

Contaminated Monitoring Report for Seafood Harvested in 2003

from

the New Bedford Harbor Superfund Site

by

Massachusetts Department of Environmental Protection

and

Massachusetts Division of Marine Fisheries

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1. Introduction

This report documents the levels of PCBs (polychlorinated biphenyls) measured in edible seafood species caught in New Bedford Harbor and surrounding Buzzards Bay in southeastern Massachusetts in 2003. This seafood monitoring program is part of the ongoing PCB cleanup program for the New Bedford Harbor (NBH) Superfund Site, and was a collaborative effort involving the MA Department of Marine Fisheries (DMF), the MA Department of Environmental Protection, (MassDEP) and the U.S. Environmental Protection Agency - Region I (EPA).

Due to the identification of high PCB levels in area seafood, the MA Department of Public Health (MADPH) in 1979 promulgated regulations restricting seafood consumption in three closure areas in and around NBH as shown on Figure 1 (MADPH, 1979). NBH was subsequently listed as a Superfund site in 1983. Per the 1998 Record of Decision (ROD) (EPA, 1998) for the site, approximately 880,000 cubic yards (cy) of PCB-contaminated sediments and soils are to be removed. As of December 2003, 42,000 cy of the most highly PCB-contaminated sediments and shoreline soils have been remediated (including all pilot studies and hot spot dredging volumes). Each year about 20,000 cy to 25,000 cy of sediments are expected to be dredged at the typical \$15 million per year funding rate. Consistent with the 1998 ROD, this seafood monitoring program will aid in the evaluation of the overall effectiveness of the harbor cleanup, as well as assist in the implementation of institutional controls and seafood restrictions.

2. Seafood Monitoring Program Design

Based on previous investigations and risk assessments performed for the NBH site, a variety of species were selected for this monitoring program that are considered locally caught seafood; are generally available for field collection; and which bracket potential worse case tissue levels (MassDEP, 2002). These species include lobster (*Homarus americanus*), blue crabs (*Callinectes sapidus*), quahog (i.e., hard shelled clam, *Mercenaria mercenaria*), alewife (*Alosa pseudoharengus*), American eel (*Anguilla rostrata*), black sea bass (*Centropristes striatus*), winter flounder (*Pseudopleuronectes americanus*), and scup (*Stenotomus chrysops*). The goal of this seafood monitoring program is to acquire annual collections of these species in sufficient numbers from all three closure areas to enable statistical comparisons between them, but with the understanding that some species may not necessarily be caught in sufficient numbers every year.

To meet this goal, the monitoring design calls for five composite samples for each species from each of the three closure areas. Based on previous site sampling experience, modifications have been made to the original sampling approach to account for the availability of samples in the field, as follows: blue crabs were substituted for lobster in Area 1. For lobster, blue crabs, black sea bass, and scup, each composite sample consists of three legally harvestable organisms. For quahog the composite sample consists of one dozen legally harvestable organisms. The number of composites was determined according to Sokal and Rohlf (1995) using the coefficient of variation (c.v.) from the DMF's 1995 lobster

sampling program in Area III (mean = 1.3 ppm, standard deviation = 0.28, c.v. = 22%). The significance level used was 5% and the probability that the significance will be found if it exists was set at 90%. Based on the known levels of PCBs in NBH seafood, there is a high likelihood of detecting PCB concentrations that are 50% different between each closure area.

In addition to comparing the results of this monitoring to past and future seafood monitoring results, the results of this seafood monitoring program will be compared to the current U.S. Food and Drug Administration's (FDA's) criteria for PCBs in commercial seafood of 2 parts per million (ppm). It was exceedances of the FDA criteria in NBH seafood, which prompted promulgation of the state's seafood closure areas in 1979 (the FDA criteria at that time was 5 ppm). In addition to comparisons to the current FDA level, and as explained in the 1998 ROD, EPA will compare the results of the seafood monitoring program to a site-specific threshold of 0.02 ppm PCBs. This 0.02 ppm PCB level was developed to ensure the protection of local residents and sport fishermen whose seafood consumption might include seafood caught mostly if not entirely from NBH.

3. 2003 Field Collection

The DMF field sampling program included the collection of quahog, lobster, crab, flounder, black sea bass, and scup. The 2003 Sampling Report is attached in Appendix C

The collection of lobster and blue crabs using pots occurred during June and July (see Figures 2 and 3). Scup were collected using fish pots and rod and reel in July (Figure 4). Winter and Summer Flounder were collected using a scup trap, gill net and trawl net during July and September (Figure 5 and 6). Black Sea Bass were collected by trawl net in September (Figure 6). Collection of quahog using a hydraulic dredge and rake were done during March and June (Figure 7), prior to spawning. Five stations were located in each of the three closure areas that produced sufficient sample sizes consistent with the monitoring program design.

Despite considerable effort to collect species according to the monitoring program design, all species were not obtained in all three closure areas as originally planned. In summary, lobsters were found in Areas II and III; eels were not found; flounder were found just in Area I and III; and black sea bass were found in just Area III; and scup were found just in Areas II and III.

Complete collection information including the dates fished, identification information, species, station identification, latitude and longitude, and collection method are included on the Field Collection Forms in Appendix C. All samples were delivered frozen to Alpha Woods Hole Labs (Alpha) in Raynham, MA, for analysis.

4. Analytical Chemistry

The first step in the analytical process for shell fish samples was the compositing of like species (e.g. quahog and lobsters). For quahogs, twelve individual samples from each

location were combined to form one composite sample per location. For lobster, three individual samples from each location were used to form composite samples. The tail and claw meat from each of the three animals were combined to form a tail and claw meat composite sample for the location, and the tomalley from each of the three animals was combined to form a separate tomalley composite sample for the location. The tail/claw meat composites were analyzed separately from the tomalley composites in order to quantify the PCB levels in the respective tissue types. A combined PCB level for the tail and claw meat combined with the tomalley was then calculated as follows:

$$\frac{[(\text{tail/claw PCB conc.} \times \text{tail/claw weight}) + (\text{tomalley PCB conc.} \times \text{tomalley weight})]}{(\text{tail/claw weight} + \text{tomalley weight})}$$

The seafood samples were analyzed for five PCB Aroclors and 136 PCB congeners by GC/MS-SIM (gas chromatography/mass spectrometry-selective ion monitoring) based on EPA Methods 680 and 8270C. Both the Aroclor and the congener approach were used to allow comparisons with previous site data of both types. The five Aroclors measured were Aroclors 1232, 1242, 1248, 1254 and 1260. The 136 congeners measured included the eighteen NOAA (National Oceanic and Atmospheric Administration) list congeners and the twelve WHO '98 (1998 World Health Organization) list of dioxin-like congeners. Two congeners, BZ #105 and #118, appear on both lists. The NOAA congener list was used by the MA DMF in its analysis of Area III lobsters from 1988 - 1998, while Aroclors had been used previous to this. The NOAA list typically represents approximately 45% of the total PCB in marine tissue (NOAA, 1993).

The congeners quantitated in this effort are listed in the New Bedford Harbor Superfund Site Quality Assurance Project Plan (MassDEP, 2002). The WHO '98 congeners were included to enable the evaluation of risks to human health due to the presence of any dioxin-like PCB congeners, if deemed necessary.

Tissue from the collected specimens was filleted, sub-sampled and/or composited as necessary for sample homogenization, extraction and analysis. For each group, approximately five grams of wet sample tissue was homogenized using a tissumizer. Samples were then extracted using EPA method 3570 Microscale Solvent Extraction (MSE) techniques (spin extraction with acetone/methylene chloride in a sealed vessel).

The extract was then cleaned up to remove the lipid portion and separate the PCB analytes from the lipid. Following sample cleanup, extracts were dried and concentrated using either the Kuderna-Danish (K-D) or TurboVap method, brought up to final volume and analyzed. Extract cleanup was performed using Gel Permeation Chromatography (GPC) and Sulfuric Acid Cleanup. Silica Gel Cleanup was also employed as appropriate, based on the sample extracts.

Sample analysis using GC/MS-SIM allowed identification and quantitation of both congeners and Aroclors using selected PCB congeners from BZ1 to BZ209. The identification of the specific congeners was accomplished by comparing their mass spectra

with the electron impact spectra of the calibration standards. Congener concentrations were determined using mean relative response factors from a multi-level calibration curve. Response factors for congeners were determined relative to internal standard technique. Aroclor concentrations were determined by calculating the concentration of each corresponding peak in the sample chromatogram and the five resulting concentrations are averaged to provide a final result for the sample. A multi-point curve was used for the individual congeners to demonstrate the linear range of the instrument. Continuing calibrations assured linearity remained for the duration of the analysis. A single point calibration was used for the Aroclors utilizing the congener calibration. Laboratory SOPs are available in the Quality Assurance Project Plan Revision 2 (MassDEP, 2002) and show further details on chromatographic conditions, quality control criteria, and other elements of the analysis. While lipid content was reported, the wet weight PCB concentrations reported herein are not lipid normalized.

The data validation summary for the laboratory analysis is presented in Appendix B.

5. Results and Discussion

PCBs are a group of similar organic molecules featuring a “figure-eight” structure of two bonded benzene rings with chlorine atoms attached at up to ten different attachment sites. Theoretically, up to 209 different PCB congeners (or molecular variations) are possible, yet only about 120 of these are found in the natural environment. Furthermore, NOAA has demonstrated that 18 specific congeners are the most pervasive and generally make up almost half of the PCB mass in marine tissues. In addition, WHO considers 12 specific dioxin-like congeners to present the greatest risk to human health. As noted above in section 4, two congeners, BZ #105 and BZ #118, are included in both the NOAA and the WHO congener sets.

Throughout their industrial use in the U.S., PCBs were sold under the Aroclor trade name. Aroclors are a mixture of congeners, and different Aroclor types consisting of different congeners and chlorine levels were manufactured (e.g., Aroclor 1242 had 42% chlorine, and Aroclor 1260 had 60% chlorine). For this monitoring effort, both Aroclors and congeners (136 including the 28 congeners of the combined NOAA and WHO subsets) were measured to assist in the comparison with previous site data, as well as to further understand the similarities and differences of these two analytical approaches.

As with previous studies of sediments, water column, seafood, and air at the NBH Site, the current data set demonstrates a generally decreasing trend (north to south) of PCB levels in locally caught seafood. In other words, tissue PCB levels decrease proportionally with the distance from the primary source of PCBs to the upper harbor (the Aerovox facility). This trend is also noticeable in the individual results from Area I: the tissue samples taken closest to the main PCB source (the Aerovox factory) are the highest in PCBs (e.g., quahog site E1 and blue crab site A1). Also, the area averages for the quahog show a significant decrease in PCB concentration away from the source (Area I was 1.6 ppm, Area II was 0.28 ppm, and Area III was 0.051 ppm for the congeners, this trend also occurred for the

Aroclors) see Table 5 and Figure 13. There was a drop in PCB concentrations away from the source for lobster, crab, and scup, see Tables 1, 3, and 4 and Figures 8, 9, 10, and 11. Figures 8 through 13 graphically summarize the current data, and Tables 1 through 5 tabulate the totals and averages of the congener and Aroclor sample results.

In the current data for lobster, crab, black sea bass, and scup, the PCB results indicate that the Aroclor approach greatly under-estimates the true total PCB concentration. For the lobster (meat) and black bass (only one sample location collected), the congeners were detected but the Aroclors were not. Also, for the lobster tomalley, flounder, and scup, the Aroclor concentrations were significantly less than the congener concentrations.

For all Areas for quahog, there was a very good correlation between the Aroclor and congener-based approaches.

Overall, the current data set indicate continued levels of PCBs in NBH area seafood above the 1998 ROD's site-specific goal of 0.02 ppm, as well as PCB levels above the FDA criteria of 2 ppm in all averages for Area 1 species (except in some Area I locations for quahog). The highest PCB level reported for this data set was 12 ppm (congener basis) in blue crab in Area I Station A, see Table 3.

It should be noted that these PCB levels do not apply to seafood caught by the Harbor's commercial fishing fleet, as this seafood is caught significantly further offshore than the three PCB closure areas at the New Bedford Harbor Superfund Site. However, these results do indicate the need to continue the outreach program to inform and educate the local communities and recreational sport fishermen about the fishing bans. The current data also highlights the limitations of using the Aroclor analytical approach for monitoring locally harvested seafood.

Finally, in comparison to historic PCB monitoring of NBH area lobster dating to the mid 1980s, the current data set shows significantly decreased levels over time. This historic lobster PCB data can be found in the 2002 seafood monitoring report for the site ("Contaminated Monitoring Report for Seafood Harvested in 2002 from the New Bedford Harbor Superfund Site," available at www.epa.gov/ne/nbh under "Technical Documents").

6. References

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FIGURES

Figure 1 Fish Closure Areas I to III

Figure 2 American Lobster Sample Locations - Area II, & III

Figure 3 Blue Crab Sample Locations - Area I

Figure 4 Scup Sample Locations - Area II & III

Figure 5 Winter Flounder Sample Locations - Area 1

Figure 6 Winter Flounder, Summer Flounder, and Black Sea Bass Sample Locations
- Area I and III

