.72	33.48	15.82
406008	310	SA	7.84	4.97	9.	14.77	9.77	11.53	27.26	14.84
406106	311	SA	4.94	4.72	11.72	38.88	33.42	1.23	0.91	4.19
406107	311	SA	3.38	6.45	13.64	37.61	33.5	1.27	0.35	3.81
406108	311	SA	6.91	4.8	13.75	41.64	29.02	0.93	0.6	2.35
406206	317	SA	0.22	1.22	1.72	0.39	0.42	2.77	50.48	42.77
406207	317	SA	0.36	0.91	1.12	1.35	2.3	9.21	17.3	67.45
406208	317	SA	0.64	0.3	0.37	0.51	1.04	6.38	40.15	50.61
406306	318	SA	9.27	5.38	20.33	43.66	16.68	2.23	0.91	1.54
406307	318	SA	16.88	6.03	24.74	34.25	10.83	1.57	2.44	3.26
406308	318	SA	6.46	3.65	17.75	48.21	18.78	2.92	0.95	1.28
406406	323	SA	4.97	2.76	2.38	2.97	4.52	8.49	56.78	17.13
406407	323	SA	0.	0.51	0.23	0.46	0.84	2.18	66.	29.78
406408	323	SA	1.5	1.6	0.93	1.4	1.43	2.89	63.52	26.73
406506	324	SA	2.26	3.44	2.53	4.98	5.65	6.9	45.23	29.02
406507	324	SA	1.07	0.89	1.96	2.98	3.52	5.31	49.96	34.3
406508	324	SA	0.81	0.63	0.9	2.28	2.75	5.28	54.42	32.94
406606	325	SA	0.28	0.76	2.3	6.71	7.21	11.11	47.46	24.17
406607	325	SA	0.32	0.69	1.77	4.65	6.3	9.22	50.63	26.43
406608	325	SA	3.5	0.91	0.86	2.01	3.12	7.18	55.32	27.1
406706	331	SA	0.56	1.35	1.39	2.72	2.19	3.86	57.78	30.15
406707	331	SA	0.18	1.44	2.26	3.67	2.68	3.62	58.48	27.67
406708	331	SA	0.62	1.04	2.53	4.69	3.23	3.78	54.92	29.19
406806	332	SA	0.94	4.44	13.92	41.86	20.88	3.51	10.94	3.49
406807	332	SA	1.23	2.89	12.2	41.01	24.05	3.39	10.49	4.74
406808	332	SA	0.49	4.03	13.55	39.93	22.23	3.63	11.35	4.78
406906	333	SA	21.15	18.49	18.89	21.7	8.21	1.3	5.39	4.86
406907	333	SA	23.7	18.66	20.2	20.18	8.59	1.36	4.14	3.17
406908	333	SA	9.6	17.73	22.16	26.36	11.37	2.	6.18	4.6
407006	334	SA	1.44	1.52	2.74	8.31	10.63	9.38	43.11	22.86
407007	334	SA	10.67	1.99	4.24	8.04	8.14	7.31	38.18	21.43
407008	334	SA	0.2	2.01	2.4	4.81	6.07	7.6	49.07	27.84

Appendix 3. Sediment Grain-Size from infauna grab samples for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

			PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT
Sample ID	Station ID		GRAVEL	V COARSE SAND	COARSE SAND	MEDIUM SAND	FINE SAND	V FINE SAND	SILT	CLAY
407106	335	SA	2.46	4.08	10.34	25.84	12.8	1.32	20.08	23.08
407107	335	SA	37.75	4.73	5.97	6.68	1.37	0.61	18.55	24.34
407108	335	SA	27.87	3.17	10.22	23.25	8.39	0.78	12.1	14.22
407206	338	SA	0.	0.08	0.14	1.34	4.26	7.99	57.4	28.8
407207	338	SA	0.	0.02	0.07	0.81	3.72	8.11	58.19	29.07
407208	338	SA	0.	0.12	0.19	2.65	6.55	8.43	55.24	26.81
407306	339	SA	0.22	0.09	0.6	2.86	9.59	22.44	43.67	20.53
407307	339	SA	0.68	0.17	0.51	2.7	8.4	23.03	43.91	20.6
407308	339	SA	0.13	0.11	0.35	2.07	8.62	24.41	44.15	20.16
407406	340	SA	0.11	0.15	0.44	2.37	3.49	9.21	55.7	28.53
407407	340	SA	0.07	0.81	2.21	6.86	7.01	12.91	49.65	20.48
407408	340	SA	0.	0.53	1.4	5.45	6.58	11.76	50.5	23.78
407506	341	SA	3.79	3.25	18.17	25.3	22.26	4.57	14.53	8.13
407507	341	SA	0.58	3.59	17.76	30.99	22.91	6.13	12.91	5.14
407508	341	SA	0.95	1.03	13.23	30.94	30.2	5.07	12.2	6.37
407606	345	SA	0.06	0.06	0.41	2.28	4.68	18.05	52.04	22.41
407607	345	SA	0.1	0.05	0.2	2.51	5.39	18.88	51.	21.87
407608	345	SA	0.11	0.2	0.33	2.25	4.92	18.3	50.26	23.64
407706	346	SA	0.41	0.14	1.25	22.68	62.19	3.41	6.4	3.51
407707	346	SA	0.79	0.76	4.	18.63	59.5	4.92	8.24	3.16
407708	346	SA	0.2	0.61	3.28	20.7	61.05	3.59	6.75	3.81
407806	349	SA	0.12	1.13	2.9	5.24	7.03	38.19	38.77	6.62
407807	349	SA	0.42	0.7	2.8	4.24	5.83	35.34	41.81	8.87
407808	349	SA	0.42	4.16	6.77	7.71	7.74	33.84	34.14	5.22
407906	352	SA	22.7	6.75	13.49	23.58	8.82	5.9	12.26	6.5
407907	352	SA	40.51	7.69	10.42	16.16	6.64	4.34	9.06	5.18
407908	352	SA	26.94	8.61	19.59	23.43	6.76	3.31	8.5	2.85

Appendix 4

Appendix 4

TOC Data from the 2004 NBH LTM IV Survey

Appendix 4. TOC Data for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Station ID	Sample ID	SDG		TOC PCT	Station ID	Sample ID	SDG		TOC PCT
105	400138	090704-01	SA	9.11	225	404138	090704-01	SA	5.14
108	400238	090704-01	SA	9.87	226	404238	090704-01	SA	6.15
109	400338	090704-01	SA	5.76	227	404338	090704-01	SA	4.29
111	400438	090704-01	SA	6.56	230	404438	090704-03	SA	6.11
114	400538	090704-01	SA	9.41	231	404538	090704-01	SA	4.53
115	400638	090704-02	SA	10.32	235	404638	090704-01	SA	5.09
117	400738	090704-01	SA	9.32	236	404738	090704-01	SA	4.65
120	400838	090704-02	SA	9.85	237	404838	090704-04	SA	11.2
121	400938	090704-02	SA	7.78	240	404938	090704-04	SA	5.12
123	401038	090704-02	SA	8.46	241	405038	090704-04	SA	3.06
125	401138	090704-02	SA	8.89	242	405138	090704-04	SA	2.03
126	401238	090704-02	SA	0.7	245	405238	090704-04	SA	0.61
128	401338	090704-02	SA	8.46	247	405338	090704-04	SA	4.78
130	401438	090704-02	SA	4.88	249	405438	090704-04	SA	1.4
131	401538	090704-02	SA	8.43	250	405538	090704-04	SA	5.45
134	401638	090704-03	SA	7.8	253	405638	090704-04	SA	5.14
135	401738	090704-03	SA	0.2	304	405738	090704-04	SA	0.81
138	401838	090704-03	SA	8.46	306	405838	090704-04	SA	0.05
139	401938	090704-03	SA	7.74	309	405938	090704-02	SA	1.76
140	402038	090704-03	SA	8.11	310	406038	090704-01	SA	1.09
146	402138	090704-03	SA	5.43	311	406138	090704-01	SA	0.16
147	402238	090704-03	SA	1.47	317	406238	090704-01	SA	2.98
150	402338	090704-03	SA	5.63	318	406338	090704-01	SA	0.14
151	402438	090704-03	SA	2.43	323	406438	090704-02	SA	3.32
152	402538	090704-03	SA	3.96	324	406538	090704-02	SA	2.74
154	402638	090704-03	SA	0.84	325	406638	090704-01	SA	1.88
155	402738	090704-03	SA	0.7	331	406738	090704-02	SA	2.29
202	402838	090704-03	SA	0.6	332	406838	090704-02	SA	0.34
204	402938	090704-03	DUP	3.33	333	406938	090704-02	SA	0.35
204	402938	090704-03	SA	3.3	334	407038	090704-04	SA	1.79
207	403038	090704-03	SA	7.35	335	407138	090704-04	SA	1.18
208	403138	090704-03	SA	0.27	338	407238	090704-02	DUP	1.48
211	403238	090704-02	SA	6.25	338	407238	090704-02	SA	1.5
212	403338	090704-03	SA	8.06	339	407338	090704-04	DUP	1.3
216	403438	090704-02	SA	2.67	339	407338	090704-04	SA	1.26
217	403538	090704-02	SA	7.26	340	407438	090704-04	SA	1.59
218	403638	090704-03	SA	0.52	341	407538	090704-04	SA	0.53
220	403738	090704-02	SA	3.02	345	407638	090704-04	SA	1.67
221	403838	090704-03	SA	6.55	346	407738	090704-04	SA	0.23
222	403938	090704-01	SA	6.76	349	407838	090704-04	SA	0.35
224	404038	090704-01	SA	7.27	352	407938	090704-04	SA	0.2

Appendix 5

Appendix 5

PCB Data

5a. Total PCBs Data from the 2004 NBH LTM IV Survey

5b. NOAA PCB Congeners Data from the 2004 NBH LTM IV Survey

Appendix 5a

Total PCBs Data from the 2004 NBH LTM IV Survey

Appendix 5a. Total PCBs Data from the 2004 NBH LTM IV Survey.

Sample ID	Station ID		SDG	Total PCB ug/g Dry Wt.
400130	105	SA	04-0465	152.16
400230	108	SA	04-0465	140.07
400330	109	SA	04-0465	169.53
400430	111	SA	04-0465	159.45
400530	114	SA	04-0465	102.65
400630	115	SA	04-0465	117.04
400730	117	SA	04-0465	101.36
400830	120	SA	04-0465	112.45
400930	121	SA	04-0465	65.45
401030	123	SA	04-0465	85.78
401130	125	SA	04-0465	59.40
401230	126	SA	04-0465	3.04
401330	128	SA	04-0465	62.48
401430	130	SA	04-0465	27.34
401530	131	SA	04-0465	52.49
401630	134	SA	04-0465	42.11
401730	135	SA	04-0463	0.37
401830	138	SA	04-0463	43.98
401930	139	SA	04-0463	39.44
408030	139	DUP	04-0463	43.11
402030	140	SA	04-0463	32.48
402130	146	SA	04-0463	8.60
402230	147	SA	04-0463	4.84
402330	150	SA	04-0463	11.91
402430	151	SA	04-0463	4.96
402530	152	SA	04-0463	18.77
402630	154	SA	04-0463	2.31
402730	155	SA	04-0464	1.85
402830	202	SA	04-0464	1.66
402930	204	SA	04-0463	5.69
403030	207	SA	04-0463	4.91
403130	208	SA	04-0463	0.43
408130	208	DUP	04-0463	0.37
403230	211	SA	04-0463	14.12
403330	212	SA	04-0463	14.96
403430	216	SA	04-0463	3.35
403530	217	SA	04-0463	15.60
403630	218	SA	04-0464	1.07
403730	220	SA	04-0466	2.96
403830	221	SA	04-0466	2.09
403930	222	SA	04-0466	13.82
404030	224	SA	04-0466	6.29

Appendix 5a. Total PCBs Data from the 2004 NBH LTM IV Survey.

Sample ID	Station ID		SDG	Total PCB ug/g Dry Wt
404130	225	SA	04-0466	7.22
404230	226	SA	04-0466	8.25
404330	227	SA	04-0466	4.22
404430	230	SA	04-0466	4.28
404530	231	SA	04-0466	3.93
404630	235	SA	04-0466	4.12
404730	236	SA	04-0466	4.35
404830	237	SA	04-0464	1.45
404930	240	SA	04-0464	3.31
405030	241	SA	04-0464	1.92
405130	242	SA	04-0464	1.57
405230	245	SA	04-0464	0.38
405330	247	SA	04-0464	1.71
405430	249	SA	04-0464	0.67
405530	250	SA	04-0464	2.91
405630	253	SA	04-0464	3.61
405730	304	SA	04-0464	0.73
405830	306	SA	04-0462	0.00
405930	309	SA	04-0462	0.23
406030	310	SA	04-0464	0.64
406130	311	SA	04-0462	0.01
406230	317	SA	04-0464	0.71
406330	318	SA	04-0462	0.01
406430	323	SA	04-0464	0.26
406530	324	SA	04-0464	0.65
406630	325	SA	04-0464	0.36
408230	325	DUP	04-0464	0.40
406730	331	SA	04-0464	0.17
406830	332	SA	04-0462	0.01
406930	333	SA	04-0462	0.01
407030	334	SA	04-0462	0.06
407130	335	SA	04-0462	0.05
407230	338	SA	04-0462	0.04
407330	339	SA	04-0462	0.03
407430	340	SA	04-0462	0.02
407530	341	SA	04-0462	0.01
407630	345	SA	04-0462	0.02
407730	346	SA	04-0462	0.00
407830	349	SA	04-0462	0.01
407930	352	SA	04-0462	0.00

Appendix 5b

NOAA PCB Congeners Data from the 2004 NBH LTM IV Survey

Appendix 5b. NOAA PCB Congeners Data from the 2004 NBH LTM IV Survey.

			BZ 8		BZ 18		BZ 28		BZ 44		BZ 52		BZ 66		BZ 101		BZ 105		BZ 118		BZ 128		BZ 138		BZ 153		BZ 170		BZ 180		BZ 187		BZ 195	
			2,4'-DiCB		2,2',5-TriCB		2,4,4'-TriCB		2,2',3,5'-TetraCB		2,2',5,5'-TetraCB		2,3',4,4'-TetraCB		2,2',4,5,5'-PentaCB		2,3,3',4,4'-PentaCB		2,3',4,4',5-PentaCB		2,2',3,3',4,4'-HexaCB		2,2',3,4,4',5'-HexaCB		2,2',4,4',5,5'-HexaCB		2,2',3,3',4,4',5-HeptaCB		2,2',3,4,4',5,5'-HeptaCB		2,2',3,4',5,5',6-HeptaCB		2,2',3,3',4,4',5,6-OctaCB	
Station ID	Sample ID		Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual
222	403930	SA	0.142	D	0.475	D	1.8	ED	0.584	D	1.74	ED	0.857	D	1.58	ED	0.462	D	1.92	ED	0.252	D	1.52	ED	1.86	ED	0.196	D	0.221	D	0.171	D	0.015	D
224	404030	SA	0.073	D	0.19	D	0.76	D	0.267	D	0.74	D	0.446	D	0.787	D	0.218	D	0.856	D	0.114	D	0.659	D	0.837	D	0.101	D	0.109	D	0.102	D	0.016	D
225	404130	SA	0.24	D	0.731	D	1.04	D	0.361	D	1.61	ED	0.283	D	0.552	D	0.165	D	0.642	D	0.0862	D	0.537	D	0.692	D	0.0806	D	0.0872	D	0.094	D	0.01	D
226	404230	SA	0.092	D	0.316	D	0.979	D	0.416	D	0.949	D	0.597	D	1	D	0.347	D	1.12	D	0.167	D	0.906	D	1.01	D	0.105	D	0.127	D	0.0935	D	0.01	D
227	404330	SA	0.047	D	0.123	D	0.53	D	0.168	D	0.426	D	0.331	D	0.496	D	0.173	D	0.6	D	0.0844	D	0.464	D	0.549	D	0.075	D	0.0762	D	0.0655	D	0.006	Dj
230	404430	SA	0.052	D	0.134	D	0.481	D	0.187	D	0.486	D	0.311	D	0.502	D	0.172	D	0.585	D	0.0866	D	0.479	D	0.563	D	0.0817	D	0.0757	D	0.0643	D	0.006	Dj
231	404530	SA	0.065	D	0.136	D	0.485	D	0.17	D	0.423	D	0.266	D	0.445	D	0.162	D	0.544	D	0.0794	D	0.432	D	0.512	D	0.068	D	0.068	D	0.0574	D	0.005	Dj
235	404630	SA	0.081	D	0.186	D	0.516	D	0.223	D	0.475	D	0.312	D	0.446	D	0.174	D	0.528	D	0.0828	D	0.428	D	0.479	D	0.0591	D	0.0683	D	0.0519	D	0.005	Dj
236	404730	SA	0.079	D	0.158	D	0.446	D	0.215	D	0.51	D	0.244	D	0.504	D	0.206	D	0.593	D	0.103	D	0.525	D	0.569	D	0.0574	D	0.0771	D	0.0558	D	0.005	Dj
237	404830	SA	0.004	D	0.01	D	0.03	D	0.047	D	0.12	D	0.043	D	0.256	D	0.0991	D	0.253	D	0.0544	D	0.237	D	0.223	D	0.017	D	0.0272	D	0.0145	D	0.004	D
240	404930	SA	0.06	D	0.133	D	0.399	D	0.165	D	0.401	D	0.256	D	0.378	D	0.128	D	0.426	D	0.0787	D	0.351	D	0.391	D	0.0342	D	0.053	D	0.0374	D	0.006	D
241	405030	SA	0.031	D	0.072	D	0.207	D	0.095	D	0.215	D	0.141	D	0.227	D	0.0861	D	0.262	D	0.046	D	0.219	D	0.233	D	0.0232	D	0.0338	D	0.0222	D	0.004	D
242	405130	SA	0.036	D	0.076	D	0.208	D	0.085	D	0.181	D	0.131	D	0.172	D	0.0625	D	0.194	D	0.0328	D	0.158	D	0.175	D	0.0151	D	0.0237	D	0.0163	D	0.003	D
245	405230	SA	0.005	D	0.013	D	0.047	D	0.017	D	0.039	D	0.035	D	0.045	D	0.0145	D	0.0496	D	0.0177	D	0.0377	D	0.0429	D	0.0038	D	0.006	D	0.0043	D	7E-04	Dj
247	405330	SA	0.04	D	0.061	D	0.244	D	0.069	D	0.172	D	0.156	D	0.181	D	0.0602	D	0.227	D	0.0333	D	0.164	D	0.212	D	0.0192	D	0.0357	D	0.028	D	0.005	D
249	405430	SA	0.007	D	0.022	D	0.094	D	0.028	D	0.074	D	0.061	D	0.0809	D	0.0261	D	0.0957	D	0.0169	D	0.0636	D	0.0769	D	0.0064	D	0.0098	D	0.0073	D	0.001	Dj
250	405530	SA	0.058	D	0.124	D	0.374	D	0.136	D	0.376	D	0.219	D	0.325	D	0.108	D	0.373	D	0.058	D	0.292	D	0.348	D	0.0281	D	0.0424	D	0.0332	D	0.005	D
253	405630	SA	0.065	D	0.12	D	0.492	D	0.137	D	0.327	D	0.34	D	0.43	D	0.156	D	0.514	D	0.0744	D	0.374	D	0.431	D	0.036	D	0.0542	D	0.039	D	0.007	D
304	405730	SA	0.042	D	0.051	D	0.117	D	0.036	D	0.088	D	0.059	D	0.0659	D	0.0249	D	0.0814	D	0.013	D	0.0588	D	0.0671	D	0.0063	D	0.009	D	0.0064	D	0.001	Dj
306	405830	SA	7E-05	U	5E-04		5E-04		2E-04		4E-04		2E-04		0.0005		6E-05	j	0.0003		5E-05	U	0.0003		0.0003		0.0002		4E-05	j	3E-05	j	3E-05	U
309	405930	SA	0.003	D	0.006	D	0.015	D	0.01	D	0.018	D	0.017	D	0.0281	D	0.0102	D	0.0331	D	0.0077	D	0.0317	D	0.0345	D	0.005	D	0.0059	D	0.0036	D	7E-04	Dj
310	406030	SA	0.021	D	0.036	D	0.078	D	0.037	D	0.074	D	0.048	D	0.0659	D	0.0298	D	0.0799	D	0.0153	D	0.0664	D	0.0656	D	0.0066	D	0.0095	D	0.0058	D	1E-03	Dj
311	406130	SA	4E-04		4E-04		0.001		6E-04		0.001		9E-04		0.0015		0.0004		0.0017		0.0003		0.0017		0.0018		0.0001		0.0002		0.0002		3E-05	j
317	406230	SA	0.015	D	0.022	D	0.069	D	0.032	D	0.064	D	0.056	D	0.0796	D	0.0354	D	0.106	D	0.0199	D	0.0874	D	0.0884	D	0.0106	D	0.0134	D	0.0086	D	0.002	Dj
318	406330	SA	8E-05	U	2E-04		9E-04		4E-04		9E-04		7E-04		0.0012		0.0003		0.0011		0.0002		0.0013		0.0013		0.0001		0.0002		0.0001		4E-05	U
323	406430	SA	0.005	D	0.007	D	0.024	D	0.01	D	0.023	D	0.022	D	0.0285	D	0.0114	D	0.0386	D	0.0071	D	0.0324	D	0.0336	D	0.0034	D	0.0049	D	0.0033	D	1E-03	DU
324	406530	SA	0.014	D	0.021	D	0.062	D	0.032	D	0.065	D	0.053	D	0.0766	D	0.0297	D	0.0941	D	0.0165	D	0.0754	D	0.0773	D	0.009	D	0.0118	D	0.0073	D	0.001	DU
325	406630	SA	0.007	D	0.01	D	0.037	D	0.016	D	0.031	D	0.031	D	0.0398	D	0.0166	D	0.0538	D	0.0106	D	0.0438	D	0.0448	D	0.0051	D	0.0066	D	0.0043	D	0.001	DU
325(dup)	408230	SA	0.008	D	0.011	D	0.041	D	0.018	D	0.034	D	0.035	D	0.0452	D	0.0191	D	0.0582	D	0.0108	D	0.0471	D	0.0475	D	0.0055	D	0.007	D	0.0045	D	0.001	DU
331	406730	SA	0.003	DU	0.004	D	0.017	D	0.006	D	0.014	D	0.016	D	0.0192	D	0.0077	D	0.028	D	0.0047	D	0.0221	D	0.0227	D	0.0021	Dj	0.0029	D	0.0021	Dj	0.001	DU
332	406830	SA	3E-04		3E-04		0.001		4E-04		8E-04		1E-03		0.0014		0.0004		0.0016		0.0003		0.0016		0.0015		0.0002		0.0003		0.0002		3E-05	U
333	406930	SA	4E-04		4E-04		0.001		4E-04		0.001		0.001		0.0017		0.0004		0.0019		0.0004		0.002		0.0019		0.0002		0.0003		0.0002		3E-05	U
334	407030	SA	9E-04	D	1E-03	D	0.005	D	0.002	D	0.004	D	0.005	D	0.0065	D	0.0024	D	0.0087	D	0.002	D	0.008	D	0.0079	D	0.0007	Dj	0.0012	D	0.0008	D	4E-04	DU
335	407130	SA	0.001	D	1E-03	D	0.004	D	0.002	D	0.004	D	0.005	D	0.0063	D	0.0021	D	0.0078	D	0.0019	D	0.0072	D	0.0076	D	0.0007	D	0.0011	D	0.0011	D	1E-04	DU
338	407230	SA	9E-04	D	7E-04	D	0.003	D	0.001	D	0.003	D	0.003	D	0.0041	D	0.0013	D	0.0054	D	0.0011	D	0.0048	D	0.0048	D	0.0014	D	0.0007	D	0.0005	Dj	3E-04	DU
339	407330	SA	7E-04	DU	5E-04	DU	0.002	D	9E-04	D	0.002	D	0.002	D	0.0029	D	0.001	D	0.004	D	0.0008	D	0.0038	D	0.0037	D	0.0004	Dj	0.0005	Dj	0.0004	Dj	3E-04	DU
340	407430	SA	7E-04	DU	5E-04	DU	0.002	D	8E-04	D	0.002	D	0.002	D	0.0026	D	0.0009	D	0.0035	D	0.0007	D	0.0037	D	0.0032	D	0.0003	Dj	0.0005	Dj	0.0003	Dj	3E-04	DU
341	407530	SA	0.003	D	3E-04	D	0.001	D	4E-04	D	8E-04	D	9E-04	D	0.0013	D	0.0004	D	0.0017	D	0.0004	D	0.0017	D	0.0014	D	0.0006	D	0.0002	D	0.0002	Dj	1E-04	DU
345	407630	SA	6E-04	DU	4E-04	DU	0.002	D	5E-04	Dj	0.001	D	0.001	D	0.0017	D	0.0005	Dj	0.0022	D	0.0005	Dj	0.0023	D	0.0021	D	0.0002	Dj	0.0003	Dj	0.0002	Dj	3E-04	DU
346	407730	SA	1E-04		1E-04		6E-04		2E-04		2E-04		3E-04		0.0004		0.0001		0.0005		9E-05		0.0005		0.0004		0.0004		8E-05		5E-05	j	3E-05	U
349	407830	SA	2E-04	DU	2E-04	D	9E-04	D	2E-04	D	5E-04	D	6E-04	D	0.0008	D	0.0002	Dj	0.0009	D	0.0002	D	0.0001	DU	0.0009	D	0.0002	Dj	0.0001	Dj	9E-05	Dj	1E-04	DU
352	407930	SA	7E-05	U	2E-04		6E-04		2E-04		3E-04		3E-04		0.0006		0.0001		0.0006		0.0001		0.0006		0.0006		9E-05		0.0001		8E-05		3E-05	U

Note: NOAA _PCB results are recorded in UG/G_DRYWT

Appendix 5b. NOAA PCB Congeners Data from the 2004 NBH LTM IV Survey.