Figure 7 Quahog Sample Locations - Area I, II, & III

Figure 8 PCBs Concentrations in Lobster – Area II

Figure 9 PCBs Concentrations in Lobster – Area III

Figure 10 PCBs Concentrations in Blue Crab - Area I

Figure 11 PCBs Concentrations in Scup

Figure 12 PCBs Concentrations in Flounder

Figure 13 PCBs Concentrations in Quahog

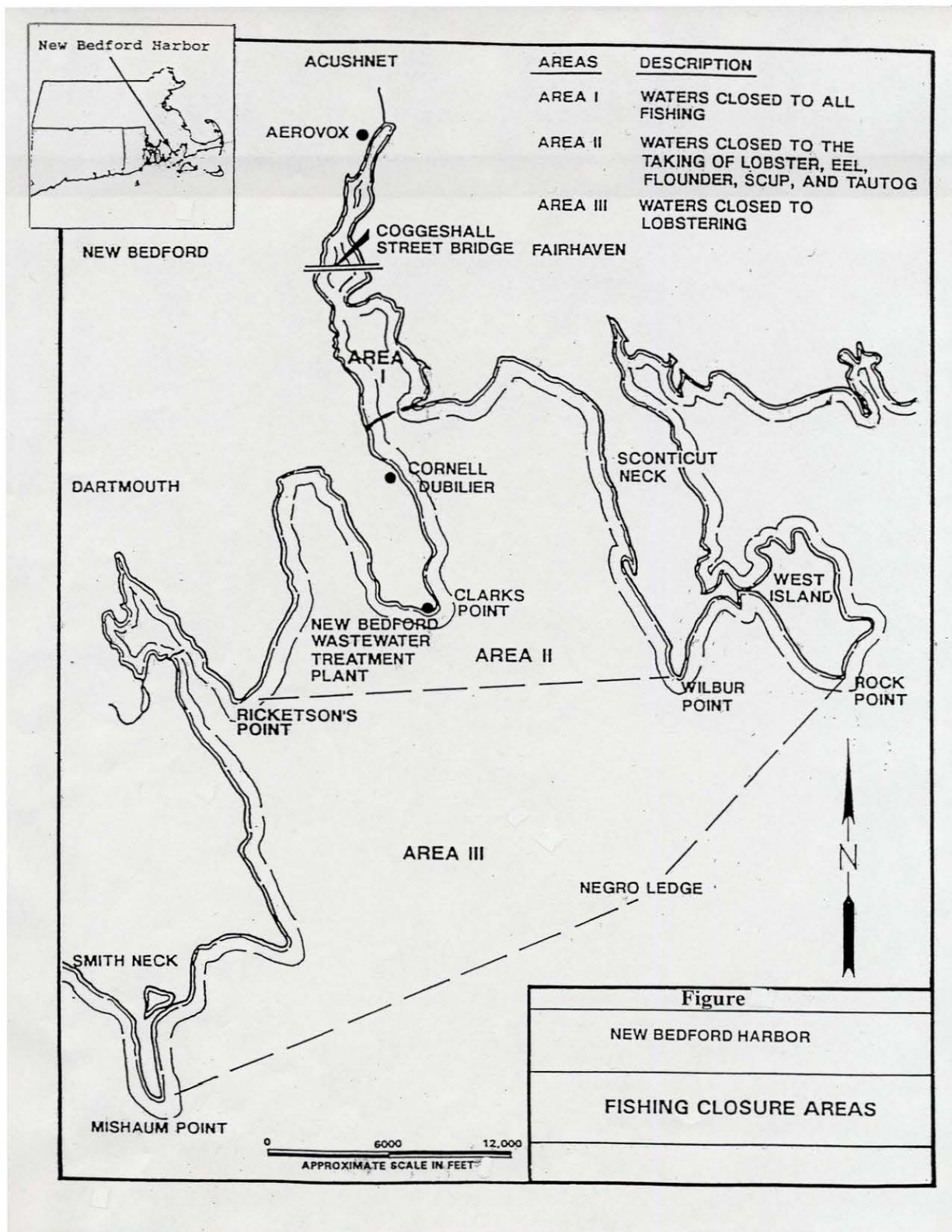


Figure 1 Fish Closure Areas I to III

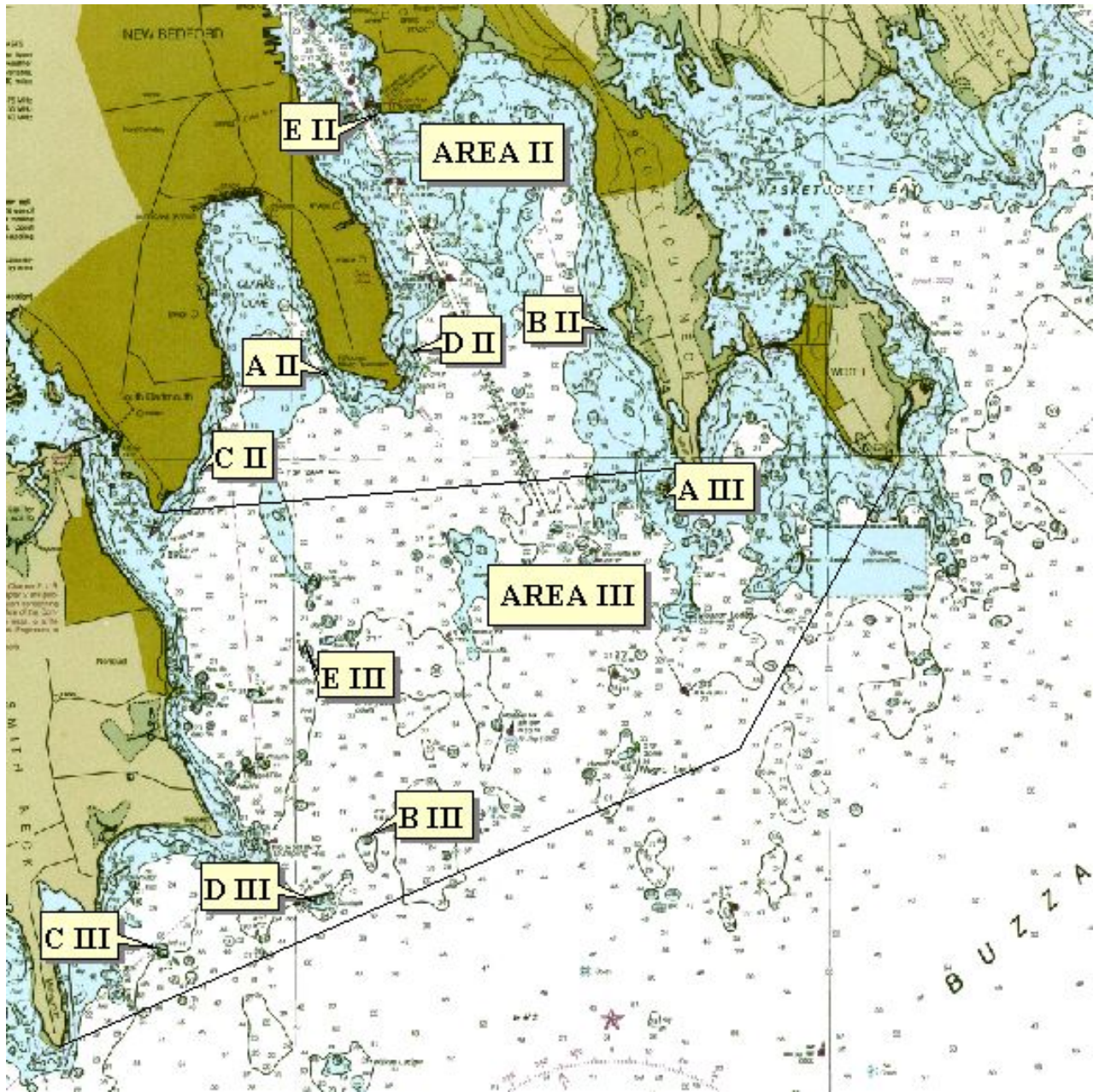


Figure 2 American Lobster Sample Locations - Area II & III



Figure 3 Blue Crab Sample Locations - Area I

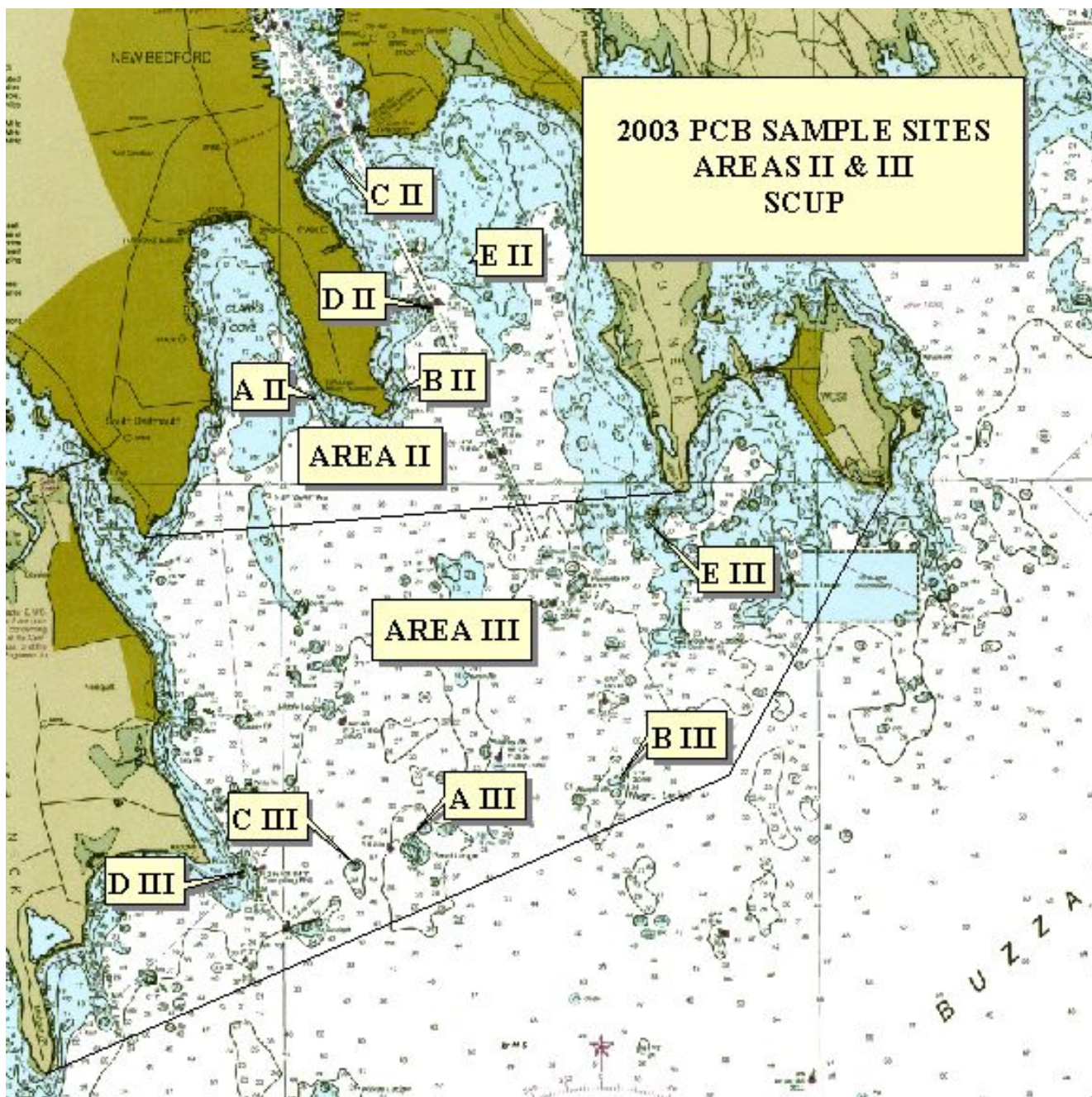


Figure 4 Scup Sample Locations - Area II & III

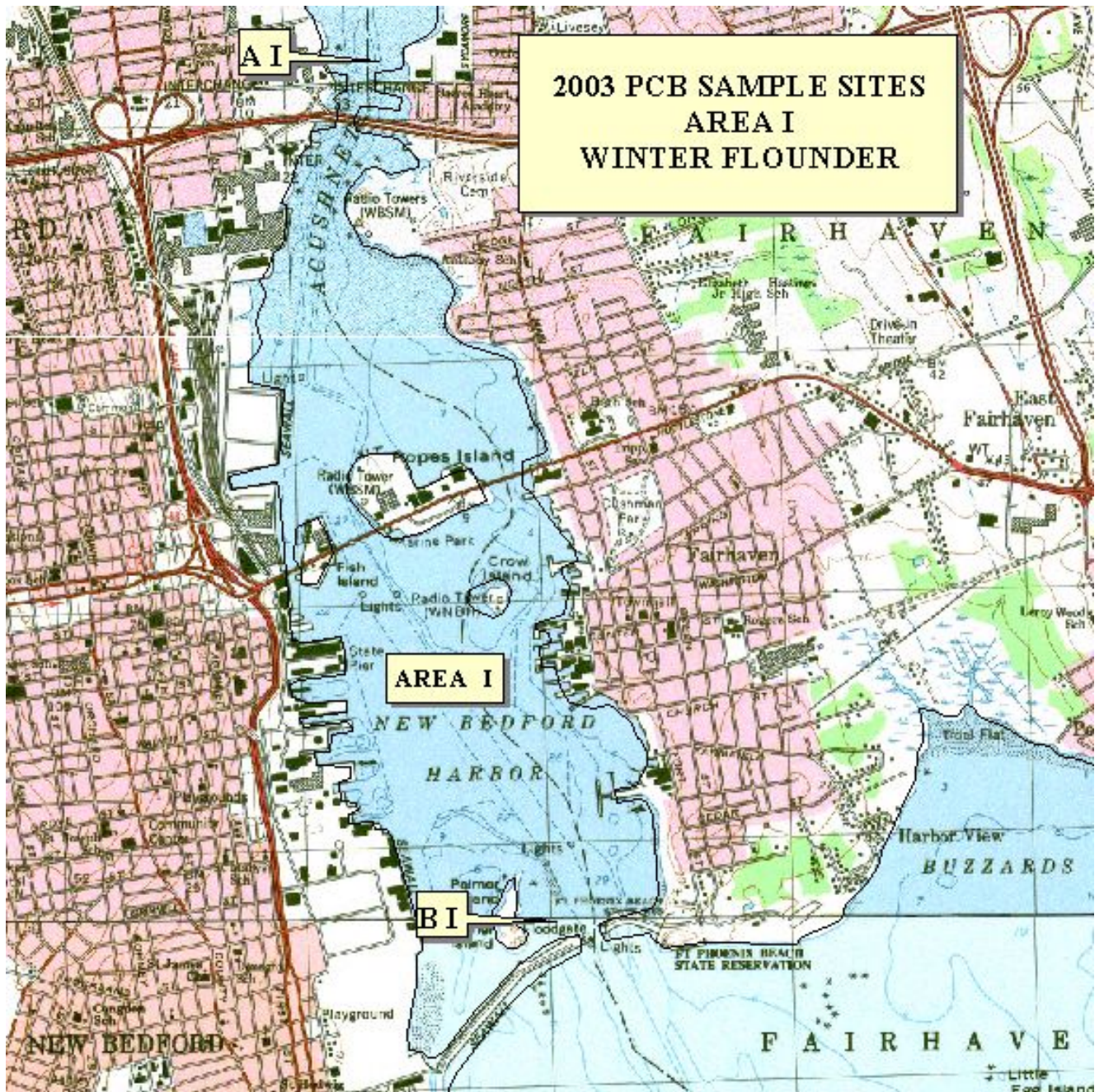


Figure 5 Winter Flounder Sample Location - Area I

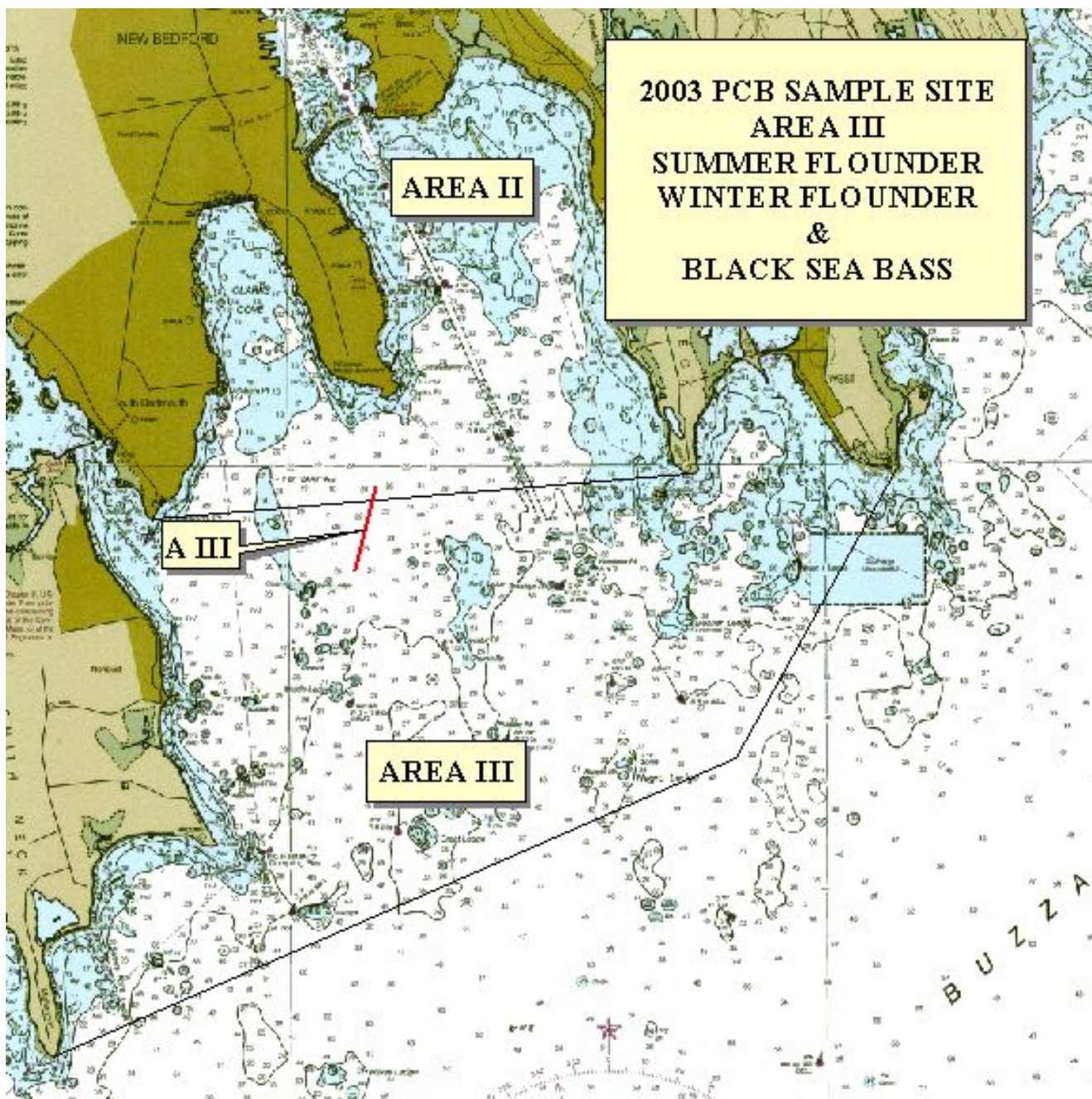


Figure 6 Winter Flounder, Summer Flounder, and Black Sea Bass Sample Locations - Area III

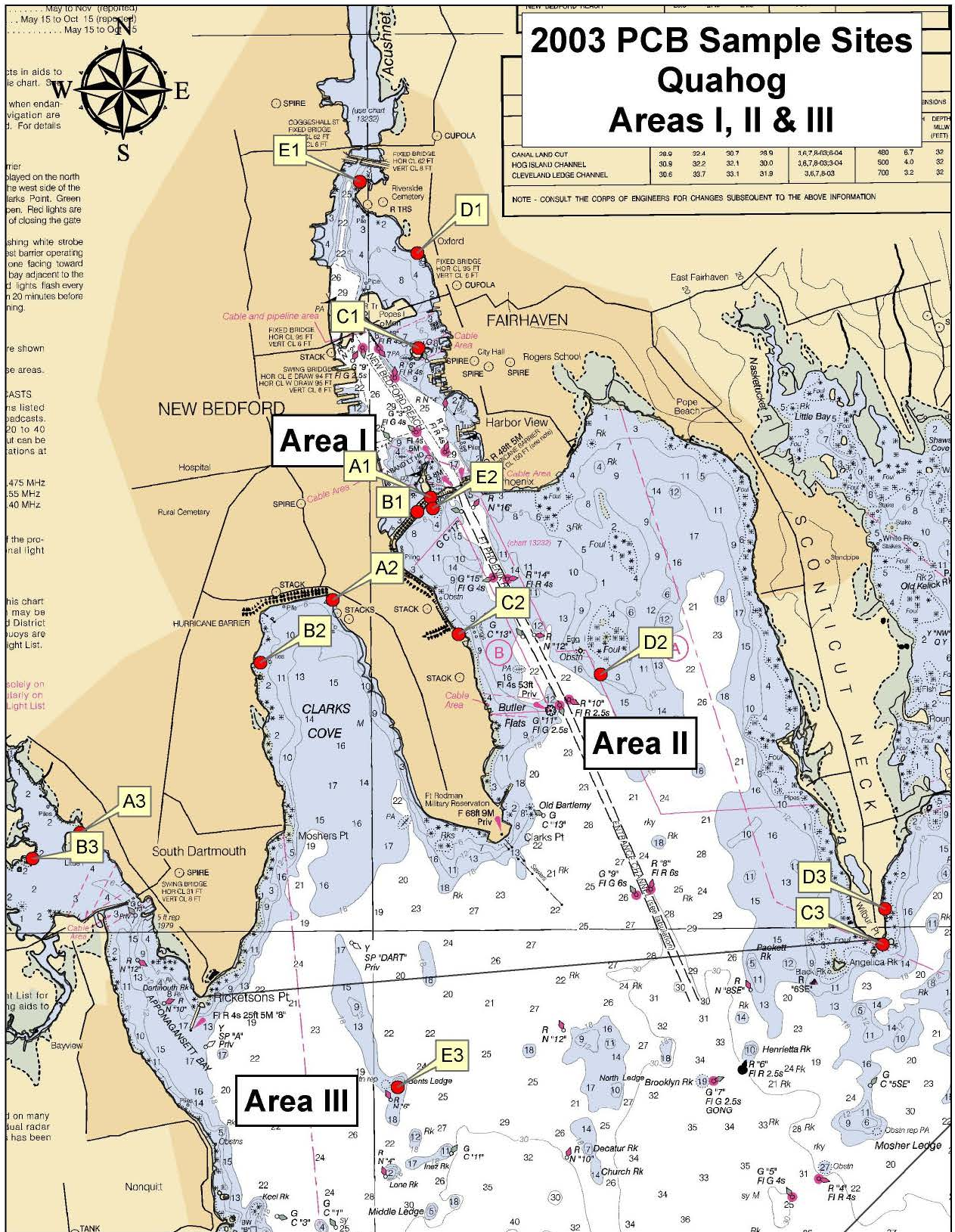


Figure 7 Quahog Sample Locations - Area I, II, & III

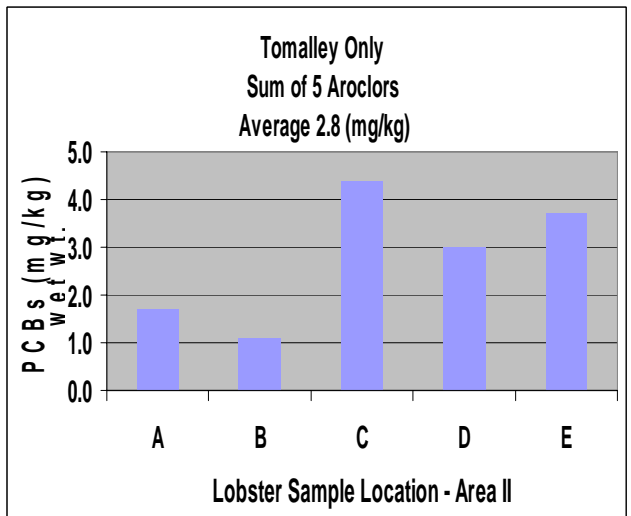
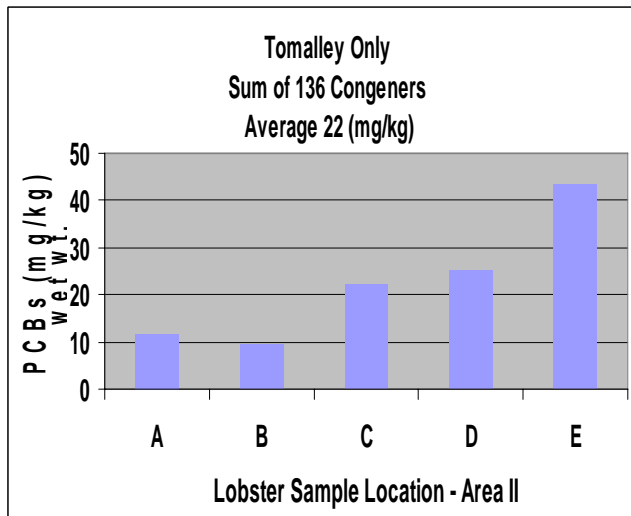
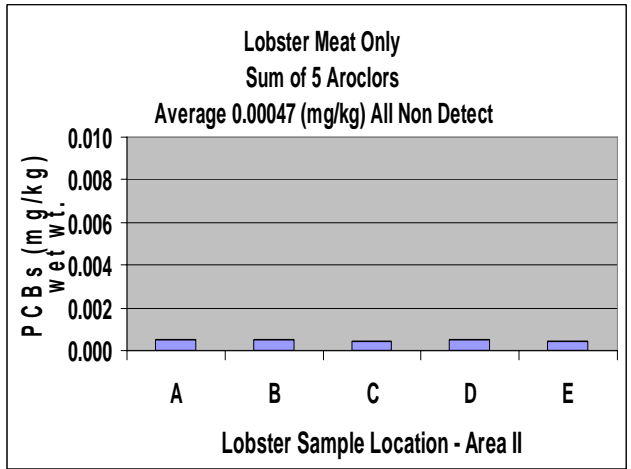
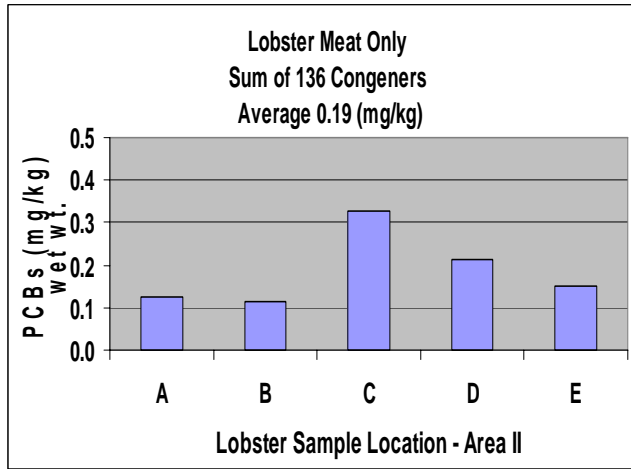
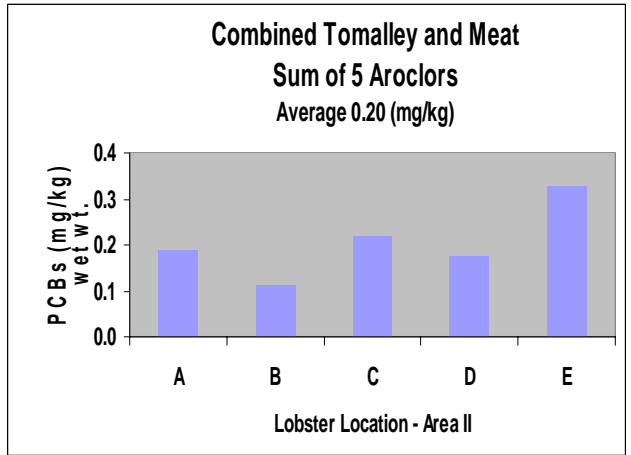
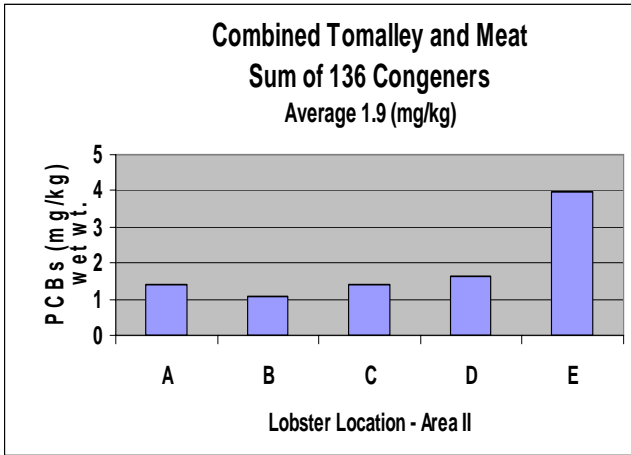