			BZ 8		BZ 18		BZ 28		BZ 44		BZ 52		BZ 66		BZ 101		BZ 105		BZ 118		BZ 128		BZ 138		BZ 153		BZ 170		BZ 180		BZ 187		BZ 195	
			2,4'-DiCB		2,2',5-TriCB		2,4,4'-TriCB		2,2',3,5'-TetraCB		2,2',5,5'-TetraCB		2,3',4,4'-TetraCB		2,2',4,5,5'-PentaCB		2,3,3',4,4'-PentaCB		2,3',4,4',5-PentaCB		2,2',3,3',4,4'-HexaCB		2,2',3,4,4',5-HexaCB		2,2',4,4',5,5'-HexaCB		2,2',3,3',4,4',5-HeptaCB		2,2',3,4,4',5,5'-HeptaCB		2,2',3,4',5,5',6-HeptaCB		2,2',3,3',4,4',5,6-OctaCB	
Station ID	Sample ID		Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual
105	400130	SA	4.5	D	21.2	D	30.1	D	7.65	ED	47.3	D	2.16	D	7.9	ED	0.695	D	7.48	ED	0.529	D	5.98	D	12.7	ED	1.02	D	1.05	D	1.56	D	0.187	D
108	400230	SA	3.94	D	19.3	D	29.8	D	7.08	D	41.5	D	2.5	D	7.76	ED	0.82	D	7.08	D	0.56	D	5.52	D	10.4	ED	0.956	D	1.05	D	1.48	D	0.147	D
109	400330	SA	9.77	D	31.3	D	36	D	7.3	ED	58.2	D	1.02	D	4.39	ED	0.449	D	4.08	D	0.332	D	4.57	D	8.87	ED	0.674	D	0.816	D	1.48	D	0.122	D
111	400430	SA	14.1	D	35.5	D	37.2	D	4.64	ED	42.2	D	1.06	D	4.08	ED	0.404	D	4.82	D	0.317	D	3.68	D	8.38	ED	0.739	D	0.88	D	1.17	D	0.117	D
114	400530	SA	2.93	D	15.4	ED	22.2	D	5.61	ED	29.1	D	1.65	D	5.59	ED	0.536	D	4.9	D	0.392	D	4.04	D	7.4	ED	0.737	D	0.787	D	1.13	D	0.101	D
115	400630	SA	2.56	D	12.2	ED	24.8	D	6.78	D	34.8	D	1.79	D	6.54	D	0.848	D	6.17	D	0.692	D	6	D	9.84	ED	1.01	D	1.14	D	1.53	D	0.147	D
117	400730	SA	3.74	D	15.2	D	23.2	D	5.02	D	26.7	D	1.71	D	5.83	ED	0.563	D	5	D	0.42	D	3.96	D	7.2	ED	0.715	D	0.806	D	1.06	D	0.1	D
120	400830	SA	4.48	D	14.8	D	25.5	D	7.29	ED	25.2	D	1.76	D	8.72	ED	0.882	D	6.12	D	0.591	D	5.05	D	8.88	ED	0.809	D	0.942	D	1.18	D	0.107	D
121	400930	SA	1.64	D	7.04	D	13.3	ED	3.17	D	18.9	D	1.39	D	4.65	D	0.448	D	4.32	D	0.312	D	2.98	D	5.36	D	0.394	D	0.599	D	0.777	D	0.07	D
123	401030	SA	2.93	D	11.8	ED	19.6	D	4.34	D	22.1	D	1.6	D	5.28	D	0.541	D	4.63	D	0.407	D	3.66	D	6.34	D	0.63	D	0.761	D	0.955	D	0.091	D
125	401130	SA	1.46	D	5.23	D	11.6	ED	3.58	D	14.3	ED	1.96	D	4.97	D	0.649	D	4.46	D	0.405	D	3.36	D	5.26	D	0.594	D	0.638	D	0.774	D	0.072	D
126	401230	SA	0.083	D	0.358	D	0.632	D	0.136	D	0.68	D	0.092	D	0.232	D	0.044	D	0.247	D	0.0228	D	0.173	D	0.251	D	0.0228	D	0.0282	D	0.0264	D	0.009	DU
128	401330	SA	1.83	D	6.2	D	13.6	ED	3.9	D	15	D	1.76	D	4.64	D	0.648	D	4.2	D	0.408	D	3.3	D	5	D	0.492	D	0.618	D	0.715	D	0.072	D
130	401430	SA	1.67	D	4.01	ED	6.21	ED	1.43	D	5.11	ED	1.37	D	1.57	D	0.355	D	1.79	D	0.17	D	1.16	D	1.71	D	0.223	D	0.232	D	0.259	D	0.032	D
131	401530	SA	1.32	D	4.7	D	10.5	ED	3.12	D	13.5	ED	1.56	D	3.79	D	0.559	D	3.86	D	0.395	D	2.92	D	4.42	D	0.502	D	0.576	D	0.624	D	0.061	D
134	401630	SA	0.834	D	3.15	D	7.7	ED	2.72	D	8.6	ED	1.89	D	3.89	D	0.651	D	3.86	D	0.389	D	2.77	D	4.07	D	0.422	D	0.51	D	0.532	D	0.053	D
135	401730	SA	0.007	D	0.028	D	0.061	D	0.021	D	0.069	D	0.024	D	0.0402	D	0.0058	D	0.0353	D	0.0036	D	0.0253	D	0.0357	D	0.0026	D	0.0043	D	0.0044	D	7E-04	DU
138	401830	SA	0.282	D	2.06	ED	7.28	D	3.16	D	8.15	D	2.93	D	5.25	D	0.7	D	4.4	D	0.471	D	3.41	D	4.5	D	0.302	D	0.531	D	0.425	D	0.057	D
139	401930	SA	0.874	ED	3.5	D	6.52	D	3.18	D	8.09	D	1.92	D	3.91	D	0.529	D	3.22	D	0.379	D	2.65	D	3.45	D	0.32	D	0.431	D	0.362	D	0.044	D
139(dup)	408030	SA	0.98	D	3.61	D	7.52	D	3.64	D	8.78	D	2.05	ED	4.56	D	0.558	D	3.44	D	0.406	D	2.7	D	3.56	D	0.346	D	0.467	D	0.372	D	0.05	D
140	402030	SA	0.613	D	1.98	ED	5.64	D	1.96	ED	7.06	D	1.62	ED	3.39	ED	0.477	D	3.11	ED	0.309	D	2.18	ED	3.09	D	0.267	D	0.36	D	0.324	D	0.041	D
146	402130	SA	0.134	D	0.491	D	1.46	ED	0.494	D	2.08	ED	0.468	D	0.836	ED	0.128	D	0.771	ED	0.0864	D	0.549	D	0.827	ED	0.0725	D	0.0957	D	0.0817	D	0.011	D
147	402230	SA	0.093	D	0.272	ED	0.837	D	0.247	ED	1.03	D	0.242	ED	0.526	ED	0.0685	D	0.492	ED	0.0471	D	0.348	ED	0.468	D	0.0417	D	0.0563	D	0.0534	D	0.008	D
150	402330	SA	0.269	D	0.776	ED	2.05	D	0.84	ED	2.08	D	1.01	D	1.26	D	0.242	D	1.33	ED	0.119	D	0.72	ED	0.934	D	0.0639	D	0.103	D	0.0866	D	0.011	D
151	402430	SA	0.101	D	0.31	ED	0.849	D	0.291	ED	1.06	D	0.267	D	0.516	ED	0.075	D	0.486	ED	0.0491	D	0.335	ED	0.468	D	0.033	D	0.0555	D	0.0501	D	0.006	D
152	402530	SA	0.455	ED	1.09	D	1.94	D	1.22	D	3.08	D	0.419	ED	2.8	D	0.137	D	2.25	D	0.149	D	1.71	D	2.92	D	0.134	D	0.204	D	0.198	D	0.025	D
154	402630	SA	0.038	D	0.133	D	0.405	ED	0.137	D	0.496	ED	0.138	D	0.233	D	0.0356	D	0.209	D	0.0254	D	0.153	D	0.227	D	0.0174	D	0.0264	D	0.0244	D	0.003	D
155	402730	SA	0.038	D	0.087	D	0.348	ED	0.08	D	0.371	ED	0.117	D	0.192	ED	0.0294	D	0.178	ED	0.0188	D	0.126	D	0.212	ED	0.0127	D	0.0204	D	0.0195	D	0.003	D
202	402830	SA	0.026	D	0.087	D	0.298	ED	0.088	D	0.36	D	0.093	D	0.167	ED	0.0259	D	0.152	ED	0.0164	D	0.109	D	0.183	ED	0.0115	D	0.0184	D	0.0166	D	0.002	D
204	402930	SA	0.111	DT	0.25	DT	0.752	DT	0.31	DT	0.843	EDT	0.431	DT	0.696	DT	0.131	DT	0.667	DT	0.0892	DT	0.5	DT	0.664	DT	0.053	DT	0.0893	DT	0.0695	DT	0.011	DT
207	403030	SA	0.045	D	0.227	D	0.75	ED	0.254	D	0.768	ED	0.386	D	0.633	D	0.119	D	0.572	D	0.0746	D	0.396	D	0.522	D	0.0369	D	0.0591	D	0.0556	D	0.007	D
208	403130	SA	0.005	D	0.017	D	0.063	D	0.02	D	0.062	D	0.032	D	0.0537	D	0.01	D	0.0521	D	0.006	D	0.039	D	0.0518	D	0.004	Dj	0.0063	D	0.0051	D	0.002	DU
208(dup)	408130	SA	0.004	DU	0.014	D	0.053	D	0.018	D	0.055	D	0.027	D	0.047	D	0.009	D	0.0453	D	0.0053	D	0.0353	D	0.0465	D	0.0016	Dj	0.0059	D	0.0049	D	0.002	DU
211	403230	SA	0.163	D	0.552	D	1.92	ED	0.752	D	1.95	ED	1.17	ED	1.87	ED	0.331	D	1.74	ED	0.186	D	1.18	ED	1.8	ED	0.138	D	0.186	D	0.133	D	0.02	D
212	403330	SA	0.16	D	0.512	D	1.96	ED	0.722	D	1.95	ED	1.11	D	1.9	ED	0.463	D	1.91	ED	0.264	D	1.48	ED	1.96	ED	0.136	D	0.221	D	0.149	D	0.026	D
216	403430	SA	0.042	D	0.152	D	0.492	D	0.188	D	0.495	D	0.26	D	0.391	D	0.0875	D	0.388	D	0.0523	D	0.291	D	0.373	D	0.0356	D	0.0472	D	0.0382	D	0.006	D
217	403530	SA	0.142	D	0.451	D	2.02	ED	0.687	D	1.68	ED	1.28	D	1.99	ED	0.547	D	2.09	ED	0.299	D	1.64	ED	2.12	ED	0.183	D	0.244	D	0.165	D	0.028	D
218	403630	SA	0.011	D	0.041	D	0.172	D	0.049	D	0.146	D	0.091	D	0.128	D	0.0277	D	0.131	D	0.0161	D	0.0907	D	0.127	D	0.0092	D	0.0144	D	0.013	D	0.002	D
220	403730	SA	0.042	D	0.111	D	0.379	D	0.15	D	0.381	D	0.18	D	0.339	D	0.0982	D	0.387	D	0.0532	D	0.307	D	0.38	D	0.0476	D	0.0492	D	0.0442	D	0.004	DU
221	403830	SA	0.027	D	0.057	D	0.326	D	0.068	D	0.202	D	0.164	D	0.241	D	0.0747	D	0.298	D	0.0368	D	0.214	D	0.274	D	0.0407	D	0.0342	D	0.0354	D	0.002	DU

Note: NOAA _PCB results are recorded in UG/G_DRYWT

Appendix 6

Appendix 6

Inorganics Data from the 2004 NBH LTM IV Survey

Appendix 6. Inorganics Data for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Station ID	Sample ID	SDG		Arsenic	Lab Qual	Cadmium	Lab Qual	Chromium	Lab Qual	Copper	Lab Qual	Lead	Lab Qual	Mercury	Lab Qual	Nickel	Lab Qual	Selenium	Lab Qual	Zinc	Lab Qual
105	400136	MSL013105	DUP	8.94		5.89		328.		790.		496.		1.17		58.9		1.01		1,170.	
105	400136	MSL013105	SA	9.5		6.09		324.		787.		503.		1.26		58.5		1.14		1,180.	
108	400236	MSL013105	SA	11.4		7.58		405.		937.		505.		1.21		75.4		1.15		1,050.	
109	400336	MSL013105	SA	7.98		4.02		348.		577.		269.		0.629		69.4		0.721		593.	
111	400436	MSL013105	SA	6.86		11.5		371.		623.		336.		0.84		62.5		0.736		833.	
114	400536	MSL013105	SA	12.4		8.1		375.		771.		446.		0.992		61.8		1.08		979.	
115	400636	MSL013105	DUP	6.83		6.21		483.		873.		400.		0.995		73.4		1.09		749.	
115	400636	MSL013105	SA	6.12		6.5		493.		912.		405.		0.985		73.8		1.02		760.	
117	400736	MSL013105	SA	12.4		10.7		469.		846.		414.		0.884		71.2		1.04		898.	
120	400836	MSL013105	SA	15.3		16.7		579.		1,070.		543.		1.43		144.		1.14		1,370.	
121	400936	MSL013105	SA	10.		6.06		385.		805.		327.		0.824		57.1		1.05		703.	
123	401036	MSL013105	SA	11.6		12.5		546.		959.		353.		1.06		71.9		1.04		813.	
125	401136	MSL013105	SA	12.3		8.84		484.		1,060.		420.		1.19		72.1		1.21		863.	
126	401236	MSL013105	SA	1.6		0.479		28.		49.1		32.1		0.051		22.9		0.0881		64.1	
128	401336	MSL013105	SA	13.2		11.		551.		1,100.		390.		1.16		79.2		1.12		909.	
130	401436	MSL013105	SA	4.94		5.47		167.		612.		180.		0.441		53.1		0.437		432.	
131	401536	MSL013105	SA	14.7		10.8		620.		1,180.		352.		0.963		75.2		1.11		771.	
134	401636	MSL013105	SA	10.6		13.1		588.		1,170.		381.		1.17		96.8		1.12		961.	
135	401736	MSL013105	SA	1.52		0.117		11.3		19.7		12.8		0.031		3.22		0.0382	j	24.	
138	401836	MSL013105	SA	14.3		9.36		630.		1,190.		368.		1.09		83.4		1.14		717.	
139	401936	MSL013105	SA	10.9		11.2		561.		1,090.		336.		1.12		81.3		1.05		727.	
139(dup)	408036	MSL013105	SA	9.43		11.6		546.		844.		292.		0.99		77.5		1.2		682.	
140	402036	MSL013105	SA	12.3		7.18		484.		1,010.		318.		0.873		65.		1.09		671.	
146	402136	MSL013105	SA	4.79		1.87		135.		467.		164.		1.16		22.3		0.652		330.	
147	402236	MSL013105	SA	2.43		0.797		99.2		274.		86.1		0.249		15.8		0.39		146.	
150	402336	MSL013105	SA	3.44		3.98		182.		343.		249.		0.453		39.1		0.49		330.	
151	402436	MSL013105	SA	3.22		1.1		87.7		233.		76.4		0.245		14.6		0.276		166.	
152	402536	MSL013105	SA	5.43		2.21		192.		477.		155.		0.467		32.6		0.511		318.	
154	402636	MSL013105	SA	1.29		0.831		53.1		119.		64.3		0.129		10.2		0.19		102.	
155	402736	MSL013105	SA	1.13		0.481		42.2		69.		38.9		0.095		8.33		0.127		87.6	
202	402836	MSL013105	SA	1.25		0.27		27.2		59.7		26.		0.072		5.81		0.096		58.1	
204	402936	MSL013105	DUP	6.56		1.88		198.		449.		137.		0.462		29.3		0.732		303.	
204	402936	MSL013105	SA	6.44		2.11		188.		508.		137.		0.433		31.2		0.663		342.	
207	403036	MSL013105	SA	7.51		0.747		485.		3,310.		183.		0.317		171.		0.523		421.	
208	403136	MSL013105	SA	0.542	j	0.155		27.7		103.		21.7		0.064		4.43		0.053	j	38.9	
208(dup)	408136	MSL013105	SA	0.366	j	0.146		21.9		97.2		18.6		0.063		3.26		0.0417	j	35.3	
211	403236	MSL013105	SA	6.64		4.		420.		823.		222.		0.776		50.6		1.1		472.	
212	403336	MSL013105	SA	9.75		2.21		485.		951.		254.		1.08		47.5		1.42		447.	
216	403436	MSL013105	SA	3.1		0.641		95.9		196.		69.1		0.265		13.5		0.341		131.	
217	403536	MSL013105	SA	11.5		2.14		547.		1,170.		282.		1.2		47.9		1.35		452.	
218	403636	MSL013105	SA	3.3		0.521		67.4		204.		74.7		0.236		11.		0.293		159.	
220	403736	MSL013105	DUP	7.14		1.78		174.		382.		123.		0.419		22.5		0.724		395.	
220	403736	MSL013105	SA	7.77		1.65		168.		406.		125.		0.395		23.1		0.69		302.	

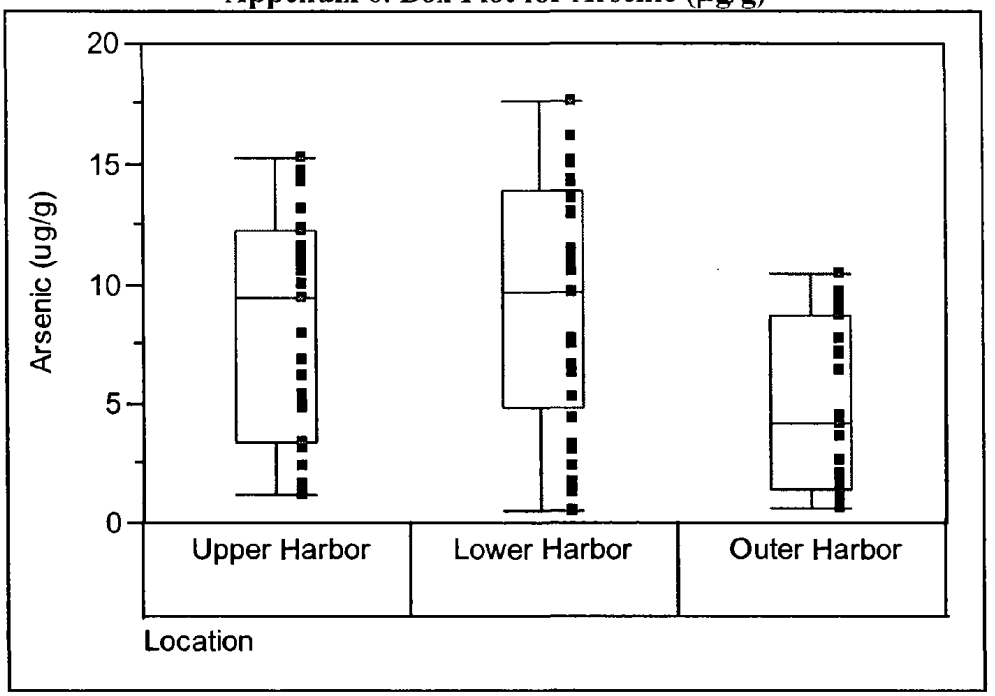
*Metals measured in MG/KG_drywt

Appendix 6. Inorganics Data for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

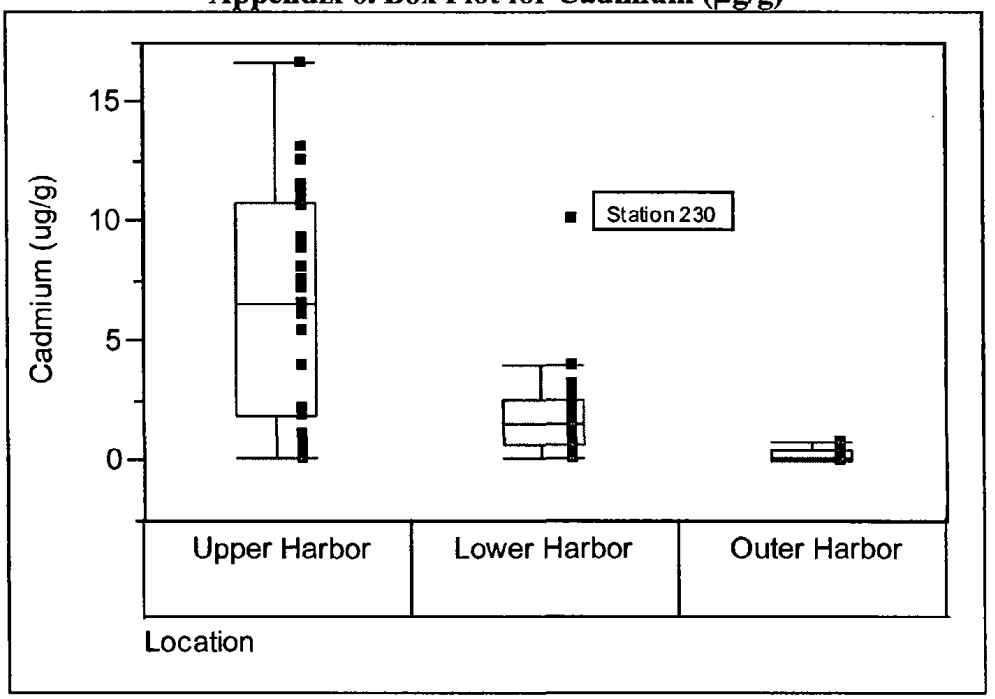
Station ID	Sample ID	SDG		Arsenic	Lab Qual	Cadmium	Lab Qual	Chromium	Lab Qual	Copper	Lab Qual	Lead	Lab Qual	Mercury	Lab Qual	Nickel	Lab Qual	Selenium	Lab Qual	Zinc	Lab Qual
221	403836	MSL013105	SA	4.34		0.494		106.		271.		124.		0.338		16.8		0.67		169.	
222	403936	MSL013105	SA	15.1		2.85		560.		1,180.		357.		0.93		43.		1.05		599.	
224	404036	MSL013105	SA	16.2		3.1		259.		646.		292.		0.804		39.6		1.12		796.	
225	404136	MSL013105	SA	14.3		2.05		204.		458.		242.		0.45		28.8		0.893		405.	
226	404236	MSL013105	SA	17.6		3.07		371.		845.		214.		0.798		74.9		0.987		484.	
227	404336	MSL013105	SA	10.6		1.61		203.		528.		177.		0.767		26.5		0.841		378.	
230	404436	MSL013105	SA	15.2		10.1		209.		523.		284.		0.556		31.6		1.22		1,410.	
231	404536	MSL013105	SA	15.		1.6		193.		450.		152.		0.579		28.1		0.884		389.	
235	404636	MSL013105	SA	13.6		2.82		168.		385.		139.		0.509		26.1		0.827		474.	
236	404736	MSL013105	SA	12.9		1.83		169.		379.		131.		0.648		25.3		0.814		349.	
237	404836	MSL013105	SA	6.23		0.799		67.7		295.		200.		1.23		17.2		0.71		330.	
240	404936	MSL013105	SA	13.		1.76		166.		356.		136.		0.398		29.6		1.09		347.	
241	405036	MSL013105	SA	11.3		1.38		113.		245.		90.		0.34		19.8		0.719		276.	
242	405136	MSL013105	SA	5.26		1.08		77.9		170.		60.7		0.248		12.4		0.469		184.	
245	405236	MSL013105	SA	2.42		0.279		30.5		70.6		29.7		0.11		7.17		0.172		79.4	
247	405336	MSL013105	SA	5.31		0.827		113.		220.		82.5		0.823		14.8		0.591		186.	
249	405436	MSL013105	SA	1.68		0.36		35.4		76.		32.8		0.152		6.64		0.209		103.	
250	405536	MSL013105	SA	11.		1.19		132.		261.		123.		0.343		24.5		1.15		412.	
253	405636	MSL013105	SA	14.4		3.19		197.		443.		161.		0.506		29.4		1.08		441.	
304	405736	MSL013105	SA	2.65		0.289		30.3		44.		25.1		0.132		6.63		0.217		79.4	
306	405836	MSL013105	SA	0.57	U	0.0373		7.17		2.32		2.97		0.01		2.25		0.06	U	7.15	
309	405936	MSL013105	DUP	4.59		0.815		38.5		44.5		52.4		0.201		11.6		0.534		96.6	
309	405936	MSL013105	SA	4.14		0.805		38.8		39.6		50.3		0.18		12.1		0.431		98.8	
310	406036	MSL013105	SA	3.6		0.48		44.8		52.8		31.1		0.124		8.73		0.284		80.	
311	406136	MSL013105	SA	1.28		0.0406		7.44		4.63		7.15		0.014		2.04		0.045		19.9	
317	406236	MSL013105	SA	9.36		0.628		81.9		71.4		53.1		0.181		20.2		0.563		135.	
318	406336	MSL013105	SA	1.12		0.0357		5.68		2.04		4.31		0.009	j	2.07		0.0483	j	9.36	
323	406436	MSL013105	SA	8.71		0.41		60.4		42.6		43.2		0.124		20.4		0.721		110.	
324	406536	MSL013105	SA	7.18		0.677		77.6		54.2		48.4		0.174		22.2		0.612		117.	
325	406636	MSL013105	SA	9.11		0.435		59.2		42.6		37.4		0.144		16.3		0.411		94.7	
325(dup)	408236	MSL013105	SA	8.99		0.519		66.5		48.8		42.5		0.161		18.		0.458		107.	
331	406736	MSL013105	SA	9.71		0.196		59.4		33.6		34.3		0.113		21.		0.488		99.8	
332	406836	MSL013105	SA	0.827		0.0432		11.5		4.48		7.11		0.028		3.74		0.046	j	18.7	
333	406936	MSL013105	SA	1.86		0.0758		13.4		5.72		9.83		0.04		5.8		0.128		24.5	
334	407036	MSL013105	SA	9.14		0.117		47.		18.5		24.9		0.083		16.5		0.375		75.	
335	407136	MSL013105	SA	6.42		0.125		27.4		10.1		16.9		0.061		10.8		0.287		51.1	
338	407236	MSL013105	SA	4.54		0.123		47.		13.9		21.2		0.073		17.8		0.391		73.2	
339	407336	MSL013105	SA	7.73		0.0991		36.6		11.9		17.2		0.047		14.8		0.327		56.7	
340	407436	MSL013105	SA	7.09		0.0754		44.2		14.7		21.7		0.047		16.		0.356		67.	
341	407536	MSL013105	SA	2.59		0.0419		18.3		5.79		10.2		0.032		6.69		0.104		37.8	
345	407636	MSL013105	SA	10.5		0.132		40.9		11.5		18.5		0.054		16.1		0.352		63.9	
346	407736	MSL013105	SA	2.04		0.0197		10.1		2.66		5.4		0.015		3.07		0.0589	j	24.9	
349	407836	MSL013105	SA	1.44		0.0673		15.5		4.3		8.23		0.019		5.24		0.0585	j	23.5	
352	407936	MSL013105	SA	0.592		0.0386		18.8		4.4		6.77		0.024		4.3		0.0806		21.4	

*Metals measured in MG/KG_drywt

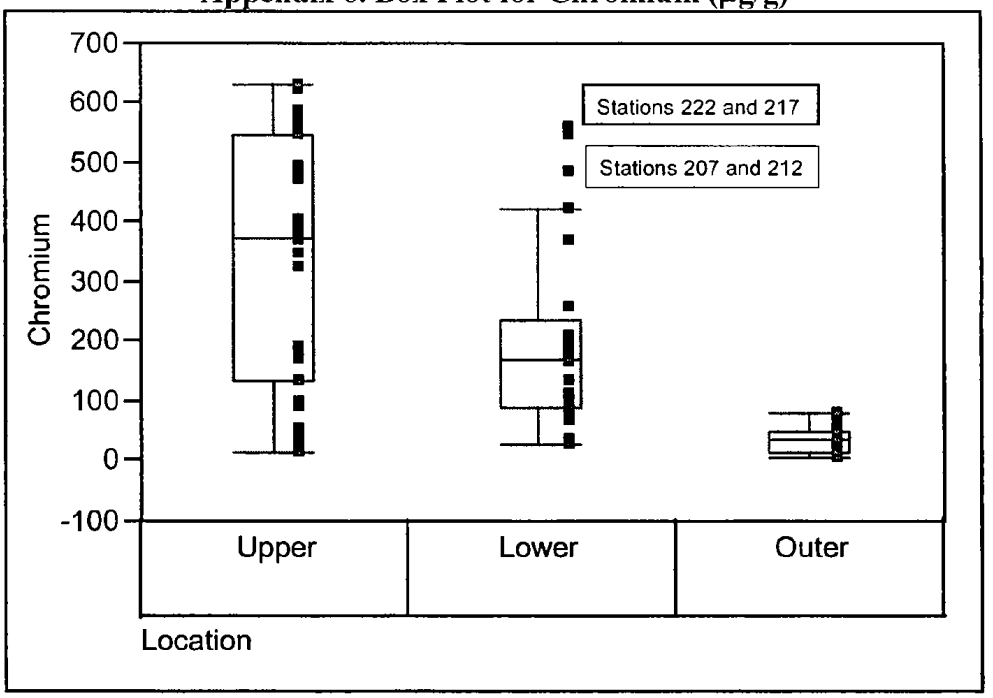
Appendix 6. Box Plot for Arsenic (µg/g)