Figure 8 PCBs Concentrations in Lobster - Area II 2003

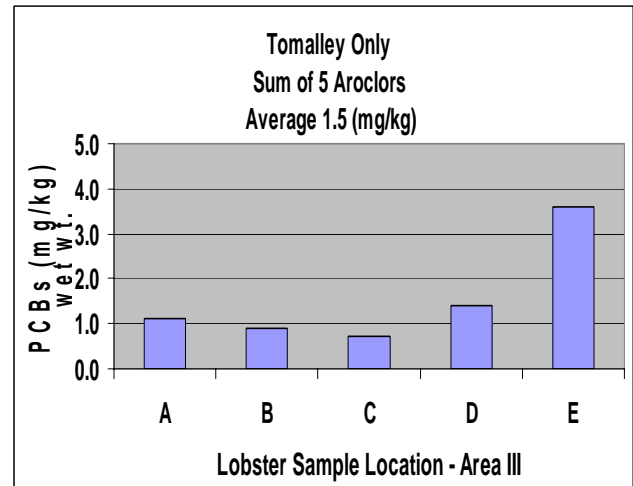
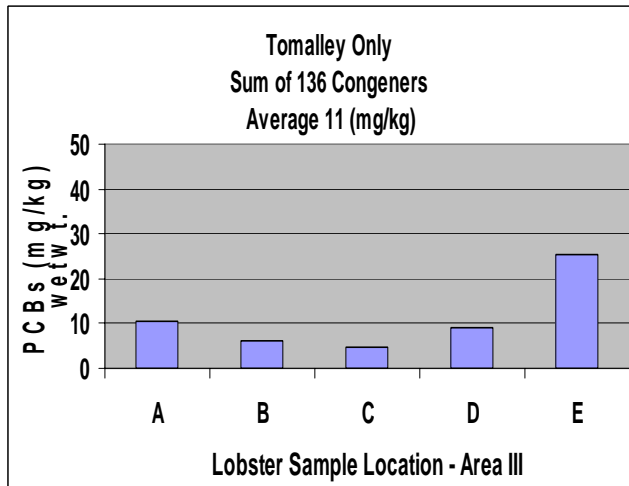
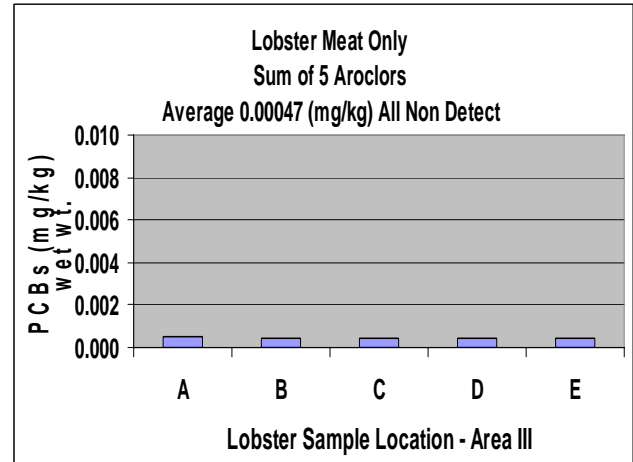
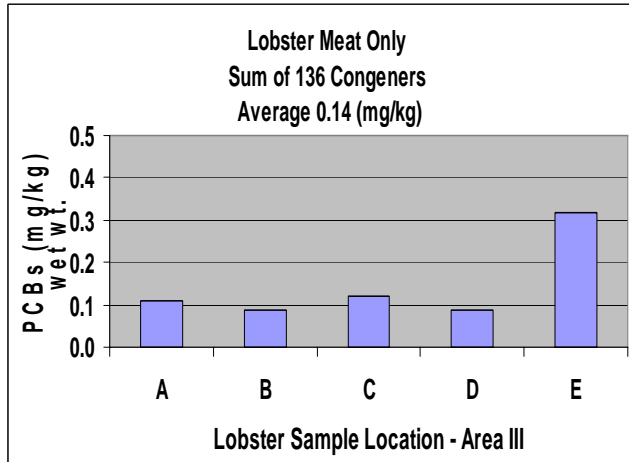
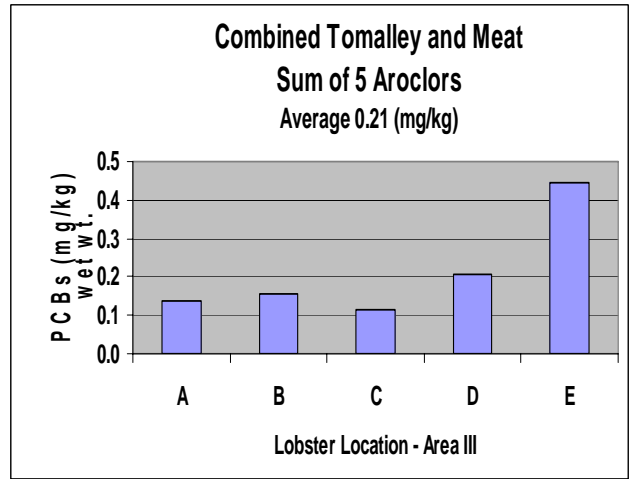
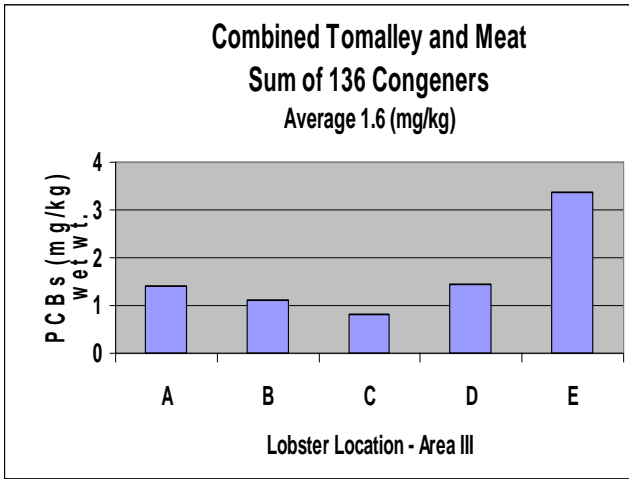


Figure 9 PCBs Concentrations in Lobster - Area III 2003

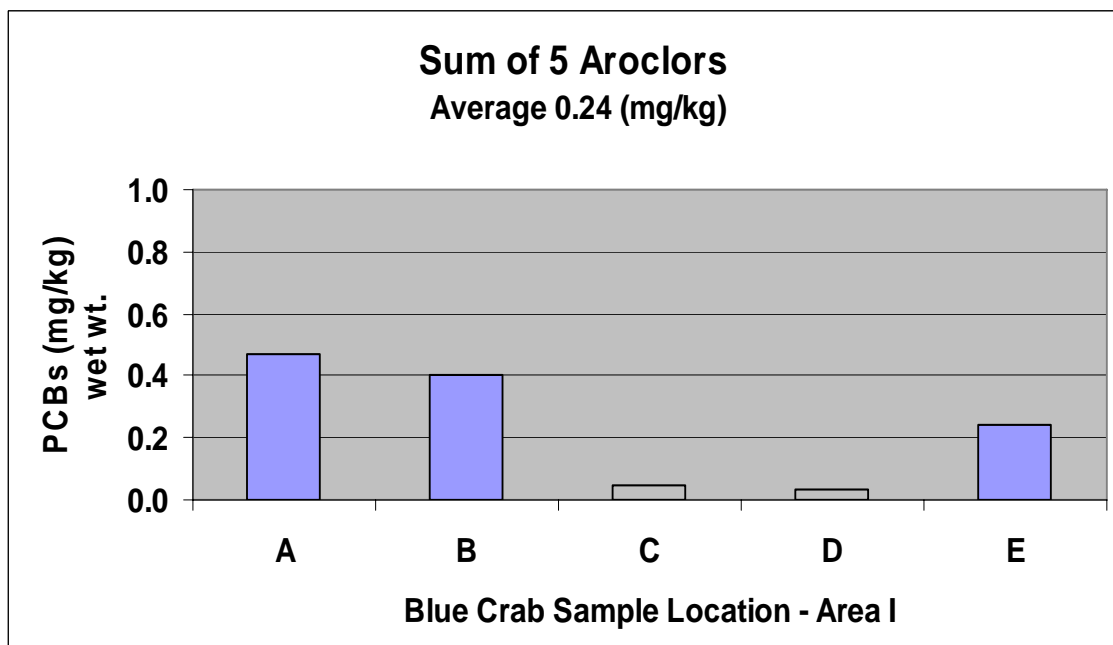
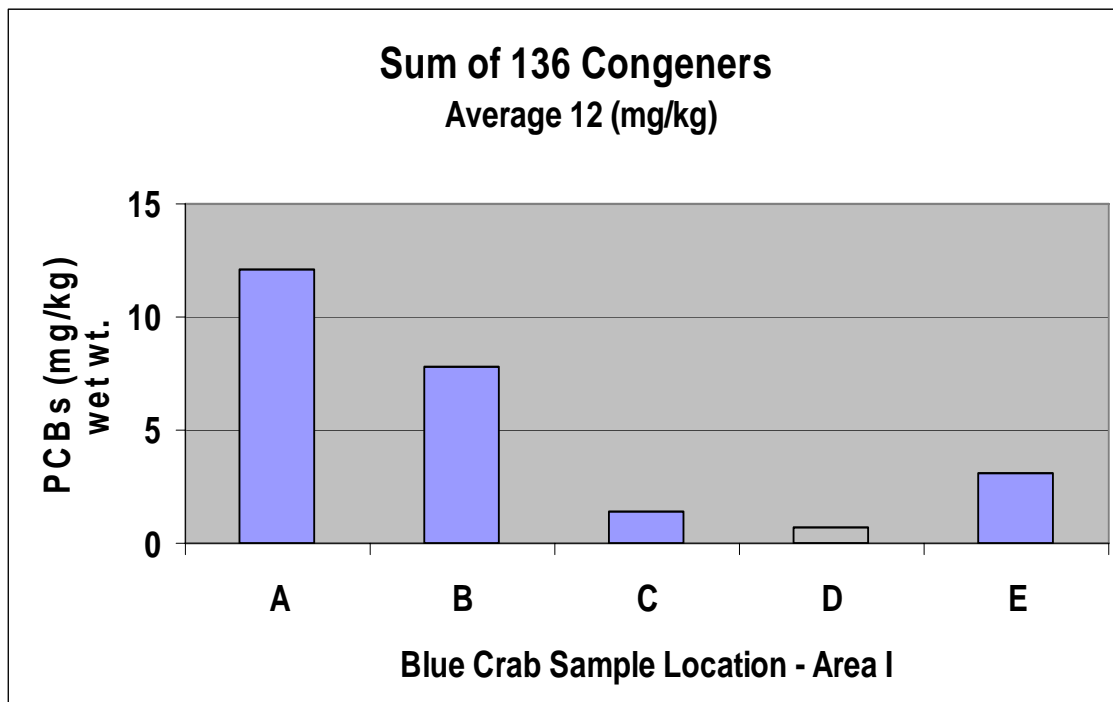


Figure 10 PCBs Concentrations in Blue Crab Area I 2003

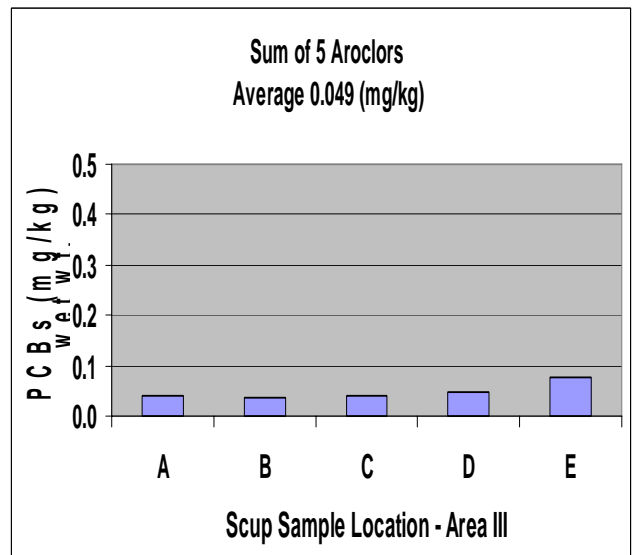
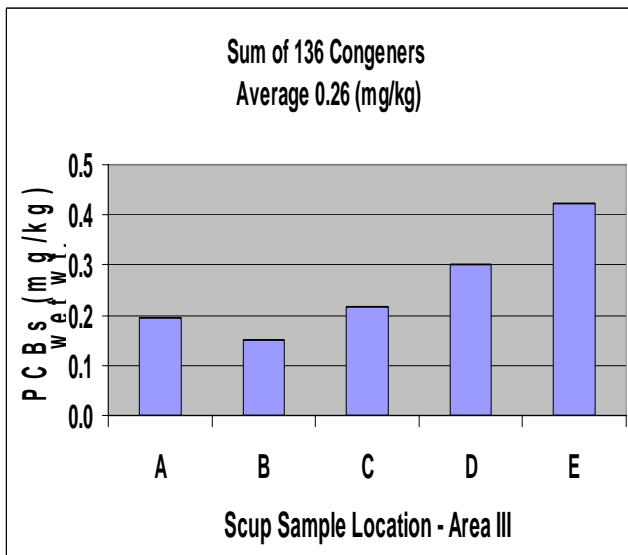
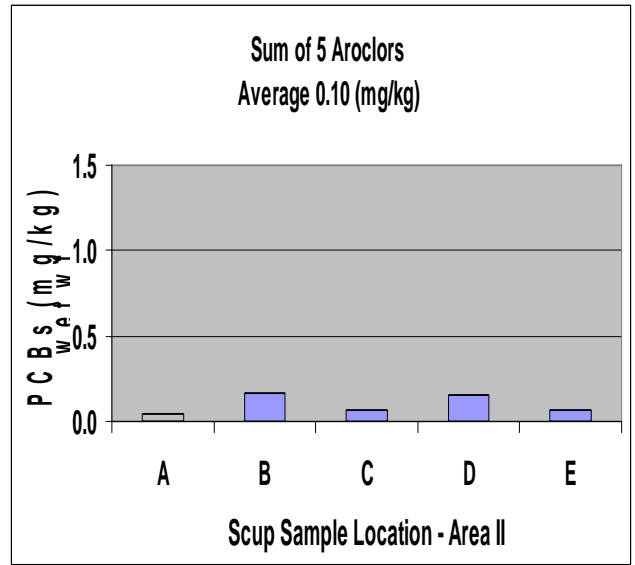
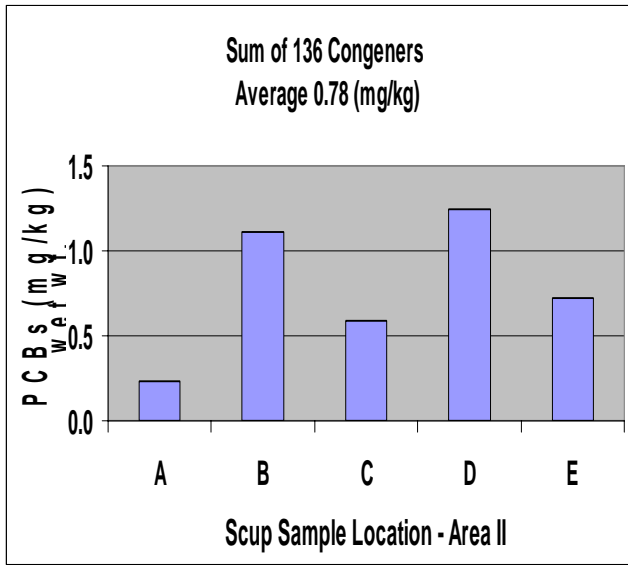


Figure 11 PCBs Concentrations in Scup 2003

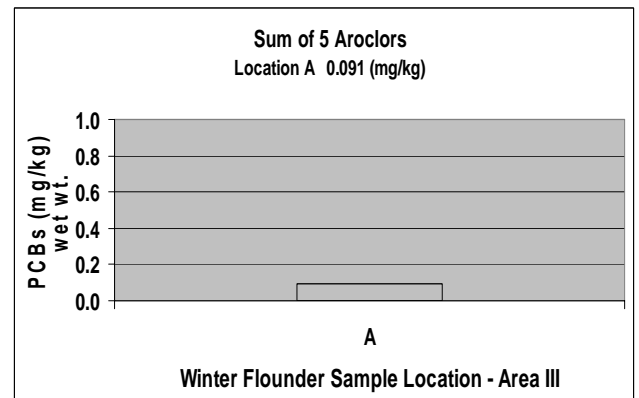
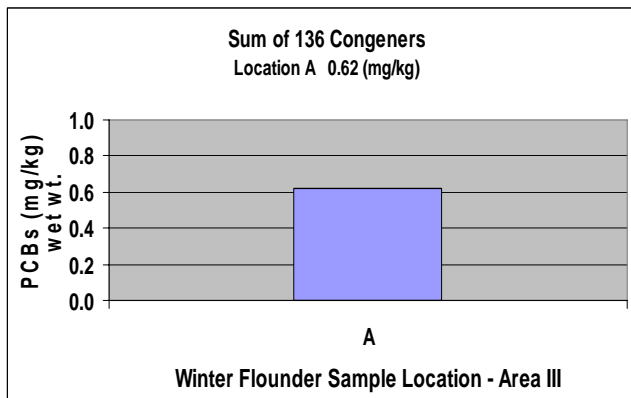
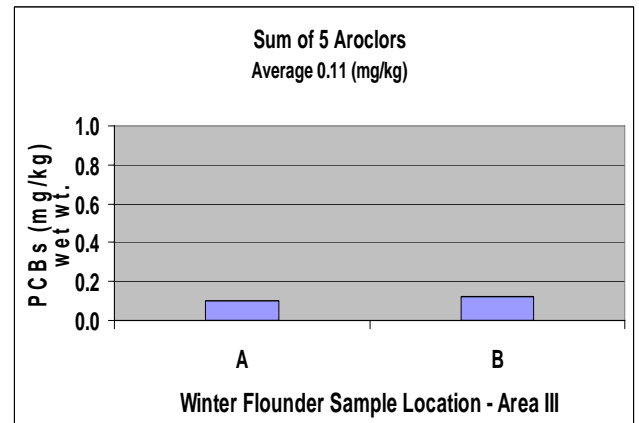
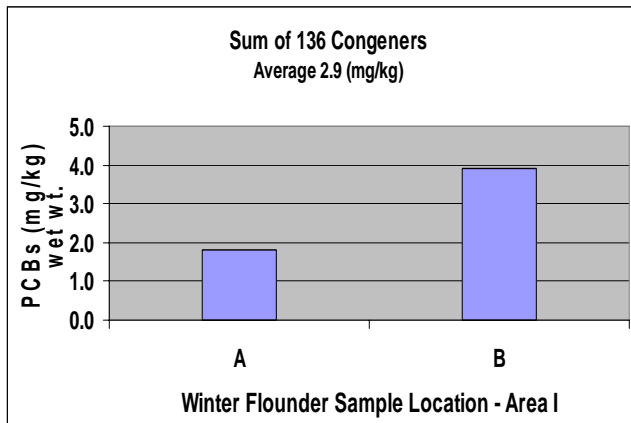