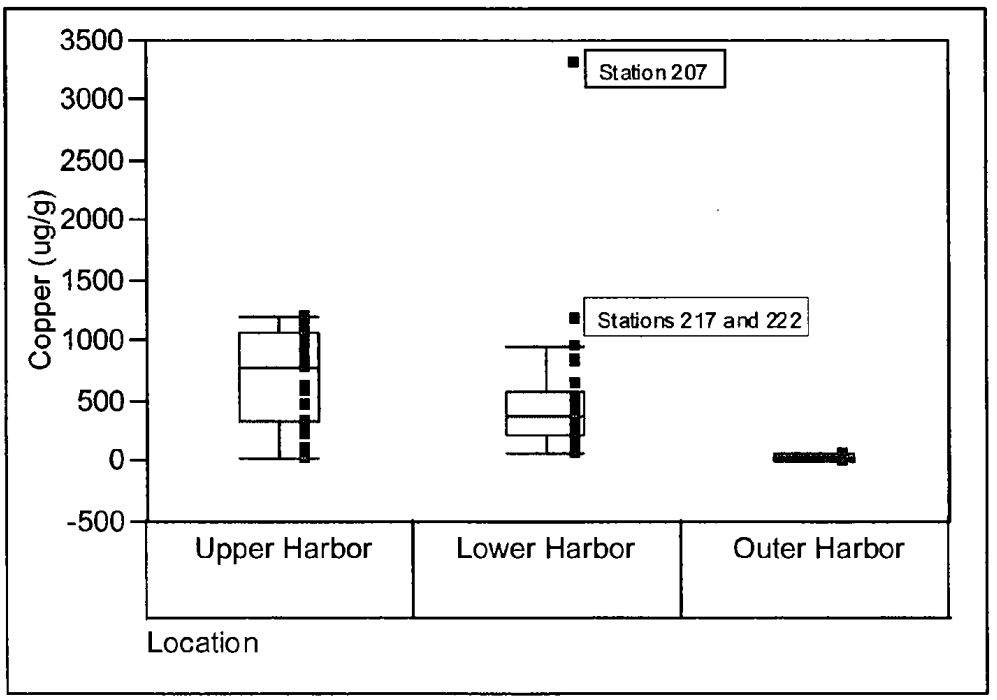
Appendix 6. Box Plot for Cadmium (µg/g)



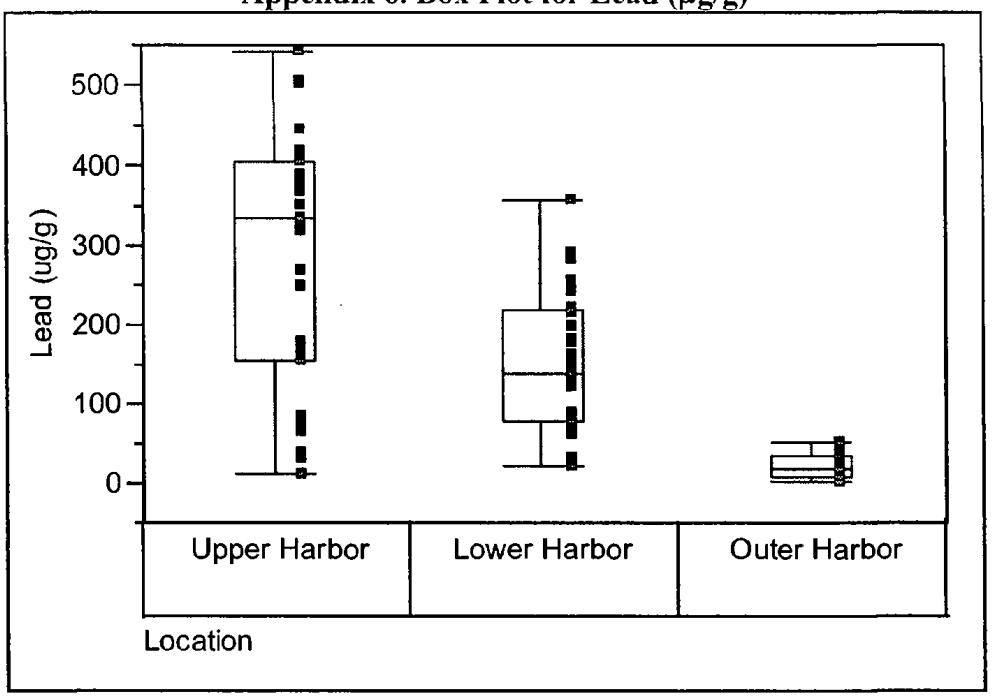
Appendix 6. Box Plot for Chromium (µg/g)



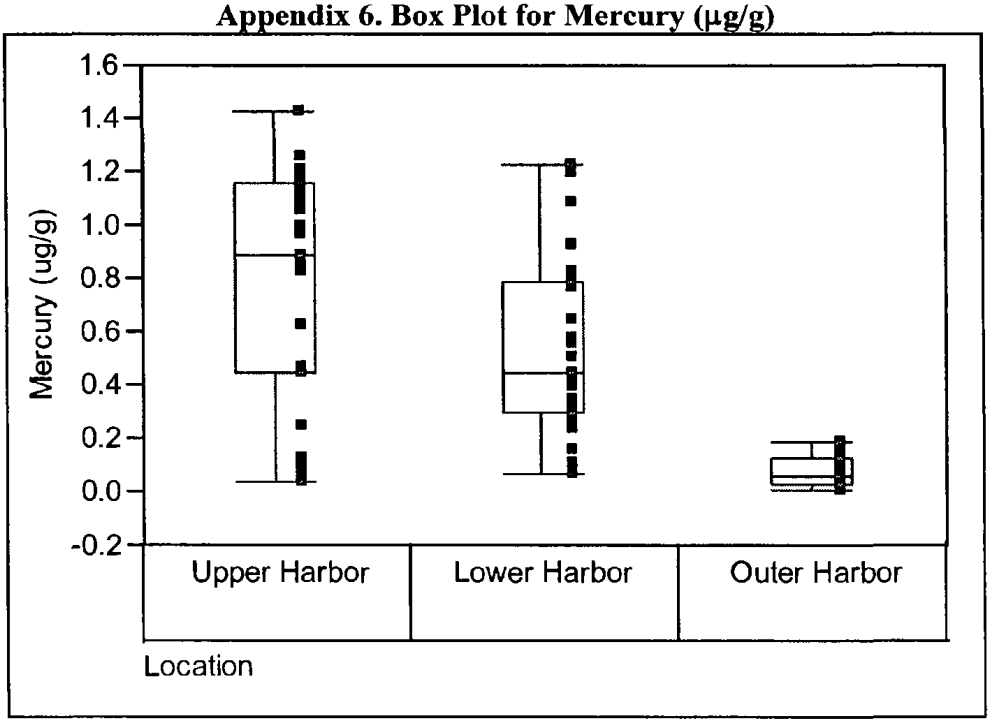
Appendix 6. Box Plot for Copper (µg/g)



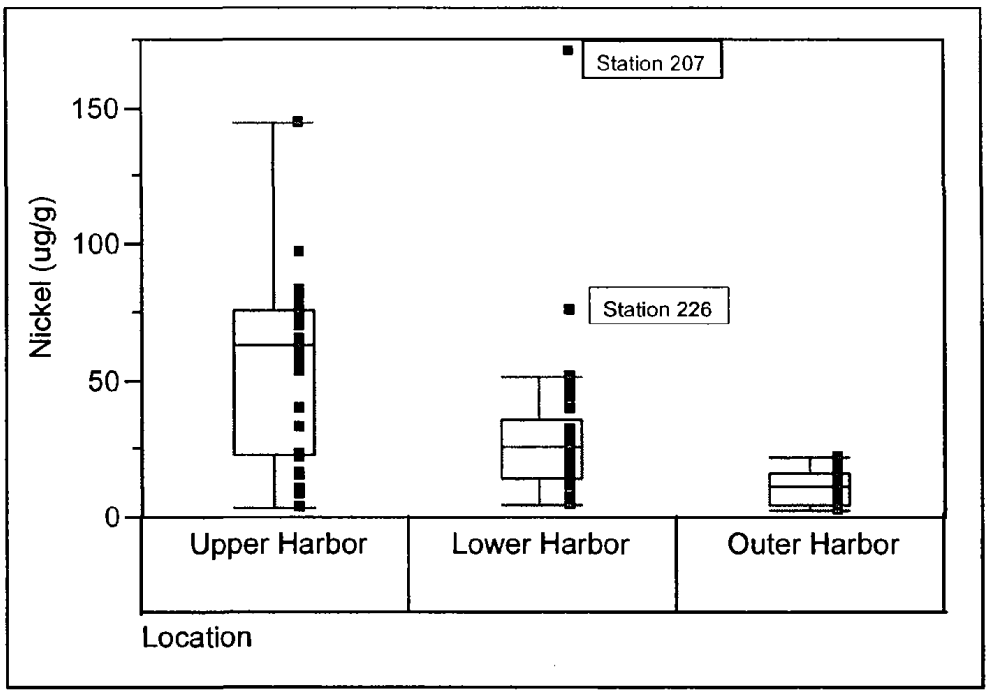
Appendix 6. Box Plot for Lead (µg/g)



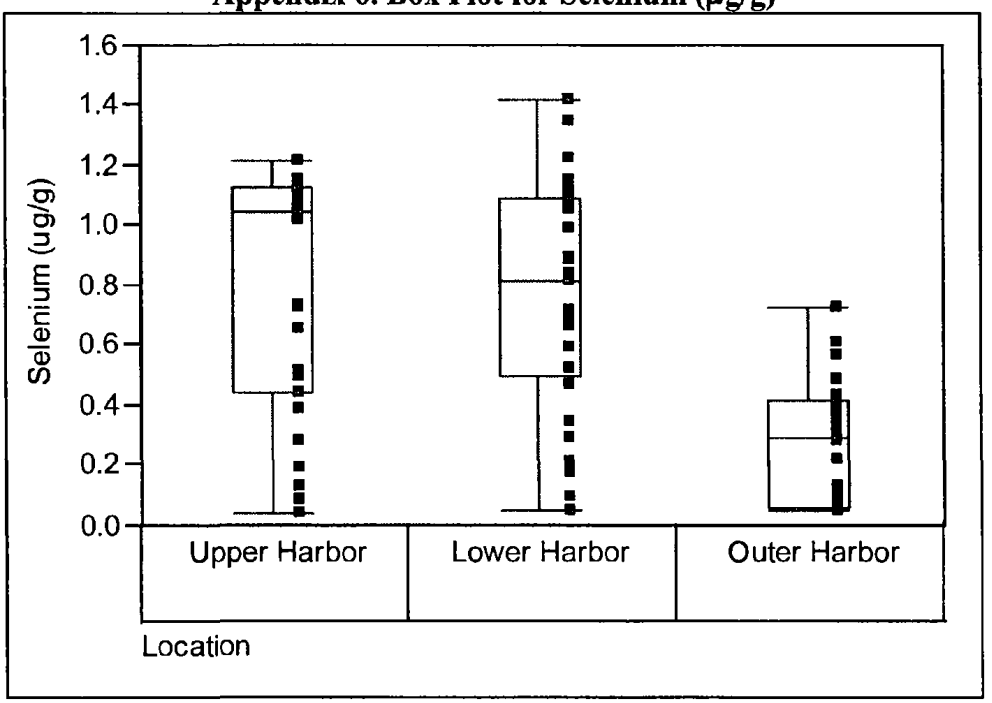
Appendix 6. Box Plot for Mercury (µg/g)



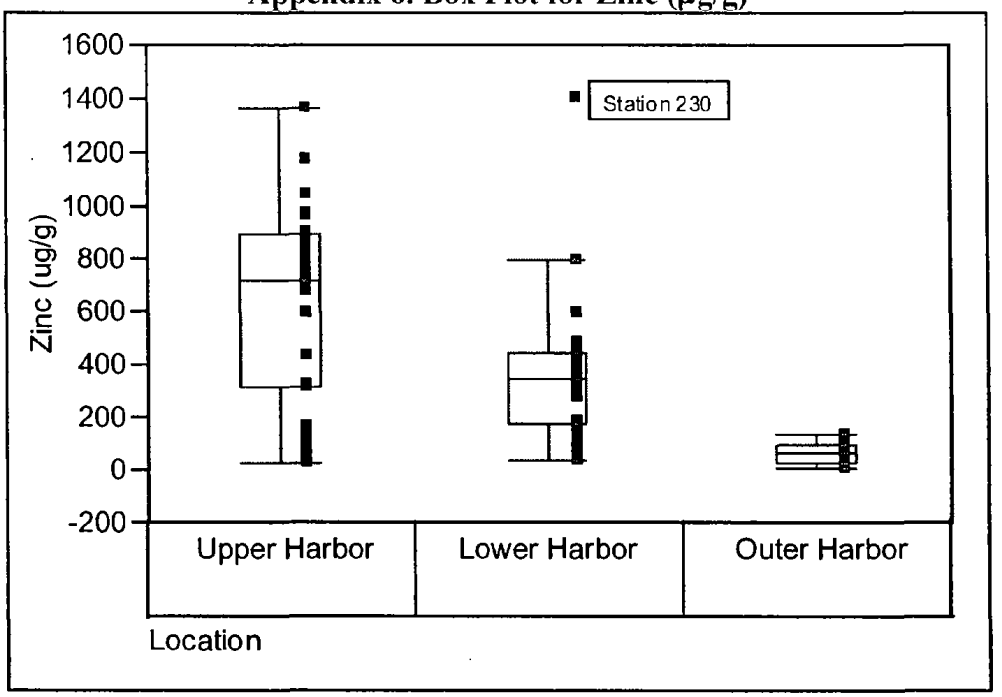
Appendix 6. Box Plot for Nickel (µg/g)



Appendix 6. Box Plot for Selenium (µg/g)



Appendix 6. Box Plot for Zinc (µg/g)



Appendix 7

Acid Volatile Sulfides (AVS) Data from the 2004 NBH LTM IV Survey

Appendix 7. Acid Volatile Sulfides (AVS) Data for the 2004New Bedford Long-Term Monitoring Survey.

Station ID	Sample ID	SDG		AVS UMOL/G DRYWT	Lab Qual		Station ID	Sample ID	SDG		AVS UMOL/G DRYWT	Lab Qual
105	400133	NBH_032505	DUP	47.94665			222	403933	NBH_032505	SA	24.97014	
105	400133	NBH_032505	SA	45.83445			224	404033	NBH_032505	SA	80.93594	
108	400233	NBH_032505	SA	90.97421			225	404133	NBH_032505	SA	54.55289	
109	400333	NBH_032505	SA	41.40518			226	404233	NBH_032505	SA	32.99318	
111	400433	NBH_032505	SA	37.1883			227	404333	NBH_032505	SA	34.2171	
114	400533	NBH_032505	SA	72.47395			230	404433	NBH_032505	SA	97.55811	
115	400633	NBH_032505	SA	52.34804			231	404533	NBH_032505	SA	43.50413	
117	400733	NBH_032505	SA	50.55707			235	404633	NBH_032505	SA	22.48263	
120	400833	NBH_032505	SA	71.19643			236	404733	NBH_032505	SA	53.16012	
121	400933	NBH_032505	SA	61.42436			237	404833	NBH_032505	SA	15.73858	
123	401033	NBH_032505	SA	75.30776			240	404933	NBH_032505	SA	87.0566	
125	401133	NBH_032505	SA	73.00571			241	405033	NBH_032505	SA	40.96188	
126	401233	NBH_032505	SA	1.60246			242	405133	NBH_032505	SA	12.74162	
128	401333	NBH_032505	SA	45.63164			245	405233	NBH_032505	SA	2.79956	
130	401433	NBH_032505	SA	19.97836			247	405333	NBH_032505	SA	30.40589	
131	401533	NBH_032505	SA	19.52604			249	405433	NBH_032505	SA	17.06465	
134	401633	NBH_032505	SA	51.00484			250	405533	NBH_032505	SA	146.61246	
135	401733	NBH_032505	SA	0.77681			253	405633	NBH_032505	SA	70.0011	
138	401833	NBH_032505	SA	42.24727			304	405733	NBH_032505	SA	52.22578	
139	401933	NBH_032505	DUP	65.75178			306	405833	NBH_032505	SA	0.80457	
139	401933	NBH_032505	SA	71.35273			309	405933	NBH_032505	SA	22.15151	
140	402033	NBH_032505	SA	68.33257			310	406033	NBH_032505	SA	11.44839	
146	402133	NBH_032505	SA	15.74699			311	406133	NBH_032505	SA	0.98568	
147	402233	NBH_032505	SA	18.5887			317	406233	NBH_032505	SA	13.51046	
150	402333	NBH_032505	SA	20.23723			318	406333	NBH_032505	SA	2.60099	
151	402433	NBH_032505	SA	9.66924			323	406433	NBH_032505	SA	56.96739	
152	402533	NBH_032505	SA	21.98044			324	406533	NBH_032505	SA	20.06886	
154	402633	NBH_032505	SA	9.09969			325	406633	NBH_032505	SA	10.45284	
155	402733	NBH_032505	SA	16.59538			331	406733	NBH_032505	SA	8.0597	
202	402833	NBH_032505	SA	39.23154			332	406833	NBH_032505	SA	1.69607	
204	402933	NBH_032505	SA	89.66653			333	406933	NBH_032505	SA	0.63715	
207	403033	NBH_032505	SA	6.56878			334	407033	NBH_032505	SA	2.25126	
208	403133	NBH_032505	SA	2.67873			335	407133	NBH_032505	SA	9.41019	
211	403233	NBH_032505	DUP	20.77832			338	407233	NBH_032505	SA	0.65831	
211	403233	NBH_032505	SA	18.83827			339	407333	NBH_032505	SA	1.76605	
212	403333	NBH_032505	SA	34.72779			340	407433	NBH_032505	SA	4.49371	
216	403433	NBH_032505	DUP	15.3639			341	407533	NBH_032505	SA	2.84449	
216	403433	NBH_032505	SA	17.83938			345	407633	NBH_032505	SA	4.3209	
217	403533	NBH_032505	SA	39.77573			346	407733	NBH_032505	DUP	0.16178	
218	403633	NBH_032505	SA	17.71165			346	407733	NBH_032505	SA	0.07	U
220	403733	NBH_032505	SA	34.83158			349	407833	NBH_032505	SA	1.71071	
221	403833	NBH_032505	SA	14.17773			352	407933	NBH_032505	SA	1.88546	

Appendix 8

Toxicity Testing Results: 2004 NBH LTM IV Survey (Ampelisca Abdita 10-Day Sediment Toxicity Test Results)

Appendix 8. Toxicity Data for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Station ID	Field ID	Date Collected	Test Started	Days Held	# Reps	Mortality	Mortality Std Dev	Mean Pct Survival	Mean Survival (% of Control)	Stat Diff Cntrl	P-Value	Lab Samp Id	Test Series
105	400124	08/17/04	08/20/04	35.	5	96.	0.055	4.		YES		12468-011	1
108	400224	08/17/04	08/20/04	35.	5	70.	0.127	30.		YES		12468-014	1
109	400324	08/17/04	08/20/04	35.	5	88.	0.045	12.		YES		12468-010	1
111	400424	08/17/04	08/20/04	35.	5	95.	0.061	5.		YES		12468-015	1
114	400524	08/17/04	08/20/04	35.	5	89.	0.055	11.		YES		12468-013	1
115	400624	08/18/04	08/20/04	35.	5	14.	0.114	86.		NO		12468-043	2
117	400724	08/17/04	08/20/04	35.	5	92.	0.084	8.		YES		12468-012	1
120	400824	08/18/04	08/20/04	35.	5	87.	0.14	13.		YES		12468-044	2
121	400924	08/18/04	08/20/04	35.	5	44.	0.147	56.		YES		12468-045	2
123	401024	08/18/04	08/20/04	35.	5	66.	0.236	34.		YES		12468-046	2
125	401124	08/18/04	08/20/04	35.	5	29.	0.114	71.		YES		12468-047	2
126	401224	08/19/04	08/20/04	35.	5	13.	0.057	87.		NO		12468-048	2
128	401324	08/18/04	08/20/04	35.	5	62.	0.275	38.		YES		12468-049	2
130	401424	08/19/04	08/20/04	35.	5	31.	0.114	69.		YES		12468-050	2
131	401524	08/18/04	08/20/04	35.	5	87.	0.115	13.		YES		12468-051	2
134	401624	08/19/04	08/20/04	35.	5	57.	0.157	43.		YES		12468-052	2
135	401724	08/19/04	08/20/04	35.	5	16.	0.089	84.		NO		12468-053	2
138	401824	08/20/04	08/20/04	35.	5	61.	0.042	39.		YES		12468-068	3
139	401924	08/19/04	08/20/04	35.	5	75.	0.17	25.		YES		12468-054	2
140	402024	08/20/04	08/20/04	35.	5	38.	0.189	62.		YES		12468-069	3
146	402124	08/20/04	08/20/04	35.	5	61.	0.167	39.		YES		12468-070	3
147	402224	08/20/04	08/20/04	35.	5	22.	0.115	78.		NO		12468-071	3
150	402324	08/21/04	08/20/04	35.	5	31.	0.139	69.		YES		12468-072	3
151	402424	08/21/04	08/20/04	35.	5	38.	0.11	62.		YES		12468-073	3
152	402524	08/20/04	08/20/04	35.	5	65.	0.132	35.		YES		12468-074	3
154	402624	08/21/04	08/20/04	35.	5	26.	0.114	74.		YES		12468-075	3
155	402724	08/20/04	08/20/04	35.	5	11.	0.074	89.		NO		12468-076	3
202	402824	08/22/04	08/20/04	35.	5	28.	0.189	72.		NO		12468-077	3
204	402924	08/22/04	08/20/04	35.	5	42.	0.104	58.		YES		12468-078	3
207	403024	08/22/04	08/20/04	35.	5	96.	0.065	4.		YES		12468-079	3
208	403124	08/22/04	08/20/04	35.	5	16.	0.143	84.		NO		12468-080	3
211	403224	08/23/04	08/20/04	35.	5	73.	0.144	27.		YES		12468-148	4
212	403324	08/22/04	08/20/04	35.	5	24.	0.108	76.		NO		12468-081	3
216	403424	08/23/04	08/20/04	35.	5	21.	0.089	79.		YES		12468-149	4
217	403524	08/23/04	08/20/04	35.	5	36.	0.251	64.		YES		12468-150	4
218	403624	08/22/04	08/20/04	35.	5	10.	0.071	90.		NO		12468-082	3
220	403724	08/23/04	08/20/04	35.	5	24.	0.114	76.		YES		12468-151	4
221	403824	08/21/04	08/20/04	35.	5	29.	0.074	71.		YES		12468-083	3

Appendix 8. Toxicity Data for the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

Station ID	Field ID	Date Collected	Test Started	Days Held	# Reps	Mortality	Mortality Std Dev.	Mean Pct Survival	Mean Survival (% of Control)	Stat Diff Cntrl	P-Value	Lab Samp Id	Test Series
222	403924	08/16/04	08/20/04	35.	5	56.	0.096	44.		YES		12468-003	1
224	404024	08/16/04	08/20/04	35.	5	49.	0.192	51.		YES		12468-001	1
225	404124	08/16/04	08/20/04	35.	5	23.	0.084	77.		YES		12468-005	1
226	404224	08/16/04	08/20/04	35.	5	43.	0.084	57.		YES		12468-004	1
227	404324	08/16/04	08/20/04	35.	5	23.	0.13	77.		NO		12468-008	1
230	404424	08/21/04	08/20/04	35.	5	17.	0.144	83.		NO		12468-084	3
231	404524	08/16/04	08/20/04	35.	5	38.	0.189	62.		YES		12468-007	1
235	404624	08/16/04	08/20/04	35.	5	45.	0.15	55.		YES		12468-006	1
236	404724	08/16/04	08/20/04	35.	5	15.	0.122	85.		NO		12468-009	1
237	404824	08/21/04	08/20/04	35.	5	61.	0.108	39.		YES		12468-085	3
240	404924	08/21/04	08/20/04	35.	5	12.	0.091	88.		NO		12468-086	4
241	405024	08/21/04	08/20/04	35.	5	17.	0.135	83.		NO		12468-087	4
245	405224	08/21/04	08/20/04	35.	5	33.	0.057	67.		YES		12468-089	4
247	405324	08/19/04	08/20/04	35.	5	19.	0.164	81.		YES		12468-055	2
249	405424	08/20/04	08/20/04	35.	5	31.	0.243	69.		YES		12468-090	4
250	405524	08/19/04	08/20/04	35.	5	18.	0.13	82.		NO		12468-056	2
253	405624	08/19/04	08/20/04	35.	5	12.	0.115	88.		NO		12468-057	2
304	405724	08/19/04	08/20/04	35.	5	16.	0.089	84.		NO		12468-058	2
306	405824	08/19/04	08/20/04	35.	5	7.	0.13	93.		NO		12468-059	2
309	405924	08/18/04	08/20/04	35.	5	14.	0.042	86.		NO		12468-060	2
310	406024	08/17/04	08/20/04	35.	5	12.	0.135	88.		NO		12468-017	1
311	406124	08/17/04	08/20/04	35.	5	21.	0.222	79.		NO		12468-018	1
317	406224	08/17/04	08/20/04	35.	5	18.	0.148	82.		YES		12468-019	1
318	406324	08/17/04	08/20/04	35.	5	7.	0.084	93.		NO		12468-002	1
323	406424	08/18/04	08/20/04	35.	5	12.	0.104	88.		NO		12468-061	2
324	406524	08/18/04	08/20/04	35.	5	6.	0.065	94.		NO		12468-062	2
325	406624	08/17/04	08/20/04	35.	5	16.	0.129	84.		NO		12468-020	1
331	406724	08/18/04	08/20/04	35.	5	16.	0.147	84.		NO		12468-063	2
332	406824	08/18/04	08/20/04	35.	5	11.	0.082	89.		NO		12468-064	2
333	406924	08/18/04	08/20/04	35.	5	14.	0.102	86.		NO		12468-065	2
334	407024	08/22/04	08/20/04	35.	5	27.	0.152	73.		YES		12468-091	4
335	407124	08/22/04	08/20/04	35.	5	35.	0.197	65.		YES		12468-092	4
338	407224	08/18/04	08/20/04	35.	5	58.	0.076	42.		YES		12468-066	2
339	407324	08/22/04	08/20/04	35.	5	15.	0.17	85.		NO		12468-093	4
340	407424	08/22/04	08/20/04	35.	5	29.	0.233	71.		YES		12468-094	4
341	407524	08/22/04	08/20/04	35.	5	24.	0.114	76.		YES		12468-095	4
345	407624	08/20/04	08/20/04	35.	5	26.	0.185	74.		YES		12468-096	4
346	407724	08/20/04	08/20/04	35.	5	13.	0.16	87.		NO		12468-097	4
349	407824	08/20/04	08/20/04	35.	5	17.	0.135	83.		YES		12468-098	4
352	407924	08/20/04	08/20/04	35.	5	13.	0.115	87.		NO		12468-099	4

Appendix 9

Appendix 9

Species Identified from the 2004 New Bedford Harbor Samples

Appendix 9. Species Identified from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

		Footnote	Area		
		a,b	1	2	3
PORIFERA					
Microcionidae					
	Microciona prolifera			v	v
Tedaniidae					
	Lissodendoryx carolinensis				v
Halichondridae					
	Halichondria bowerbanki			v	
Suberitidae					
	Prosuberites sp.			v	
Clionidae					
	Cliona celata		v	v	v
	Cliona lobata		v	v	
	Cliona vastifica			v	v
CNIDARIA					
Hydrozoa					
Anthomedusae					
	Perigonimus jonesi	b		v	
	Hydractinia echinata	b			v
	Podocoryne carnea	b			v
Leptomedusae					
	Obelia bidentata	b	v	v	
	Clytia gracilis	b	v	v	
	Sertularia cupressina	b			v
	Dynamena pumila	b			v
	Halecium sp.	b	v	v	
Anthozoa					
	Ceriantharia				v
	Epizoanthus sp.			v	
	Edwardsia elegans				v
	Haloclava producta				v
PLATYHELMINTHES					
Turbellaria					
	Turbellaria		v		v
NEMERTEA					
Tubulanidae					
	Tubulanus sp.				v
Lineidae					
	Cerebratulus lacteus			v	
	Cerebratulus sp.				v
Amphiporidae					
	Amphiporus ochraceus				v
	Amphiporus bioculatus				v
ANNELIDA					
Polychaeta					
Polynoidae					

		Footnote	Area		
		a,b	1	2	3
	Harmothoe extenuata				v
	Harmothoe imbricata				v
	Harmothoe macginitei				v
	Lepidonotus squamatus			v	v
	Lepidonotus sublevis				v
Pholoidae					
	Pholoe minuta				v
Sigalionidae					
	Sthenelais boa				v
Phyllodocidae					
	Phyllodoce arenae			v	v
	Eteone longa			v	
	Eteone heteropoda		v	v	
	Eulalia viridis				v
	Eulalia bilineata				v
	Eumida sanguinea		v	v	v
Hesionidae					
	Gyptis vittata		v	v	v
	Microphthalmus sczelkowii			v	
	Microphthalmus aberrans		v		
	Microphthalmus sp. A				v
	Podarke obscura		v	v	v
Pilargidae					
	Ancistrosyllis hartmanae				v
	Cabira incerta				v
Syllidae					
	Autolytus fasciatus			v	
	Typosyllis alternata			v	
	Exogone dispar			v	v
	Sphaerosyllis longicauda				v
	Brania clavata				v
	Brania wellfleetensis				v
	Odontosyllis fulgurans				v
	Syllides japonica				v
	Syllides cf. verrilli				v
	Streptosyllis cf. websteri				v
	Parapionosyllis longicirrata				v
	Proceraea cornuta				v
Nereidae					
	Neanthes virens		v	v	
	Neanthes arenaceodonta		v	v	v
	Neanthes succinea		v	v	v
	Nereis grayi				v
	Platynereis dumerilii			v	v
	Hediste diversicolor		v	v	
Nephtyidae					
	Nephtys incisa			v	v
	Nephtys picta				v

		Footnote	Area		
		a,b	1	2	3
Glyceridae					
	Glycera americana			v	v
	Glycera dibranchiata				v
	Glycera sp. 1				v
Goniadidae					
	Glycinde solitaria			v	v
Onuphidae					
	Onuphidae				v
Eunicidae					
	Marphysa sanguinea			v	v
Lumbrineridae					
	Ninoe nigripes				v
	Scoletoma hebes				v
Oenonidae					
	Drilonereis longa				v
	Arabella iricolor				v
Dorvilleidae					
	Dorvillea (Schistomeringos) annulata			v	v
	Protodorvillea gaspeensis				v
	Parougia caeca				v
Orbinidae					
	Scoloplos (Leodamus) rubra				v
	Scoloplos riseri				v
	Leitoscoloplos acutus				v
	Leitoscoloplos fragilis		v	v	v
	Leitoscoloplos robustus				v
	Leitoscoloplos sp.		v	v	v
Paraonidae					
	Aricidea (Acmira) catherinae				v
	Aricidea (Acmira) cerruti				v
	Cirrophorus furcatus				v
	Levinsenia gracilis				v
Spionidae					
	Polydora websteri		v	v	v
	Polydora cornuta		v	v	v
	Prionospio steenstrupi		v		
	Prionospio (Minuspio) perkinsii			v	v
	Prionospio heterobranchia			v	v
	Spio setosa		v	v	
	Spiophanes bombyx				v
	Pygospio elegans		v		v
	Streblospio benedicti		v	v	v
	Scolelepis bousfieldi			v	v
	Scolelepis texana				v
	Dipolydora socialis		v	v	v
	Marenzelleria viridis		v		
	Carazziella hobsonae				v

		Footnote	Area		
		a,b	1	2	3
	Boccardiella hamata			v	v
Cirratulidae					
	Cirratulus grandis				v
	Caulleriella cf. killariensis				v
	Caulleriella sp.		v	v	v
	Tharyx acutus		v	v	v
	Chaetozone sp.				v
	Dodecaceria sp.			v	v
	Aphelochaeta marioni				v
	Monticellina baptisteae				v
	Monticellina dorsobranchialis				v
Scalibregmatidae					
	Scalibregma inflatum				v
Capitellidae					
	Capitella capitata		v	v	v
	Capitella jonesi		v	v	v
	Heteromastus filiformis			v	v
	Notomastus latericeus				v
	Mediomastus ambiseta		v	v	v
Maldanidae					
	Clymenella torquata				v
	Maldane sarsi				v
	Euclymene collaris				v
Oweniidae					
	Owenia fusiformis				v
Sabellariidae					
	Sabellaria vulgaris			v	v
Pectinariidae					
	Pectinaria gouldii		v	v	v
Ampharetidae					
	Ampharete finmarchica				v
	Melinna cristata				v
Terebellidae					
	Amphitrite affinis				v
	Nicolea zostericola				v
	Pista palmata				v
	Polycirrus eximius				v
Serpulidae					
	Hydroides dianthus	a	v	v	v
Polygordidae					
	Archiannelida				v
Oligochaeta					
	Oligochaeta		v	v	v
MOLLUSCA					
Gastropoda					
Trochidae					
	Margarites helicinus				v
Lacunidae					

		Footnote	Area		
		a,b	1	2	3
	Lacuna vincta				v
Littorinidae					
	Littorina littorea		v		
Hydrobiidae					
	Hydrobia sp.		v		
	Spurwinkia salsa		v		v
Assimineidae					
	Assiminea succinea		v		
Caecidae					
	Caecum pulchellum				v
Cerithiidae					
	Bittium alternatum			v	v
	Seila adamsi				v
Crepidulidae					
	Crepidula fornicata	a	v	v	v
	Crepidula convexa	a	v	v	
	Crepidula plana	a		v	v
Naticidae					
	Lunatia triseriata				v
	Tectonatica pusilla				v
	Neverita duplicata				v
Muricidae					
	Urosalpinx cinerea				v
Columbellidae					
	Mitrella lunata		v	v	v
	Anachis lafresnayi				v
Nassariidae					
	Ilyanassa obsoleta		v	v	
	Ilyanassa trivittata			v	v
Turridae					
	Kurtziella cerina				v
Pyramidellidae					
	Odostomia bisuturalis		v		
	Odostomia eburnea			v	
	Turbonilla elegantula				v
	Turbonilla aequalis				v
	Fargoa bartschi			v	
	Boonea seminuda		v	v	v
Acteonoidae					
	Rictaxis punctostriatus			v	v
Cylichnidae					
	Acteocina canaliculata			v	v
	Cylichna oryza			v	v
	Haminoea solitaria		v	v	v
Polyplacophora					
Chaetopleuridae					
	Chaetopleura apiculata	a			v
Bivalvia					

		Footnote	Area		
		a,b	1	2	3
Nuculidae					
	Nucula proxima			v	v
	Nucula annulata			v	v
Nuculanidae					
	Yoldia limatula				v
Solemyacidae					
	Solemya velum				v
Arcidae					
	Anadara transversa			v	v
Mytilidae					
	Mytilus edulis	a	v	v	
Anomiidae					
	Anomia simplex	a	v	v	v
Ostreidae					
	Crassostrea virginica	a		v	
Thyasiridae					
	Thyasira gouldii			v	v
Crassatellidae					
	Crassinella lunulata				v
Cardiidae					
	Cerastoderma pinnulatum				v
Mactridae					
	Mulinia lateralis		v	v	v
Tellinidae					
	Macoma tenta			v	v
	Tellina agilis		v	v	v
Semelidae					
	Cumingia tellinoides				v
Arcticidae					
	Arctica islandica				v
Veneridae					
	Mercenaria mercenaria		v	v	v
	Pitar morrhuanus				v
	Gemma gemma		v	v	
Petricolidae					
	Petricola pholadiformis		v	v	v
Myidae					
	Mya arenaria				
Corbulidae			v	v	
	Corbula contracta				v
Pandoridae					
	Pandora gouldiana				v
Lyonsiidae					
	Lyonsia hyalina				v
ARTHROPODA					
Arachnida					
	Hydrachnida				v
Cephalocarida					

		Footnote	Area		
		a,b	1	2	3
	Hutchinsoniella macracantha				v
Cirripedia					
Balanidae					
	Balanus crenatus	a			v
	Balanus venustus	a		v	v
Malacostraca					
Mysida					
Mysidae					
	Heteromysis formosa		v	v	v
Cumacea					
Lampropidae					
	Lamprops quadriplicata			v	
Leuconidae					
	Leucon americanus			v	v
Diastylidae					
	Diastylis polita			v	v
	Oxyurostylis smithi				v
Bodotriidae					
	Cyclaspis varians				v
Tanaidacea					
Leptocheliidae					
	Leptochelia savignyi				v
Isopoda					
Anthuridae					
	Ptilanthura tenuis				v
Idoteidae					
	Idotea phosphorea		v		
	Erichsonella filiformis			v	v
	Edotia triloba		v		v
Amphipoda					
Ampeliscidae					
	Ampelisca abdita			v	v
	Ampelisca vadorum			v	v
	Ampelisca verrilli				v
	Byblis serrata				v
Ampithoidae					
	Ampithoe rubricata				v
	Ampithoe longimana		v	v	
	Cymadusa compta				v
Aoridae					
	Lembos smithi				v
	Microdeutopus gryllotalpa		v	v	v
	Microdeutopus anomalus				v
	Leptocheirus pinguis				v
	Rudilemboides naglei				v
Bateidae					
	Batea catharinensis				v
Calliopidae					

		Footnote	Area		
		a,b	1	2	3
	Calliopius laeviusculus			v	
Corophiidae					
	Cerapus tubularis				v
	Ericthonius brasiliensis				v
	Ericthonius fasciatus				v
	Unciola irrorata				v
	Unciola serrata				v
	Unciola dissimilis				v
	Monocorophium acherusicum		v	v	v
	Monocorophium tuberculatum			v	v
	Apocorophium acutum			v	v
Pontogeneiidae					
	Pontogeneia inermis				v
Gammaridae					
	Gammarus mucronatus		v		
Melitidae					
	Elasmopus laevis			v	v
	Melita nitida		v		
Isaeidae					
	Microprotopus raneyi				v
Ischyroceridae					
	Ischyrocerus anguipes		v		
Lilljeborgiidae					
	Listriella barnardi				v
Lysianassidae					
	Lysianopsis alba				v
Oedicerotidae					
	Ameroculodes sp.				v
Phoxocephalidae					
	Phoxocephalus holbolli				v
	Eobrolgus spinosus				v
	Rhepoxynius hudsoni				v
Stenothoidae					
	Proboloides holmesi				v
	Stenothoe minuta			v	
Caprellidae					
	Caprella penantis	a			v
	Aeginina longicornis	a			v
	Paracaprella tenuis	a	v		v
	Luconacia incerta	a			v
Decapoda					
Palaemonidae					
	Palaemonetes vulgaris	a	v		
Hippolytidae					
	Hippolyte pleuracanthus				v
	Hippolyte zostericola		v		v
Crangonidae					
	Crangon septemspinosa		v	v	v

		Footnote	Area		
		a,b	1	2	3
Upogebiidae					
	Upogebia affinis				v
Paguridae					
	Pagurus annulipes			v	v
	Pagurus longicarpus		v		v
	Pagurus pollicaris				v
Majidae					
	Libinia dubia		v		
	Euprognatha rastellifera				v
Parthenopidae					
	Heterocrypta granulata				v
Cancridae					
	Cancer irroratus				v
Xanthidae					
	Dyspanopeus sayi		v	v	v
Pinnotheridae					
	Pinnixa sayana			v	v
Stomatopoda					
Squllidae					
	Squilla empusa		v		
ECTOPROCTA					
Ctenostomata					
	Amathia vidovici	b		v	
	Bowerbankia gracilis	b	v	v	
	Bowerbankia imbricata	b	v	v	
	Aeverrilla armata	b		v	v
Cheilostomata					
Anasca					
	Membraniporidae	b			v
	Membranipora tenuis	b			v
	Bugula turrita	b		v	v
Ascophora					
	Schizoporella unicornis	b	v	v	
	Schizoporella cornuta	b			v
	Microporella ciliata	b	v	v	
	Parasmittina nitida	b			v
	Cryptosula pallasiana	b	v	v	
ENTOPROCTA					
	Pedicellina cernua	b	v	v	
SIPUCULA					
	Phascolion strombi				v
ECHINODERMATA					
Ophiuroidea					
	Amphioplus abdita				v
Echinoidea					
Arbaciidae					v
	Arbacia punctulata				v
Holothuroidea					

		Footnote	Area		
		a,b	1	2	3
	Epitomapta roseola				v
HEMICORDATA					
	Saccoglossus kowalevskii				v
CHORDATA					
Molgulidae					
	Molgula manhattensis			v	

Appendix 10

Appendix 10

Benthic Infaunal Data from the 2004 NBH LTM IV Survey

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103													
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101													
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108													
Ampelisca vadorum	6169020109													
Ampelisca verrilli	6169020110													
Ampharete finmarchica	5001670214													
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110													
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115													
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306													
Anadara transversa	5506010201													
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202													
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201													
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306													
ARICIDEA (ACMIRA) CERRUTI	5001411301													
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103												2	
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104													
Balanus venustus	6134020121													
Batea catherinensis	6169100101													
Bittium alternatum	5103460105													
BIVALVIA	55													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801													
Boonea seminuda	5108011403													
Bowerbankia gracilis	7805010201													
BOWERBANKIA IMBRICATA	7805010202													
Brania clavata	5001230902													
Brania wellfleetensis	5001230903													
BUGULA TURRITA	7815250101													
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401													
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101	9.	7.	3.	1.	5.	2.	2.				6.	3.	
CAPITELLA JONESI	5001600198													
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706													
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002													
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601													
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103													
CHAETOZONE SP.	50015004													
CIRRATULIDAE	500150							2.	2.					1.
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606													
CLIONA CELATA	3666060101													
CLIONA LOBATA	3666060102													
CLIONA VASTIFICA	3666060104													
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538													
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103									1.				8.
Crassinella lunulata	5515200102													
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205													
Crepidula fornicata	5103640204													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207													
CREPIDULA SP.	51036402													
CRYPTOSULA PALLASIANA	7816510101													
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208													
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402													
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502													
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201		1.					1.	1.		1.		1.	
ECHINOIDEA	8136													
Edotia triloba	6162020703					3.						1.		
Edwardsia elegans	3759010101													
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207					2.								6.
Eteone longa	5001130205													
Euclymene collaris	5001631102													
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101													
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701													
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709		1.			4.	1.		1.					
GASTROPODA	51													
Gemma gemma	5515471301	4.	1.		1.	46.	20.	6,574.	4,976.	40.	14.	6.	2.	
Glycera americana	5001270104													
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104													
Gyptis cf. vittata	5001210103													
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102							2.	4.	3.	1.			
Harmothoe extenuata	5001020803													
Harmothoe imbricata	5001020806													
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601													
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201													
Heteromysis formosa	6153010802													
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104													
Hutchinsoniella macracantha	6102010101													
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301		1.									4.		
Hydroides dianthus	5001730901													
IDOTEA PHOSPHOREA	6162020309							2.						
Ilyanassa obsoleta	5105080201	5.			3.	7.	9.	5.	11.		3.	16.	30.	19.
Ilyanassa trivittata	5105080202													
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603													
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016													
Lembos smithi	6169060303													
Lepidonotus squamatus	5001021103													
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702													
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206													
Lysianopsis alba	6169345304													
Macoma tenta	5515310120													
Maldane sarsi	5001630301													
MARENZELLERIA VIRIDIS	5001430602													
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201													
Mediomastus ambiseta	5001600401													2.
Melinna cristata	5001670501													
Melita nitida	6169211006					6.								
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101													
Microciona prolifera	3664070703													
Microdeutopus anomalus	6169060402													
Microdeutopus gryllotalpa	6169060401													
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207													
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201	1.	1.											
Monocorophium tuberculatum	6169150207													
MONTICELLINA BAPTISTEAE	5001509897													
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301	2.	1.					1.				2.		4.
Mya arenaria	5517010201											1.		
Mytilus edulis	5507010101													
Neanthes arenaceodentata	5001240305													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309	1.				2.	1.					1.		
Neanthes virens	5001240302													
Nephtys incisa	5001250115													
Nephtys picta	5001250117													
NEREIDAE	500124													
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204													
Notomastus latericeus	5001600306													
Nucula annulata	5502020205													
Nucula proxima	5502020204													
OBELIA BIDENTATA	3704010218													
Odontosyllis fulgurans	5001231304													
ODOSTOMIA BISUTURALIS	5108011401													
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003							30.	21.	30.	42.	2.		251.
ONUPHIDAE	500129													
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227													
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304					1.								
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901													
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304													
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302													
PEDICELLINA CERNUA	7902010101													
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102													
Phascolion strombi	7200020401													
Pholoe minuta	5001060101													
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410													
Pinnixa sayana	6189060409													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502													
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804													
POLYCIRRUS SP.	50016808													
Polydora cornuta	5001430448	2.	1.			2.		13.	2.					2.
POLYDORA SP.	50014304													
Polydora websteri	5001430412													
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517													
Prionospio heterobranchia	5001430503													
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403													
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202													
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101													
Scolelepis bousfieldi	5001432002													
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140													
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400115	400116	400215	400216	400315	400316	400415	400416	400515	400516	400615	400616	400715
	Station ID	105	105	108	108	109	109	111	111	114	114	115	115	117
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704													
Spiophanes bombyx	5001431001													
Spurwinkia salsa	5103133601	6.												
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302													
Streblospio benedicti	5001431801	146.	163.	1.	2.	295.	146.	288.	245.	136.	270.	55.	2.	3,634.
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601													
Tellina agilis	5515310205													
TELLINIDAE	551531													
TEREBELLIDAE	500168													
Tharyx acutus	5001500305							5.	9.					8.
Thyasira gouldi	5515020325													
TUBULANUS SP.	43020101													
TURBELLARIA	3901													
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275													
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703													
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511													
YOLDIA SP.	55020405													
Total		176	177	4	7	373	179	6925	5272	210	331	94	40	3935

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400716	400815	400816	400915	400916	401015	401016	401115	401116	401215	401216	401315	401316
	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103													
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101													
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108													
Ampelisca vadorum	6169020109													
Ampelisca verrilli	6169020110													
Ampharete finmarchica	5001670214													
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110													
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115													
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306													
Anadara transversa	5506010201													
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202													
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201													
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306													
ARICIDEA (ACMIRA) CERRUTI	5001411301													
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104													
Balanus venustus	6134020121													
Batea catherinensis	6169100101													
Bittium alternatum	5103460105													
BIVALVIA	55													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400716	400815	400816	400915	400916	401015	401016	401115	401116	401215	401216	401315	401316
	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801													
Boonea seminuda	5108011403													
Bowerbankia gracilis	7805010201		0.		0.	0.		0.	0.	0.	0.	0.		
BOWERBANKIA IMBRICATA	7805010202	0.												
Brania clavata	5001230902													
Brania wellfleetensis	5001230903													
BUGULA TURRITA	7815250101													
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401													
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101	1.			3.	4.			2.		283.	297.		
CAPITELLA JONESI	5001600198													
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706													
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002	1.												
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601													
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103													
CHAETOZONE SP.	50015004													
CIRRATULIDAE	500150						9.	43.			1.	1.		
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606													
CLIONA CELATA	3666060101													
CLIONA LOBATA	3666060102													
CLIONA VASTIFICA	3666060104													
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538					0.				0.				
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103	10.	1.			1.	1.	2.					2.	
Crassinella lunulata	5515200102													
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400716	400815	400816	400915	400916	401015	401016	401115	401116	401215	401216	401315	401316
	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207													
CREPIDULA SP.	51036402													
CRYPTOSULA PALLASIANA	7816510101													
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208													
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402													
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502													
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201				6.	14.			1.	11.		1.		
ECHINOIDEA	8136													
Edotia triloba	6162020703						1.				3.	8.		
Edwardsia elegans	3759010101													
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207	1.					3.	3.			17.	15.	3.	8.
Eteone longa	5001130205													
Euclymene collaris	5001631102													
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101													
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701													
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301			1.				4.			42.	75.	4.	6.
Glycera americana	5001270104													
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400716	400815	400816	400915	400916	401015	401016	401115	401116	401215	401216	401315	401316
	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	**NODC Code**	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104													
Gyptis cf. vittata	5001210103													
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102													
Harmothoe extenuata	5001020803													
Harmothoe imbricata	5001020806													
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601													
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201													
Heteromysis formosa	6153010802													
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104													
Hutchinsoniella macracantha	6102010101													
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901													
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201	20.	5.	5.	3.	1.	29.	8.	26.	27.	12.	16.	2.	3.
Ilyanassa trivittata	5105080202													
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603							1.					2.	
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016						1.						1.	
Lembos smithi	6169060303													
Lepidonotus squamatus	5001021103													
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702													
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901	1.												
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108										1.			
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206													
Lysianopsis alba	6169345304													
Macoma tenta	5515310120													
Maldane sarsi	5001630301													
MARENZELLERIA VIRIDIS	5001430602										5.			
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201													
Mediomastus ambiseta	5001600401	1.									1.	1.	27.	24.
Melinna cristata	5001670501													
Melita nitida	6169211006										3.	3.		
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101				1.		3.	1.						1.
Microciona prolifera	3664070703													
Microdeutopus anomalus	6169060402													
Microdeutopus gryllotalpa	6169060401													
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207									2.				
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201													
Monocorophium tuberculatum	6169150207													
MONTICELLINA BAPTISTEAE	5001509897													
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301	4.	1.		1.		181.	178.	2.		1.		238.	172.
Mya arenaria	5517010201										1.	2.		
Mytilus edulis	5507010101													
Neanthes arenaceodentata	5001240305													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400716	400815	400816	400915	400916	401015	401016	401115	401116	401215	401216	401315	401316
	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309													
Neanthes virens	5001240302										7.			
Nephtys incisa	5001250115													
Nephtys picta	5001250117													
NEREIDAE	500124													
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204													
Notomastus latericeus	5001600306													
Nucula annulata	5502020205													
Nucula proxima	5502020204													
OBELIA BIDENTATA	3704010218	0.				0.			0.	0.				
Odontosyllis fulgurans	5001231304													
ODOSTOMIA BISUTURALIS	5108011401												1.	
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003	128.	24.	35.	49.	21.	471.	221.	6.	2.	206.	69.	234.	179.
ONUPHIDAE	500129													
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227													
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304				1.	11.				1.				
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901													
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304													
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302							1.			1.			1.
PEDICELLINA CERNUA	7902010101									0.				
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102													
Phascolion strombi	7200020401													
Pholoe minuta	5001060101													
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400716	400815	400816	400915	400916	401015	401016	401115	401116	401215	401216	401315	401316
	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502													
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804													
POLYCIRRUS SP.	50016808													
Polydora cornuta	5001430448	2.				2.	2.	7.			37.	5.	1.	
POLYDORA SP.	50014304													
Polydora websteri	5001430412													
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517													
Prionospio heterobranchia	5001430503													
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403													
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202													
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101													
Scolelepis bousfieldi	5001432002													
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140													
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	400716	400815	400816	400915	400916	401015	401016	401115	401116	401215	401216	401315	401316
	Station ID	117	120	120	121	121	123	123	125	125	126	126	128	128
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	**NODC Code**	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704													
Spiophanes bombyx	5001431001													
Spurwinkia salsa	5103133601													
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302													
Streblospio benedicti	5001431801	2,087.	73.	75.	86.	32.	806.	695.	36.	7.	175.	140.	396.	410.
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601													
Tellina agilis	5515310205													
TELLINIDAE	551531													
TEREBELLIDAE	500168													
Tharyx acutus	5001500305	4.					94.	287.	2.		1.		25.	19.
Thyasira gouldi	5515020325													
TUBULANUS SP.	43020101													
TURBELLARIA	3901	1.					2.							
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275													
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703													
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511													
YOLDIA SP.	55020405													
Total		2261	104	116	150	86	1603	1451	75	50	797	633	936	823

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103													
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101													
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108													
Ampelisca vadorum	6169020109													
Ampelisca verrilli	6169020110													
Ampharete finmarchica	5001670214													
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110													
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115													
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306													
Anadara transversa	5506010201													
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202													
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201													
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306													
ARICIDEA (ACMIRA) CERRUTI	5001411301													
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104													
Balanus venustus	6134020121													
Batea catherinensis	6169100101													
Bittium alternatum	5103460105													
BIVALVIA	55													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801													
Boonea seminuda	5108011403													
Bowerbankia gracilis	7805010201			0.		0.	0.	0.					0.	0.
BOWERBANKIA IMBRICATA	7805010202													
Brania clavata	5001230902													
Brania wellfleetensis	5001230903													
BUGULA TURRITA	7815250101													
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401													
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101	58.	140.	2.				3.	2.			9.	9.	
CAPITELLA JONESI	5001600198													
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706													
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002													
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601													
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103													
CHAETOZONE SP.	50015004													
CIRRATULIDAE	500150	2.		7.	1.	7.	4.							2.
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606													
CLIONA CELATA	3666060101													
CLIONA LOBATA	3666060102													
CLIONA VASTIFICA	3666060104													
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538							0.					0.	
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103			1.	3.	1.								
Crassinella lunulata	5515200102													
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205								2.					
Crepidula fornicata	5103640204													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207													
CREPIDULA SP.	51036402													
CRYPTOSULA PALLASIANA	7816510101													
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208													
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402													
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502													
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201	3.	1.									1.	3.	
ECHINOIDEA	8136													
Edotia triloba	6162020703	1.						2.	1.					
Edwardsia elegans	3759010101													
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207	2.		1.		4.		7.	7.					
Eteone longa	5001130205													
Euclymene collaris	5001631102													
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101													
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701													
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301	2.						303.	288.	1.				1.
Glycera americana	5001270104													
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104													
Gyptis cf. vittata	5001210103													
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102													
Harmothoe extenuata	5001020803													
Harmothoe imbricata	5001020806													
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601							7.	11.					
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201													
Heteromysis formosa	6153010802													
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104													
Hutchinsoniella macracantha	6102010101													
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901													
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201	16.	14.	7.	23.	7.	13.	13.	35.	33.	22.	6.	19.	7.
Ilyanassa trivittata	5105080202													
Ischyrocerus anguipes	6169270202						1.							
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603			1.		1.	2.					1.		
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016					3.	1.							
Lembos smithi	6169060303													
Lepidonotus squamatus	5001021103													
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702													
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206													
Lysianopsis alba	6169345304													
Macoma tenta	5515310120													
Maldane sarsi	5001630301													
MARENZELLERIA VIRIDIS	5001430602	2.	1.											
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201													
Mediomastus ambiseta	5001600401		1.	18.	4.			1.						84.
Melinna cristata	5001670501													
Melita nitida	6169211006													
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101			1.								1.		1.
Microciona prolifera	3664070703													
Microdeutopus anomalus	6169060402													
Microdeutopus gryllotalpa	6169060401													
Microphthalmus aberrans	5001210202		1.											
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207													1.
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201									1.				
Monocorophium tuberculatum	6169150207													
MONTICELLINA BAPTISTEAE	5001509897													
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301			37.	3.	62.	37.			2.	2.			74.
Mya arenaria	5517010201													
Mytilus edulis	5507010101								1.					
Neanthes arenaceodentata	5001240305													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309													
Neanthes virens	5001240302	1.	1.											
Nephtys incisa	5001250115													
Nephtys picta	5001250117													
NEREIDAE	500124													
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204													
Notomastus latericeus	5001600306													
Nucula annulata	5502020205													
Nucula proxima	5502020204													
OBELIA BIDENTATA	3704010218					0.	0.							0.
Odontosyllis fulgurans	5001231304													
ODOSTOMIA BISUTURALIS	5108011401													
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003	64.	124.	75.	74.	162.	246.	31.	12.	2.		19.	51.	251.
ONUPHIDAE	500129													
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227													
Pagurus longicarpus	6183060230								1.					
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304													
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901													
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304													
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302			1.										2.
PEDICELLINA CERNUA	7902010101													0.
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102													
Phascolion strombi	7200020401													
Pholoe minuta	5001060101													
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410													
Pinnixa sayana	6189060409													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502													
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804													
POLYCIRRUS SP.	50016808													
Polydora cornuta	5001430448	7.	16.	2.			1.	10.	6.	1.			1.	
POLYDORA SP.	50014304													
Polydora websteri	5001430412													
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517													
Prionospio heterobranchia	5001430503													
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302							11.	2.					1.
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403													
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202													
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101													
Scolelepis bousfieldi	5001432002													
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140													
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	401415	401416	401515	401516	401615	401616	401715	401716	401815	401816	401915	401916	402015
	Station ID	130	130	131	131	134	134	135	135	138	138	139	139	140
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	**NODC Code**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Spio setosa	5001430704													
Spiophanes bombyx	5001431001													
Spurwinkia salsa	5103133601													
SQUILLA EMPUSA	6191010101											1.		
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302													
Streblospio benedicti	5001431801	105.	184.	267.	168.	327.	256.	43.	28.	101.	90.	26.	28.	320.
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601													
Tellina agilis	5515310205													1.
TELLINIDAE	551531													1.
TEREBELLIDAE	500168													
Tharyx acutus	5001500305	1.	1.	67.	23.	83.	89.	3.					1.	61.
Thyasira gouldi	5515020325													
TUBULANUS SP.	43020101													
TURBELLARIA	3901													
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275													
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703													
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511													
YOLDIA SP.	55020405													
Total		264	484	487	299	657	650	434	396	141	114	64	112	807