Figure 12 PCBs Concentrations in Winter Flounder 2003

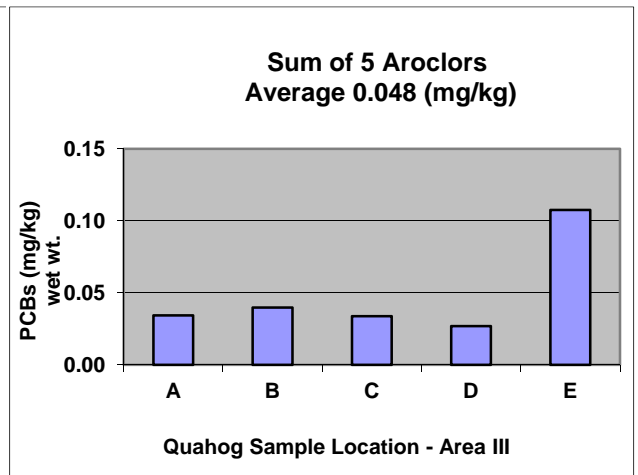
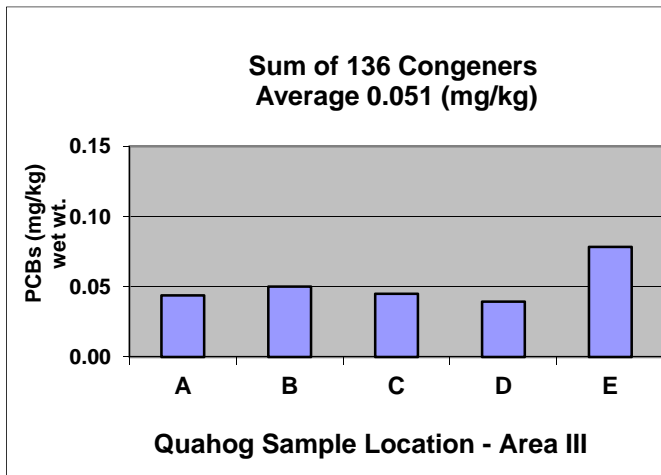
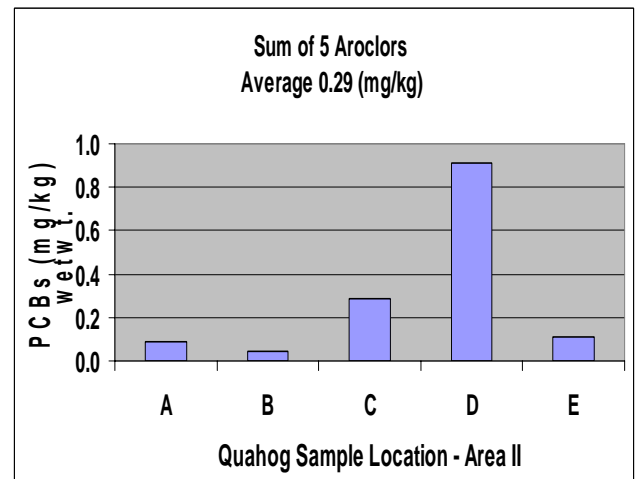
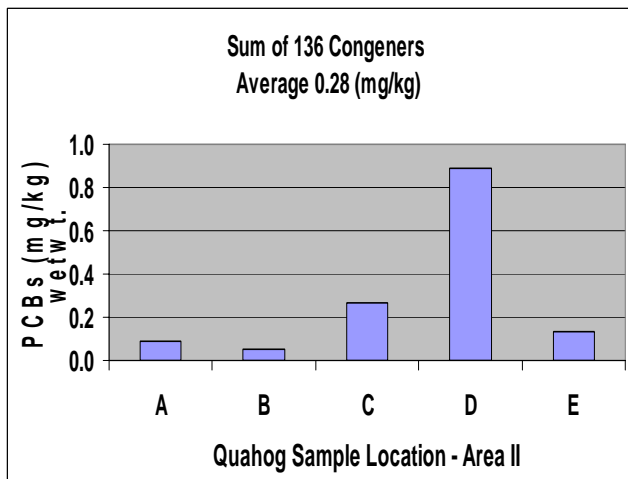
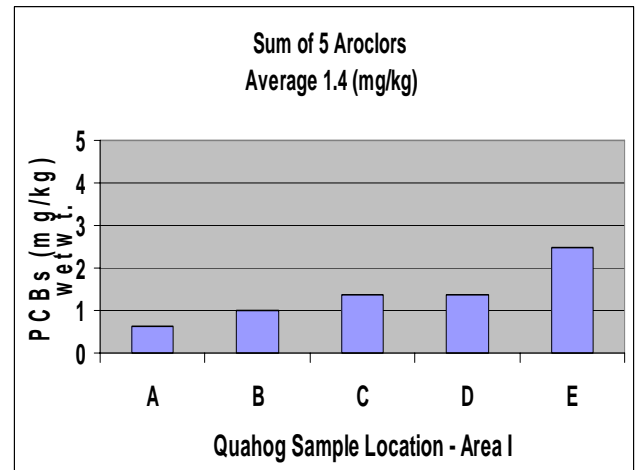
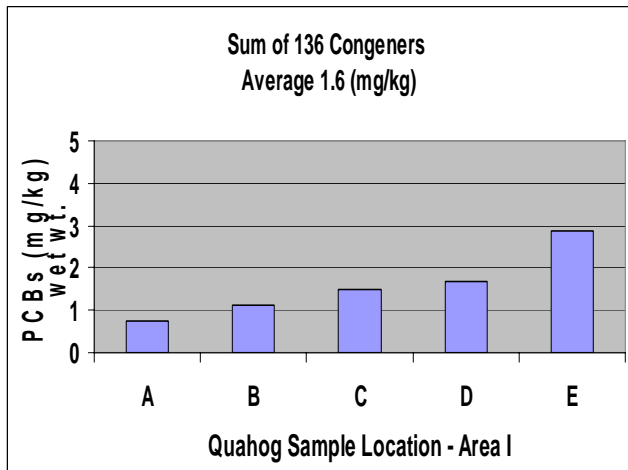


Figure 13 PCBs Concentrations in Quahog 2003

TABLES

Table 1	Summary of Sample Data for Lobster
Table 2	Calculated PCB Concentration of Combined Lobster Meat and Tomalley
Table 3	Summary of Sample Data for Blue Crab
Table 4	Summary of Sample Data for Fish
Table 5	Summary of Sample Data for Quahog

Notes and Footnotes for Tables:

¹ = summation of 136 PCB congener results (1/2 Sample Quantitation Limit [SQL] used for non-detected results)

² = summation of detected 136 PCB congeners

³ = summation of 18 NOAA PCB congener results (1/2 SQL used for non-detected results)

⁴ = summation of 12 WHO PCB congener results (1/2 SQL used for non-detected results)

⁵ = summation of 18 NOAA & 12 WHO PCB congener results (1/2 SQL used for non-detected results); duplicative congeners (BZ# 105, #118, #167/128) subtracted from total for one data set

⁶ = summation of 5 Aroclor results (1/2 SQL used for non-detected results); if all Aroclor results are not detected, then total value represents SQL for each individual Aroclor

U = not detected; value represents SQL

J1 = concentration of detected congeners contributes < 50% of total congener result

J2 = concentration of detected congeners contributes 50% to 90% of total congener result

J3 = concentration of detected congeners contributes 90% to 99% of total congener result

J4 = concentration of detected congeners contributes > 99% of total congener result

Results reported in milligrams per kilogram (mg/kg) wet weight, unless otherwise noted.
PCB Congeners and Aroclors analyzed by GC/MS-SIM.

Table 1 Summary of Sample Data for Lobster (mg/kg, wet weight) 2003

Parameter	Area	Station	Sample Weight	Lipids	Total PCB Congeners ¹	Total PCB Congeners Hits ²	Total NOAA Congeners ³	Total WHO Congeners ⁴	Total NOAA / WHO Combined ⁵	Total Aroclors ⁶					
Units			G	PERCENT	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG					
Meat	II	A	372.53	0.38	0.12	J2	0.11	0.073	J4	0.029	J3	0.076	J3	0.00048	U
Meat	II	B	265.61	0.23	0.11	J2	0.095	0.069	J3	0.031	J3	0.073	J3	0.00048	U
Meat	II	C	394.42	0.48	0.33	J3	0.31	0.22	J4	0.085	J4	0.23	J4	0.00046	U
Meat	II	D	524.00	0.52	0.21	J3	0.20	0.13	J4	0.051	J3	0.13	J3	0.00048	U
Meat	II	E	329.02	0.41	0.15	J3	0.14	0.093	J3	0.037	J3	0.098	J3	0.00046	U
Average				0.40	0.19		0.17	0.12		0.046		0.12		0.00047	U
Meat	III	A	338.60	0.31	0.11	J2	0.092	0.064	J3	0.026	J3	0.067	J3	0.00048	U
Meat	III	B	320.53	0.38	0.088	J2	0.071	0.049	J3	0.019	J3	0.052	J3	0.00047	U
Meat	III	C	289.95	0.39	0.12	J2	0.10	0.076	J3	0.029	J3	0.080	J3	0.00046	U
Meat	III	D	288.28	0.30	0.089	J2	0.073	0.049	J3	0.018	J3	0.052	J3	0.00047	U
Meat	III	E	377.33	0.47	0.32	J3	0.31	0.18	J4	0.070	J4	0.19	J4	0.00047	U
Average				0.37	0.14		0.13	0.084		0.032		0.088		0.00047	
Tomalley	II	A	46.59	21	12	J4	12	8.0	J4	2.8	J4	8.3	J4	1.7	J4
Tomalley	II	B	30.42	13	9.3	J4	9.3	6.8	J4	2.6	J4	7.0	J4	1.1	J4
Tomalley	II	C	20.55	9.5	22	J4	22	16	J4	5.5	J4	16	J4	4.4	J4
Tomalley	II	D	32.01	19	25	J4	25	16	J4	5.8	J4	17	J4	3.0	J4
Tomalley	II	E	31.81	24	43	J4	43	26	J4	9.6	J4	27	J4	3.7	J4
Average				17	22	J4	22	15	J4	5.2	J4	15	J4	2.8	J4
Tomalley	III	A	48.72	19	10	J4	10	7.3	J4	2.6	J4	7.6	J4	1.1	J4
Tomalley	III	B	65.59	22	6.1	J4	6.1	4.2	J4	1.4	J4	4.4	J4	0.91	J4
Tomalley	III	C	54.76	9.8	4.5	J4	4.5	3.3	J4	1.0	J4	3.4	J4	0.71	J4
Tomalley	III	D	49.81	20	9.2	J4	9.2	6.4	J4	2.0	J4	6.6	J4	1.4	J4
Tomalley	III	E	52.83	28	25	J4	25	17	J4	5.7	J4	18	J4	3.6	J4
Average				20	11	J4	11	7.7	J4	2.6	J4	8.0	J4	1.5	J4

**Table 2 Calculated PCB Concentration of Combined Lobster Meat and Tomalley
2003**

Location	PCB Conc. in meat ¹ (mg/kg)	wt meat (kg)	PCBs in meat (mg)	PCB Conc. in tomalley ¹ (mg/kg)	wt tomalley (kg)	PCBs in tomalley (mg)	total weight (kg)	sum of PCBs (mg)	total concentration (mg/kg)
Area II - 136 Congeners									
A	0.12	0.37253	0.046327831	12	0.04659	0.543833888	0.41912	0.59	1.4
B	0.11	0.26561	0.02985722	9.3	0.03042	0.284346691	0.29603	0.31	1.1
C	0.33	0.39442	0.128608529	22	0.02055	0.457519446	0.41497	0.59	1.4
D	0.21	0.524	0.11220936	25	0.03201	0.809812027	0.55601	0.92	1.7
E	0.15	0.32902	0.049734663	43	0.03181	1.376650913	0.36083	1.4	4.0
								avg	1.9
Area III - 136 Congeners									
A	0.11	0.3386	0.03668731	10	0.04872	0.507483598	0.38732	0.54	1.4
B	0.088	0.32053	0.028190614	6.1	0.06559	0.401748589	0.38612	0.43	1.1
C	0.12	0.28995	0.034625829	4.5	0.05476	0.249066551	0.34471	0.28	0.82
D	0.089	0.28828	0.02572899	9.2	0.04981	0.460143784	0.33809	0.49	1.4
E	0.32	0.37733	0.119738129	25	0.05283	1.333580822	0.43016	1.5	3.4
								avg	1.6

Location	PCB Conc. in meat ⁶ (mg/kg)	wt meat (kg)	PCBs in meat (mg)	PCB Conc. in tomalley ⁶ (mg/kg)	wt tomalley (kg)	PCBs in tomalley (mg)	total weight (kg)	sum of PCBs (mg)	total concentration (mg/kg)
Area II - 5 Aroclors									
A	0.00048	0.37253	0.000178814	1.7	0.04659	0.079273817	0.41912	0.079	0.19
B	0.00048	0.26561	0.000127493	1.1	0.03042	0.033507022	0.29603	0.034	0.11
C	0.00046	0.39442	0.000181433	4.4	0.02055	0.090450825	0.41497	0.091	0.22
D	0.00048	0.524	0.00025152	3.0	0.03201	0.096076735	0.55601	0.096	0.17
E	0.00046	0.32902	0.000151349	3.7	0.03181	0.117744079	0.36083	0.12	0.33
								avg	0.20
Area III - 5 Aroclors									
A	0.00048	0.3386	0.000162528	1.1	0.04872	0.053664106	0.38732	0.054	0.14
B	0.00047	0.32053	0.000150649	0.91	0.06559	0.059785285	0.38612	0.060	0.16
C	0.00046	0.28995	0.000133377	0.71	0.05476	0.038962835	0.34471	0.039	0.11
D	0.00047	0.28828	0.000135492	1.4	0.04981	0.0698127	0.33809	0.070	0.21
E	0.00047	0.37733	0.000177345	3.6	0.05283	0.190267245	0.43016	0.19	0.44
								avg	0.21

Table 3 Summary of Sample Data for Blue Crab 2003

Parameter	Lipids		Total PCB Congeners ¹		Total PCB Congeners Hits ²		Total NOAA Congeners ³		Total WHO Congeners ⁴		Total NOAA and WHO Combined ⁵		Total Aroclors ⁶	
Units	Percent		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Area I														
Station														
Station A	0.78		12	J4	12		6.1	J4	1.2	J4	6.2	J4	0.47	J4
Station B	0.67		7.8	J4	7.8		4.4	J4	1.2	J4	4.6	J4	0.40	J4
Station C	0.15		1.4	J4	1.4		0.77	J4	0.22	J4	0.79	J4	0.050	J3
Station D	0.17		0.67	J3	0.65		0.40	J4	0.12	J4	0.41	J4	0.036	J3
Station E	0.66		3.1	J4	3.0		1.9	J4	0.72	J4	2.0	J4	0.24	J4
Average	0.49		5.0		5.0		2.7	J4	0.70	J4	2.8	J4	0.24	

Table 4 Summary of Sample Data for Fish 2003

		Parameter	Lipids		Total PCB Congeners ¹		Total PCB Congeners Hits ²		Total NOAA Congeners ³		Total WHO Congeners ⁴		Total NOAA and WHO Combined ⁵		Total Aroclors ⁶				
			Units	Percent	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		
Species	Area	Station																	
Black Sea Bass	III	Station A	1.1		0.14	J2		0.12		0.075	J3		0.023	J3		0.079	J3	0.00047	U
Scup	II	Station A	0.82		0.24	J3		0.23		0.14	J4		0.033	J3		0.14	J3	0.045	J3
Scup	II	Station B	1.5		1.1	J4		1.1		0.70	J4		0.21	J4		0.72	J4	0.16	J4
Scup	II	Station C	1.3		0.59	J3		0.59		0.33	J4		0.089	J4		0.34	J4	0.065	J3
Scup	II	Station D	0.98		1.2	J4		1.2		0.79	J4		0.25	J4		0.81	J4	0.15	J4
Scup	II	Station E	0.96		0.73	J3		0.72		0.42	J4		0.12	J4		0.43	J4	0.065	J3
		Average	1.1		0.78			0.77		0.47	J4		0.14			0.49		0.10	
Scup	III	Station A	0.85		0.19	J3		0.18		0.12	J4		0.031	J3		0.12	J3	0.042	J3
Scup	III	Station B	0.74		0.15	J3		0.14		0.094	J3		0.024	J3		0.098	J3	0.035	J3
Scup	III	Station C	0.89		0.22	J3		0.20		0.14	J4		0.037	J3		0.14	J3	0.042	J3
Scup	III	Station D	1.1		0.30	J3		0.29		0.18	J4		0.047	J3		0.19	J3	0.047	J3
Scup	III	Station E	1.0		0.42	J3		0.41		0.26	J4		0.071	J3		0.27	J4	0.077	J3
		Average	0.92		0.26	J3		0.25		0.16			0.042	J3		0.16		0.049	J3
Summer Flounder	III	Station A	0.45		0.11	J2		0.097		0.056	J3		0.015	J2		0.059	J3	0.019	J3
Winter Flounder	I	Station A	0.94		1.8	J4		1.8		0.82	J4		0.19	J4		0.84	J4	0.10	J4
Winter Flounder	I	Station B	0.37		3.9	J4		3.9		1.7	J4		0.27	J4		1.7	J4	0.12	J4
		Average	0.66		2.9	J4		2.8		1.3	J4		0.23	J4		1.3	J4	0.11	J4
Winter Flounder	III	Station A	0.79		0.62	J3		0.61		0.35	J4		0.11	J4		0.37	J4	0.091	J3

Table 5 Summary of Sample Data for Quahog 2003

	Parameter	Lipids		Total PCB Congeners ¹		Total PCB Congeners Hits ²		Total NOAA Congeners ³		Total WHO Congeners ⁴		Total NOAA / WHO Combined ⁵		Total Aroclors ⁶	
	Units	Percent		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Area	Station														
I	Station A	0.10	U	0.73	J4	0.73		0.31	J4	0.035	J3	0.32	J4	0.64	J4
I	Station B	0.22		1.1	J4	1.1		0.47	J4	0.054	J3	0.48	J4	0.99	J4
I	Station C	0.30		1.5	J4	1.5		0.63	J4	0.081	J4	0.65	J4	1.4	J4
I	Station D	0.26		1.7	J4	1.7		0.71	J4	0.088	J4	0.73	J4	1.4	J4
I	Station E	0.24		2.9	J4	2.9		1.2	J4	0.12	J4	1.2	J4	2.5	J4
	Average	0.22		1.6	J4	1.6		0.66	J4	0.075		0.68	J4	1.4	J4
II	Station A	0.16		0.091	J2	0.079		0.037	J3	0.0089	J2	0.040	J3	0.085	J4
II	Station B	0.10	U	0.051	J2	0.036		0.018	J3	0.0049	J2	0.020	J2	0.047	J3
II	Station C	0.22		0.26	J3	0.26		0.11	J4	0.018	J3	0.12	J3	0.29	J4
II	Station D	0.22		0.89	J4	0.88		0.38	J4	0.057	J3	0.39	J4	0.91	J4
II	Station E	0.10	U	0.13	J3	0.12		0.053	J3	0.0082	J2	0.055	J3	0.11	J4
	Average	0.16		0.28		0.27		0.12		0.019		0.12		0.29	
III	Station A	0.14		0.044	J2	0.028		0.014	J3	0.0039	J2	0.016	J2	0.034	J3
III	Station B	0.17		0.050	J2	0.034		0.017	J3	0.0049	J2	0.019	J2	0.040	J3
III	Station C	0.10	U	0.045	J2	0.028		0.014	J3	0.0043	J2	0.016	J2	0.034	J3
III	Station D	0.10	U	0.039	J2	0.023		0.012	J3	0.0040	J2	0.014	J2	0.027	J3
III	Station E	0.24		0.078	J2	0.065		0.030	J3	0.0074	J2	0.033	J3	0.11	J4
	Average	0.15		0.051	J2	0.036		0.017	J3	0.0049	J2	0.019		0.048	

Appendices

Appendix A Laboratory Data

Appendix B Data Validation Summary, MassDEP, NBH Seafood Contaminant Survey
Monitoring 2003 Sampling

Appendix C Seafood Monitoring - Field Sampling Activities for the NBH Superfund Site
2003 Annual Report

Appendix A Laboratory Data

Table 1A Sample Data for Lobster Meat Area I & II
Table 1 B Sample Data for Lobster Tomalley Area I & II
Table 1 C Sample Data for Lobster Meat Area III
Table 1 D Sample Data for Lobster Tomalley Area III
Table 2 Sample Data for Blue Crab
Table 3A Sample Data for Scup Area II
Table 3B Sample Data for Scup Area III
Table 4 Sample Data for Flounder and Black Sea Bass Areas I and III
Table 5A Sample Data for Quahog Area I
Table 5B Sample Data for Quahog Area II
Table 5C Sample Data for Quahog Area III

Notes and Footnotes for Tables:

¹ = summation of 136 PCB congener results (1/2 Sample Quantitation Limit [SQL] used for non-detected results)

² = summation of detected 136 PCB congeners

³ = summation of 18 NOAA PCB congener results (1/2 SQL used for non-detected results)

⁴ = summation of 12 WHO PCB congener results (1/2 SQL used for non-detected results)

⁵ = summation of 18 NOAA & 12 WHO PCB congener results (1/2 SQL used for non-detected results); duplicative congeners (BZ# 105, #118, #167/128) subtracted from total for one data set

⁶ = summation of 5 Aroclor results (1/2 SQL used for non-detected results); if all Aroclor results are not detected, then total value represents SQL for each individual Aroclor

U = not detected; value represents SQL

J = estimated value

UJ = not detect; estimated value

J1 = concentration of detected congeners contributes < 50% of total congener result

J2 = concentration of detected congeners contributes 50% to 90% of total congener result

J3 = concentration of detected congeners contributes 90% to 99% of total congener result

J4 = concentration of detected congeners contributes > 99% of total congener result

Results reported in milligrams per kilogram (mg/kg) wet weight, unless otherwise noted.
PCB Congeners and Aroclors analyzed by GC/MS-SIM.