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103													
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101													
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108													
Ampelisca vadorum	6169020109													
Ampelisca verrilli	6169020110													
Ampharete finmarchica	5001670214													
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110													
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115							1.						
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306													
Anadara transversa	5506010201													
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202												1.	
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201													
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306													
ARICIDEA (ACMIRA) CERRUTI	5001411301													
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104													
Balanus venustus	6134020121													
Batea catherinensis	6169100101													
Bittium alternatum	5103460105													
BIVALVIA	55													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801													
Boonea seminuda	5108011403			1.										
Bowerbankia gracilis	7805010201	0.	0.	0.	0.		0.		0.	0.		0.	0.	
BOWERBANKIA IMBRICATA	7805010202													0.
Brania clavata	5001230902													
Brania wellfleetensis	5001230903													
BUGULA TURRITA	7815250101													
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401													
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101			2.	20.	10.	6.	4.	5.		6.		1.	5.
CAPITELLA JONESI	5001600198					1.							1.	
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706													
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002													
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601													
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103													
CHAETOZONE SP.	50015004													
CIRRATULIDAE	500150	3.	40.	45.			19.	180.	12.	3.			506.	28.
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606													
CLIONA CELATA	3666060101									1.			2.	
CLIONA LOBATA	3666060102			1.						1.			4.	3.
CLIONA VASTIFICA	3666060104													
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538				0.				0.					
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103	1.												
Crassinella lunulata	5515200102													
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205		1.	1.					4.	14.			7.	1.
Crepidula fornicata	5103640204		1.	1.			1.			1.			1.	2.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207													
CREPIDULA SP.	51036402								1.				1.	
CRYPTOSULA PALLASIANA	7816510101									0.			0.	0.
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208													
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402													2.
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502													
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201		1.	3.	3.	11.	1.	1.		2.	1.	2.	4.	2.
ECHINOIDEA	8136													
Edotia triloba	6162020703													
Edwardsia elegans	3759010101													
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207	2.					2.			2.			2.	2.
Eteone longa	5001130205													
Euclymene collaris	5001631102													
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101			3.			1.	1.		2.				5.
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701													
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301		1.					3.	1.			1.		1.
Glycera americana	5001270104													
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104													
Gyptis cf. vittata	5001210103			1.										
HALECIUM SP.	37040601			0.						0.				
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102													
Harmothoe extenuata	5001020803													
Harmothoe imbricata	5001020806													
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601									1.				
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201													
Heteromysis formosa	6153010802												3.	
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104					1.								
Hutchinsoniella macracantha	6102010101													
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901							1.		4.			7.	1.
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201	21.	8.	4.	36.	23.	15.	4.	9.	14.	43.	71.	1.	
Ilyanassa trivittata	5105080202													
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603	4.	7.	12.		3.	1.		8.	3.			7.	
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016	3.	1.	4.			2.	12.		8.			1.	1.
Lembos smithi	6169060303													
Lepidonotus squamatus	5001021103													
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702													
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206													
Lysianopsis alba	6169345304													
Macoma tenta	5515310120													
Maldane sarsi	5001630301													
MARENZELLERIA VIRIDIS	5001430602													
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201													
Mediomastus ambiseta	5001600401	48.	3.	8.				3.	9.	20.			118.	33.
Melinna cristata	5001670501													
Melita nitida	6169211006						1.							
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101		4.	3.	1.	3.			7.	9.			15.	7.
Microciona prolifera	3664070703													
Microdeutopus anomalus	6169060402													
Microdeutopus gryllotalpa	6169060401					1.			1.				2.	
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													0.
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207													
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201								1.					
Monocorophium tuberculatum	6169150207													
MONTICELLINA BAPTISTEAE	5001509897													
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301	84.	2.	3.					2.				2.	
Mya arenaria	5517010201													
Mytilus edulis	5507010101													
Neanthes arenaceodentata	5001240305													5.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309													
Neanthes virens	5001240302				1.								1.	
Nephtys incisa	5001250115													
Nephtys picta	5001250117													
NEREIDAE	500124												4.	
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204													
Notomastus latericeus	5001600306													
Nucula annulata	5502020205													
Nucula proxima	5502020204													
OBELIA BIDENTATA	3704010218	0.	0.	0.			0.		0.	0.			0.	
Odontosyllis fulgurans	5001231304													
ODOSTOMIA BISUTURALIS	5108011401	1.				1.			2.					
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003	267.	36.	59.	10.	63.	136.	165.	113.	180.	5.	9.	285.	28.
ONUPHIDAE	500129													
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227													
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304						1.				1.	2		
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901								1.					
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304													
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302		1.				2.	2.	2.				5.	
PEDICELLINA CERNUA	7902010101												0.	0.
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102												1.	
Phascolion strombi	7200020401													
Pholoe minuta	5001060101													
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410													
Pinnixa sayana	6189060409													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502	1.					1.	1.		5.			8.	4.
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804													
POLYCIRRUS SP.	50016808													
Polydora cornuta	5001430448		5.	24.			18.	56.	21.	118.		1.	46.	3.
POLYDORA SP.	50014304													
Polydora websteri	5001430412												14.	4.
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517													
Prionospio heterobranchia	5001430503													
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506									1.				
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403													
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202													
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101									0.				0.
Scolelepis bousfieldi	5001432002													
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140													
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402016	402115	402116	402215	402216	402315	402316	402415	402416	402515	402516	402615	402616
	Station ID	140	146	146	147	147	150	150	151	151	152	152	154	154
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704									1.				
Spiophanes bombyx	5001431001													
Spurwinkia salsa	5103133601													
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302													
Streblospio benedicti	5001431801	411.	72.	126.	9.	36.	121.	250.	189.	308.	3.	20.	283.	45.
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601													
Tellina agilis	5515310205	2.		1.						1.				
TELLINIDAE	551531	1.												
TEREBELLIDAE	500168												1.	
Tharyx acutus	5001500305	32.	65.	70.		2.	113.	229.	123.	109.		2.	780.	96.
Thyasira gouldi	5515020325													
TUBULANUS SP.	43020101													
TURBELLARIA	3901													
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275													
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703													
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511													
YOLDIA SP.	55020405													
Total		881	248	372	80	155	441	913	511	808	59	104	2114	278

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103											
Aeginina longicornis	6171010801											
AEVERRILLIA ARMATA	7806010101											
AMATHIA VIDOVICI	7805010102											
AMEROCULODES SP.	6169379899											
Ampelisca abdita	6169020108											
Ampelisca vadorum	6169020109											
Ampelisca verrilli	6169020110											
Ampharete finmarchica	5001670214											
AMPHARETIDAE	500167											
AMPHIOPLUS ABDITA	8129030901											
Amphiporus bioculatus	4306050110											
Amphiporus ochraceus	4306050112											
AMPHITRITE AFFINIS	5001680403											
AMPITHOE LONGIMANA	6169040115											
Ampithoe rubricata	6169040101											
Anachis lafresnayi	5105030306											
Anadara transversa	5506010201											
Ancistrosyllis hartmanae	5001220102											
Anomia simplex	5509090202				2.		2.					
ANOMIA SP.	55090902											
ANTHOMEDUSAE	3703											
Aphelochaeta marioni	5001500307											
Apocorophium acutum	6169150213				2.							
Arabella iricolor	5001330201											
ARBACIA PUNCTULATA	8147010101											
ARCHIANNELIDA	5002											
Arctica islandica	5515390101											
ARICIDEA (ACMIRA) CATHERINAE	5001411306											
ARICIDEA (ACMIRA) CERRUTI	5001411301											
ARICIDEA SP.	50014102											
ASCOPHORA	7816											
ASSIMINEA SUCCINEA	5103210103											
Autolytus fasciatus	5001230111											
Balanus crenatus	6134020104											
Balanus venustus	6134020121											
Batea catherinensis	6169100101											
Bittium alternatum	5103460105											
BIVALVIA	55											

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801											
Boonea seminuda	5108011403						1.					
Bowerbankia gracilis	7805010201	0.			0.	0.	0.					
BOWERBANKIA IMBRICATA	7805010202											
Brania clavata	5001230902											
Brania wellfleetensis	5001230903											
BUGULA TURRITA	7815250101											
BYBLIS SERRATA	6169020203											
Cabira incerta	5001220401											
CAECUM PULCHELLUM	5103360301											
CALLIOPIUS LAEVIUSCULUS	6169120201											
CAMPANULARIIDAE	370401							0.				
Cancer irroratus	6188030108											
Capitella capitata complex	5001600101	6.	5.	16.				25.	26.	2.	4.	
CAPITELLA JONESI	5001600198		1.					2.	1.		1.	
Caprella penantis	6171010727											
Carazziella hobsonae	5001432706											
CAULLERIELLA CF. KILLARIENSIS	5001500204											
CAULLERIELLA SP.	50015002					6.	5.	2.	2.			
CERAPUS TUBULARIS	6169150102											
Cerastoderma pinnulatum	5515220601											
Cerebratulus lacteus	4303020209											
CEREBRATULUS SP.	43030202											
CERIANTHARIA	3743											
Chaetopleura apiculata	5303060103											
CHAETOZONE SP.	50015004											
CIRRATULIDAE	500150			8.		4.	2.	15.	6.	11.	2.	
Cirriformia grandis	5001500104											
Cirrophorus furcatus	5001410606											
CLIONA CELATA	3666060101				3.							
CLIONA LOBATA	3666060102				4.	2.						
CLIONA VASTIFICA	3666060104				17.						2.	
Clymenella torquata	5001630202											
CLYTIA GRACILIS	3704010538									0.		
Corbula contracta	5517020201											
Crangon septemspinosa	6179220103											
Crassinella lunulata	5515200102											
Crassostrea virginica	5510020102											
Crepidula convexa	5103640205		2.		17.	2.	2.			9.	11.	
Crepidula fornicata	5103640204				33.	2.	1.					

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207											
CREPIDULA SP.	51036402											
CRYPTOSULA PALLASIANA	7816510101				0.		0.			0.		
Cumingia tellinoides	5515350302											
CYCLASPIS VARIANS	6154090202											
Cylichna oryza	5110040208											
Cymadusa compta	6169040201											
Diastylis polita	6154050121											
Dipolydora socialis	5001430402				1.	1.	8.					
DODECACERIA SP.	50015005				1.							
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502											
Drilonereis longa	5001330103											
DYNAMENA PUMILA	3704050609											
DYSPANOPEUS SAYI	6189024201	2.	6.		2.	1.			1.		2.	
ECHINOIDEA	8136											
Edotia triloba	6162020703		1.									
Edwardsia elegans	3759010101											
Elasmopus laevis	6169210301				2.							
Eobrolgus spinosus	6169421901											
Epitomapta roseola	8178010206											
EPIZOANTHUS SP.	37560201											
ERICHSONELLA FILIFORMIS	6162020602											
Ericthonius brasiliensis	6169150302											
Ericthonius fasciatus	6169150308											
ERICTHONIUS SP.	61691503											
Eteone heteropoda	5001130207	4.	11.			1.	1.	1.				
Eteone longa	5001130205											
Euclymene collaris	5001631102											
Eulalia bilineata	5001130304											
Eulalia viridis	5001130301											
Eumida sanguinea	5001131101				15.							
EUNICIDAE	500130											
EUPROGNATHA RASTELLIFERA	6187011101											
Exogone dispar	5001230701											
Fargoa bartschi	5108011501											
Gammarus mucronatus	6169210709											
GASTROPODA	51											
Gemma gemma	5515471301	6.	48.							17.	23.	
Glycera americana	5001270104											
Glycera dibranchiata	5001270105											

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701											
GLYCERA SP. 1	5001270198											
Glycinde solitaria	5001280104											
Gyptis cf. vittata	5001210103											
HALECIUM SP.	37040601											
HALICHONDRIA BOWERBANKI	3665020204				1.							
HALOCLAVA PRODUCTA	3759030101											
Haminoea solitaria	5110120102											6.
Harmothoe extenuata	5001020803											
Harmothoe imbricata	5001020806											
HARMOTHOE MACGINITEI	5001020830											
HARMOTHOE SP.	50010208											
HEDISTE DIVERSICOLOR	5001241601				1.							
Heterocrypta granulata	6187020801											
Heteromastus filiformis	5001600201											
Heteromysis formosa	6153010802				1.							
HIPPOLYTE PLEURACANTHUS	6179160103											
Hippolyte zostericola	6179160104											
Hutchinsoniella macracantha	6102010101											
HYDRACHNIDA	593010											
HYDRACTINIA ECHINATA	3703180304											
HYDROBIA SP.	51031301											
Hydroides dianthus	5001730901				6.	1.	3.			18.		
IDOTEA PHOSPHOREA	6162020309											
Ilyanassa obsoleta	5105080201	23.	15.					1.		4.	2.	
Ilyanassa trivittata	5105080202											
Ischyrocerus anguipes	6169270202											
Kurtziella cerina	5106021103											
Lacuna vincta	5103090305											
Lamprops quadriplicata	6154010105											
Leitoscoloplos acutus	5001400305											
LEITOSCOLOPLOS FRAGILIS	5001401603						1.		2.	1.		
Leitoscoloplos robustus	5001400304											
LEITOSCOLOPLOS SP.	50014016					11.	15.	3.		6.	21.	6.
Lembos smithi	6169060303											
Lepidonotus squamatus	5001021103											
Lepidonotus sublevis	5001021104											
Leptocheirus pinguis	6169060702											
Leptochelia dubia	6157150202											
Leucon americanus	6154040110											

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801											
Libinia dubia	6187010901											
LISSODENDORYX CAROLINENSIS	3664111204											
Listriella barnardi	6169330301											
Littorina littorea	5103100108											
Luconacia incerta	6171011101											
LUNATIA TRISERIATA	5103760409											
Lyonsia hyalina	5520050206											
Lysianopsis alba	6169345304											
Macoma tenta	5515310120											
Maldane sarsi	5001630301											
MARENZELLERIA VIRIDIS	5001430602											
MARGARITES HELICINUS	5102100302											
MARGARITES SP.	51021003											
MARPHYSA SANGUINEA	5001300201				1.							
Mediomastus ambiseta	5001600401	3.	3.	5.		37.	15.		4.	3.	10.	
Melinna cristata	5001670501											
Melita nitida	6169211006	1.	1.									
MEMBRANIPORA TENUIS	7815040103											
MEMBRANIPORIDAE	781504											
Mercenaria mercenaria	5515471101			5.	7.	8.	2.			1.	22.	4.
Microciona prolifera	3664070703				1.							
Microdeutopus anomalus	6169060402											
Microdeutopus gryllotalpa	6169060401				11.	1.						
Microphthalmus aberrans	5001210202											
Microphthalmus sczelkowii	5001210201											
MICROPHTHALMUS SP.	50012102											
MICROPHTHALMUS SP. A	5001210298											
MICROPORELLA CILIATA	7816110101				0.		0.					
Microprotopus raneyi	6169260901											
Mitrella lunata	5105030207											
Molgula manhattensis	8406030108											
Monocorophium acherusicum	6169150201		1.		1.							
Monocorophium tuberculatum	6169150207				1.							
MONTICELLINA BAPTISTEAE	5001509897											
Monticellina dorsobranchialis	5001500310											
Mulinia lateralis	5515250301					2.		3.	1.	2.	2.	61.
Mya arenaria	5517010201											
Mytilus edulis	5507010101											
Neanthes arenaceodentata	5001240305			3.	9.					2.	1.	

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309				4.							
Neanthes virens	5001240302		1.					1.				
Nephtys incisa	5001250115											
Nephtys picta	5001250117											
NEREIDAE	500124				9.							
Nereis grayi	5001240409											
NEVERITA DUPLICATA	5103760704											
NICOLEA ZOSTERICOLA	5001680601											
Ninoe nigripes	5001310204											
Notomastus latericeus	5001600306											
Nucula annulata	5502020205											
Nucula proxima	5502020204											
OBELIA BIDENTATA	3704010218				0.		0.					
Odontosyllis fulgurans	5001231304											
ODOSTOMIA BISUTURALIS	5108011401											
Odostomia eburnea	5108010134											
OLIGOCHAETA	5003	10.	5.	25.	126.	53.	42.	211.	127.	10.	10.	17.
ONUPHIDAE	500129											
OPHIUROIDEA	8120											
Owenia fusiformis	5001640102											
Oxyurostylis smithi	6154050801											
Pagurus annulipes	6183060227											
Pagurus longicarpus	6183060230											
PAGURUS POLLICARIS	6183060232											
Palaemonetes vulgaris	6179110304	3.										
Pandora gouldiana	5520020107											
PANDORA SP.	55200201											
Paracaprella tenuis	6171010901											
Parapionosyllis longicirrata	5001231701											
PARASMITTINA NITIDA	7816130304											
PAROUGIA CAECA	5001361401											
Pectinaria gouldi	5001660302		1.			3.	1.					2.
PEDICELLINA CERNUA	7902010101					0.	0.					
PERIGONIMUS JONESI	3703010107											
Petricola pholadiformis	5515480102					1.					1.	
Phascolion strombi	7200020401											
Pholoe minuta	5001060101											
Phoxocephalus holbolli	6169420702											
Phyllodoce arenae	5001131410											
Pinnixa sayana	6189060409											

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707											
Pitar morrhuanus	5515471201											
Platynereis dumerilii	5001240503											
Podarke obscura	5001211502				33.	1.			1.		1.	
PODOCORYNE CARNEA	3703180203											
POLINICINAE	510376											
Polycirrus eximius	5001680804											
POLYCIRRUS SP.	50016808											
Polydora cornuta	5001430448	1.	5.	7.	1.	25.	39.	24.	25.	9.	16.	
POLYDORA SP.	50014304											
Polydora websteri	5001430412				1.							
Pontogeneia inermis	6169201203											
Prionospio (Minuspio) perkinsi	5001430517											
Prionospio heterobranchia	5001430503										1.	
PRIONOSPIO SP.	50014305											
Prionospio steenstrupi	5001430506											
Proboloides holmesi	6169480801											
Proceraea cornuta	5001230101											
PROSUBERITES SP.	36660302											
Protodorvillea gaspeensis	5001360202											
Ptilanthura tenuis	6160010301											
Pygospio elegans	5001431302											
Rhepoxynius hudsoni	6169421502											
Rictaxis punctostriatus	5110010403											
Rudilemboides naglei	6169061201											
Sabellaria vulgaris	5001650202											
Saccoglossus kowalevskii	8201010302											
Scalibregma inflatum	5001570101											
SCHIZOPORELLA CORNUTA	7816080103											
SCHIZOPORELLA UNICORNIS	7816080101				0.							
Scolelepis bousfieldi	5001432002											
SCOLELEPIS SP.	50014320											
Scolelepis texana	5001432006											
Scoletoma hebes	5001310140											
Scoloplos (Leodamus) rubra	5001400307											
SCOLOPLOS RISERI	5001400504											
Seila adamsi	5103460401											
Sertularia cupressina	3704050316											
Solemya velum	5504010101											
Sphaerosyllis longicauda	5001230817											

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	402715	402716	402815	402816	402915	402916	403015	403016	403115	403116	403215
	Station ID	155	155	202	202	204	204	207	207	208	208	211
	Replicate	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704									7.	6.	
Spiophanes bombyx	5001431001											
Spurwinkia salsa	5103133601											
SQUILLA EMPUSA	6191010101											
Stenothoe minuta	6169481002											
Sthenelais boa	5001060302											
Streblospio benedicti	5001431801	12.	46.	25.	1.	101.	65.	113.	57.	82.	183.	25.
STREPTOSYLLIS CF. WEBSTERI	5001231603											
SYLLIDAE	500123											
SYLLIDES CF. VERRILLI	5001231508											
Syllides japonica	5001231501											
Tectonatica pusilla	5103760601											
Tellina agilis	5515310205					2.				5.	4.	
TELLINIDAE	551531											
TEREBELLIDAE	500168											
Tharyx acutus	5001500305	19.	5.	1.		4.	4.	6.	2.	45.	40.	
Thyasira gouldi	5515020325											
TUBULANUS SP.	43020101											
TURBELLARIA	3901											
Turbonilla aequalis	5108010224											
Turbonilla elegantula	5108010275											
TURBONILLA SP.	51080102											
Typosyllis alternata	5001230501				2.							
Unciola dissimilis	6169150706											
Unciola irrorata	6169150703											
UNCIOLA SERRATA	6169150704											
Upogebia affinis	6183170102											
UROSALPINX CINEREA	5105010301											
Yoldia limatula	5502040511											
YOLDIA SP.	55020405											
Total		90	157	95	316	269	209	407	255	234	365	121

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103													
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101													
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108													
Ampelisca vadorum	6169020109													
Ampelisca verrilli	6169020110													
Ampharete finmarchica	5001670214													
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110													
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115													
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306													
Anadara transversa	5506010201													
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202				1.								1.	
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201													
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306													
ARICIDEA (ACMIRA) CERRUTI	5001411301													
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104													
Balanus venustus	6134020121													
Batea catherinensis	6169100101													
Bittium alternatum	5103460105													
BIVALVIA	55												2.	

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801													
Boonea seminuda	5108011403				4.									
Bowerbankia gracilis	7805010201													
BOWERBANKIA IMBRICATA	7805010202													
Brania clavata	5001230902													
Brania wellfleetensis	5001230903													
BUGULA TURRITA	7815250101										0.			
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401						0.				0.			
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101								30.	40.			41.	28.
CAPITELLA JONESI	5001600198								2.					
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706													
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002													
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601													
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103													
CHAETOZONE SP.	50015004													
CIRRATULIDAE	500150			7.	2.		10.	10.	2.	3.	5.	3.		
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606													
CLIONA CELATA	3666060101					1.								
CLIONA LOBATA	3666060102													
CLIONA VASTIFICA	3666060104					2.								1.
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538													
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103													1.
Crassinella lunulata	5515200102													
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205								15.	2.				
Crepidula fornicata	5103640204				12.	1.				4.		8.	1.	

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207				1.									
CREPIDULA SP.	51036402													
CRYPTOSULA PALLASIANA	7816510101													
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208													
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402													
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502													
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201				3.	1.				4.				
ECHINOIDEA	8136													
Edotia triloba	6162020703													
Edwardsia elegans	3759010101													
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201										1.			
ERICHSONELLA FILIFORMIS	6162020602									1.				
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207	1.							1.	2.	2.			1.
Eteone longa	5001130205													
Euclymene collaris	5001631102													
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101				3.	2.			2.	3.			7.	1.
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701													
Fargoa bartschi	5108011501									1.				
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301		10.	13.			5.	10.	3.	1.	1.		6.	2.
Glycera americana	5001270104				1.						1.			1.
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104													
Gyptis cf. vittata	5001210103													
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102	4.	1.	1.			1.							
Harmothoe extenuata	5001020803													
Harmothoe imbricata	5001020806													
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601													
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201				1.									
Heteromysis formosa	6153010802													
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104													
Hutchinsoniella macracantha	6102010101													
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901								6.	1.	1.			
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201		1.	3.			2.	3.					18.	1.
Ilyanassa trivittata	5105080202													
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603		1.	4.			11.	19.	1.			1.		
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016	4.			1.	3.		3.	11.	7.	1.		2.	
Lembos smithi	6169060303													
Lepidonotus squamatus	5001021103													
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702													
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206													
Lysianopsis alba	6169345304													
Macoma tenta	5515310120													
Maldane sarsi	5001630301													
MARENZELLERIA VIRIDIS	5001430602													
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201									1.				
Mediomastus ambiseta	5001600401			2.	1.	1.	2.	4.	4.		3.	1.	23.	8.
Melinna cristata	5001670501													
Melita nitida	6169211006													
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101	2.	5.	7.	5.	5.	1.		2.	3.			1.	7.
Microciona prolifera	3664070703													
Microdeutopus anomalus	6169060402													
Microdeutopus gryllotalpa	6169060401													
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201			1.										
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207													
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201				1.	1.							2.	
Monocorophium tuberculatum	6169150207													
MONTICELLINA BAPTISTEAE	5001509897													
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301	71.	4.	39.	1.		46.	43.			10.	2.	1.	3.
Mya arenaria	5517010201			1.										
Mytilus edulis	5507010101											1.		
Neanthes arenaceodentata	5001240305								10.	20.			1.	

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309													
Neanthes virens	5001240302									1.			5.	2.
Nephtys incisa	5001250115													
Nephtys picta	5001250117													
NEREIDAE	500124													1.
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204													
Notomastus latericeus	5001600306													
Nucula annulata	5502020205													
Nucula proxima	5502020204													
OBELIA BIDENTATA	3704010218													
Odontosyllis fulgurans	5001231304													
ODOSTOMIA BISUTURALIS	5108011401													
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003	8.	6.	85.	30.	17.	130.	120.	70.	273.	16.	6.	91.	132.
ONUPHIDAE	500129													
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227													
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304													
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901													
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304													
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302	2.		1.					1.	1.	4.	3.	1.	
PEDICELLINA CERNUA	7902010101													
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102													
Phascolion strombi	7200020401													
Pholoe minuta	5001060101													
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410													
Pinnixa sayana	6189060409												2.	3.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502					1.			1.					
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804													
POLYCIRRUS SP.	50016808													
Polydora cornuta	5001430448	1.	3.	30.	1.	4.	53.	66.	20.	7.	6.	2.	137.	64.
POLYDORA SP.	50014304					1.								
Polydora websteri	5001430412												14.	
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517													
Prionospio heterobranchia	5001430503								4.					
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403													
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202													
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101													
Scolelepis bousfieldi	5001432002													
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140													
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403216	403315	403316	403415	403416	403515	403516	403615	403616	403715	403716	403815	403816
	Station ID	211	212	212	216	216	217	217	218	218	220	220	221	221
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704									2.			1.	5.
Spiophanes bombyx	5001431001													
Spurwinkia salsa	5103133601													
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302													
Streblospio benedicti	5001431801	26.	9.	125.	7.	3.	168.	131.	95.	77.	28.	4.	125.	32.
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601													
Tellina agilis	5515310205					1.			1.		2.			
TELLINIDAE	551531													
TEREBELLIDAE	500168													
Tharyx acutus	5001500305	5.	1.	55.	4.	4.	38.	83.	10.	11.			1.	1.
Thyasira gouldi	5515020325									1.				
TUBULANUS SP.	43020101													
TURBELLARIA	3901													
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275													
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703													
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511													
YOLDIA SP.	55020405													
Total		124	41	374	79	48	467	492	291	466	81	31	483	294

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103													
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101						0.							
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108					2.	2.						1.	2.
Ampelisca vadorum	6169020109													
Ampelisca verrilli	6169020110													
Ampharete finmarchica	5001670214													
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110													
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115									2.				
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306													
Anadara transversa	5506010201													
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202				2.									
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201													
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306													
ARICIDEA (ACMIRA) CERRUTI	5001411301													
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104													
Balanus venustus	6134020121				2.									
Batea catherinensis	6169100101													
Bittium alternatum	5103460105													
BIVALVIA	55												1.	1.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801													
Boonea seminuda	5108011403													
Bowerbankia gracilis	7805010201	0.		0.	0.	0.	0.	0.	0.			0.	0.	
BOWERBANKIA IMBRICATA	7805010202			0.										
Brania clavata	5001230902													
Brania wellfleetensis	5001230903													
BUGULA TURRITA	7815250101					0.		0.	0.			0.		
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201	1.												
CAMPANULARIIDAE	370401			0.										
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101		1.	1.				1.	1.	29.	55.	1.	1.	
CAPITELLA JONESI	5001600198			3.						2.				
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706													
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002													
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601													
Cerebratulus lacteus	4303020209												1.	
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103													
CHAETOZONE SP.	50015004													
CIRRATULIDAE	500150	2.	2.	1.	21.	3.		4.	1.			65.	8.	
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606													
CLIONA CELATA	3666060101													
CLIONA LOBATA	3666060102										1.			
CLIONA VASTIFICA	3666060104									1.				
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538													
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103	1.												
Crassinella lunulata	5515200102													
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205													
Crepidula fornicata	5103640204		1.	3.	2.			1.		1.	10.			

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207													
CREPIDULA SP.	51036402													
CRYPTOSULA PALLASIANA	7816510101			0.								0.		
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208													
Cymadusa compta	6169040201													
Diastylis polita	6154050121	8.												
Dipolydora socialis	5001430402				6.									
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502			1.										
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201	1.		2.	7.	2.		5.						
ECHINOIDEA	8136													
Edotia triloba	6162020703													
Edwardsia elegans	3759010101													
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207													
Eteone longa	5001130205													
Euclymene collaris	5001631102													
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101	1.		5.	6.					1.				
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701													
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301	2.	1.											
Glycera americana	5001270104					1.						1.		
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104													
Gyptis cf. vittata	5001210103													
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102													
Harmothoe extenuata	5001020803													
Harmothoe imbricata	5001020806													
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601													
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201												1.	
Heteromysis formosa	6153010802													
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104													
Hutchinsoniella macracantha	6102010101													
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901				2.							1.		
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201													
Ilyanassa trivittata	5105080202													
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603	3.					1.	5.	6.	12.				
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016					2.	2.							3.
Lembos smithi	6169060303													
Lepidonotus squamatus	5001021103				1.									
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702													
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206													
Lysianopsis alba	6169345304													
Macoma tenta	5515310120													
Maldane sarsi	5001630301													
MARENZELLERIA VIRIDIS	5001430602													
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201													
Mediomastus ambiseta	5001600401	3.	2.	16.	10.	21.	43.	4.	1.	5.	1.	3.		
Melinna cristata	5001670501													
Melita nitida	6169211006													
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101	3.	7.		7.	1.	1.	1.	3.		1.	5.	5.	10.
Microciona prolifera	3664070703			1.										
Microdeutopus anomalus	6169060402													
Microdeutopus gryllotalpa	6169060401		1.		1.					1.				
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207			1.	1.									
Molgula manhattensis	8406030108							1.		1.				
Monocorophium acherusicum	6169150201													
Monocorophium tuberculatum	6169150207													
MONTICELLINA BAPTISTEAE	5001509897													
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301	3.		2.	27.	74.	22.			4.	1.	4.	17.	590.
Mya arenaria	5517010201			1.					1.					
Mytilus edulis	5507010101	15.												
Neanthes arenaceodentata	5001240305													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309								1.	3.	2.			
Neanthes virens	5001240302		5.								1.			
Nephtys incisa	5001250115													1.
Nephtys picta	5001250117													
NEREIDAE	500124													
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204													
Notomastus latericeus	5001600306													
Nucula annulata	5502020205													
Nucula proxima	5502020204											1.	1.	
OBELIA BIDENTATA	3704010218													
Odontosyllis fulgurans	5001231304													
ODOSTOMIA BISUTURALIS	5108011401													
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003	15.	16.	104.	24.	50.	8.	26.	11.	68.	32.	7.	37.	1.
ONUPHIDAE	500129													
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227													
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304													
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901													
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304													
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302			11.	1.	5.	8.		1.			11.	4.	8.
PEDICELLINA CERNUA	7902010101				0.	0.								
PERIGONIMUS JONESI	3703010107	0.												
Petricola pholadiformis	5515480102		1.											
Phascolion strombi	7200020401													
Pholoe minuta	5001060101													
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410													
Pinnixa sayana	6189060409													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503										1.			
Podarke obscura	5001211502	2.	1.	17.	21.	3.						1.	1.	
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804													
POLYCIRRUS SP.	50016808													
Polydora cornuta	5001430448	13.	10.		6.	20.	4.			14.	9.		2.	
POLYDORA SP.	50014304													
Polydora websteri	5001430412													
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517													
Prionospio heterobranchia	5001430503													
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403													
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202													
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101			0.	0.									
Scolelepis bousfieldi	5001432002													19.
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140													
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	403915	403916	404015	404016	404115	404116	404215	404216	404315	404316	404415	404416	404515
	Station ID	222	222	224	224	225	225	226	226	227	227	230	230	231
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	**NODC Code**	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704													
Spiophanes bombyx	5001431001													
Spurwinkia salsa	5103133601													
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302													
Streblospio benedicti	5001431801	34.	24.	21.	127.	67.	78.	18.	6.	16.	1.	10.	31.	
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601													
Tellina agilis	5515310205												1.	2.
TELLINIDAE	551531													
TEREBELLIDAE	500168													
Tharyx acutus	5001500305	4.	4.	19.	324.	28.	3.	2.		1.		46.	1.	1.
Thyasira gouldi	5515020325													
TUBULANUS SP.	43020101													
TURBELLARIA	3901													
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275													
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703													
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511													
YOLDIA SP.	55020405													
Total		111	76	209	598	279	172	68	32	161	115	156	113	638

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103			1.										
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101				0.									
AMATHIA VIDOVICI	7805010102										0.			
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108				1.	3.					10.	30.	7	14.
Ampelisca vadorum	6169020109												1	
Ampelisca verrilli	6169020110													
Ampharete finmarchica	5001670214								5.					
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110													
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115													
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306								1.					
Anadara transversa	5506010201								2.		1.			
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202						13.	4.	14.					1.
ANOMIA SP.	55090902										2.			1.
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201								2.					
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002								1.					
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306								12.					
ARICIDEA (ACMIRA) CERRUTI	5001411301													
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104													
Balanus venustus	6134020121						10.	1.						
Batea catherinensis	6169100101													
Bittium alternatum	5103460105							4.		1.				
BIVALVIA	55	1.						1.				2.		

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801													
Boonea seminuda	5108011403						1.		1.					
Bowerbankia gracilis	7805010201													
BOWERBANKIA IMBRICATA	7805010202													
Brania clavata	5001230902													
Brania wellfleetensis	5001230903								3.					
BUGULA TURRITA	7815250101													
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401								2.					
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401													
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101						3.				1.			1.
CAPITELLA JONESI	5001600198								2.					
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706								6.					
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002													
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601								8.					
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103								5.					
CHAETOZONE SP.	50015004								1.					
CIRRATULIDAE	500150						84.	137.	30.		7.	3.	7.	10.
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606													
CLIONA CELATA	3666060101							1.						
CLIONA LOBATA	3666060102													
CLIONA VASTIFICA	3666060104						1.							
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538													
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103													
Crassinella lunulata	5515200102								6.					
Crassostrea virginica	5510020102							1.						
Crepidula convexa	5103640205													
Crepidula fornicata	5103640204						72.	18.	287.					1.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207						8.	2.	8.					
CREPIDULA SP.	51036402													
CRYPTOSULA PALLASIANA	7816510101							0.						
Cumingia tellinoides	5515350302								2.					
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208			1.										
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402						1.	2.	2.					
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502								7.					
Drilonereis longa	5001330103								1.					
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201						6.							
ECHINOIDEA	8136													
Edotia triloba	6162020703													
Edwardsia elegans	3759010101													
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207	2.			1.			1.		1.	5.	1.		2.
Eteone longa	5001130205													
Euclymene collaris	5001631102								1.					
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101							5.	12.					
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701								4.					
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301													
Glycera americana	5001270104						3.	3.	6.					
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104											1.		
Gyptis cf. vittata	5001210103													
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102										1.			
Harmothoe extenuata	5001020803								4.					
Harmothoe imbricata	5001020806								1.					
HARMOTHOE MACGINITEI	5001020830								6.					
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601													
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201						1.							
Heteromysis formosa	6153010802													
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104													
Hutchinsoniella macracantha	6102010101													
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901						32.	18.						
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201													
Ilyanassa trivittata	5105080202	1.							4.					
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													1.
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603		1.	2.				1.					2.	
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016						1.				4.	7.		5.
Lembos smithi	6169060303													
Lepidonotus squamatus	5001021103													
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702													
Leptochelia dubia	6157150202													
Leucon americanus	6154040110	1.				2.					3.	2.		

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206													
Lysianopsis alba	6169345304													
Macoma tenta	5515310120			4.	6.	4.						5.		2.
Maldane sarsi	5001630301													
MARENZELLERIA VIRIDIS	5001430602													
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201													
Mediomastus ambiseta	5001600401	2.	6.	2.	5.	3.	16.	25.	20.		56.	33.	13.	52.
Melinna cristata	5001670501													
Melita nitida	6169211006													
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101	1.	9.	2.	4.	1.	4.				8.	4.	13.	54.
Microciona prolifera	3664070703													
Microdeutopus anomalus	6169060402													
Microdeutopus gryllotalpa	6169060401													
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101						0.							
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207								6.	1.	1.			
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201													
Monocorophium tuberculatum	6169150207													
MONTICELLINA BAPTISTEAE	5001509897								3.					
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301	331.	945.	1,095.	405.	786.	7.			10.	222.	243.	26.	72.
Mya arenaria	5517010201													
Mytilus edulis	5507010101	1.												
Neanthes arenaceodentata	5001240305													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309													
Neanthes virens	5001240302													
Nephtys incisa	5001250115	2.	1.	1.	3.	1.					2.	8.		
Nephtys picta	5001250117													
NEREIDAE	500124								1.					
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601								2.					
Ninoe nigripes	5001310204													
Notomastus latericeus	5001600306													
Nucula annulata	5502020205						2.	1.	3.		1.			
Nucula proxima	5502020204													
OBELIA BIDENTATA	3704010218													
Odontosyllis fulgurans	5001231304								3.					
ODOSTOMIA BISUTURALIS	5108011401													
Odostomia eburnea	5108010134							1.						
OLIGOCHAETA	5003	3.	9.	2.	9.	7.	7.	10.	47.		2.	7.	1.	6.
ONUPHIDAE	500129													
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227							1.						
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304													
Pandora gouldiana	5520020107													
PANDORA SP.	55200201								3.					
Paracaprella tenuis	6171010901													
Parapionosyllis longicirrata	5001231701								1.					
PARASMITTINA NITIDA	7816130304													
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302	5.	15.	12.	11.	14.	6.	2.	4.		14.	8.	3.	8.
PEDICELLINA CERNUA	7902010101							0.						
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102													
Phascolion strombi	7200020401													
Pholoe minuta	5001060101													
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410													
Pinnixa sayana	6189060409													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502			1.			2.		13.	1.				
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804								7.					
POLYCIRRUS SP.	50016808								56.					
Polydora cornuta	5001430448	1.				2.	7.	18.			6.	1.	7.	29.
POLYDORA SP.	50014304													
Polydora websteri	5001430412													
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517						1.		8.					
Prionospio heterobranchia	5001430503										1.		1.	4.
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101								1.					
PROSUBERITES SP.	36660302						2.							
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403					2.								
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202						1.	1.						
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101						0.	0.					0	
Scolelepis bousfieldi	5001432002													
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140								13.					
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817								2.					

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	404516	404615	404616	404715	404716	404815	404816	404915	404916	405015	405016	405115	405116
	Station ID	231	235	235	236	236	237	237	240	240	241	241	242	242
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	**NODC Code**	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704													
Spiophanes bombyx	5001431001													
Spurwinkia salsa	5103133601													
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302								2.					
Streblospio benedicti	5001431801	20.	23.	27.	22.	19.	3.	10.			35.	48.	23.	86.
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601													
Tellina agilis	5515310205	3.	4.	5.	2.	5.			2.		8.	6.	2.	8.
TELLINIDAE	551531	1.	4.											
TEREBELLIDAE	500168													
Tharyx acutus	5001500305						36.	64.	46.		8.	1.	2.	13.
Thyasira gouldi	5515020325							1.				1.		
TUBULANUS SP.	43020101													
TURBELLARIA	3901													
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275								1.					
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703													
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511													
YOLDIA SP.	55020405													
Total		375	1017	1155	469	849	330	333	690	14	398	411	100	370

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103												
Aeginina longicornis	6171010801												
AEVERRILLIA ARMATA	7806010101							0.	0.				
AMATHIA VIDOVICI	7805010102												
AMEROCULODES SP.	6169379899												
Ampelisca abdita	6169020108			5.	7.		1.				2.	1.	
Ampelisca vadorum	6169020109												
Ampelisca verrilli	6169020110												
Ampharete finmarchica	5001670214											1.	
AMPHARETIDAE	500167												
AMPHIOPLUS ABDITA	8129030901												
Amphiporus bioculatus	4306050110												
Amphiporus ochraceus	4306050112												
AMPHITRITE AFFINIS	5001680403												
AMPITHOE LONGIMANA	6169040115												
Ampithoe rubricata	6169040101												
Anachis lafresnayi	5105030306												
Anadara transversa	5506010201											1.	
Ancistrosyllis hartmanae	5001220102												
Anomia simplex	5509090202	2.	4.			4.	1.	1.	2.			4.	1.
ANOMIA SP.	55090902												
ANTHOMEDUSAE	3703												
Aphelochaeta marioni	5001500307												
Apocorophium acutum	6169150213											1.	1.
Arabella iricolor	5001330201												
ARBACIA PUNCTULATA	8147010101												
ARCHIANNELIDA	5002												
Arctica islandica	5515390101												
ARICIDEA (ACMIRA) CATHERINAE	5001411306												
ARICIDEA (ACMIRA) CERRUTI	5001411301												
ARICIDEA SP.	50014102												
ASCOPHORA	7816												
ASSIMINEA SUCCINEA	5103210103												
Autolytus fasciatus	5001230111								1.				
Balanus crenatus	6134020104												
Balanus venustus	6134020121							1.	2.				
Batea catherinensis	6169100101												
Bittium alternatum	5103460105											1.	
BIVALVIA	55												

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801						1.	1.					
Boonea seminuda	5108011403							6.	15.				
Bowerbankia gracilis	7805010201							0.	0.				
BOWERBANKIA IMBRICATA	7805010202												
Brania clavata	5001230902												
Brania wellfleetensis	5001230903												
BUGULA TURRITA	7815250101												
BYBLIS SERRATA	6169020203												
Cabira incerta	5001220401												
CAECUM PULCHELLUM	5103360301												
CALLIOPIUS LAEVIUSCULUS	6169120201												
CAMPANULARIIDAE	370401												
Cancer irroratus	6188030108												
Capitella capitata complex	5001600101	91.	72.	6.	22.	7.	10.	3.	3.			3.	9.
CAPITELLA JONESI	5001600198	1.	2.										2.
Caprella penantis	6171010727												
Carazziella hobsonae	5001432706												
CAULLERIELLA CF. KILLARIENSIS	5001500204												
CAULLERIELLA SP.	50015002												
CERAPUS TUBULARIS	6169150102												
Cerastoderma pinnulatum	5515220601												
Cerebratulus lacteus	4303020209												
CEREBRATULUS SP.	43030202												
CERIANTHARIA	3743												
Chaetopleura apiculata	5303060103												
CHAETOZONE SP.	50015004												
CIRRATULIDAE	500150										1.	19.	10.
Cirriformia grandis	5001500104												
Cirrophorus furcatus	5001410606												
CLIONA CELATA	3666060101	1.					1.	2.					
CLIONA LOBATA	3666060102												
CLIONA VASTIFICA	3666060104	3.				1.	2.	7.	13.			1.	2.
Clymenella torquata	5001630202												
CLYTIA GRACILIS	3704010538												
Corbula contracta	5517020201												
Crangon septemspinosa	6179220103							1.					
Crassinella lunulata	5515200102												
Crassostrea virginica	5510020102												
Crepidula convexa	5103640205	1.				1.	1.						
Crepidula fornicata	5103640204	1.		4.		13.	14.	22.	56.			57.	4.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207					1.	3.	3.	3.			12.	1.
CREPIDULA SP.	51036402												
CRYPTOSULA PALLASIANA	7816510101							0.	0.				
Cumingia tellinoides	5515350302												
CYCLASPIS VARIANS	6154090202												
Cylichna oryza	5110040208												
Cymadusa compta	6169040201											4.	1.
Diastylis polita	6154050121												
Dipolydora socialis	5001430402					1.						1.	1.
DODECACERIA SP.	50015005												
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502												
Drilonereis longa	5001330103												
DYNAMENA PUMILA	3704050609												
DYSPANOPEUS SAYI	6189024201			1.		4.	1.		2.			25.	6.
ECHINOIDEA	8136												
Edotia triloba	6162020703											1.	
Edwardsia elegans	3759010101												
Elasmopus laevis	6169210301												15.
Eobrolgus spinosus	6169421901											1.	
Epitomapta roseola	8178010206												
EPIZOANTHUS SP.	37560201												
ERICHSONELLA FILIFORMIS	6162020602												
Ericthonius brasiliensis	6169150302												
Ericthonius fasciatus	6169150308												
ERICTHONIUS SP.	61691503												
Eteone heteropoda	5001130207												
Eteone longa	5001130205				1.			1.					
Euclymene collaris	5001631102												
Eulalia bilineata	5001130304											1.	
Eulalia viridis	5001130301												
Eumida sanguinea	5001131101	2.		2.	1.	4.	3.	4.	1.			29.	18.
EUNICIDAE	500130												
EUPROGNATHA RASTELLIFERA	6187011101												
Exogone dispar	5001230701							1.					
Fargoa bartschi	5108011501												
Gammarus mucronatus	6169210709												
GASTROPODA	51												
Gemma gemma	5515471301		6.										
Glycera americana	5001270104											1.	2.
Glycera dibranchiata	5001270105												

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701												
GLYCERA SP. 1	5001270198												
Glycinde solitaria	5001280104												
Gyptis cf. vittata	5001210103							2.					
HALECIUM SP.	37040601						0.	0.	0.				
HALICHONDRIA BOWERBANKI	3665020204												
HALOCLAVA PRODUCTA	3759030101												
Haminoea solitaria	5110120102									3.	4.		
Harmothoe extenuata	5001020803												
Harmothoe imbricata	5001020806												
HARMOTHOE MACGINITEI	5001020830												
HARMOTHOE SP.	50010208												
HEDISTE DIVERSICOLOR	5001241601												
Heterocrypta granulata	6187020801												
Heteromastus filiformis	5001600201	3.	1.	2.	5.		1.					3.	2.
Heteromysis formosa	6153010802												1.
HIPPOLYTE PLEURACANTHUS	6179160103											1.	
Hippolyte zostericola	6179160104												1.
Hutchinsoniella macracantha	6102010101												
HYDRACHNIDA	593010											1.	
HYDRACTINIA ECHINATA	3703180304												
HYDROBIA SP.	51031301												
Hydroides dianthus	5001730901											1.	
IDOTEA PHOSPHOREA	6162020309												
Ilyanassa obsoleta	5105080201												
Ilyanassa trivittata	5105080202												
Ischyrocerus anguipes	6169270202												
Kurtziella cerina	5106021103												
Lacuna vincta	5103090305												
Lamprops quadriplicata	6154010105												
Leitoscoloplos acutus	5001400305												
LEITOSCOLOPLOS FRAGILIS	5001401603		1.	1.		1.	3.						
Leitoscoloplos robustus	5001400304												
LEITOSCOLOPLOS SP.	50014016										2.		1.
Lembos smithi	6169060303											7.	12.
Lepidonotus squamatus	5001021103							1.					
Lepidonotus sublevis	5001021104												
Leptocheirus pinguis	6169060702												
Leptochelia dubia	6157150202											1.	1.
Leucon americanus	6154040110				1.					2.			

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801												
Libinia dubia	6187010901												
LISSODENDORYX CAROLINENSIS	3664111204												
Listriella barnardi	6169330301												
Littorina littorea	5103100108												
Luconacia incerta	6171011101												
LUNATIA TRISERIATA	5103760409												
Lyonsia hyalina	5520050206												
Lysianopsis alba	6169345304												
Macoma tenta	5515310120												
Maldane sarsi	5001630301												
MARENZELLERIA VIRIDIS	5001430602												
MARGARITES HELICINUS	5102100302												
MARGARITES SP.	51021003												
MARPHYSA SANGUINEA	5001300201												
Mediomastus ambiseta	5001600401	5.		17.	15.	4.	6.	6.	1.			69.	88.
Melinna cristata	5001670501												
Melita nitida	6169211006												
MEMBRANIPORA TENUIS	7815040103												
MEMBRANIPORIDAE	781504												
Mercenaria mercenaria	5515471101	5.	2.	4.	1.	2.	11.	1.				1.	
Microciona prolifera	3664070703							3.					
Microdeutopus anomalus	6169060402												
Microdeutopus gryllotalpa	6169060401								2.				
Microphthalmus aberrans	5001210202												
Microphthalmus sczelkowii	5001210201												
MICROPHTHALMUS SP.	50012102												
MICROPHTHALMUS SP. A	5001210298												
MICROPORELLA CILIATA	7816110101												
Microprotopus raneyi	6169260901												1.
Mitrella lunata	5105030207											2.	6.
Molgula manhattensis	8406030108												
Monocorophium acherusicum	6169150201						1.						
Monocorophium tuberculatum	6169150207												
MONTICELLINA BAPTISTEAE	5001509897												
Monticellina dorsobranchialis	5001500310												
Mulinia lateralis	5515250301			3.		1.			1.	77.	36.		
Mya arenaria	5517010201												
Mytilus edulis	5507010101												
Neanthes arenaceodentata	5001240305							2.	1.				

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309							1.	1.				
Neanthes virens	5001240302												
Nephtys incisa	5001250115												
Nephtys picta	5001250117												
NEREIDAE	500124												
Nereis grayi	5001240409												1.
NEVERITA DUPLICATA	5103760704												
NICOLEA ZOSTERICOLA	5001680601												
Ninoe nigripes	5001310204												
Notomastus latericeus	5001600306												
Nucula annulata	5502020205							1.					
Nucula proxima	5502020204												
OBELIA BIDENTATA	3704010218								0.				
Odontosyllis fulgurans	5001231304												
ODOSTOMIA BISUTURALIS	5108011401												
Odostomia eburnea	5108010134												
OLIGOCHAETA	5003	15.	3.	9.	18.	7.	10.	22.	47.			42.	30.
ONUPHIDAE	500129												
OPHIUROIDEA	8120												
Owenia fusiformis	5001640102												
Oxyurostylis smithi	6154050801												
Pagurus annulipes	6183060227						1.						
Pagurus longicarpus	6183060230												
PAGURUS POLLICARIS	6183060232												
Palaemonetes vulgaris	6179110304												
Pandora gouldiana	5520020107												
PANDORA SP.	55200201												
Paracaprella tenuis	6171010901												2.
Parapionosyllis longicirrata	5001231701												
PARASMITTINA NITIDA	7816130304												
PAROUGIA CAECA	5001361401												
Pectinaria gouldi	5001660302				2.	2.	3.	1.	2.	2.	1.	1.	
PEDICELLINA CERNUA	7902010101							0.	0.				
PERIGONIMUS JONESI	3703010107												
Petricola pholadiformis	5515480102												
Phascolion strombi	7200020401												
Pholoe minuta	5001060101												
Phoxocephalus holbolli	6169420702												
Phyllodoce arenae	5001131410			1.									
Pinnixa sayana	6189060409												

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707											1.	
Pitar morrhuanus	5515471201												
Platynereis dumerilii	5001240503												4.
Podarke obscura	5001211502					1.		1.	2.			2.	7.
PODOCORYNE CARNEA	3703180203												
POLINICINAE	510376												
Polycirrus eximius	5001680804											6.	3.
POLYCIRRUS SP.	50016808												2.
Polydora cornuta	5001430448	12.	10.	28.	52.	4.	22.	1.	2.		1.		
POLYDORA SP.	50014304												
Polydora websteri	5001430412						7.					2.	5.
Pontogeneia inermis	6169201203												
Prionospio (Minuspio) perkinsi	5001430517												
Prionospio heterobranchia	5001430503				1.		2.						
PRIONOSPIO SP.	50014305												
Prionospio steenstrupi	5001430506												
Proboloides holmesi	6169480801												
Proceraea cornuta	5001230101												
PROSUBERITES SP.	36660302												
Protodorvillea gaspeensis	5001360202												
Ptilanthura tenuis	6160010301												
Pygospio elegans	5001431302												2.
Rhepoxynius hudsoni	6169421502												
Rictaxis punctostriatus	5110010403												
Rudilemboides naglei	6169061201												
Sabellaria vulgaris	5001650202												
Saccoglossus kowalevskii	8201010302												
Scalibregma inflatum	5001570101												
SCHIZOPORELLA CORNUTA	7816080103												
SCHIZOPORELLA UNICORNIS	7816080101							0.	0.				
Scolelepis bousfieldi	5001432002												
SCOLELEPIS SP.	50014320												
Scolelepis texana	5001432006												
Scoletoma hebes	5001310140												
Scoloplos (Leodamus) rubra	5001400307												
SCOLOPLOS RISERI	5001400504												
Seila adamsi	5103460401												
Sertularia cupressina	3704050316												
Solemya velum	5504010101												
Sphaerosyllis longicauda	5001230817												

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405215	405216	405315	405316	405415	405416	405515	405516	405615	405616	405715	405716
	Station ID	245	245	247	247	249	249	250	250	253	253	304	304
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704				9.		5.						
Spiophanes bombyx	5001431001												1.
Spurwinkia salsa	5103133601												
SQUILLA EMPUSA	6191010101												
Stenothoe minuta	6169481002								1.				
Sthenelais boa	5001060302											1.	3.
Streblospio benedicti	5001431801	8.		3.	9.	3.	4.			1.			
STREPTOSYLLIS CF. WEBSTERI	5001231603												
SYLLIDAE	500123												
SYLLIDES CF. VERRILLI	5001231508												
Syllides japonica	5001231501												
Tectonatica pusilla	5103760601												
Tellina agilis	5515310205	1.								2.	3.		
TELLINIDAE	551531												
TEREBELLIDAE	500168												
Tharyx acutus	5001500305	1.										15.	29.
Thyasira gouldi	5515020325												
TUBULANUS SP.	43020101												
TURBELLARIA	3901												
Turbonilla aequalis	5108010224												
Turbonilla elegantula	5108010275												
TURBONILLA SP.	51080102												
Typosyllis alternata	5001230501												
Unciola dissimilis	6169150706												
Unciola irrorata	6169150703												
UNCIOLA SERRATA	6169150704												
Upogebia affinis	6183170102												
UROSALPINX CINEREA	5105010301												
Yoldia limatula	5502040511												
YOLDIA SP.	55020405												
Total		152	101	86	144	61	114	95	158	87	50	320	275

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103									8.	19.		
Aeginina longicornis	6171010801												
AEVERRILLIA ARMATA	7806010101												
AMATHIA VIDOVICI	7805010102												
AMEROCULODES SP.	6169379899												
Ampelisca abdita	6169020108			8.	4.	3.	3.			1.	4.		
Ampelisca vadorum	6169020109									1.			
Ampelisca verrilli	6169020110	3.	1.		1.				1				
Ampharete finmarchica	5001670214							1.			2.	1.	
AMPHARETIDAE	500167												
AMPHIOPLUS ABDITA	8129030901												
Amphiporus bioculatus	4306050110												
Amphiporus ochraceus	4306050112								1				
AMPHITRITE AFFINIS	5001680403											1.	
AMPITHOE LONGIMANA	6169040115												
Ampithoe rubricata	6169040101												
Anachis lafresnayi	5105030306												
Anadara transversa	5506010201			3.									
Ancistrosyllis hartmanae	5001220102												
Anomia simplex	5509090202						2.		1.				
ANOMIA SP.	55090902												
ANTHOMEDUSAE	3703												
Aphelochaeta marioni	5001500307												
Apocorophium acutum	6169150213			1.									
Arabella iricolor	5001330201												
ARBACIA PUNCTULATA	8147010101												
ARCHIANNELIDA	5002		3.									24.	1.
Arctica islandica	5515390101												
ARICIDEA (ACMIRA) CATHERINAE	5001411306							1.		1.	2.	7.	
ARICIDEA (ACMIRA) CERRUTI	5001411301		2.									12.	
ARICIDEA SP.	50014102												
ASCOPHORA	7816												
ASSIMINEA SUCCINEA	5103210103												
Autolytus fasciatus	5001230111												
Balanus crenatus	6134020104												
Balanus venustus	6134020121			1.	5.								
Batea catherinensis	6169100101												
Bittium alternatum	5103460105		4.						1.				5.
BIVALVIA	55					1.	1.				3.		