Table 1A Sample Data for Lobster Meat (mg/kg wet weight) Area II 2003

Parameter	Sample# Species Area Station Weight (grams) Units	NBH03-L-A-2 Lobster / Meat II Station A 5.26	NBH03-L-B-2 Lobster / Meat II Station B 5.22	NBH03-L-C-2 Lobster / Meat II Station C 5.4	NBH03-L-D-2 Lobster / Meat II Station D 5.23	NBH03-L-E-2 Lobster / Meat II Station E 5.41
Lipids	PERCENT	0.38	0.23	0.48	0.52	0.41
Total PCB Congeners ¹	MG/KG	0.12 J2	0.11 J2	0.33 J3	0.21 J3	0.15 J3
Total PCB Congeners Hits ²	MG/KG	0.11	0.095	0.31	0.20	0.14
Total NOAA Congeners ³	MG/KG	0.073 J4	0.069 J3	0.22 J4	0.13 J4	0.093 J3
Total WHO Congeners ⁴	MG/KG	0.029 J3	0.031 J3	0.085 J4	0.051 J3	0.037 J3
Total NOAA / WHO Combined ⁵	MG/KG	0.076 J3	0.073 J3	0.23 J4	0.13 J3	0.098 J3
Total Aroclors ⁶	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C1-BZ#1	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C1-BZ#3	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C2-BZ#4/#10	MG/KG	0.00095 U	0.00096 U	0.00093 U	0.00096 U	0.00092 U
C2-BZ#5/#8	MG/KG	0.00024 J	0.00015 J	0.0002 J	0.00032 J	0.00092 U
C2-BZ#6	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00011 J	0.00046 U
C2-BZ#7	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C2-BZ#12/#13	MG/KG	0.00095 U	0.00046 J	0.00014 J	0.00017 J	0.00092 U
C2-BZ#15	MG/KG	0.00027 J	0.00015 J	0.00027 J	0.00052	0.00012 J
C3-BZ#16/#32	MG/KG	0.00045 J	0.00042 J	0.00084 J	0.0012	0.0003 J
C3-BZ#17	MG/KG	0.00013 J	0.00018 J	0.0002 J	0.00044 J	0.00009 J
C3-BZ#18	MG/KG	0.00015 J	0.00013 J	0.00035 J	0.00074	0.00018 J
C3-BZ#19	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C3-BZ#21/#33	MG/KG	0.00012 J	0.00096 U	0.00021 J	0.00021 J	0.00011 J
C3-BZ#22	MG/KG	0.00021 J	0.00048 U	0.00023 J	0.0004 J	0.00017 J
C3-BZ#24/#27	MG/KG	0.00095 U	0.00096 U	0.00093 U	0.00021 J	0.00092 U
C3-BZ#25	MG/KG	0.00048 U	0.00048 U	0.00019 J	0.00039 J	0.00013 J
C3-BZ#26	MG/KG	0.00029 J	0.0002 J	0.00068	0.00083	0.0004 J
C3-BZ#28/#31	MG/KG	0.0039	0.0037	0.0082	0.011	0.0034
C3-BZ#29	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C3-BZ#37	MG/KG	0.00038 J	0.00031 J	0.00058	0.00072	0.00013 J
C4-BZ#40	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C4-BZ#41/#71	MG/KG	0.00047 J	0.00016 J	0.00081 J	0.0013	0.00078 J
C4-BZ#42	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00026 J	0.00046 U
C4-BZ#43/#49	MG/KG	0.00032 J	0.00017 J	0.0006 J	0.0013	0.00083 J
C4-BZ#44	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00023 J	0.00046 U
C4-BZ#45	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C4-BZ#46	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C4-BZ#47/#48	MG/KG	0.0028	0.0026	0.0054	0.006	0.003
C4-BZ#50	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C4-BZ#51	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C4-BZ#52	MG/KG	0.001	0.00036 J	0.0018	0.002	0.00097
C4-BZ#53	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00012 J	0.00046 U
C4-BZ#54	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C4-BZ#56/#60	MG/KG	0.00051 J	0.00056 J	0.0014	0.0014	0.00069 J
C4-BZ#63	MG/KG	0.00027 J	0.00028 J	0.00082	0.00051	0.0004 J
C4-BZ#64	MG/KG	0.00043 J	0.00038 J	0.001	0.0012	0.0003 J
C4-BZ#66	MG/KG	0.0043	0.0044	0.0099	0.0076	0.0049
C4-BZ#70	MG/KG	0.00036 J	0.00024 J	0.00083	0.001	0.00043 J
C4-BZ#74	MG/KG	0.0032	0.0032	0.0074	0.0071	0.0049
C4-BZ#76	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C4-BZ#77	MG/KG	0.00065	0.0005	0.0013	0.00096	0.00036 J
C4-BZ#81	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C5-BZ#82	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C5-BZ#83	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00022 J	0.00046 U
C5-BZ#85	MG/KG	0.0013	0.00097	0.0034	0.0024	0.0014
C5-BZ#87	MG/KG	0.00084	0.00074	0.0025	0.0015	0.0012
C5-BZ#89	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C5-BZ#91	MG/KG	0.00014 J	0.00048 U	0.00046 U	0.00039 J	0.00015 J
C5-BZ#92	MG/KG	0.00096	0.00024 J	0.0014	0.0015	0.00059
C5-BZ#95	MG/KG	0.00034 J	0.00016 J	0.00028 J	0.00054	0.00025 J
C5-BZ#97	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.0001 J
C5-BZ#99	MG/KG	0.0077	0.0052	0.019	0.014	0.0099
C5-BZ#100	MG/KG	0.00048 U	0.00048 U	0.00023 J	0.00022 J	0.00018 J
C5-BZ#101/#84	MG/KG	0.0021	0.00088 J	0.0064	0.004	0.0039
C5-BZ#104	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C5-BZ#105	MG/KG	0.0032	0.0029	0.0096	0.0058	0.0037
C5-BZ#107	MG/KG	0.0011	0.00078	0.004	0.0015	0.0015
C5-BZ#110	MG/KG	0.0014	0.00033 J	0.0023	0.0037	0.0015
C5-BZ#114	MG/KG	0.00048 U	0.00048 U	0.00051	0.00028 J	0.00019 J
C5-BZ#118	MG/KG	0.018	0.021	0.054	0.034	0.025

Table 1A Sample Data for Lobster Meat (mg/kg wet weight) Area II 2003

	Sample#	NBH03-L-A-2	NBH03-L-B-2	NBH03-L-C-2	NBH03-L-D-2	NBH03-L-E-2
C15-BZ#119	MG/KG	0.00038 J	0.00024 J	0.001	0.00092	0.00071
C15-BZ#123	MG/KG	0.00039 J	0.00032 J	0.00089	0.00065	0.0005
C15-BZ#124	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00013 J	0.00046 U
C15-BZ#126	MG/KG	0.00048 U	0.00048 U	0.00033 J	0.00048 U	0.00046 U
C16-BZ#129	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C16-BZ#130	MG/KG	0.00038 J	0.00048 U	0.0012	0.00078	0.00042 J
C16-BZ#131	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C16-BZ#132/#168	MG/KG	0.00095 U	0.00096 U	0.00093 U	0.00096 U	0.00092 U
C16-BZ#134	MG/KG	0.00048 U	0.00048 U	0.00093	0.00063	0.00046 U
C16-BZ#135/#144	MG/KG	0.00029 J	0.00096 U	0.00033 J	0.00046 J	0.0002 J
C16-BZ#136	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C16-BZ#137	MG/KG	0.00067	0.00056	0.0019	0.0011	0.00089
C16-BZ#138/#163	MG/KG	0.012	0.009	0.033	0.019	0.013
C16-BZ#141	MG/KG	0.00048 U	0.00048 U	0.00018 J	0.00048 U	0.00018 J
C16-BZ#146	MG/KG	0.0034	0.003	0.012	0.0051	0.0041
C16-BZ#147	MG/KG	0.00079	0.00039 J	0.0014	0.0011	0.00079
C16-BZ#149	MG/KG	0.00089	0.00017 J	0.0011	0.0019	0.00089
C16-BZ#151	MG/KG	0.00037 J	0.00048 U	0.00035 J	0.00063	0.00037 J
C16-BZ#153	MG/KG	0.018	0.019	0.068	0.03	0.027
C16-BZ#154	MG/KG	0.00048 U	0.00048 U	0.00019 J	0.00024 J	0.00026 J
C16-BZ#155	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C16-BZ#156	MG/KG	0.0013	0.0013	0.0052	0.0023	0.0017
C16-BZ#157	MG/KG	0.00037 J	0.00038 J	0.0014	0.00055	0.00048
C16-BZ#158	MG/KG	0.00094	0.00065	0.0024	0.0018	0.0011
C16-BZ#167/#128	MG/KG	0.0035	0.0029	0.011	0.0055	0.0041
C16-BZ#169	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C17-BZ#170/#190	MG/KG	0.0012	0.00081 J	0.0042	0.0017	0.0013
C17-BZ#171	MG/KG	0.00029 J	0.00017 J	0.00071	0.00051	0.00033 J
C17-BZ#172	MG/KG	0.00024 J	0.00026 J	0.00052	0.00043 J	0.00017 J
C17-BZ#173	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C17-BZ#174	MG/KG	0.00016 J	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C17-BZ#175	MG/KG	0.00048 U	0.00048 U	0.0002 J	0.00048 U	0.00046 U
C17-BZ#176	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C17-BZ#177	MG/KG	0.00043 J	0.00025 J	0.00074	0.00063	0.00028 J
C17-BZ#178	MG/KG	0.00045 J	0.00036 J	0.00096	0.00052	0.00039 J
C17-BZ#180	MG/KG	0.0019	0.0015	0.0075	0.0029	0.0023
C17-BZ#182/#187	MG/KG	0.0024	0.0016	0.0064	0.0031	0.0025
C17-BZ#183	MG/KG	0.00047 J	0.00038 J	0.0013	0.00076	0.00061
C17-BZ#184	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C17-BZ#185	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C17-BZ#188	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C17-BZ#189	MG/KG	0.00015 J	0.00048 U	0.00031 J	0.00048 U	0.00046 U
C17-BZ#191	MG/KG	0.00048 U	0.00048 U	0.00021 J	0.00048 U	0.00046 U
C17-BZ#193	MG/KG	0.00013 J	0.00014 J	0.00056	0.00027 J	0.00018 J
C18-BZ#194	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C18-BZ#195	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C18-BZ#196/203	MG/KG	0.00095 U	0.00096 U	0.00093 U	0.00096 U	0.00092 U
C18-BZ#197	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C18-BZ#199	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C18-BZ#200	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C18-BZ#201	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C18-BZ#202	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C18-BZ#205	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C19-BZ#206	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C19-BZ#207	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
C19-BZ#208	MG/KG	0.00048 U	0.00048 U	0.00025 J	0.00048 U	0.00046 U
C10-BZ#209	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
Aroclor-1232	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
Aroclor-1242	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
Aroclor-1248	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
Aroclor-1254	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U
Aroclor-1260	MG/KG	0.00048 U	0.00048 U	0.00046 U	0.00048 U	0.00046 U

Table 1B Sample Data for Lobster Tomalley (mg/kg wet weight) Area II 2003

Parameter	Sample# Species Area Station Weight (grams) Units	NBH03-L-A-2 Lobster / Tomalley II Station A 3.31		NBH03-L-B-2 Lobster / Tomalley II Station B 3.36		NBH03-L-C-2 Lobster / Tomalley II Station C 3.34		NBH03-L-D-2 Lobster / Tomalley II Station D 3.44		NBH03-L-E-2 Lobster / Tomalley II Station E 3.38	
Lipids	PERCENT	21		13		9.5		19		24	
Total PCB Congeners ¹	MG/KG	12 J4		9.3 J4		22 J4		25 J4		43 J4	
Total PCB Congeners Hits ²	MG/KG	12		9.3		22		25		43	
Total NOAA Congeners ³	MG/KG	8.0 J4		6.8 J4		16 J4		16 J4		26 J4	
Total WHO Congeners ⁴	MG/KG	2.8 J4		2.6 J4		5.5 J4		5.8 J4		9.6 J4	
Total NOAA / WHO Combined ⁵	MG/KG	8.3 J4		7.0 J4		16 J4		17 J4		27 J4	
Total Aroclors ⁶	MG/KG	1.7 J4		1.1 J4		4.4 J4		3.0 J4		3.7 J4	
C1-BZ#1	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C1-BZ#3	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C12-BZ#4/#10	MG/KG	0.0014 J		0.0016		0.002		0.007		0.028	
C12-BZ#5/#8	MG/KG	0.0088		0.0059		0.0064		0.025		0.078	
C12-BZ#6	MG/KG	0.002		0.001		0.0018		0.0075		0.032	
C12-BZ#7	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C12-BZ#12/#13	MG/KG	0.0044		0.0047		0.0047		0.017		0.063	
C12-BZ#15	MG/KG	0.014		0.013		0.014		0.053		0.12	
C13-BZ#16/#32	MG/KG	0.026		0.024		0.033		0.11		0.29	
C13-BZ#17	MG/KG	0.0055		0.0051		0.0084		0.036		0.12	
C13-BZ#18	MG/KG	0.0071		0.0071		0.014		0.056		0.2	
C13-BZ#19	MG/KG	0.00035 J		0.00031 J		0.00043 J		0.0019		0.0064	
C13-BZ#21/#33	MG/KG	0.0058		0.0053		0.0094		0.016		0.039	
C13-BZ#22	MG/KG	0.009		0.0055		0.011		0.034		0.11	
C13-BZ#24/#27	MG/KG	0.0012 J		0.00094 J		0.0018		0.011		0.03	
C13-BZ#25	MG/KG	0.0042		0.0035		0.0069		0.036		0.13	
C13-BZ#26	MG/KG	0.016		0.012		0.028		0.072		0.29	
C13-BZ#28/#31	MG/KG	0.35		0.35		0.52		1.2		2.8	
C13-BZ#29	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00092	
C13-BZ#37	MG/KG	0.025		0.025		0.029		0.08		0.14	
C14-BZ#40	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C14-BZ#41/#71	MG/KG	0.033		0.012		0.048		0.16		0.44	
C14-BZ#42	MG/KG	0.001		0.00065 J		0.0013		0.012		0.024	
C14-BZ#43/#49	MG/KG	0.022		0.011		0.027		0.14		0.38	
C14-BZ#44	MG/KG	0.0023		0.0017		0.0044		0.015		0.048	
C14-BZ#45	MG/KG	0.00042 J		0.00036 J		0.00079		0.003		0.0085	
C14-BZ#46	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C14-BZ#47/#48	MG/KG	0.27		0.24		0.36		0.74		1.5	
C14-BZ#50	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00023 J		0.00047 J	
C14-BZ#51	MG/KG	0.0011		0.00086		0.0014		0.005		0.015	
C14-BZ#52	MG/KG	0.078		0.032		0.097		0.22		0.57	
C14-BZ#53	MG/KG	0.00076		0.00042 J		0.00087		0.0065		0.017	
C14-BZ#54	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C14-BZ#56/#60	MG/KG	0.052		0.046		0.095		0.16		0.37	
C14-BZ#63	MG/KG	0.025		0.019		0.054		0.057		0.13	
C14-BZ#64	MG/KG	0.032		0.028		0.056		0.11		0.29	
C14-BZ#66	MG/KG	0.43		0.42		0.58		0.87		1.6	
C14-BZ#70	MG/KG	0.037		0.01		0.044		0.1		0.23	
C14-BZ#74	MG/KG	0.26		0.26		0.5		0.62		1.4	
C14-BZ#76	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C14-BZ#77	MG/KG	0.052		0.051		0.087		0.12		0.23	
C14-BZ#81	MG/KG	0.002		0.0019		0.0029		0.005		0.0097	
C15-BZ#82	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.0087	
C15-BZ#83	MG/KG	0.0048		0.00083		0.0027		0.02		0.027	
C15-BZ#85	MG/KG	0.13		0.092		0.23		0.3		0.41	
C15-BZ#87	MG/KG	0.083		0.068		0.18		0.2		0.36	
C15-BZ#89	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C15-BZ#91	MG/KG	0.0057		0.0012		0.0032		0.035		0.063	
C15-BZ#92	MG/KG	0.079		0.02		0.091		0.19		0.34	
C15-BZ#95	MG/KG	0.0087		0.0029		0.0074		0.035		0.073	
C15-BZ#97	MG/KG	0.0018		0.005		0.0013		0.011		0.02	
C15-BZ#99	MG/KG	0.82		0.54		1.3		1.8		3.4	
C15-BZ#100	MG/KG	0.0065		0.0036		0.009		0.019		0.04	
C15-BZ#101/#84	MG/KG	0.22		0.083		0.43		0.54		1.2	
C15-BZ#104	MG/KG	0.00076 U		0.00074 U		0.00075 U		0.00073 U		0.00074 U	
C15-BZ#105	MG/KG	0.32		0.28		0.58		0.65		1.1	

Table 1B Sample Data for Lobster Tomalley (mg/kg wet weight) Area II 2003

Sample#	NBH03-L-A-2	NBH03-L-B-2	NBH03-L-C-2	NBH03-L-D-2	NBH03-L-E-2
C15-BZ#107	MG/KG 0.12	0.072	0.31	0.23	0.38
C15-BZ#110	MG/KG 0.12 J	0.029 J	0.14 J	0.44 J	0.85 J
C15-BZ#114	MG/KG 0.013	0.013	0.032	0.036	0.073
C15-BZ#118	MG/KG 1.9	1.8	3.3	3.7	6.3
C15-BZ#119	MG/KG 0.038	0.022	0.069	0.12	0.25
C15-BZ#123	MG/KG 0.031	0.03	0.06	0.071	0.15
C15-BZ#124	MG/KG 0.0052	0.0012	0.0067	0.016	0.035
C15-BZ#126	MG/KG 0.0076	0.0084	0.019	0.016	0.029
C16-BZ#129	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00074 U
C16-BZ#130	MG/KG 0.045	0.019	0.095	0.096	0.16
C16-BZ#131	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00074 U
C16-BZ#132/#168	MG/KG 0.0015 U	0.0015 U	0.0015 U	0.02	0.022
C16-BZ#134	MG/KG 0.037	0.03	0.072	0.086	0.11
C16-BZ#135/#144	MG/KG 0.026	0.0057	0.02	0.055	0.09
C16-BZ#136	MG/KG 0.00069 J	0.00018 J	0.00028 J	0.003	0.0051
C16-BZ#137	MG/KG 0.06	0.048	0.13	0.15	0.22
C16-BZ#138/#163	MG/KG 1.4	0.94	2.4	2.6	3.5
C16-BZ#141	MG/KG 0.01	0.002	0.013	0.029	0.059
C16-BZ#146	MG/KG 0.38	0.32	0.9	0.69	0.96
C16-BZ#147	MG/KG 0.045	0.032	0.094	0.11	0.2
C16-BZ#149	MG/KG 0.077 J	0.015 J	0.066 J	0.23 J	0.46 J
C16-BZ#151	MG/KG 0.018	0.0033	0.019	0.064	0.09
C16-BZ#153	MG/KG 2.4	2.2	5.4	4.6	6.4
C16-BZ#154	MG/KG 0.0091	0.0029	0.015	0.034	0.074
C16-BZ#155	MG/KG 0.00024 J	0.00015 J	0.00022 J	0.00038 J	0.00056 J
C16-BZ#156	MG/KG 0.14	0.11	0.39	0.32	0.46
C16-BZ#157	MG/KG 0.036	0.029	0.1	0.072	0.097
C16-BZ#158	MG/KG 0.098	0.066	0.19	0.25	0.4
C16-BZ#167/#128	MG/KG 0.34	0.27	0.86	0.75	1.1
C16-BZ#169	MG/KG 0.00036 J	0.00027 J	0.00069 J	0.00065 J	0.00071 J
C17-BZ#170/#190	MG/KG 0.11	0.069	0.29	0.2	0.24
C17-BZ#171	MG/KG 0.019	0.014	0.045	0.045	0.055
C17-BZ#172	MG/KG 0.016	0.01	0.038	0.033	0.04
C17-BZ#173	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00024 J
C17-BZ#174	MG/KG 0.0074	0.0012	0.0055	0.015	0.021
C17-BZ#175	MG/KG 0.0046	0.0034	0.012	0.0093	0.013
C17-BZ#176	MG/KG 0.00033 J	0.00074 U	0.00075 U	0.00094	0.00098
C17-BZ#177	MG/KG 0.041	0.018	0.049	0.071	0.08
C17-BZ#178	MG/KG 0.032	0.025	0.062	0.061	0.078
C17-BZ#180	MG/KG 0.22	0.15	0.6	0.43	0.53
C17-BZ#182/#187	MG/KG 0.21	0.16	0.54	0.41	0.55
C17-BZ#183	MG/KG 0.043 J	0.03 J	0.1 J	0.096 J	0.13 J
C17-BZ#184	MG/KG 0.00017 J	0.00074 U	0.00025 J	0.00028 J	0.00031 J
C17-BZ#185	MG/KG 0.00063 J	0.00021 J	0.00049 J	0.0011	0.0019
C17-BZ#188	MG/KG 0.0012	0.00085	0.0026	0.0023	0.004
C17-BZ#189	MG/KG 0.007	0.005	0.019	0.014	0.017
C17-BZ#191	MG/KG 0.0049	0.0039	0.013	0.011	0.015
C17-BZ#193	MG/KG 0.017	0.013	0.043	0.034	0.042
C18-BZ#194	MG/KG 0.021	0.013	0.059	0.032	0.04
C18-BZ#195	MG/KG 0.0053	0.003	0.012	0.0078	0.011
C18-BZ#196/203	MG/KG 0.025	0.016	0.059	0.04	0.051
C18-BZ#197	MG/KG 0.0011	0.00085	0.0022	0.0018	0.002
C18-BZ#199	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00037 J
C18-BZ#200	MG/KG 0.0048	0.0035	0.01	0.0072	0.0084
C18-BZ#201	MG/KG 0.027	0.015	0.058	0.041	0.046
C18-BZ#202	MG/KG 0.012	0.0085	0.021	0.018	0.02
C18-BZ#205	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00074 U
C19-BZ#206	MG/KG 0.0089	0.0047	0.015	0.0077	0.0097
C19-BZ#207	MG/KG 0.0014	0.001	0.0024	0.0014	0.0015
C19-BZ#208	MG/KG 0.005	0.0031	0.0072	0.0049	0.0056
C10-BZ#209	MG/KG 0.0038	0.0019	0.0036	0.002	0.0018
Aroclor-1232	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00074 U
Aroclor-1242	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00074 U
Aroclor-1248	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00074 U
Aroclor-1254	MG/KG 0.00076 U	0.00074 U	0.00075 U	0.00073 U	0.00074 U
Aroclor-1260	MG/KG 1.7	1.1	4.4	3	3.7

Table 1C Sample Data for Lobster Meat (mg/kg wet weight) Area III 2003

Parameter	Sample# Species Area Station Weight (grams) Units	NBH03-L-A-3 Lobster / Meat III Station A 5.25		NBH03-L-B-3 Lobster / Meat III Station B 5.34		NBH03-L-C-3 Lobster / Meat III Station C 5.41		NBH03-L-D-3 Lobster / Meat III Station D 5.29		NBH03-L-E-3 Lobster / Meat III Station E 5.27	
Lipids	PERCENT	0.31		0.38		0.39		0.30		0.47	
Total PCB Congeners ¹	MG/KG	0.11	J2	0.088	J2	0.12	J2	0.089	J2	0.32	J3
Total PCB Congeners Hits ²	MG/KG	0.092		0.071		0.10		0.073		0.31	
Total NOAA Congeners ³	MG/KG	0.064	J3	0.049	J3	0.076	J3	0.049	J3	0.18	J4
Total WHO Congeners ⁴	MG/KG	0.026	J3	0.019	J3	0.029	J3	0.018	J3	0.070	J4
Total NOAA / WHO Combined ⁵	MG/KG	0.067	J3	0.052	J3	0.080	J3	0.052	J3	0.19	J4
Total Aroclors ⁶	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C1-BZ#1	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C1-BZ#3	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C2-BZ#4/#10	MG/KG	0.00095	U	0.00094	U	0.00092	U	0.00095	U	0.00048	J
C2-BZ#5/#8	MG/KG	0.00095	U	0.00094	U	0.00092	U	0.00095	U	0.00098	
C2-BZ#6	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00043	J
C2-BZ#7	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C2-BZ#12/#13	MG/KG	0.00095	U	0.00094	U	0.00092	U	0.00095	U	0.0011	
C2-BZ#15	MG/KG	0.0001	J	0.00011	J	0.00046	U	0.00009	J	0.0011	
C3-BZ#16/#32	MG/KG	0.00045	J	0.00027	J	0.00026	J	0.00026	J	0.0029	
C3-BZ#17	MG/KG	0.00012	J	0.00047	U	0.00046	U	0.00047	U	0.0015	
C3-BZ#18	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.0024	
C3-BZ#19	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00028	J
C3-BZ#21/#33	MG/KG	0.00095	U	0.00014	J	0.0001	J	0.00095	U	0.00051	J
C3-BZ#22	MG/KG	0.00017	J	0.00047	U	0.00046	U	0.00047	U	0.0011	
C3-BZ#24/#27	MG/KG	0.00095	U	0.00094	U	0.00092	U	0.00095	U	0.00053	J
C3-BZ#25	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.0014	
C3-BZ#26	MG/KG	0.00014	J	0.00018	J	0.00009	J	0.0002	J	0.0032	
C3-BZ#28/#31	MG/KG	0.0044		0.002		0.0018		0.0017		0.025	
C3-BZ#29	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C3-BZ#37	MG/KG	0.00019	J	0.00021	J	0.0002	J	0.00021	J	0.0012	
C4-BZ#40	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C4-BZ#41/#71	MG/KG	0.00062	J	0.00019	J	0.00028	J	0.00035	J	0.0036	
C4-BZ#42	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.0003	J
C4-BZ#43/#49	MG/KG	0.00027	J	0.00041	J	0.00016	J	0.00043	J	0.0037	
C4-BZ#44	MG/KG	0.00048	U	0.00013	J	0.00046	U	0.00015	J	0.00074	
C4-BZ#45	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00015	J
C4-BZ#46	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C4-BZ#47/#48	MG/KG	0.002		0.0014		0.0014		0.0014		0.011	
C4-BZ#50	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C4-BZ#51	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00017	J
C4-BZ#52	MG/KG	0.00056		0.00068		0.00038	J	0.00062		0.0054	
C4-BZ#53	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00034	J
C4-BZ#54	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C4-BZ#56/#60	MG/KG	0.00072	J	0.00033	J	0.00031	J	0.00039	J	0.0028	
C4-BZ#63	MG/KG	0.00029	J	0.00015	J	0.00025	J	0.0002	J	0.00092	
C4-BZ#64	MG/KG	0.00036	J	0.00026	J	0.00031	J	0.00032	J	0.0023	
C4-BZ#66	MG/KG	0.0034		0.0023		0.0028		0.0022		0.012	
C4-BZ#70	MG/KG	0.00027	J	0.00037	J	0.00023	J	0.00027	J	0.0019	
C4-BZ#74	MG/KG	0.004		0.0017		0.0019		0.0016		0.011	
C4-BZ#76	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C4-BZ#77	MG/KG	0.0005		0.00036	J	0.00041	J	0.00032	J	0.0017	
C4-BZ#81	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C5-BZ#82	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C5-BZ#83	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00031	J
C5-BZ#85	MG/KG	0.00078		0.00087		0.0012		0.00085		0.0028	
C5-BZ#87	MG/KG	0.00069		0.00063		0.00074		0.00075		0.0024	
C5-BZ#89	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C5-BZ#91	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00063	
C5-BZ#92	MG/KG	0.00042	J	0.00052		0.00041	J	0.00043	J	0.0023	
C5-BZ#95	MG/KG	0.00029	J	0.00024	J	0.00027	J	0.00021	J	0.00087	
C5-BZ#97	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00018	J
C5-BZ#99	MG/KG	0.0051		0.0053		0.0048		0.0051		0.023	
C5-BZ#100	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.0003	J
C5-BZ#101/#84	MG/KG	0.0017		0.0018		0.0017		0.0017		0.0077	
C5-BZ#104	MG/KG	0.00048	U	0.00047	U	0.00046	U	0.00047	U	0.00047	U
C5-BZ#105	MG/KG	0.0027		0.0018		0.0026		0.0019		0.0081	

Table 1C Sample Data for Lobster Meat (mg/kg wet weight) Area III 2003

	Sample#	NBH03-L-A-3	NBH03-L-B-3	NBH03-L-C-3	NBH03-L-D-3	NBH03-L-E-3
CI5-BZ#107	MG/KG	0.00097	0.00078	0.0013	0.00086	0.0023
CI5-BZ#110	MG/KG	0.00097	0.00091	0.00058	0.00095	0.0067
CI5-BZ#114	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00048
CI5-BZ#118	MG/KG	0.017	0.012	0.018	0.011	0.048
CI5-BZ#119	MG/KG	0.00036 J	0.00032 J	0.00027 J	0.00029 J	0.0016
CI5-BZ#123	MG/KG	0.00031 J	0.00047 U	0.00031 J	0.00047 U	0.001
CI5-BZ#124	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI5-BZ#126	MG/KG	0.00011 J	0.00047 U	0.00046 U	0.00047 U	0.00024 J
CI6-BZ#129	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI6-BZ#130	MG/KG	0.00034 J	0.00029 J	0.0004 J	0.0003 J	0.00091
CI6-BZ#131	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI6-BZ#132/#168	MG/KG	0.00095 U	0.00094 U	0.00092 U	0.00095 U	0.00095 U
CI6-BZ#134	MG/KG	0.00033 J	0.00047 U	0.00039 J	0.00036 J	0.00084
CI6-BZ#135/#144	MG/KG	0.00013 J	0.00094 U	0.0003 J	0.00021 J	0.00074 J
CI6-BZ#136	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI6-BZ#137	MG/KG	0.00042 J	0.00041 J	0.00055	0.00038 J	0.0014
CI6-BZ#138/#163	MG/KG	0.008	0.0078	0.012	0.0084	0.022
CI6-BZ#141	MG/KG	0.00048 U	0.00018 J	0.00046 U	0.00047 U	0.00042 J
CI6-BZ#146	MG/KG	0.003	0.0023	0.0047	0.0024	0.0059
CI6-BZ#147	MG/KG	0.00053	0.00042 J	0.00063	0.0005	0.0016
CI6-BZ#149	MG/KG	0.00044 J	0.00071	0.00033 J	0.00077	0.0031
CI6-BZ#151	MG/KG	0.00018 J	0.00026 J	0.00014 J	0.00025 J	0.00078
CI6-BZ#153	MG/KG	0.018 J	0.013	0.025	0.014	0.035
CI6-BZ#154	MG/KG	0.00048 U	0.0001 J	0.00046 U	0.00013 J	0.00051
CI6-BZ#155	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI6-BZ#156	MG/KG	0.0011	0.00088	0.0016	0.0009	0.0028
CI6-BZ#157	MG/KG	0.00035 J	0.0003 J	0.00059	0.00035 J	0.00064
CI6-BZ#158	MG/KG	0.00068	0.00054	0.00059	0.0006	0.0024
CI6-BZ#167/#128	MG/KG	0.0026	0.0023	0.0039	0.0024	0.0064
CI6-BZ#169	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI7-BZ#170/#190	MG/KG	0.00068 J	0.00076 J	0.0014	0.00088 J	0.0015
CI7-BZ#171	MG/KG	0.00026 J	0.00019 J	0.0003 J	0.00024 J	0.00036 J
CI7-BZ#172	MG/KG	0.00017 J	0.00023 J	0.00027 J	0.00023 J	0.00034 J
CI7-BZ#173	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI7-BZ#174	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.0002 J	0.00015 J
CI7-BZ#175	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI7-BZ#176	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI7-BZ#177	MG/KG	0.00031 J	0.00032 J	0.00049	0.00032 J	0.00056
CI7-BZ#178	MG/KG	0.00034 J	0.0003 J	0.00053	0.00034 J	0.00066
CI7-BZ#180	MG/KG	0.0014	0.0014	0.0022	0.0015	0.003
CI7-BZ#182/#187	MG/KG	0.0018	0.0015	0.0027	0.0015	0.0033
CI7-BZ#183	MG/KG	0.00039 J	0.00035 J	0.00051	0.0004 J	0.00081
CI7-BZ#184	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI7-BZ#185	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI7-BZ#188	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI7-BZ#189	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00013 J
CI7-BZ#191	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00011 J
CI7-BZ#193	MG/KG	0.00017 J	0.00013 J	0.00028 J	0.00022 J	0.00029 J
CI8-BZ#194	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI8-BZ#195	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI8-BZ#196/203	MG/KG	0.00095 U	0.00094 U	0.00092 U	0.00095 U	0.00095 U
CI8-BZ#197	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI8-BZ#199	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI8-BZ#200	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI8-BZ#201	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI8-BZ#202	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI8-BZ#205	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI9-BZ#206	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI9-BZ#207	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI9-BZ#208	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
CI10-BZ#209	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
Aroclor-1232	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
Aroclor-1242	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
Aroclor-1248	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
Aroclor-1254	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U
Aroclor-1260	MG/KG	0.00048 U	0.00047 U	0.00046 U	0.00047 U	0.00047 U

Table 1D Sample Data for Lobster Tomalley (mg/kg wet weight) Area III 2003

Parameter	Sample# Species Area Station Weight (grams) Units	NBH03-L-A-3	NBH03-L-B-3	NBH03-L-C-3	NBH03-L-D-3	NBH03-L-E-3
		Lobster / Tomalley III Station A 3.38	Lobster / Tomalley III Station B 3.35	Lobster / Tomalley III Station C 3.28	Lobster / Tomalley III Station D 3.18	Lobster / Tomalley III Station E 3.33
Lipids	PERCENT	19	22	9.8	20	28
Total PCB Congeners ¹	MG/KG	10 J4	6.1 J4	4.5 J4	9.2 J4	25 J4
Total PCB Congeners Hits ²	MG/KG	10	6.1	4.5	9.2	25
Total NOAA Congeners ³	MG/KG	7.3 J4	4.2 J4	3.3 J4	6.4 J4	17 J4
Total WHO Congeners ⁴	MG/KG	2.6 J4	1.4 J4	1.0 J4	2.0 J4	5.7 J4
Total NOAA / WHO Combined ⁵	MG/KG	7.6 J4	4.4 J4	3.4 J4	6.6 J4	18 J4
Total Aroclors ⁶	MG/KG	1.1 J4	0.91 J4	0.71 J4	1.4 J4	3.6 J4
C11-BZ#1	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C11-BZ#3	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C12-BZ#4/#10	MG/KG	0.0012 J	0.00082 J	0.00041 J	0.00079 J	0.0021
C12-BZ#5/#8	MG/KG	0.0065	0.0035	0.0019	0.0031	0.0071
C12-BZ#6	MG/KG	0.0013	0.0011	0.00069 J	0.00094	0.0025
C12-BZ#7	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C12-BZ#12/#13	MG/KG	0.0034	0.0016	0.00099 J	0.0012 J	0.0036
C12-BZ#15	MG/KG	0.0084	0.0045	0.0024	0.0037	0.0078
C13-BZ#16/#32	MG/KG	0.033	0.012	0.0075	0.014	0.036
C13-BZ#17	MG/KG	0.0053	0.0034	0.0018	0.0043	0.0099
C13-BZ#18	MG/KG	0.0064	0.0047	0.0021	0.006	0.017
C13-BZ#19	MG/KG	0.0003 J	0.00019 J	0.00076 U	0.00079 U	0.00074 J
C13-BZ#21/#33	MG/KG	0.0033	0.0028	0.0015 J	0.0027	0.0071
C13-BZ#22	MG/KG	0.0099	0.0026	0.0018	0.0044	0.012
C13-BZ#24/#27	MG/KG	0.00096 J	0.00093 J	0.00032 J	0.00099 J	0.0031
C13-BZ#25	MG/KG	0.0032	0.0024	0.0012	0.003	0.012
C13-BZ#26	MG/KG	0.01	0.0087	0.0052	0.012	0.036
C13-BZ#28/#31	MG/KG	0.52	0.13	0.083	0.17	0.53
C13-BZ#29	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C13-BZ#37	MG/KG	0.015	0.008	0.0042	0.0076	0.015
C14-BZ#40	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C14-BZ#41/#71	MG/KG	0.075	0.019	0.011	0.038	0.12
C14-BZ#42	MG/KG	0.00083	0.00093	0.00037 J	0.00088	0.0042
C14-BZ#43/#49	MG/KG	0.02	0.027	0.0071	0.031	0.12
C14-BZ#44	MG/KG	0.0025	0.0022	0.00067 J	0.0023	0.007
C14-BZ#45	MG/KG	0.0005 J	0.00039 J	0.00076 U	0.00057 J	0.0013
C14-BZ#46	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C14-BZ#47/#48	MG/KG	0.21	0.094	0.053	0.14	0.55
C14-BZ#50	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C14-BZ#51	MG/KG	0.0013	0.00099	0.00062 J	0.00099	0.0033
C14-BZ#52	MG/KG	0.044	0.044	0.023	0.062	0.17
C14-BZ#53	MG/KG	0.00061 J	0.001	0.00034 J	0.0009	0.0032
C14-BZ#54	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C14-BZ#56/#60	MG/KG	0.07	0.02	0.016	0.033	0.13
C14-BZ#63	MG/KG	0.035	0.01	0.0087	0.016	0.072
C14-BZ#64	MG/KG	0.031	0.017	0.01	0.023	0.071
C14-BZ#66	MG/KG	0.36	0.17	0.1	0.24	0.94 J
C14-BZ#70	MG/KG	0.018	0.022	0.013	0.028	0.064
C14-BZ#74	MG/KG	0.35	0.1	0.075	0.16	0.66 J
C14-BZ#76	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C14-BZ#77	MG/KG	0.042	0.02	0.016	0.028	0.072
C14-BZ#81	MG/KG	0.0023	0.00079	0.00056 J	0.001	0.0033
C15-BZ#82	MG/KG	0.0013	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C15-BZ#83	MG/KG	0.0024	0.0037	0.00095	0.0035	0.0073
C15-BZ#85	MG/KG	0.077	0.055	0.038	0.082	0.26
C15-BZ#87	MG/KG	0.085	0.042	0.032	0.057	0.22
C15-BZ#89	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C15-BZ#91	MG/KG	0.0035	0.0052	0.002	0.0069	0.02
C15-BZ#92	MG/KG	0.049	0.04	0.019	0.048	0.097
C15-BZ#95	MG/KG	0.0058	0.0084	0.0023	0.0073	0.019
C15-BZ#97	MG/KG	0.0014	0.0025	0.00044 J	0.0019	0.0065
C15-BZ#99	MG/KG	0.57	0.43	0.2	0.62	1.8
C15-BZ#100	MG/KG	0.0047	0.0034	0.0015	0.0052	0.02
C15-BZ#101/#84	MG/KG	0.22	0.14	0.11	0.24	0.82
C15-BZ#104	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C15-BZ#105	MG/KG	0.3	0.15	0.11	0.21	0.58

Table 1D Sample Data for Lobster Tomalley (mg/kg wet weight) Area III 2003

Sample#	NBH03-L-A-3	NBH03-L-B-3	NBH03-L-C-3	NBH03-L-D-3	NBH03-L-E-3	
C15-BZ#107	MG/KG	0.11	0.069	0.059	0.11	0.32
C15-BZ#110	MG/KG	0.11 J	0.064 J	0.024 J	0.12 J	0.26 J
C15-BZ#114	MG/KG	0.017	0.0059	0.0054	0.0091	0.041
C15-BZ#118	MG/KG	1.8	0.93	0.65	1.3	3.6
C15-BZ#119	MG/KG	0.028	0.024	0.0091	0.034	0.13
C15-BZ#123	MG/KG	0.033	0.015	0.012	0.022	0.085
C15-BZ#124	MG/KG	0.0039	0.0031	0.0021	0.0042	0.0094
C15-BZ#126	MG/KG	0.0083	0.0038	0.0039	0.0065	0.018
C16-BZ#129	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C16-BZ#130	MG/KG	0.033	0.026	0.019	0.034	0.078
C16-BZ#131	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C16-BZ#132/#168	MG/KG	0.0015 U	0.0015 U	0.0015 U	0.0016 U	0.0015 U
C16-BZ#134	MG/KG	0.026	0.02	0.016	0.028	0.054
C16-BZ#135/#144	MG/KG	0.012	0.013	0.0063	0.015	0.027
C16-BZ#136	MG/KG	0.00034 J	0.00093	0.002	0.00064 J	0.0014
C16-BZ#137	MG/KG	0.045	0.027	0.019	0.04	0.15
C16-BZ#138/#163	MG/KG	0.98	0.76	0.53	1.1	2.5
C16-BZ#141	MG/KG	0.0066	0.0069	0.002	0.0071	0.018
C16-BZ#146	MG/KG	0.35	0.22	0.21	0.36	0.82
C16-BZ#147	MG/KG	0.041	0.021	0.019	0.033	0.12
C16-BZ#149	MG/KG	0.044 J	0.051 J	0.023 J	0.073 J	0.15 J
C16-BZ#151	MG/KG	0.015	0.02	0.0068	0.018	0.048
C16-BZ#153	MG/KG	2.4	1.4	1.3	2.3	5.8
C16-BZ#154	MG/KG	0.0076	0.0086	0.0024	0.012	0.043
C16-BZ#155	MG/KG	0.00025 J	0.00025 J	0.00076 U	0.00079 U	0.0005 J
C16-BZ#156	MG/KG	0.12	0.072	0.06	0.11	0.36
C16-BZ#157	MG/KG	0.03	0.02	0.018	0.032	0.088
C16-BZ#158	MG/KG	0.083	0.048	0.026	0.075	0.25
C16-BZ#167/#128	MG/KG	0.29	0.2	0.16	0.3	0.85
C16-BZ#169	MG/KG	0.00025 J	0.00075 U	0.00023 J	0.0003 J	0.00062 J
C17-BZ#170/#190	MG/KG	0.07	0.057	0.043	0.088	0.24
C17-BZ#171	MG/KG	0.015	0.012	0.0086	0.021	0.052
C17-BZ#172	MG/KG	0.011	0.0086	0.0064	0.013	0.027
C17-BZ#173	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C17-BZ#174	MG/KG	0.0025	0.0035	0.0011	0.003	0.0067
C17-BZ#175	MG/KG	0.0039	0.0027	0.0024	0.0044	0.011
C17-BZ#176	MG/KG	0.00025 J	0.00049 J	0.00017 J	0.0002 J	0.00066 J
C17-BZ#177	MG/KG	0.02	0.02	0.017	0.026	0.047
C17-BZ#178	MG/KG	0.022	0.017	0.016	0.027	0.051
C17-BZ#180	MG/KG	0.16	0.12	0.099	0.19	0.52
C17-BZ#182/#187	MG/KG	0.17	0.12	0.11	0.21	0.51
C17-BZ#183	MG/KG	0.037 J	0.029 J	0.02 J	0.047 J	0.13 J
C17-BZ#184	MG/KG	0.0018 J	0.00016 J	0.00076 U	0.00019 J	0.00041 J
C17-BZ#185	MG/KG	0.00034 J	0.00033 J	0.00076 U	0.00028 J	0.00071 J
C17-BZ#188	MG/KG	0.00098	0.00082	0.0007 J	0.0013	0.0034
C17-BZ#189	MG/KG	0.0051	0.0039	0.0036	0.0064	0.016
C17-BZ#191	MG/KG	0.0037	0.0026	0.0019	0.0042	0.012
C17-BZ#193	MG/KG	0.012	0.0096	0.0078	0.015	0.036
C18-BZ#194	MG/KG	0.013	0.013	0.01	0.021	0.045
C18-BZ#195	MG/KG	0.0032	0.0026	0.0023	0.0048	0.0096
C18-BZ#196/203	MG/KG	0.016	0.013	0.01	0.023	0.052
C18-BZ#197	MG/KG	0.001	0.00081	0.00069 J	0.0013	0.0028
C18-BZ#199	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C18-BZ#200	MG/KG	0.0035	0.0029	0.0023	0.0052	0.0097
C18-BZ#201	MG/KG	0.016	0.015	0.011	0.024	0.043
C18-BZ#202	MG/KG	0.0077	0.0069	0.0068	0.012	0.02
C18-BZ#205	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
C19-BZ#206	MG/KG	0.0047	0.0044	0.0032	0.0079	0.013
C19-BZ#207	MG/KG	0.00087	0.00082	0.00047 J	0.0012	0.0022
C19-BZ#208	MG/KG	0.0026	0.0027	0.002	0.0043	0.0063
C110-BZ#209	MG/KG	0.0016	0.0016	0.001	0.002	0.0033
Aroclor-1232	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
Aroclor-1242	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
Aroclor-1248	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
Aroclor-1254	MG/KG	0.00074 U	0.00075 U	0.00076 U	0.00079 U	0.00075 U
Aroclor-1260	MG/KG	1.1	0.91	0.71	1.4	3.6