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801												
Boonea seminuda	5108011403	13.	1.						1.				
Bowerbankia gracilis	7805010201												
BOWERBANKIA IMBRICATA	7805010202												
Brania clavata	5001230902		1.	2.	1.				2.				
Brania wellfleetensis	5001230903	1.	1.										3.
BUGULA TURRITA	7815250101												
BYBLIS SERRATA	6169020203												
Cabira incerta	5001220401												
CAECUM PULCHELLUM	5103360301												
CALLIOPIUS LAEVIUSCULUS	6169120201												
CAMPANULARIIDAE	370401												
Cancer irroratus	6188030108												
Capitella capitata complex	5001600101			53.	62.	2.	6.						
CAPITELLA JONESI	5001600198			1.	1.								
Caprella penantis	6171010727												1.
Carazziella hobsonae	5001432706												
CAULLERIELLA CF. KILLARIENSIS	5001500204							1.	1.			1.	11.
CAULLERIELLA SP.	50015002												45.
CERAPUS TUBULARIS	6169150102						1.						
Cerastoderma pinnulatum	5515220601	1.						1.			4.		
Cerebratulus lacteus	4303020209												
CEREBRATULUS SP.	43030202												
CERIANTHARIA	3743												
Chaetopleura apiculata	5303060103							1.	2.			1.	
CHAETOZONE SP.	50015004							1.				2.	
CIRRATULIDAE	500150					1.		2.				3.	92.
Cirriformia grandis	5001500104												
Cirrophorus furcatus	5001410606												
CLIONA CELATA	3666060101				1.						1.		
CLIONA LOBATA	3666060102												
CLIONA VASTIFICA	3666060104				1.							2.	4.
Clymenella torquata	5001630202		1.				2.						
CLYTIA GRACILIS	3704010538												
Corbula contracta	5517020201												
Crangon septemspinosa	6179220103												
Crassinella lunulata	5515200102								1.				
Crassostrea virginica	5510020102												
Crepidula convexa	5103640205												
Crepidula fornicata	5103640204	19.	2.	17.	18.		3.	35.	25.			5.	28.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207			2.	2.		1.		2.	1.			1.
CREPIDULA SP.	51036402											1.	
CRYPTOSULA PALLASIANA	7816510101												
Cumingia tellinoides	5515350302												
CYCLASPIS VARIANS	6154090202	1.	1.						1				
Cylichna oryza	5110040208									4.	28.		
Cymadusa compta	6169040201	1.		10.					1				
Diastylis polita	6154050121												
Dipolydora socialis	5001430402							2.	1.				
DODECACERIA SP.	50015005												
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502												
Drilonereis longa	5001330103												
DYNAMENA PUMILA	3704050609												
DYSPANOPEUS SAYI	6189024201			9.	4.				10			1.	3.
ECHINOIDEA	8136												
Edotia triloba	6162020703												
Edwardsia elegans	3759010101												
Elasmopus laevis	6169210301	3.	1.										
Eobrolgus spinosus	6169421901					1.		8.	7			5.	7.
Epitomapta roseola	8178010206												
EPIZOANTHUS SP.	37560201												
ERICHSONELLA FILIFORMIS	6162020602				1.								
Ericthonius brasiliensis	6169150302												
Ericthonius fasciatus	6169150308												
ERICTHONIUS SP.	61691503												
Eteone heteropoda	5001130207												
Eteone longa	5001130205												
Euclymene collaris	5001631102					1.							
Eulalia bilineata	5001130304								1.				
Eulalia viridis	5001130301			1.									
Eumida sanguinea	5001131101		2.	5.	10.		3.	5.	10.			16.	3.
EUNICIDAE	500130												
EUPROGNATHA RASTELLIFERA	6187011101												
Exogone dispar	5001230701			4.			1.		5.			4.	
Fargoa bartschi	5108011501												
Gammarus mucronatus	6169210709												
GASTROPODA	51			1.							1.		
Gemma gemma	5515471301												
Glycera americana	5001270104			1.					5.				
Glycera dibranchiata	5001270105		3.			1.							

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701												
GLYCERA SP. 1	5001270198							1.					
Glycinde solitaria	5001280104										1.		
Gyptis cf. vittata	5001210103												
HALECIUM SP.	37040601												
HALICHONDRIA BOWERBANKI	3665020204												
HALOCLAVA PRODUCTA	3759030101												
Haminoea solitaria	5110120102									1.			
Harmothoe extenuata	5001020803							1.					
Harmothoe imbricata	5001020806												
HARMOTHOE MACGINITEI	5001020830												
HARMOTHOE SP.	50010208												
HEDISTE DIVERSICOLOR	5001241601												
Heterocrypta granulata	6187020801												
Heteromastus filiformis	5001600201					1.		1.					
Heteromysis formosa	6153010802												
HIPPOLYTE PLEURACANTHUS	6179160103	1.											
Hippolyte zostericola	6179160104												
Hutchinsoniella macracantha	6102010101												
HYDRACHNIDA	593010												
HYDRACTINIA ECHINATA	3703180304												
HYDROBIA SP.	51031301												
Hydroides dianthus	5001730901	1.		1.								1.	
IDOTEA PHOSPHOREA	6162020309												
Ilyanassa obsoleta	5105080201												
Ilyanassa trivittata	5105080202									1.	4.		
Ischyrocerus anguipes	6169270202												
Kurtziella cerina	5106021103												
Lacuna vincta	5103090305												
Lamprops quadriplicata	6154010105												
Leitoscoloplos acutus	5001400305	1.											
LEITOSCOLOPLOS FRAGILIS	5001401603			1.	1.	1.	4.						
Leitoscoloplos robustus	5001400304								2.				
LEITOSCOLOPLOS SP.	50014016											1.	
Lembos smithi	6169060303			1.			1.	7.	27			1.	7.
Lepidonotus squamatus	5001021103								1.				
Lepidonotus sublevis	5001021104												
Leptocheirus pinguis	6169060702												
Leptochelia dubia	6157150202	1.		47.	3.			1.				1.	2.
Leucon americanus	6154040110			13.	5.	1.							

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801												
Libinia dubia	6187010901												
LISSODENDORYX CAROLINENSIS	3664111204												
Listriella barnardi	6169330301											1.	
Littorina littorea	5103100108												
Luconacia incerta	6171011101												
LUNATIA TRISERIATA	5103760409												
Lyonsia hyalina	5520050206												
Lysianopsis alba	6169345304	1.							1				1.
Macoma tenta	5515310120									15.	12.		
Maldane sarsi	5001630301									1.			
MARENZELLERIA VIRIDIS	5001430602												
MARGARITES HELICINUS	5102100302												
MARGARITES SP.	51021003												
MARPHYSA SANGUINEA	5001300201												
Mediomastus ambiseta	5001600401		1.	14.	13.	25.	40.	13.	15.	1.	73.	62.	2.
Melinna cristata	5001670501												
Melita nitida	6169211006												
MEMBRANIPORA TENUIS	7815040103												
MEMBRANIPORIDAE	781504	0.											
Mercenaria mercenaria	5515471101					1.							
Microciona prolifera	3664070703												
Microdeutopus anomalus	6169060402												
Microdeutopus gryllotalpa	6169060401			9.	3.								
Microphthalmus aberrans	5001210202												
Microphthalmus sczelkowii	5001210201												
MICROPHTHALMUS SP.	50012102												
MICROPHTHALMUS SP. A	5001210298	1.											
MICROPORELLA CILIATA	7816110101												
Microprotopus raneyi	6169260901	2.			1.				1			1.	
Mitrella lunata	5105030207	12.	2.		3.		3.	4.	1.	1.	1.		
Molgula manhattensis	8406030108												
Monocorophium acherusicum	6169150201												
Monocorophium tuberculatum	6169150207												
MONTICELLINA BAPTISTEAE	5001509897												
Monticellina dorsobranchialis	5001500310	1.											
Mulinia lateralis	5515250301					1.	1.			9.	43.		
Mya arenaria	5517010201												
Mytilus edulis	5507010101												
Neanthes arenaceodentata	5001240305								1.				

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309			3.	1.								
Neanthes virens	5001240302												
Nephtys incisa	5001250115									9.	37.		
Nephtys picta	5001250117	3.						1.					
NEREIDAE	500124												
Nereis grayi	5001240409												
NEVERITA DUPLICATA	5103760704					1.							
NICOLEA ZOSTERICOLA	5001680601						1.						2.
Ninoe nigripes	5001310204										1.		
Notomastus latericeus	5001600306												
Nucula annulata	5502020205				1.					18.	13.		
Nucula proxima	5502020204							1.					2.
OBELIA BIDENTATA	3704010218												
Odontosyllis fulgurans	5001231304												1.
ODOSTOMIA BISUTURALIS	5108011401												
Odostomia eburnea	5108010134												
OLIGOCHAETA	5003		5.						2.	2.	19.	8.	2.
ONUPHIDAE	500129												
OPHIUROIDEA	8120												
Owenia fusiformis	5001640102												
Oxyurostylis smithi	6154050801	3.											
Pagurus annulipes	6183060227								2			2.	2.
Pagurus longicarpus	6183060230	2.	29.			1.			1				
PAGURUS POLLICARIS	6183060232											1.	
Palaemonetes vulgaris	6179110304												
Pandora gouldiana	5520020107												
PANDORA SP.	55200201												
Paracaprella tenuis	6171010901			1.			1.						
Parapionosyllis longicirrata	5001231701												
PARASMITTINA NITIDA	7816130304												
PAROUGIA CAECA	5001361401								1.				
Pectinaria gouldi	5001660302			1.	5.	2.	4.			1.	5.		
PEDICELLINA CERNUA	7902010101												
PERIGONIMUS JONESI	3703010107												
Petricola pholadiformis	5515480102					1.							
Phascolion strombi	7200020401										1.		
Pholoe minuta	5001060101												
Phoxocephalus holbolli	6169420702												
Phyllodoce arenae	5001131410				1.								
Pinnixa sayana	6189060409				1.								

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707												
Pitar morrhuanus	5515471201												
Platynereis dumerilii	5001240503												1.
Podarke obscura	5001211502		1.		2.			10.	14.			2.	1.
PODOCORYNE CARNEA	3703180203												
POLINICINAE	510376											1.	
Polycirrus eximius	5001680804	1.						11.	7.			9.	5.
POLYCIRRUS SP.	50016808	1.	1.					9.	6.			8.	
Polydora cornuta	5001430448			14.	23.	4.	1.						
POLYDORA SP.	50014304												
Polydora websteri	5001430412												
Pontogeneia inermis	6169201203												
Prionospio (Minuspio) perkinsi	5001430517									1.	1.		
Prionospio heterobranchia	5001430503	1.	1.	1.				1.					
PRIONOSPIO SP.	50014305												
Prionospio steenstrupi	5001430506												
Proboloides holmesi	6169480801												
Proceraea cornuta	5001230101												
PROSUBERITES SP.	36660302												
Protodorvillea gaspeensis	5001360202												
Ptilanthura tenuis	6160010301												
Pygospio elegans	5001431302												
Rhepoxynius hudsoni	6169421502	2.							5				
Rictaxis punctostriatus	5110010403									2.	2.		
Rudilemboides naglei	6169061201				1.			3.				4.	
Sabellaria vulgaris	5001650202												
Saccoglossus kowalevskii	8201010302												
Scalibregma inflatum	5001570101												
SCHIZOPORELLA CORNUTA	7816080103												
SCHIZOPORELLA UNICORNIS	7816080101												
Scolelepis bousfieldi	5001432002												
SCOLELEPIS SP.	50014320												
Scolelepis texana	5001432006												
Scoletoma hebes	5001310140												
Scoloplos (Leodamus) rubra	5001400307												
SCOLOPLOS RISERI	5001400504		1.										
Seila adamsi	5103460401												
Sertularia cupressina	3704050316												
Solemya velum	5504010101												
Sphaerosyllis longicauda	5001230817												

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	405815	405816	405915	405916	406015	406016	406115	406116	406215	406216	406315	406316
	Station ID	306	306	309	309	310	310	311	311	317	317	318	318
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704												
Spiophanes bombyx	5001431001	2.	2.										
Spurwinkia salsa	5103133601												
SQUILLA EMPUSA	6191010101												
Stenothoe minuta	6169481002												
Sthenelais boa	5001060302												
Streblospio benedicti	5001431801		1.	2.	3.	2.	1.						
STREPTOSYLLIS CF. WEBSTERI	5001231603							1.					
SYLLIDAE	500123											3.	
SYLLIDES CF. VERRILLI	5001231508		1.										
Syllides japonica	5001231501												
Tectonatica pusilla	5103760601	1.							1.		1.	1.	
Tellina agilis	5515310205	8.	12.			6.	5.	1.	1.		1.		
TELLINIDAE	551531												
TEREBELLIDAE	500168												3.
Tharyx acutus	5001500305					1.							16.
Thyasira gouldi	5515020325												
TUBULANUS SP.	43020101										2.		
TURBELLARIA	3901										1.		
Turbonilla aequalis	5108010224												
Turbonilla elegantula	5108010275												
TURBONILLA SP.	51080102		1.										
Typosyllis alternata	5001230501												
Unciola dissimilis	6169150706												
Unciola irrorata	6169150703												
UNCIOLA SERRATA	6169150704												
Upogebia affinis	6183170102												
UROSALPINX CINEREA	5105010301							1.					
Yoldia limatula	5502040511										1.		
YOLDIA SP.	55020405												
Total		87	81	227	178	58	85	125	110	78	283	193	251

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103			6.	3.	5.	1.	10.	57.					4.
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101													
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108		1.	5.	3.	1.	1.	2.	2.		9.			
Ampelisca vadorum	6169020109						1.	1.			5.		1.	
Ampelisca verrilli	6169020110									2.	130.			1.
Ampharete finmarchica	5001670214			1.				1.		4.		5.	5.	2.
AMPHARETIDAE	500167						1.							
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110										1.			
Amphiporus ochraceus	4306050112											2.	1.	
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115													
Ampithoe rubricata	6169040101													
Anachis lafresnayi	5105030306						2.						1.	
Anadara transversa	5506010201			1.	1.		2.			14.		6.	4.	
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202										1.			
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307													
Apocorophium acutum	6169150213													
Arabella iricolor	5001330201													
ARBACIA PUNCTULATA	8147010101													
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													
ARICIDEA (ACMIRA) CATHERINAE	5001411306					7.	10.	2.	4.	3.	1.	7.	20.	3.
ARICIDEA (ACMIRA) CERRUTI	5001411301					1.								
ARICIDEA SP.	50014102												2.	
ASCOPHORA	7816									0.				
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104						6.					1.		
Balanus venustus	6134020121											1.		
Batea catherinensis	6169100101									2.				
Bittium alternatum	5103460105													
BIVALVIA	55					2.	3.			1.		2.		1.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801						3.					4.	3.	
Boonea seminuda	5108011403							2.	1.			19.		
Bowerbankia gracilis	7805010201													
BOWERBANKIA IMBRICATA	7805010202													
Brania clavata	5001230902													
Brania wellfleetensis	5001230903									1.				
BUGULA TURRITA	7815250101													0.
BYBLIS SERRATA	6169020203										1.			
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401													
Cancer irroratus	6188030108											1.		
Capitella capitata complex	5001600101	17.	30.											
CAPITELLA JONESI	5001600198													
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706													
CAULLERIELLA CF. KILLARIENSIS	5001500204												1.	
CAULLERIELLA SP.	50015002				1.							1.	4.	
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601					13.	4.	2.	8.					27.
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													
CERIANTHARIA	3743											1.		
Chaetopleura apiculata	5303060103											6.		
CHAETOZONE SP.	50015004									2.				
CIRRATULIDAE	500150									30.	9.	20.	69.	
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606					1.	2.				6.			
CLIONA CELATA	3666060101					1.	1.			1.				
CLIONA LOBATA	3666060102													
CLIONA VASTIFICA	3666060104		1.									1.	1.	
Clymenella torquata	5001630202										1.			
CLYTIA GRACILIS	3704010538													
Corbula contracta	5517020201													
Crangon septemspinosa	6179220103						1.							
Crassinella lunulata	5515200102											5.	7.	1.
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205													
Crepidula fornicata	5103640204						1.					105.	66.	

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207				1.							21.	3.	
CREPIDULA SP.	51036402						1.							
CRYPTOSULA PALLASIANA	7816510101													
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208			6.	1.	2.	2.	13.	29.	1.				13.
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402				5.							5.	3.	
DODECACERIA SP.	50015005													
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502													
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201									1.		5.	9.	
ECHINOIDEA	8136													
Edotia triloba	6162020703								1.					1.
Edwardsia elegans	3759010101									1.				
Elasmopus laevis	6169210301													
Eobrolgus spinosus	6169421901									1.		3.	4.	
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308													
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207													
Eteone longa	5001130205													
Euclymene collaris	5001631102			2.	2.	10.	14.	3.	1.	1.	7.		1.	1.
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101										1.	12.	17.	
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101						1.					1.		
Exogone dispar	5001230701	1.										1.	1.	
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301													
Glycera americana	5001270104									3.		1.	3.	
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701									1.	1.			
GLYCERA SP. 1	5001270198		1.											
Glycinde solitaria	5001280104						1.	1.	1.					
Gyptis cf. vittata	5001210103			1.										
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102							1.	1.					
Harmothoe extenuata	5001020803											3.	4.	
Harmothoe imbricata	5001020806											2.	3.	
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601													
Heterocrypta granulata	6187020801											1.		
Heteromastus filiformis	5001600201													
Heteromysis formosa	6153010802													
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104									1.				
Hutchinsoniella macracantha	6102010101													8.
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901						1.							
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201													
Ilyanassa trivittata	5105080202					2.	1.	1.	1.		1.	6.		
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													1.
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603													
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016													
Lembos smithi	6169060303											14.	10.	
Lepidonotus squamatus	5001021103													
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702										8.			
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801													
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204		1.											
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206									3.	3.			
Lysianopsis alba	6169345304											16.	24.	
Macoma tenta	5515310120			19.		10.	47.	200.		1.				54.
Maldane sarsi	5001630301						1.							
MARENZELLERIA VIRIDIS	5001430602													
MARGARITES HELICINUS	5102100302											1.		
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201			1.										
Mediomastus ambiseta	5001600401	2.	1.	17.	13.	24.	80.	7.	10.	55.	7.	1.		8.
Melinna cristata	5001670501					3.		1.						
Melita nitida	6169211006													
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101													
Microciona prolifera	3664070703									1.				
Microdeutopus anomalus	6169060402				1.							4.	1.	
Microdeutopus gryllotalpa	6169060401													
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													
Microprotopus raneyi	6169260901	1.												
Mitrella lunata	5105030207		3.	1.	4.		6.			2.		2.	2.	
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201											1.		
Monocorophium tuberculatum	6169150207									1.				
MONTICELLINA BAPTISTEAE	5001509897											1.		
Monticellina dorsobranchialis	5001500310													
Mulinia lateralis	5515250301			2.	5.		10.	2.	10.	1.				16.
Mya arenaria	5517010201													
Mytilus edulis	5507010101													
Neanthes arenaceodentata	5001240305													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309	2.	2.											
Neanthes virens	5001240302													
Nephtys incisa	5001250115			57.	24.	46.	26.	30.	25.		1.			37.
Nephtys picta	5001250117													
NEREIDAE	500124													
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													1.
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204			1.		2.	4.	1.	1.		2.			8.
Notomastus latericeus	5001600306													
Nucula annulata	5502020205			39.	32.	33.	5.	22.	16.				6.	11.
Nucula proxima	5502020204									2.	2.	12.		
OBELIA BIDENTATA	3704010218													
Odontosyllis fulgurans	5001231304											1.	1.	
ODOSTOMIA BISUTURALIS	5108011401													
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003	1.		1.	2.	4.	1.	6.	4.	13.	10.	1.	11.	
ONUPHIDAE	500129					1.								
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102													
Oxyurostylis smithi	6154050801													
Pagurus annulipes	6183060227											2.		
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304													
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901										1.			
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304											0.	0.	
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302			5.		1.	1.	3.	5.	1.				
PEDICELLINA CERNUA	7902010101													
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102						3.							
Phascolion strombi	7200020401													
Pholoe minuta	5001060101				3.	1.	1.	1.				1.		
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410		2.	1.	2.	1.	3.	4.	1.	3.	3.			
Pinnixa sayana	6189060409		1.	2.	1.				1.		3.	2.	1.	4.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201			1.			2.							1.
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502		1.									5.	8.	
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804											26.	49.	
POLYCIRRUS SP.	50016808				1.	2.	2.					9.	11.	
Polydora cornuta	5001430448	2.	3.											
POLYDORA SP.	50014304													
Polydora websteri	5001430412													
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517					3.			2.					
Prionospio heterobranchia	5001430503												3.	
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301													
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403			2.		1.		2.						
Rudilemboides naglei	6169061201									1.		14.	17.	
Sabellaria vulgaris	5001650202						68.							
Saccoglossus kowalevskii	8201010302						1.							
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103													
SCHIZOPORELLA UNICORNIS	7816080101													
Scolelepis bousfieldi	5001432002							1.						
SCOLELEPIS SP.	50014320													
Scolelepis texana	5001432006				1.									
Scoletoma hebes	5001310140											4.	5.	
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401													
Sertularia cupressina	3704050316													
Solemya velum	5504010101			1.										
Sphaerosyllis longicauda	5001230817											2.		

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	406415	406416	406515	406516	406615	406616	406715	406716	406815	406816	406915	406916	407015
	Station ID	323	323	324	324	325	325	331	331	332	332	333	333	334
	Replicate	1	2	1	2	1	2	1	2	1	2	1	2	1
Taxon	**NODC Code**	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704													
Spiophanes bombyx	5001431001									2.	2.			
Spurwinkia salsa	5103133601									1.				
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302												3.	
Streblospio benedicti	5001431801													
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508												1.	
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601						2.		1.	3.	2.	1.	6.	
Tellina agilis	5515310205			1.		15.	2.			5.	2.			4.
TELLINIDAE	551531									4.				
TEREBELLIDAE	500168													
Tharyx acutus	5001500305	1.						1.		1.	1.	8.	8.	
Thyasira gouldi	5515020325						2.				1.			
TUBULANUS SP.	43020101				6.	5.	2.	3.	4.	3.	5.			
TURBELLARIA	3901				5.			1.			1.			
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275								2.		1.	1.		
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703										2.			
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102													
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511				1.	1.								1.
YOLDIA SP.	55020405					2.		1.						
Total		27	47	173	118	200	329	325	188	173	231	377	400	208

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103	3.			14.	3.	3.	14.	5.	6.		1.	7.	10.
Aeginina longicornis	6171010801													
AEVERRILLIA ARMATA	7806010101													
AMATHIA VIDOVICI	7805010102													
AMEROCULODES SP.	6169379899													
Ampelisca abdita	6169020108	1.			2.	1.	1.		1.	1.	11.	4.		2.
Ampelisca vadorum	6169020109	2.									4.			
Ampelisca verrilli	6169020110	1.									36.	5.		
Ampharete finmarchica	5001670214			1.				1.			1.	6.		
AMPHARETIDAE	500167													
AMPHIOPLUS ABDITA	8129030901													
Amphiporus bioculatus	4306050110						1.							
Amphiporus ochraceus	4306050112													
AMPHITRITE AFFINIS	5001680403													
AMPITHOE LONGIMANA	6169040115													
Ampithoe rubricata	6169040101		3.											
Anachis lafresnayi	5105030306													
Anadara transversa	5506010201		2.	4.							1.	3.		
Ancistrosyllis hartmanae	5001220102													
Anomia simplex	5509090202		1.	1.										
ANOMIA SP.	55090902													
ANTHOMEDUSAE	3703													
Aphelochaeta marioni	5001500307			1.										
Apocorophium acutum	6169150213		1.											
Arabella iricolor	5001330201	2.					1.						1.	
ARBACIA PUNCTULATA	8147010101			3.										
ARCHIANNELIDA	5002													
Arctica islandica	5515390101													1.
ARICIDEA (ACMIRA) CATHERINAE	5001411306	1.	4.		4.	3.	4.	1.		1.	21.	1.	5.	2.
ARICIDEA (ACMIRA) CERRUTI	5001411301											2.		
ARICIDEA SP.	50014102													
ASCOPHORA	7816													
ASSIMINEA SUCCINEA	5103210103													
Autolytus fasciatus	5001230111													
Balanus crenatus	6134020104		20.	28.										
Balanus venustus	6134020121		25.	20.										
Batea catherinensis	6169100101			1.										
Bittium alternatum	5103460105													
BIVALVIA	55			1.							1.			

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801		3.	2.										
Boonea seminuda	5108011403				1.									
Bowerbankia gracilis	7805010201													
BOWERBANKIA IMBRICATA	7805010202													
Brania clavata	5001230902		1.	1.										
Brania wellfleetensis	5001230903													
BUGULA TURRITA	7815250101													
BYBLIS SERRATA	6169020203													
Cabira incerta	5001220401													
CAECUM PULCHELLUM	5103360301													
CALLIOPIUS LAEVIUSCULUS	6169120201													
CAMPANULARIIDAE	370401													
Cancer irroratus	6188030108													
Capitella capitata complex	5001600101		1.											
CAPITELLA JONESI	5001600198			2.										
Caprella penantis	6171010727													
Carazziella hobsonae	5001432706						3.							1.
CAULLERIELLA CF. KILLARIENSIS	5001500204													
CAULLERIELLA SP.	50015002			44.	2.	2.	1.	1.	1.	1.	1.	1.		
CERAPUS TUBULARIS	6169150102													
Cerastoderma pinnulatum	5515220601	14.			5.	5.	1.	1.	14.	23.	5.	3.	1.	3.
Cerebratulus lacteus	4303020209													
CEREBRATULUS SP.	43030202													1.
CERIANTHARIA	3743													
Chaetopleura apiculata	5303060103		2.	2.										
CHAETOZONE SP.	50015004											1.		
CIRRATULIDAE	500150		556.	167.	1.	1.		1.			3.	3.		
Cirriformia grandis	5001500104													
Cirrophorus furcatus	5001410606		1.		1.						7.	9.	1.	
CLIONA CELATA	3666060101		7.	13.										
CLIONA LOBATA	3666060102													
CLIONA VASTIFICA	3666060104		12.	109.										
Clymenella torquata	5001630202													
CLYTIA GRACILIS	3704010538													
Corbula contracta	5517020201							1.						
Crangon septemspinosa	6179220103													
Crassinella lunulata	5515200102													
Crassostrea virginica	5510020102													
Crepidula convexa	5103640205													
Crepidula fornicata	5103640204		248.	305.		2.								