Table 2 Sample Data for Blue Crab (mg/kg wet weight) 2003

Parameter	Sample# Species Area Station Units	NBH03-L-A-1 Blue Crabs Station A	NBH03-L-B-1 Blue Crabs Station B	NBH03-L-C-1 Blue Crabs Station C	NBH03-L-D-1 Blue Crabs Station D	NBH03-L-E-1 Blue Crabs Station E
Lipids	PERCENT	0.78	0.67	0.15	0.17	0.66
Total PCB Congeners ¹	MG/KG	12 J4	7.8 J4	1.4 J4	0.67 J3	3.1 J4
Total PCB Congeners Hits ²	MG/KG	12	7.8	1.4	0.65	3.0
Total NOAA Congeners ³	MG/KG	6.1 J4	4.4 J4	0.77 J4	0.40 J4	1.9 J4
Total WHO Congeners ⁴	MG/KG	1.2 J4	1.2 J4	0.22 J4	0.12 J4	0.72 J4
Total NOAA / WHO Combined ⁵	MG/KG	6.2 J4	4.6 J4	0.79 J4	0.41 J4	2.0 J4
Total Aroclors ⁶	MG/KG	0.47 J4	0.40 J4	0.050 J3	0.036 J3	0.24 J4
C11-BZ#1	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C11-BZ#3	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C12-BZ#4/#10	MG/KG	0.0033	0.0024	0.0011	0.00024 J	0.00052 J
C12-BZ#5/#8	MG/KG	0.024	0.0093	0.0034	0.00085 J	0.001
C12-BZ#6	MG/KG	0.011	0.0067	0.0016	0.00033 J	0.00038 J
C12-BZ#7	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C12-BZ#12/#13	MG/KG	0.016	0.013	0.0034	0.0012	0.0017
C12-BZ#15	MG/KG	0.032	0.03	0.0078	0.0054	0.0037
C13-BZ#16/#32	MG/KG	0.058	0.015	0.0074	0.00098	0.0044
C13-BZ#17	MG/KG	0.038	0.0084	0.0052	0.00069	0.0029
C13-BZ#18	MG/KG	0.078	0.03	0.0093	0.0014	0.0046
C13-BZ#19	MG/KG	0.0028	0.0013	0.00045 J	0.00047 U	0.00029 J
C13-BZ#21/#33	MG/KG	0.0094	0.0036	0.0019	0.00035 J	0.0011
C13-BZ#22	MG/KG	0.03	0.011	0.0065	0.0014	0.0034
C13-BZ#24/#27	MG/KG	0.00093 U	0.00096 U	0.0019	0.00028 J	0.00093 J
C13-BZ#25	MG/KG	0.15	0.049	0.016	0.0034	0.0082
C13-BZ#26	MG/KG	0.27	0.099	0.02	0.0041	0.011
C13-BZ#28/#31	MG/KG	1.9	1.2	0.24	0.12	0.2
C13-BZ#29	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C13-BZ#37	MG/KG	0.04	0.04	0.0085	0.0055	0.01
C14-BZ#40	MG/KG	0.00047 U	0.00048 U	0.0014	0.00047 U	0.00047 U
C14-BZ#41/#71	MG/KG	0.16	0.042	0.012	0.0027	0.0094
C14-BZ#42	MG/KG	0.045	0.011	0.0038	0.00086	0.0028
C14-BZ#43/#49	MG/KG	0.4	0.091	0.025	0.0039	0.019
C14-BZ#44	MG/KG	0.052	0.017	0.0041	0.00052	0.0026
C14-BZ#45	MG/KG	0.0027	0.00091	0.0005	0.00047 U	0.00028 J
C14-BZ#46	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C14-BZ#47/#48	MG/KG	1.1	0.61	0.087	0.043	0.14
C14-BZ#50	MG/KG	0.0012	0.00025 J	0.00047 U	0.00047 U	0.00047 U
C14-BZ#51	MG/KG	0.018	0.003	0.00098	0.00014 J	0.00051
C14-BZ#52	MG/KG	0.56	0.15	0.022	0.0035	0.016
C14-BZ#53	MG/KG	0.015	0.0044	0.0015	0.00023 J	0.00064
C14-BZ#54	MG/KG	0.00021 J	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C14-BZ#56/#60	MG/KG	0.087	0.081	0.025	0.01	0.03
C14-BZ#63	MG/KG	0.032	0.016	0.0024	0.001	0.0042
C14-BZ#64	MG/KG	0.11	0.035	0.0068	0.002	0.0086
C14-BZ#66	MG/KG	0.43	0.44	0.084	0.045	0.17
C14-BZ#70	MG/KG	0.081	0.035	0.0085	0.0021	0.0079
C14-BZ#74	MG/KG	0.42	0.37	0.062	0.033	0.13
C14-BZ#76	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C14-BZ#77	MG/KG	0.037	0.036	0.0076	0.0042	0.016
C14-BZ#81	MG/KG	0.0022	0.0019	0.00042 J	0.00047 U	0.001
C15-BZ#82	MG/KG	0.0027	0.00048 U	0.00046 J	0.00047 U	0.00047 U
C15-BZ#83	MG/KG	0.0065	0.0025	0.00083	0.00047 U	0.00075
C15-BZ#85	MG/KG	0.044	0.047	0.011	0.0055	0.026
C15-BZ#87	MG/KG	0.07	0.036	0.0053	0.0021	0.013
C15-BZ#89	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C15-BZ#91	MG/KG	0.092	0.023	0.0041	0.0012	0.003
C15-BZ#92	MG/KG	0.068	0.024	0.0024	0.00076	0.0027
C15-BZ#95	MG/KG	0.06	0.022	0.004	0.0012	0.0029
C15-BZ#97	MG/KG	0.053	0.015	0.0036	0.0012	0.0028
C15-BZ#99	MG/KG	1.1	0.83	0.13	0.065	0.35
C15-BZ#100	MG/KG	0.05	0.026	0.0035	0.0016	0.0065
C15-BZ#101/#84	MG/KG	0.41	0.14	0.02	0.0061	0.029
C15-BZ#104	MG/KG	0.0003 J	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C15-BZ#105	MG/KG	0.083	0.11	0.025	0.014	0.076
C15-BZ#107	MG/KG	0.061	0.049	0.0075	0.0035	0.024
C15-BZ#110	MG/KG	0.22	0.061	0.016	0.0034	0.016
C15-BZ#114	MG/KG	0.013	0.013	0.002	0.001	0.0063
C15-BZ#118	MG/KG	0.88	0.9	0.16	0.084	0.53
C15-BZ#119	MG/KG	0.14	0.091	0.011	0.0059	0.025
C15-BZ#123	MG/KG	0.03	0.024	0.0034	0.0021	0.012
C15-BZ#124	MG/KG	0.0076	0.0028	0.0006	0.00024 J	0.00056
C15-BZ#126	MG/KG	0.0034	0.0037	0.00053	0.00038 J	0.0021

Table 2 Sample Data for Blue Crab (mg/kg wet weight) 2003

	Sample#	NBH03-L-A-1	NBH03-L-B-1	NBH03-L-C-1	NBH03-L-D-1	NBH03-L-E-1
C16-BZ#129	MG/KG	0.0025	0.0014	0.00047 U	0.00047 U	0.00091
C16-BZ#130	MG/KG	0.011	0.0047	0.0013	0.00051	0.0046
C16-BZ#131	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C16-BZ#132/#168	MG/KG	0.00093 U	0.00096 U	0.00094 U	0.00093 U	0.00095 U
C16-BZ#134	MG/KG	0.018	0.013	0.0022	0.001	0.00047 U
C16-BZ#135/#144	MG/KG	0.02	0.0073	0.0012	0.00028 J	0.0014
C16-BZ#136	MG/KG	0.006	0.002	0.00033 J	0.00047 U	0.00023 J
C16-BZ#137	MG/KG	0.026	0.027	0.0044	0.0024	0.018
C16-BZ#138/#163	MG/KG	0.42	0.35	0.056	0.03	0.2
C16-BZ#141	MG/KG	0.0066	0.0031	0.00038 J	0.00047 U	0.00065
C16-BZ#146	MG/KG	0.15	0.12	0.017	0.0093	0.07
C16-BZ#147	MG/KG	0.049	0.016	0.002	0.001	0.0058
C16-BZ#149	MG/KG	0.24	0.068	0.011	0.004	0.016
C16-BZ#151	MG/KG	0.022	0.0076	0.00073	0.00047 U	0.00071
C16-BZ#153	MG/KG	0.95	0.83	0.11	0.071	0.54
C16-BZ#154	MG/KG	0.049	0.031	0.0041	0.002	0.011
C16-BZ#155	MG/KG	0.00076	0.00044 J	0.00047 U	0.00047 U	0.00018 J
C16-BZ#156	MG/KG	0.046	0.05	0.0072	0.0044	0.034
C16-BZ#157	MG/KG	0.0065	0.0076	0.0012	0.0009	0.0058
C16-BZ#158	MG/KG	0.056	0.052	0.0085	0.0046	0.027
C16-BZ#167/#128	MG/KG	0.095	0.097	0.014	0.009	0.032
C16-BZ#169	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C17-BZ#170/#190	MG/KG	0.027	0.023	0.0027	0.002	0.012
C17-BZ#171	MG/KG	0.0077	0.0072	0.0013	0.00077	0.0042
C17-BZ#172	MG/KG	0.0048	0.0041	0.00064	0.00039 J	0.0028
C17-BZ#173	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C17-BZ#174	MG/KG	0.0035	0.0014	0.00023 J	0.00047 U	0.00026 J
C17-BZ#175	MG/KG	0.0015	0.0013	0.00022 J	0.00016 J	0.00062
C17-BZ#176	MG/KG	0.00055	0.00033 J	0.00047 U	0.00047 U	0.0001 J
C17-BZ#177	MG/KG	0.0075	0.0029	0.00075	0.00029 J	0.0031
C17-BZ#178	MG/KG	0.013	0.0092	0.0016	0.00092	0.0062
C17-BZ#180	MG/KG	0.059	0.058	0.0076	0.0051	0.041
C17-BZ#182/#187	MG/KG	0.092	0.069	0.0089	0.0048	0.037
C17-BZ#183	MG/KG	0.021	0.02	0.0028	0.0017	0.012
C17-BZ#184	MG/KG	0.00016 J	0.00013 J	0.00047 U	0.00047 U	0.00047 U
C17-BZ#185	MG/KG	0.00069	0.00029 J	0.00047 U	0.00047 U	0.00047 U
C17-BZ#188	MG/KG	0.0019	0.0013	0.00014 J	0.00047 U	0.00054
C17-BZ#189	MG/KG	0.0019	0.0018	0.0002 J	0.00021 J	0.0013
C17-BZ#191	MG/KG	0.0019	0.0016	0.00026 J	0.00018 J	0.001
C17-BZ#193	MG/KG	0.0064	0.0046	0.00055	0.00034 J	0.0024
C18-BZ#194	MG/KG	0.0055	0.0044	0.00049	0.00047 U	0.0028
C18-BZ#195	MG/KG	0.0018	0.0014	0.00025 J	0.00047 U	0.00066
C18-BZ#196/203	MG/KG	0.0077	0.0062	0.00059 J	0.00093 U	0.003
C18-BZ#197	MG/KG	0.00044 J	0.00041 J	0.00047 U	0.00047 U	0.00028 J
C18-BZ#199	MG/KG	0.00035 J	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C18-BZ#200	MG/KG	0.0015	0.0013	0.00026 J	0.00047 U	0.00065
C18-BZ#201	MG/KG	0.0088	0.0062	0.00094	0.00047 U	0.0039
C18-BZ#202	MG/KG	0.0039	0.0029	0.00053	0.00029 J	0.0016
C18-BZ#205	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
C19-BZ#206	MG/KG	0.0019	0.0014	0.00047 U	0.00047 U	0.0005
C19-BZ#207	MG/KG	0.00052	0.00055	0.00047 U	0.00047 U	0.00025 J
C19-BZ#208	MG/KG	0.0015	0.0011	0.00021 J	0.00047 U	0.00054
C110-BZ#209	MG/KG	0.00052	0.00039 J	0.00047 U	0.00047 U	0.00017 J
Aroclor-1232	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
Aroclor-1242	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
Aroclor-1248	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
Aroclor-1254	MG/KG	0.00047 U	0.00048 U	0.00047 U	0.00047 U	0.00047 U
Aroclor-1260	MG/KG	0.47	0.4	0.049	0.035	0.24

Table 3A Sample Data for Scup (mg/kg wet weight) Area II 2003

Parameter	Sample# Species Area Station Units	NBH03-FF-A-2 Scup II Station A		NBH03-FF-B-2 Scup II Station B		NBH03-FF-C-2 Scup II Station C		NBH03-FF-D-2 Scup II Station D		NBH03-FF-E-2 Scup II Station E	
Lipids	PERCENT	0.82		1.5		1.3		0.98		0.96	
Total PCB Congeners ¹	MG/KG	0.24	J3	1.1	J4	0.59	J3	1.2	J4	0.73	J3
Total PCB Congeners Hits ²	MG/KG	0.23		1.1		0.59		1.2		0.72	
Total NOAA Congeners ³	MG/KG	0.14	J4	0.70	J4	0.33	J4	0.79	J4	0.42	J4
Total WHO Congeners ⁴	MG/KG	0.033	J3	0.21	J4	0.089	J4	0.25	J4	0.12	J4
Total NOAA / WHO Combined ⁵	MG/KG	0.14	J3	0.72	J4	0.34	J4	0.81	J4	0.43	J4
Total Aroclors ⁶	MG/KG	0.045	J3	0.16	J4	0.065	J3	0.15	J4	0.065	J3
C11-BZ#1	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C11-BZ#3	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C12-BZ#4/#10	MG/KG	0.00095	U	0.00043	J	0.00074	J	0.00094	U	0.00053	J
C12-BZ#5/#8	MG/KG	0.00095	U	0.00097	U	0.00097	U	0.00094	U	0.00092	U
C12-BZ#6	MG/KG	0.00047	U	0.00029	J	0.00039	J	0.00017	J	0.00034	J
C12-BZ#7	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C12-BZ#12/#13	MG/KG	0.00095	U	0.00097	U	0.00097	U	0.00017	J	0.00092	U
C12-BZ#15	MG/KG	0.00047	U	0.00013	J	0.00019	J	0.00047	U	0.00013	J
C13-BZ#16/#32	MG/KG	0.00045	J	0.0011		0.0023		0.0007	J	0.0014	
C13-BZ#17	MG/KG	0.00065		0.0017		0.0026		0.00084		0.0018	
C13-BZ#18	MG/KG	0.0012		0.0038		0.0059		0.0022		0.0045	
C13-BZ#19	MG/KG	0.00047	U	0.00026	J	0.00033	J	0.00018	J	0.00024	J
C13-BZ#21/#33	MG/KG	0.00014	J	0.00038	J	0.00077	J	0.00036	J	0.0005	J
C13-BZ#22	MG/KG	0.00018	J	0.00066		0.0014		0.00052		0.00076	
C13-BZ#24/#27	MG/KG	0.00022	J	0.00038	J	0.00082	J	0.00019	J	0.00053	J
C13-BZ#25	MG/KG	0.00031	J	0.001		0.0035		0.001		0.0017	
C13-BZ#26	MG/KG	0.00099		0.0045		0.0087		0.0036		0.0053	
C13-BZ#28/#31	MG/KG	0.0024		0.011		0.019		0.0099		0.013	
C13-BZ#29	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C13-BZ#37	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00025	J
C14-BZ#40	MG/KG	0.00047	U	0.00048	U	0.00089		0.00047	U	0.00054	
C14-BZ#41/#71	MG/KG	0.0014		0.0083		0.0065		0.01		0.0077	
C14-BZ#42	MG/KG	0.00068		0.0018		0.0023		0.0012		0.0016	
C14-BZ#43/#49	MG/KG	0.0062		0.03		0.026		0.035		0.03	
C14-BZ#44	MG/KG	0.0015		0.0043		0.0055		0.0025		0.0036	
C14-BZ#45	MG/KG	0.00047	U	0.00033	J	0.00048	U	0.00021	J	0.00038	J
C14-BZ#46	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C14-BZ#47/#48	MG/KG	0.0032		0.021		0.014		0.032		0.02	
C14-BZ#50	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C14-BZ#51	MG/KG	0.00016	J	0.00039	J	0.00057		0.0002	J	0.00033	J
C14-BZ#52	MG/KG	0.0062		0.026		0.024		0.028		0.03	
C14-BZ#53	MG/KG	0.00017	J	0.00036	J	0.0007		0.00028	J	0.00049	
C14-BZ#54	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C14-BZ#56/#60	MG/KG	0.00068	J	0.005		0.0036		0.0069		0.004	
C14-BZ#63	MG/KG	0.00033	J	0.0023		0.0012		0.0033		0.0017	
C14-BZ#64	MG/KG	0.00045	J	0.0013		0.0023		0.00082		0.0013	
C14-BZ#66	MG/KG	0.0049		0.03		0.016		0.037		0.023	
C14-BZ#70	MG/KG	0.00047	U	0.00058		0.0026		0.00077		0.00095	
C14-BZ#74	MG/KG	0.0023		0.019		0.01		0.028		0.015	
C14-BZ#76	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C14-BZ#77	MG/KG	0.00047	U	0.00048	U	0.00037	J	0.00047	U	0.00046	U
C14-BZ#81	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C15-BZ#82	MG/KG	0.00047	U	0.00071		0.00053		0.00047	U	0.00046	U
C15-BZ#83	MG/KG	0.00047	U	0.00048	U	0.00063		0.00047	U	0.00046	U
C15-BZ#85	MG/KG	0.0022		0.012		0.0051		0.015		0.0065	
C15-BZ#87	MG/KG	0.0023		0.012		0.0057		0.011		0.0076	
C15-BZ#89	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C15-BZ#91	MG/KG	0.0014		0.0045		0.0042		0.0041		0.0047	
C15-BZ#92	MG/KG	0.0012		0.0033		0.0027		0.0015		0.0028	
C15-BZ#95	MG/KG	0.0021		0.0064		0.0056		0.0048		0.0065	
C15-BZ#97	MG/KG	0.0031		0.014		0.0079		0.017		0.0097	
C15-BZ#99	MG/KG	0.0015		0.084		0.044		0.11		0.053	
C15-BZ#100	MG/KG	0.00023	J	0.0011		0.00092		0.0017		0.001	
C15-BZ#101/#84	MG/KG	0.0017		0.093		0.045		0.11		0.061	
C15-BZ#104	MG/KG	0.00047	U	0.00048	U	0.00048	U	0.00047	U	0.00046	U
C15-BZ#105	MG/KG	0.0036		0.027		0.011		0.035		0.015	
C15-BZ#107	MG/KG	0.0023		0.011		0.0045		0.011		0.0062	
C15-BZ#110	MG/KG	0.0058		0.022		0.017		0.017		0.02	