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207		15.	20.										
CREPIDULA SP.	51036402			1.							1.			
CRYPTOSULA PALLASIANA	7816510101													
Cumingia tellinoides	5515350302													
CYCLASPIS VARIANS	6154090202													
Cylichna oryza	5110040208	1.			7.	5.	2.	6.	9.	2.		1.	3.	3.
Cymadusa compta	6169040201													
Diastylis polita	6154050121													
Dipolydora socialis	5001430402													
DODECACERIA SP.	50015005			1.										
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502		1.	1.										
Drilonereis longa	5001330103													
DYNAMENA PUMILA	3704050609													
DYSPANOPEUS SAYI	6189024201		10.	14.										
ECHINOIDEA	8136			1.										
Edotia triloba	6162020703								1.				1.	1.
Edwardsia elegans	3759010101												1.	
Elasmopus laevis	6169210301		1.											
Eobrolgus spinosus	6169421901													
Epitomapta roseola	8178010206													
EPIZOANTHUS SP.	37560201													
ERICHSONELLA FILIFORMIS	6162020602													
Ericthonius brasiliensis	6169150302													
Ericthonius fasciatus	6169150308		1.											
ERICTHONIUS SP.	61691503													
Eteone heteropoda	5001130207													
Eteone longa	5001130205													
Euclymene collaris	5001631102	1.	3.		4.	8.	1.	1.		2.	1.		1.	1.
Eulalia bilineata	5001130304													
Eulalia viridis	5001130301													
Eumida sanguinea	5001131101		7.	2.	1.									
EUNICIDAE	500130													
EUPROGNATHA RASTELLIFERA	6187011101													
Exogone dispar	5001230701			1.										
Fargoa bartschi	5108011501													
Gammarus mucronatus	6169210709													
GASTROPODA	51													
Gemma gemma	5515471301													
Glycera americana	5001270104	1.	1.	5.							4.	2.		1.
Glycera dibranchiata	5001270105													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701													
GLYCERA SP. 1	5001270198													
Glycinde solitaria	5001280104			1.								1.		
Gyptis cf. vittata	5001210103										1.			
HALECIUM SP.	37040601													
HALICHONDRIA BOWERBANKI	3665020204													
HALOCLAVA PRODUCTA	3759030101													
Haminoea solitaria	5110120102													
Harmothoe extenuata	5001020803		4.	5.										
Harmothoe imbricata	5001020806		2.	3.										
HARMOTHOE MACGINITEI	5001020830													
HARMOTHOE SP.	50010208													
HEDISTE DIVERSICOLOR	5001241601													
Heterocrypta granulata	6187020801													
Heteromastus filiformis	5001600201			1.										
Heteromysis formosa	6153010802		19.	21.										
HIPPOLYTE PLEURACANTHUS	6179160103													
Hippolyte zostericola	6179160104													
Hutchinsoniella macracantha	6102010101	2.				16.			1.		3.		2.	
HYDRACHNIDA	593010													
HYDRACTINIA ECHINATA	3703180304													
HYDROBIA SP.	51031301													
Hydroides dianthus	5001730901		1.	1.							1.			
IDOTEA PHOSPHOREA	6162020309													
Ilyanassa obsoleta	5105080201													
Ilyanassa trivittata	5105080202	1.		1.	1.				1.					
Ischyrocerus anguipes	6169270202													
Kurtziella cerina	5106021103													
Lacuna vincta	5103090305													
Lamprops quadriplicata	6154010105													
Leitoscoloplos acutus	5001400305													
LEITOSCOLOPLOS FRAGILIS	5001401603													
Leitoscoloplos robustus	5001400304													
LEITOSCOLOPLOS SP.	50014016													
Lembos smithi	6169060303		14.	8.										
Lepidonotus squamatus	5001021103		3.	2.										
Lepidonotus sublevis	5001021104													
Leptocheirus pinguis	6169060702				1.		1.						1.	
Leptochelia dubia	6157150202													
Leucon americanus	6154040110													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801							1.		1.				
Libinia dubia	6187010901													
LISSODENDORYX CAROLINENSIS	3664111204													
Listriella barnardi	6169330301													
Littorina littorea	5103100108													
Luconacia incerta	6171011101													
LUNATIA TRISERIATA	5103760409													
Lyonsia hyalina	5520050206										1.	3.		
Lysianopsis alba	6169345304													
Macoma tenta	5515310120	19.			5.	6.		8.		1.	9.	9.	11.	8.
Maldane sarsi	5001630301												1.	
MARENZELLERIA VIRIDIS	5001430602													
MARGARITES HELICINUS	5102100302													
MARGARITES SP.	51021003													
MARPHYSA SANGUINEA	5001300201													
Mediomastus ambiseta	5001600401	1.	15.	77.	15.	6.	3.	1.	1.		50.	81.	10.	1.
Melinna cristata	5001670501					1.				2.				
Melita nitida	6169211006													
MEMBRANIPORA TENUIS	7815040103													
MEMBRANIPORIDAE	781504													
Mercenaria mercenaria	5515471101													
Microciona prolifera	3664070703													
Microdeutopus anomalus	6169060402		1.	3.										
Microdeutopus gryllotalpa	6169060401													
Microphthalmus aberrans	5001210202													
Microphthalmus sczelkowii	5001210201													
MICROPHTHALMUS SP.	50012102													
MICROPHTHALMUS SP. A	5001210298													
MICROPORELLA CILIATA	7816110101													
Microprotopus raneyi	6169260901													
Mitrella lunata	5105030207	2.	5.	1.							2.			
Molgula manhattensis	8406030108													
Monocorophium acherusicum	6169150201		2.											
Monocorophium tuberculatum	6169150207			1.										
MONTICELLINA BAPTISTEAE	5001509897	2.	2.		3.	1.					2.	4.		
Monticellina dorsobranchialis	5001500310	2.			2.	3.	2.	1.	1.		1.	2.		
Mulinia lateralis	5515250301	3.			1.	1.								3.
Mya arenaria	5517010201													
Mytilus edulis	5507010101													
Neanthes arenaceodentata	5001240305													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309													
Neanthes virens	5001240302													
Nephtys incisa	5001250115	17.			46.	38.	50.	70.	34.	29.	10.	6.	44.	52.
Nephtys picta	5001250117													
NEREIDAE	500124													
Nereis grayi	5001240409													
NEVERITA DUPLICATA	5103760704													
NICOLEA ZOSTERICOLA	5001680601													
Ninoe nigripes	5001310204	16.			2.	3.	5.	1.	11.	8.	28.	11.	6.	4.
Notomastus latericeus	5001600306													
Nucula annulata	5502020205	1.			40.	24.		6.	5.	13.				3.
Nucula proxima	5502020204		5.								2.	2.		
OBELIA BIDENTATA	3704010218													
Odontosyllis fulgurans	5001231304													
ODOSTOMIA BISUTURALIS	5108011401													
Odostomia eburnea	5108010134													
OLIGOCHAETA	5003	1.	3.	14.	3.	3.		1.			3.	6.	1.	
ONUPHIDAE	500129										1.			
OPHIUROIDEA	8120													
Owenia fusiformis	5001640102						2.					1.		
Oxyurostylis smithi	6154050801	1.				1.		1.				2.		1.
Pagurus annulipes	6183060227		1.		2.									
Pagurus longicarpus	6183060230													
PAGURUS POLLICARIS	6183060232													
Palaemonetes vulgaris	6179110304													
Pandora gouldiana	5520020107													
PANDORA SP.	55200201													
Paracaprella tenuis	6171010901													
Parapionosyllis longicirrata	5001231701													
PARASMITTINA NITIDA	7816130304			0.										
PAROUGIA CAECA	5001361401													
Pectinaria gouldi	5001660302	1.	2.			3.		1.	2.	1.				
PEDICELLINA CERNUA	7902010101													
PERIGONIMUS JONESI	3703010107													
Petricola pholadiformis	5515480102													
Phascolion strombi	7200020401													
Pholoe minuta	5001060101	1.				4.	1.			1.				
Phoxocephalus holbolli	6169420702													
Phyllodoce arenae	5001131410					3.					2.	3.		
Pinnixa sayana	6189060409	1.					3.	3.		1.		1.	1.	4.

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707													
Pitar morrhuanus	5515471201													
Platynereis dumerilii	5001240503													
Podarke obscura	5001211502		12.	7.										
PODOCORYNE CARNEA	3703180203													
POLINICINAE	510376													
Polycirrus eximius	5001680804					3.								
POLYCIRRUS SP.	50016808				2.	5.	1.							
Polydora cornuta	5001430448													
POLYDORA SP.	50014304													
Polydora websteri	5001430412													
Pontogeneia inermis	6169201203													
Prionospio (Minuspio) perkinsi	5001430517		3.		1.	1.	6.	1.						
Prionospio heterobranchia	5001430503			1.										
PRIONOSPIO SP.	50014305													
Prionospio steenstrupi	5001430506													
Proboloides holmesi	6169480801													
Proceraea cornuta	5001230101													
PROSUBERITES SP.	36660302													
Protodorvillea gaspeensis	5001360202													
Ptilanthura tenuis	6160010301				1.				1.					
Pygospio elegans	5001431302													
Rhepoxynius hudsoni	6169421502													
Rictaxis punctostriatus	5110010403				1.									
Rudilemboides naglei	6169061201													
Sabellaria vulgaris	5001650202													
Saccoglossus kowalevskii	8201010302													
Scalibregma inflatum	5001570101													
SCHIZOPORELLA CORNUTA	7816080103		0.	0.										
SCHIZOPORELLA UNICORNIS	7816080101													
Scolelepis bousfieldi	5001432002													
SCOLELEPIS SP.	50014320				1.		1.							
Scolelepis texana	5001432006													
Scoletoma hebes	5001310140					1.								
Scoloplos (Leodamus) rubra	5001400307													
SCOLOPLOS RISERI	5001400504													
Seila adamsi	5103460401		1.											
Sertularia cupressina	3704050316													0.
Solemya velum	5504010101													
Sphaerosyllis longicauda	5001230817													

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407016	407115	407116	407215	407216	407315	407316	407415	407416	407515	407516	407615	407616
	Station ID	334	335	335	338	338	339	339	340	340	341	341	345	345
	Replicate	2	1	2	1	2	1	2	1	2	1	2	1	2
Taxon	**NODC Code**	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704													
Spiophanes bombyx	5001431001											1.		
Spurwinkia salsa	5103133601					1.								
SQUILLA EMPUSA	6191010101													
Stenothoe minuta	6169481002													
Sthenelais boa	5001060302													
Streblospio benedicti	5001431801													
STREPTOSYLLIS CF. WEBSTERI	5001231603													
SYLLIDAE	500123													
SYLLIDES CF. VERRILLI	5001231508													
Syllides japonica	5001231501													
Tectonatica pusilla	5103760601	1.			1.	3.			1.	1.		1.		
Tellina agilis	5515310205		1.								1.			
TELLINIDAE	551531		1.											
TEREBELLIDAE	500168													
Tharyx acutus	5001500305		134.	411.				4.			1.	1.		
Thyasira gouldi	5515020325							1.		1.				1.
TUBULANUS SP.	43020101	2.			4.	1.	1.				1.		3.	1.
TURBELLARIA	3901		1.		1.	16.	5.	4.	3.	4.				
Turbonilla aequalis	5108010224													
Turbonilla elegantula	5108010275											2.	1.	
TURBONILLA SP.	51080102													
Typosyllis alternata	5001230501													
Unciola dissimilis	6169150706													
Unciola irrorata	6169150703										1.	1.		
UNCIOLA SERRATA	6169150704													
Upogebia affinis	6183170102						1.							
UROSALPINX CINEREA	5105010301													
Yoldia limatula	5502040511					1.								
YOLDIA SP.	55020405													
Total		101	1158	1309	175	175	100	131	92	99	217	180	102	104

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407715	407716	407815	407816	407915	407916
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
Acteocina canaliculata	5110040103			1.			
Aeginina longicornis	6171010801	2.					
AEVERRILLIA ARMATA	7806010101					0.	
AMATHIA VIDOVICI	7805010102						
AMEROCULODES SP.	6169379899						1.
Ampelisca abdita	6169020108	4.	3.				
Ampelisca vadorum	6169020109	10.	4.			2.	2.
Ampelisca verrilli	6169020110	89.	23.	5.	3.		
Ampharete finmarchica	5001670214	4.	1.				
AMPHARETIDAE	500167		7				
AMPHIOPLUS ABDITA	8129030901					4.	1.
Amphiporus bioculatus	4306050110						
Amphiporus ochraceus	4306050112						
AMPHITRITE AFFINIS	5001680403						
AMPITHOE LONGIMANA	6169040115						
Ampithoe rubricata	6169040101						
Anachis lafresnayi	5105030306		3				
Anadara transversa	5506010201	3.	3.				
Ancistrosyllis hartmanae	5001220102		7				
Anomia simplex	5509090202		8				
ANOMIA SP.	55090902						
ANTHOMEDUSAE	3703			0.	0.		
Aphelochaeta marioni	5001500307						
Apocorophium acutum	6169150213						
Arabella iricolor	5001330201		3.	1.	1.		
ARBACIA PUNCTULATA	8147010101						
ARCHIANNELIDA	5002		1				
Arctica islandica	5515390101						
ARICIDEA (ACMIRA) CATHERINAE	5001411306	5.	26.	4.	5.		
ARICIDEA (ACMIRA) CERRUTI	5001411301		1				
ARICIDEA SP.	50014102						
ASCOPHORA	7816						
ASSIMINEA SUCCINEA	5103210103						
Autolytus fasciatus	5001230111						
Balanus crenatus	6134020104					2.	
Balanus venustus	6134020121						
Batea catherinensis	6169100101						4.
Bittium alternatum	5103460105						
BIVALVIA	55						

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407715	407716	407815	407816	407915	407916
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
Boccardiella hamata	5001432801						
Boonea seminuda	5108011403		1		1.		
Bowerbankia gracilis	7805010201						
BOWERBANKIA IMBRICATA	7805010202						
Brania clavata	5001230902						
Brania wellfleetensis	5001230903		4				
BUGULA TURRITA	7815250101	0.				0.	
BYBLIS SERRATA	6169020203	16.					
Cabira incerta	5001220401		4				
CAECUM PULCHELLUM	5103360301		2				
CALLIOPIUS LAEVIUSCULUS	6169120201						
CAMPANULARIIDAE	370401						
Cancer irroratus	6188030108						
Capitella capitata complex	5001600101						
CAPITELLA JONESI	5001600198						
Caprella penantis	6171010727					11.	
Carazziella hobsonae	5001432706		10				
CAULLERIELLA CF. KILLARIENSIS	5001500204						
CAULLERIELLA SP.	50015002		11				
CERAPUS TUBULARIS	6169150102						
Cerastoderma pinnulatum	5515220601		16				
Cerebratulus lacteus	4303020209						
CEREBRATULUS SP.	43030202						
CERIANTHARIA	3743						
Chaetopleura apiculata	5303060103		2				
CHAETOZONE SP.	50015004						
CIRRATULIDAE	500150	12.	29.		1.		
Cirriformia grandis	5001500104		2				
Cirrophorus furcatus	5001410606	2.	1.		1.		
CLIONA CELATA	3666060101	1.			1.	2.	
CLIONA LOBATA	3666060102						
CLIONA VASTIFICA	3666060104					5.	
Clymenella torquata	5001630202	1.			1.		
CLYTIA GRACILIS	3704010538						
Corbula contracta	5517020201		2				
Crangon septemspinosa	6179220103		1.				
Crassinella lunulata	5515200102		2				
Crassostrea virginica	5510020102						
Crepidula convexa	5103640205						
Crepidula fornicata	5103640204		240	1.	4.		

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407715	407716	407815	407816	407915	407916
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
Crepidula plana	5103640207		1		8.		
CREPIDULA SP.	51036402						
CRYPTOSULA PALLASIANA	7816510101						
Cumingia tellinoides	5515350302						
CYCLASPIS VARIANS	6154090202						
Cylichna oryza	5110040208						
Cymadusa compta	6169040201						
Diastylis polita	6154050121		1.				
Dipolydora socialis	5001430402		2.				
DODECACERIA SP.	50015005						
DORVILLEA (SCHISTOMERINGOS) ANNULATA	5001360502		1				
Drilonereis longa	5001330103			1.			
DYNAMENA PUMILA	3704050609					0.	
DYSPANOPEUS SAYI	6189024201					5.	1.
ECHINOIDEA	8136						
Edotia triloba	6162020703	1.					
Edwardsia elegans	3759010101					4.	
Elasmopus laevis	6169210301	1.				1.	1.
Eobrolgus spinosus	6169421901					4.	6.
Epitomapta roseola	8178010206						1.
EPIZOANTHUS SP.	37560201						
ERICHSONELLA FILIFORMIS	6162020602					18.	
Ericthonius brasiliensis	6169150302					17.	
Ericthonius fasciatus	6169150308						
ERICTHONIUS SP.	61691503						1.
Eteone heteropoda	5001130207						
Eteone longa	5001130205						
Euclymene collaris	5001631102	1.	5.	1.	1.		
Eulalia bilineata	5001130304						
Eulalia viridis	5001130301						
Eumida sanguinea	5001131101		16				
EUNICIDAE	500130				1.		
EUPROGNATHA RASTELLIFERA	6187011101					2.	
Exogone dispar	5001230701		2				
Fargoa bartschi	5108011501						
Gammarus mucronatus	6169210709						
GASTROPODA	51		1				
Gemma gemma	5515471301						
Glycera americana	5001270104	1.	14.				
Glycera dibranchiata	5001270105						

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	407715	407716	407815	407816	407915	407916
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
GLYCERA SP.	50012701						
GLYCERA SP. 1	5001270198						
Glycinde solitaria	5001280104						
Gyptis cf. vittata	5001210103		1				
HALECIUM SP.	37040601						
HALICHONDRIA BOWERBANKI	3665020204						
HALOCLAVA PRODUCTA	3759030101			2.		1.	2.
Haminoea solitaria	5110120102						
Harmothoe extenuata	5001020803						
Harmothoe imbricata	5001020806						
HARMOTHOE MACGINITEI	5001020830						
HARMOTHOE SP.	50010208		1				
HEDISTE DIVERSICOLOR	5001241601						
Heterocrypta granulata	6187020801						
Heteromastus filiformis	5001600201						
Heteromysis formosa	6153010802					18.	8.
HIPPOLYTE PLEURACANTHUS	6179160103						
Hippolyte zostericola	6179160104						
Hutchinsoniella macracantha	6102010101				31.		
HYDRACHNIDA	593010						
HYDRACTINIA ECHINATA	3703180304	0.					
HYDROBIA SP.	51031301						
Hydroides dianthus	5001730901			1.			
IDOTEA PHOSPHOREA	6162020309						
Ilyanassa obsoleta	5105080201						
Ilyanassa trivittata	5105080202						
Ischyrocerus anguipes	6169270202						
Kurtziella cerina	5106021103						
Lacuna vincta	5103090305		1				
Lamprops quadriplicata	6154010105						
Leitoscoloplos acutus	5001400305						
LEITOSCOLOPLOS FRAGILIS	5001401603						
Leitoscoloplos robustus	5001400304						
LEITOSCOLOPLOS SP.	50014016						
Lembos smithi	6169060303					2.	13.
Lepidonotus squamatus	5001021103						
Lepidonotus sublevis	5001021104		1				
Leptocheirus pinguis	6169060702						
Leptochelia dubia	6157150202						
Leucon americanus	6154040110						

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	Sample ID	407715	407716	407815	407816	407915	407916
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
Levinsenia gracilis	5001410801	1.					
Libinia dubia	6187010901						
LISSODENDORYX CAROLINENSIS	3664111204						
Listriella barnardi	6169330301						
Littorina littorea	5103100108						
Luconacia incerta	6171011101	1.					
LUNATIA TRISERIATA	5103760409		2				
Lyonsia hyalina	5520050206	5.	1				
Lysianopsis alba	6169345304						
Macoma tenta	5515310120						
Maldane sarsi	5001630301	1.		1.			
MARENZELLERIA VIRIDIS	5001430602						
MARGARITES HELICINUS	5102100302						
MARGARITES SP.	51021003		1				
MARPHYSA SANGUINEA	5001300201						
Mediomastus ambiseta	5001600401	6.	53.	9.	2.		
Melinna cristata	5001670501						
Melita nitida	6169211006						
MEMBRANIPORA TENUIS	7815040103						0.
MEMBRANIPORIDAE	781504						
Mercenaria mercenaria	5515471101						
Microciona prolifera	3664070703					1.	1.
Microdeutopus anomalus	6169060402					13.	
Microdeutopus gryllotalpa	6169060401						
Microphthalmus aberrans	5001210202						
Microphthalmus sczelkowii	5001210201						
MICROPHTHALMUS SP.	50012102				1.		
MICROPHTHALMUS SP. A	5001210298		1				
MICROPORELLA CILIATA	7816110101						
Microprotopus raneyi	6169260901						
Mitrella lunata	5105030207	11.	9				
Molgula manhattensis	8406030108						
Monocorophium acherusicum	6169150201						
Monocorophium tuberculatum	6169150207						
MONTICELLINA BAPTISTEAE	5001509897	3.	4.				
Monticellina dorsobranchialis	5001500310	1.	3				
Mulinia lateralis	5515250301				1.		
Mya arenaria	5517010201						
Mytilus edulis	5507010101						
Neanthes arenaceodentata	5001240305						

Appendix 10. Benthic Infaunal Data from the 2004 New Bedford Harbor Long-Term Monitoring IV Survey.

	Sample ID	4077.15	4077.16	4078.15	4078.16	4079.15	4079.16
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
Neanthes succinea	5001240309						
Neanthes virens	5001240302						
Nephtys incisa	5001250115	1.					
Nephtys picta	5001250117			1.			
NEREIDAE	500124						
Nereis grayi	5001240409						
NEVERITA DUPLICATA	5103760704						
NICOLEA ZOSTERICOLA	5001680601	5.					
Ninoe nigripes	5001310204	8.	9.	2.	6.		
Notomastus latericeus	5001600306	1.		1.			
Nucula annulata	5502020205		4				
Nucula proxima	5502020204	1.	2.	1.			
OBELIA BIDENTATA	3704010218						
Odontosyllis fulgurans	5001231304	1.	1				
ODOSTOMIA BISUTURALIS	5108011401						
Odostomia eburnea	5108010134						
OLIGOCHAETA	5003	2.	51.	2.	5.		
ONUPHIDAE	500129						
OPHIUROIDEA	8120					1.	
Owenia fusiformis	5001640102						
Oxyurostylis smithi	6154050801	1.					
Pagurus annulipes	6183060227				1.	4.	6.
Pagurus longicarpus	6183060230	1.					
PAGURUS POLLICARIS	6183060232						
Palaemonetes vulgaris	6179110304						
Pandora gouldiana	5520020107		1				
PANDORA SP.	55200201						
Paracaprella tenuis	6171010901	2.					
Parapionosyllis longicirrata	5001231701		1				
PARASMITTINA NITIDA	7816130304					0.	
PAROUGIA CAECA	5001361401						
Pectinaria gouldi	5001660302		2				
PEDICELLINA CERNUA	7902010101						
PERIGONIMUS JONESI	3703010107						
Petricola pholadiformis	5515480102						
Phascolion strombi	7200020401						
Pholoe minuta	5001060101						
Phoxocephalus holbolli	6169420702					1.	
Phyllodoce arenae	5001131410	2.	4.				
Pinnixa sayana	6189060409	1.		1.	1.		

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	Sample ID	407715	407716	407815	407816	407915	407916
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
Pista palmata	5001680707		1				
Pitar morrhuanus	5515471201						
Platynereis dumerilii	5001240503						
Podarke obscura	5001211502		10				
PODOCORYNE CARNEA	3703180203				0.		
POLINICINAE	510376						
Polycirrus eximius	5001680804		18				
POLYCIRRUS SP.	50016808	1.	13				
Polydora cornuta	5001430448						
POLYDORA SP.	50014304						
Polydora websteri	5001430412				1.		
Pontogeneia inermis	6169201203		1.				
Prionospio (Minuspio) perkinsi	5001430517						
Prionospio heterobranchia	5001430503		1				
PRIONOSPIO SP.	50014305		1				
Prionospio steenstrupi	5001430506						
Proboloides holmesi	6169480801						1.
Proceraea cornuta	5001230101						
PROSUBERITES SP.	36660302						
Protodorvillea gaspeensis	5001360202		11				
Ptilanthura tenuis	6160010301						
Pygospio elegans	5001431302						
Rhepoxynius hudsoni	6169421502						
Rictaxis punctostriatus	5110010403						
Rudilemboides naglei	6169061201					3.	2.
Sabellaria vulgaris	5001650202						
Saccoglossus kowalevskii	8201010302						
Scalibregma inflatum	5001570101	2.	1.				
SCHIZOPORELLA CORNUTA	7816080103						0.
SCHIZOPORELLA UNICORNIS	7816080101						
Scolelepis bousfieldi	5001432002						
SCOLELEPIS SP.	50014320						
Scolelepis texana	5001432006						
Scoletoma hebes	5001310140		9				
Scoloplos (Leodamus) rubra	5001400307				1.		
SCOLOPLOS RISERI	5001400504						
Seila adamsi	5103460401						
Sertularia cupressina	3704050316					0.	0.
Solemya velum	5504010101						
Sphaerosyllis longicauda	5001230817						

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	Sample ID	407715	407716	407815	407816	407915	407916
	Station ID	346	346	349	349	352	352
	Replicate	1	2	1	2	1	2
Taxon	NODC Code	Result	Result	Result	Result	Result	Result
Spio setosa	5001430704						
Spiophanes bombyx	5001431001	2.	3.	1.	2.		
Spurwinkia salsa	5103133601						
SQUILLA EMPUSA	6191010101						
Stenothoe minuta	6169481002						
Sthenelais boa	5001060302		4				
Streblospio benedicti	5001431801						
STREPTOSYLLIS CF. WEBSTERI	5001231603						
SYLLIDAE	500123						
SYLLIDES CF. VERRILLI	5001231508						
Syllides japonica	5001231501		1				
Tectonatica pusilla	5103760601	6.	1	1.	2.		
Tellina agilis	5515310205	2.	1	1.	1.		
TELLINIDAE	551531						
TEREBELLIDAE	500168						
Tharyx acutus	5001500305	5.	60.		1.		
Thyasira gouldi	5515020325	6.	1				
TUBULANUS SP.	43020101						1.
TURBELLARIA	3901					3.	3.
Turbonilla aequalis	5108010224		1				
Turbonilla elegantula	5108010275	1.	1.				
TURBONILLA SP.	51080102						
Typosyllis alternata	5001230501						
Unciola dissimilis	6169150706					3.	
Unciola irrorata	6169150703	1.	2.				
UNCIOLA SERRATA	6169150704						2.
Upogebia affinis	6183170102						
UROSALPINX CINEREA	5105010301						
Yoldia limatula	5502040511						
YOLDIA SP.	55020405						
Total		234	119	38	84	127	57