Table 3A Sample Data for Scup (mg/kg wet weight) Area II 2003

Sample#	NBH03-FF-A-2	NBH03-FF-B-2	NBH03-FF-C-2	NBH03-FF-D-2	NBH03-FF-E-2
CI5-BZ#114	MG/KG 0.00047 U	0.0013	0.00069	0.0018	0.00075
CI5-BZ#118	MG/KG 0.02	0.13	0.058	0.16	0.078
CI5-BZ#119	MG/KG 0.00098	0.0042	0.003	0.0057	0.0037
CI5-BZ#123	MG/KG 0.00081	0.0028	0.0014	0.0032	0.0018
CI5-BZ#124	MG/KG 0.00047 U	0.00048 U	0.00027 J	0.00047 U	0.00046 U
CI5-BZ#126	MG/KG 0.00047 U	0.00048 U	0.00014 J	0.00047 U	0.00046 U
CI6-BZ#129	MG/KG 0.00047 U	0.00054	0.00034 J	0.00047 U	0.00046 U
CI6-BZ#130	MG/KG 0.00072	0.0021	0.0009	0.0011	0.0016
CI6-BZ#131	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
CI6-BZ#132/#168	MG/KG 0.00095 U	0.00097 U	0.00097 U	0.00094 U	0.00092 U
CI6-BZ#134	MG/KG 0.00037 J	0.00092	0.00065	0.00047 U	0.00082
CI6-BZ#135/#144	MG/KG 0.00065 J	0.0024	0.0015	0.0022	0.0016
CI6-BZ#136	MG/KG 0.00043 J	0.0011	0.00097	0.00056	0.001
CI6-BZ#137	MG/KG 0.00068	0.0062	0.0025	0.0077	0.0024
CI6-BZ#138/#163	MG/KG 0.024	0.11	0.041	0.12	0.056
CI6-BZ#141	MG/KG 0.00066	0.0029	0.0011	0.0018	0.0012
CI6-BZ#146	MG/KG 0.0064	0.027	0.011	0.028	0.016
CI6-BZ#147	MG/KG 0.00069	0.0032	0.0016	0.0033	0.0024
CI6-BZ#149	MG/KG 0.0069	0.021	0.013	0.017	0.018
CI6-BZ#151	MG/KG 0.0013	0.0028	0.0016	0.0013	0.0026
CI6-BZ#153	MG/KG 0.034	0.18	0.075	0.2	0.1
CI6-BZ#154	MG/KG 0.0008	0.0027	0.0018	0.0035	0.0019
CI6-BZ#155	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
CI6-BZ#156	MG/KG 0.0018	0.012	0.0045	0.014	0.0052
CI6-BZ#157	MG/KG 0.0006	0.0026	0.001	0.0027	0.0013
CI6-BZ#158	MG/KG 0.0014	0.011	0.0046	0.014	0.0049
CI6-BZ#167/#128	MG/KG 0.0051	0.03	0.011	0.034	0.015
CI6-BZ#169	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
CI7-BZ#170/#190	MG/KG 0.0022	0.013	0.0045	0.012	0.0043
CI7-BZ#171	MG/KG 0.0008	0.003	0.0012	0.0032	0.0015
CI7-BZ#172	MG/KG 0.0003 J	0.001	0.00052	0.0007	0.00052
CI7-BZ#173	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
CI7-BZ#174	MG/KG 0.00026 J	0.00056	0.00043 J	0.00047 U	0.00046
CI7-BZ#175	MG/KG 0.00019 J	0.00044 J	0.00024 J	0.00042 J	0.0003 J
CI7-BZ#176	MG/KG 0.00021 J	0.00043 J	0.00013 J	0.00028 J	0.00028 J
CI7-BZ#177	MG/KG 0.00049	0.00089	0.00062	0.00044 J	0.0009
CI7-BZ#178	MG/KG 0.00038 J	0.00053	0.00035 J	0.00047 U	0.0006
CI7-BZ#180	MG/KG 0.0046	0.022	0.0079	0.021	0.008
CI7-BZ#182/#187	MG/KG 0.0071	0.014	0.0059	0.011	0.0087
CI7-BZ#183	MG/KG 0.002	0.0061	0.0027	0.0069	0.0034
CI7-BZ#184	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
CI7-BZ#185	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00015 J	0.00046 U
CI7-BZ#188	MG/KG 0.00014 J	0.00023 J	0.00015 J	0.00023 J	0.00015 J
CI7-BZ#189	MG/KG 0.00047 U	0.00065	0.00048 U	0.00068	0.00025 J
CI7-BZ#191	MG/KG 0.00047 U	0.0005	0.00035 J	0.00066	0.0003 J
CI7-BZ#193	MG/KG 0.00039 J	0.001	0.00042 J	0.00097	0.00061
CI8-BZ#194	MG/KG 0.00084	0.0026	0.0012	0.0022	0.001
CI8-BZ#195	MG/KG 0.0003 J	0.00095	0.00042 J	0.0009	0.00038 J
CI8-BZ#196/203	MG/KG 0.0013	0.0031	0.0015	0.0029	0.0014
CI8-BZ#197	MG/KG 0.00013 J	0.00027 J	0.00048 U	0.00019 J	0.00014 J
CI8-BZ#199	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
CI8-BZ#200	MG/KG 0.00046 J	0.00055	0.00038 J	0.00048	0.00042 J
CI8-BZ#201	MG/KG 0.0009	0.001	0.00065	0.00063	0.00082
CI8-BZ#202	MG/KG 0.001	0.00044 J	0.00029 J	0.00021 J	0.00057
CI8-BZ#205	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
CI9-BZ#206	MG/KG 0.0012	0.0014	0.001	0.0012	0.00066
CI9-BZ#207	MG/KG 0.00024 J	0.00017 J	0.00033 J	0.00021 J	0.00018 J
CI9-BZ#208	MG/KG 0.00047	0.00044 J	0.00035 J	0.00018 J	0.0003 J
CI10-BZ#209	MG/KG 0.00062 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
Aroclor-1232	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
Aroclor-1242	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
Aroclor-1248	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
Aroclor-1254	MG/KG 0.00047 U	0.00048 U	0.00048 U	0.00047 U	0.00046 U
Aroclor-1260	MG/KG 0.044	0.16	0.064	0.15	0.064

Table 3B Sample Data for Scup (mg/kg wet weight) Area III 2003

Parameter	Sample# Species Area Station Units	NBH03-FF-A-3 Scup III Station A		NBH03-FF-B-3 Scup III Station B		NBH03-FF-C-3 Scup III Station C		NBH03-FF-D-3 Scup III Station D		NBH03-FF-E-3 Scup III Station E	
Lipids	PERCENT	0.85		0.74		0.89		1.1		1.0	
Total PCB Congeners ¹	MG/KG	0.19	J3	0.15	J3	0.22	J3	0.30	J3	0.42	J3
Total PCB Congeners Hits ²	MG/KG	0.18		0.14		0.20		0.29		0.41	
Total NOAA Congeners ³	MG/KG	0.12	J4	0.094	J3	0.14	J4	0.18	J4	0.26	J4
Total WHO Congeners ⁴	MG/KG	0.031	J3	0.024	J3	0.037	J3	0.047	J3	0.071	J3
Total NOAA / WHO Combined ⁵	MG/KG	0.12	J3	0.098	J3	0.14	J3	0.19	J3	0.27	J4
Total Aroclors ⁶	MG/KG	0.042	J3	0.035	J3	0.042	J3	0.047	J3	0.077	J3
C11-BZ#1	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C11-BZ#3	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C12-BZ#4/#10	MG/KG	0.00092	U	0.00097	U	0.00092	U	0.00094	U	0.00093	U
C12-BZ#5/#8	MG/KG	0.00092	U	0.00097	U	0.00092	U	0.00094	U	0.00093	U
C12-BZ#6	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C12-BZ#7	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C12-BZ#12/#13	MG/KG	0.00092	U	0.00097	U	0.00092	U	0.00094	U	0.00093	U
C12-BZ#15	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C13-BZ#16/#32	MG/KG	0.00018	J	0.00018	J	0.00023	J	0.00037	J	0.00025	J
C13-BZ#17	MG/KG	0.0002	J	0.00049	U	0.00024	J	0.00033	J	0.00043	J
C13-BZ#18	MG/KG	0.00032	J	0.00015	J	0.00046		0.00072		0.00069	
C13-BZ#19	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00011	J	0.00046	U
C13-BZ#21/#33	MG/KG	0.00092	U	0.00097	U	0.00011	J	0.0002	J	0.00017	J
C13-BZ#22	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00021	J	0.00046	U
C13-BZ#24/#27	MG/KG	0.00092	U	0.00097	U	0.00092	U	0.00013	J	0.00012	J
C13-BZ#25	MG/KG	0.00016	J	0.00049	U	0.00017	J	0.00032	J	0.00035	J
C13-BZ#26	MG/KG	0.00035	J	0.00021	J	0.00042	J	0.00094		0.0012	
C13-BZ#28/#31	MG/KG	0.0012		0.00097	U	0.0011		0.0024		0.0032	
C13-BZ#29	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C13-BZ#37	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C14-BZ#40	MG/KG	0.00046	U	0.00049	U	0.00015	J	0.00047	U	0.00046	U
C14-BZ#41/#71	MG/KG	0.00082	J	0.00035	J	0.0008	J	0.0016		0.0024	
C14-BZ#42	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00056		0.0004	J
C14-BZ#43/#49	MG/KG	0.0027		0.0015		0.0031		0.007		0.0096	
C14-BZ#44	MG/KG	0.00048		0.00032	J	0.00065		0.0012		0.0014	
C14-BZ#45	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00012	J
C14-BZ#46	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C14-BZ#47/#48	MG/KG	0.0023		0.0011		0.0025		0.0041		0.0064	
C14-BZ#50	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C14-BZ#51	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C14-BZ#52	MG/KG	0.0026		0.0015		0.0033		0.0064		0.0094	
C14-BZ#53	MG/KG	0.00046	U	0.00049	U	0.00016	J	0.00018	J	0.00046	U
C14-BZ#54	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C14-BZ#56/#60	MG/KG	0.00057	J	0.00025	J	0.00055	J	0.00093	J	0.0014	
C14-BZ#63	MG/KG	0.00029	J	0.00017	J	0.00032	J	0.00045	J	0.00072	
C14-BZ#64	MG/KG	0.00018	J	0.00049	U	0.00018	J	0.00042	J	0.00034	J
C14-BZ#66	MG/KG	0.0041		0.0021		0.0036		0.0067		0.0099	
C14-BZ#70	MG/KG	0.00022	J	0.00014	J	0.00018	J	0.00051		0.00042	J
C14-BZ#74	MG/KG	0.002		0.00094		0.0018		0.0031		0.005	
C14-BZ#76	MG/KG	0.00046	UJ	0.00049	UJ	0.00046	U	0.00047	U	0.00046	U
C14-BZ#77	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C14-BZ#81	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C15-BZ#82	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C15-BZ#83	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00018	J
C15-BZ#85	MG/KG	0.0015		0.0011		0.0019		0.0029		0.0042	
C15-BZ#87	MG/KG	0.0016		0.0011		0.0018		0.0029		0.0045	
C15-BZ#89	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C15-BZ#91	MG/KG	0.00064		0.00046	J	0.00067		0.0016		0.0022	
C15-BZ#92	MG/KG	0.00053		0.00038	J	0.00083		0.0014		0.0015	
C15-BZ#95	MG/KG	0.00093		0.00066		0.0013		0.0022		0.0031	
C15-BZ#97	MG/KG	0.0017		0.0012		0.0021		0.0043		0.0056	
C15-BZ#99	MG/KG	0.013		0.0095		0.015		0.022		0.03	
C15-BZ#100	MG/KG	0.00022	J	0.00015	J	0.00022	J	0.00036	J	0.00047	
C15-BZ#101/#84	MG/KG	0.013		0.0097		0.016		0.024		0.033	
C15-BZ#104	MG/KG	0.00046	U	0.00049	U	0.00046	U	0.00047	U	0.00046	U
C15-BZ#105	MG/KG	0.0034		0.0023		0.0036		0.0053		0.0083	
C15-BZ#107	MG/KG	0.0021		0.0016		0.0025		0.0034		0.0047	
C15-BZ#110	MG/KG	0.0034		0.0017		0.0033		0.0071		0.0091	

Table 3B Sample Data for Scup (mg/kg wet weight) Area III 2003

Sample#	NBH03-FF-A-3	NBH03-FF-B-3	NBH03-FF-C-3	NBH03-FF-D-3	NBH03-FF-E-3
C15-BZ#114	MG/KG 0.0002 J	0.00017 J	0.00023 J	0.00047 U	0.00037 J
C15-BZ#118	MG/KG 0.019	0.014	0.023	0.029	0.044
C15-BZ#119	MG/KG 0.00057	0.00044 J	0.00076	0.0014	0.0016
C15-BZ#123	MG/KG 0.00056	0.00049 U	0.00046 U	0.00067	0.0011
C15-BZ#124	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C15-BZ#126	MG/KG 0.00015 J	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C16-BZ#129	MG/KG 0.00046 U	0.00049 U	0.00012 J	0.00023 J	0.00046 U
C16-BZ#130	MG/KG 0.00063	0.00046 J	0.00059	0.0011	0.0014
C16-BZ#131	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C16-BZ#132/#168	MG/KG 0.00092 U	0.00097 U	0.00092 U	0.00094 U	0.00093 U
C16-BZ#134	MG/KG 0.00046 U	0.00018 J	0.00014 J	0.00047	0.0005
C16-BZ#135/#144	MG/KG 0.00042 J	0.00035 J	0.00054 J	0.00081 J	0.00088 J
C16-BZ#136	MG/KG 0.00024 J	0.00016 J	0.00025 J	0.00049	0.00059
C16-BZ#137	MG/KG 0.00067	0.00069	0.00095	0.001	0.0018
C16-BZ#138/#163	MG/KG 0.02	0.018	0.024	0.033	0.045
C16-BZ#141	MG/KG 0.00041 J	0.00049 U	0.00051	0.00071	0.0012
C16-BZ#146	MG/KG 0.0063	0.0048	0.0068	0.0086	0.012
C16-BZ#147	MG/KG 0.00065	0.00056	0.00078	0.001	0.0016
C16-BZ#149	MG/KG 0.0046	0.0033	0.0045	0.0088	0.011
C16-BZ#151	MG/KG 0.00089	0.00052	0.00071	0.0013	0.0016
C16-BZ#153	MG/KG 0.037	0.03	0.04	0.049	0.071
C16-BZ#154	MG/KG 0.00064	0.00049	0.00065	0.00095	0.0013
C16-BZ#155	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C16-BZ#156	MG/KG 0.0016	0.0016	0.0022	0.0025	0.0039
C16-BZ#157	MG/KG 0.0005	0.00045 J	0.00066	0.00071	0.0011
C16-BZ#158	MG/KG 0.0013	0.0013	0.0017	0.0022	0.0032
C16-BZ#167/#128	MG/KG 0.0049	0.0045	0.0062	0.0076	0.011
C16-BZ#169	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C17-BZ#170/#190	MG/KG 0.0021	0.0022	0.0028	0.003	0.0048
C17-BZ#171	MG/KG 0.00061	0.00063	0.00071	0.00094	0.0013
C17-BZ#172	MG/KG 0.00041 J	0.0002 J	0.00033 J	0.00037 J	0.00066
C17-BZ#173	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C17-BZ#174	MG/KG 0.00027 J	0.00025 J	0.00023 J	0.0003 J	0.00033 J
C17-BZ#175	MG/KG 0.00016 J	0.00018 J	0.00014 J	0.0002 J	0.0003 J
C17-BZ#176	MG/KG 0.00014 J	0.00049 U	0.00011 J	0.0002 J	0.00022 J
C17-BZ#177	MG/KG 0.00054	0.00038 J	0.00041 J	0.00072	0.00069
C17-BZ#178	MG/KG 0.00031 J	0.00021 J	0.00021 J	0.0004 J	0.00041 J
C17-BZ#180	MG/KG 0.0043	0.0038	0.0049	0.0053	0.0089
C17-BZ#182/#187	MG/KG 0.0054	0.0037	0.004	0.006	0.0083
C17-BZ#183	MG/KG 0.0017	0.0014	0.0015	0.002	0.0027
C17-BZ#184	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C17-BZ#185	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C17-BZ#188	MG/KG 0.0001 J	0.00049 U	0.00046 U	0.00009 J	0.00012 J
C17-BZ#189	MG/KG 0.00046 U	0.00049 U	0.00026 J	0.00047 U	0.00046 U
C17-BZ#191	MG/KG 0.00046 U	0.00049 U	0.00015 J	0.00047 U	0.00023 J
C17-BZ#193	MG/KG 0.00033 J	0.00023 J	0.00025 J	0.00032 J	0.00057
C18-BZ#194	MG/KG 0.00087	0.00065	0.00082	0.00099	0.0014
C18-BZ#195	MG/KG 0.00027 J	0.00049 U	0.00032 J	0.00034 J	0.00047
C18-BZ#196/203	MG/KG 0.0011	0.00088 J	0.00094	0.0011	0.002
C18-BZ#197	MG/KG 0.00011 J	0.00049 U	0.00046 U	0.00047 U	0.00014 J
C18-BZ#199	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C18-BZ#200	MG/KG 0.00032 J	0.00024 J	0.00023 J	0.00033 J	0.00046 J
C18-BZ#201	MG/KG 0.00085	0.00047 J	0.00052	0.00067	0.00096
C18-BZ#202	MG/KG 0.00037 J	0.00019 J	0.00022 J	0.00039 J	0.00043 J
C18-BZ#205	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
C19-BZ#206	MG/KG 0.00071	0.00052	0.00065	0.00072	0.0012
C19-BZ#207	MG/KG 0.00016 J	0.00049 U	0.00046 U	0.00017 J	0.00022 J
C19-BZ#208	MG/KG 0.00036 J	0.00018 J	0.00024 J	0.00033 J	0.00045 J
C110-BZ#209	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
Aroclor-1232	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
Aroclor-1242	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
Aroclor-1248	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
Aroclor-1254	MG/KG 0.00046 U	0.00049 U	0.00046 U	0.00047 U	0.00046 U
Aroclor-1260	MG/KG 0.041	0.034	0.041	0.046	0.076

Table 4 Sample Data for Flounder and Black Sea Bass (mg/kg wet weight) Areas I and III 2003

Parameter	Sample# Species Area Station Units	NBH03-FF-A-1 Winter Flounder I Station A		NBH03-FF-B-1 Winter Flounder I Station B		NBH03-FF-A-3 (SF) Summer Flounder III Station A		NBH03-FF-A-3(WF) Winter Flounder III Station A		NBH03-FF-A-3(SB) Black Sea Bass III Station A	
Lipids	PERCENT	0.94		0.37		0.45		0.79		1.1	
Total PCB Congeners ¹	MG/KG	1.8	J4	3.9	J4	0.11	J2	0.62	J3	0.14	J2
Total PCB Congeners Hits ²	MG/KG	1.8		3.9		0.097		0.61		0.12	
Total NOAA Congeners ³	MG/KG	0.82	J4	1.7	J4	0.056	J3	0.35	J4	0.075	J3
Total WHO Congeners ⁴	MG/KG	0.19	J4	0.27	J4	0.015	J2	0.11	J4	0.023	J3
Total NOAA / WHO Combined ⁵	MG/KG	0.84	J4	1.7	J4	0.059	J3	0.37	J4	0.079	J3
Total Aroclors ⁶	MG/KG	0.10	J4	0.12	J4	0.019	J3	0.091	J3	0.00047	U
C11-BZ#1	MG/KG	0.00048	U	0.00012	J	0.00047	U	0.00046	U	0.00047	U
C11-BZ#3	MG/KG	0.00048	U	0.00048	U	0.00047	U	0.00046	U	0.00047	U
C12-BZ#4/#10	MG/KG	0.0014		0.0072		0.00094	U	0.00091	U	0.00095	U
C12-BZ#5/#8	MG/KG	0.0017		0.025		0.00094	U	0.00091	U	0.00095	U
C12-BZ#6	MG/KG	0.00071		0.019		0.00047	U	0.00046	U	0.00047	U
C12-BZ#7	MG/KG	0.00048	U	0.0019		0.00047	U	0.00046	U	0.00047	U
C12-BZ#12/#13	MG/KG	0.00096	U	0.0021		0.00094	U	0.00091	U	0.00095	U
C12-BZ#15	MG/KG	0.0013		0.011		0.00047	U	0.00046	U	0.00047	U
C13-BZ#16/#32	MG/KG	0.011		0.077		0.00032	J	0.0018		0.00027	J
C13-BZ#17	MG/KG	0.007		0.042		0.00019	J	0.00032	J	0.00013	J
C13-BZ#18	MG/KG	0.011		0.08		0.00042	J	0.00094		0.0002	J
C13-BZ#19	MG/KG	0.00078		0.0053		0.00047	U	0.00046	U	0.00047	U
C13-BZ#21/#33	MG/KG	0.0019		0.011		0.00016	J	0.00022	J	0.00012	J
C13-BZ#22	MG/KG	0.008		0.029		0.00023	J	0.00071		0.00017	J
C13-BZ#24/#27	MG/KG	0.0024		0.019		0.00094	U	0.00047	J	0.00095	U
C13-BZ#25	MG/KG	0.014		0.078		0.00025	J	0.00095		0.00019	J
C13-BZ#26	MG/KG	0.04		0.19		0.00072		0.0039		0.00052	
C13-BZ#28/#31	MG/KG	0.2		0.7		0.0018		0.02		0.0018	
C13-BZ#29	MG/KG	0.00048	U	0.00048	U	0.00047	U	0.00046	U	0.00047	U
C13-BZ#37	MG/KG	0.0019		0.0074		0.00047	U	0.00018	J	0.00047	U
C14-BZ#40	MG/KG	0.0039		0.0094		0.00047	U	0.0006		0.00019	J
C14-BZ#41/#71	MG/KG	0.047		0.12		0.00069	J	0.0062		0.00086	J
C14-BZ#42	MG/KG	0.0027		0.0072		0.00022	J	0.00014	J	0.00041	J
C14-BZ#43/#49	MG/KG	0.11		0.29		0.003		0.014		0.0037	
C14-BZ#44	MG/KG	0.0054		0.018		0.0003	J	0.00046	U	0.0014	
C14-BZ#45	MG/KG	0.00094		0.0036		0.00047	U	0.00046	U	0.00047	U
C14-BZ#46	MG/KG	0.00048	U	0.00048	U	0.00047	U	0.00046	U	0.00047	U
C14-BZ#47/#48	MG/KG	0.073		0.18		0.0014		0.01		0.0019	
C14-BZ#50	MG/KG	0.00048	U	0.00031	J	0.00047	U	0.00046	U	0.00047	U
C14-BZ#51	MG/KG	0.0027		0.011		0.00047	U	0.00038	J	0.00047	U
C14-BZ#52	MG/KG	0.041		0.12		0.0036		0.0044		0.0048	
C14-BZ#53	MG/KG	0.0014		0.007		0.00013	J	0.00012	J	0.00047	U
C14-BZ#54	MG/KG	0.00048	U	0.00027	J	0.00047	U	0.00046	U	0.00047	U
C14-BZ#56/#60	MG/KG	0.018		0.033		0.00043	J	0.003		0.00061	J
C14-BZ#63	MG/KG	0.0023		0.0038		0.00022	J	0.00045	J	0.00021	J
C14-BZ#64	MG/KG	0.0082		0.047		0.00028	J	0.0024		0.00016	J
C14-BZ#66	MG/KG	0.069		0.12		0.0019		0.016		0.003	
C14-BZ#70	MG/KG	0.06		0.11		0.00082		0.012		0.00044	J
C14-BZ#74	MG/KG	0.052		0.1		0.0012		0.01		0.0015	
C14-BZ#76	MG/KG	0.00048	U	0.00048	U	0.00047	U	0.00046	U	0.00047	U
C14-BZ#77	MG/KG	0.0038		0.0071		0.00047	U	0.001		0.00047	U
C14-BZ#81	MG/KG	0.00083		0.00051		0.00047	U	0.00046	U	0.00047	U
C15-BZ#82	MG/KG	0.0019		0.0018		0.00047	U	0.00046	U	0.00011	J
C15-BZ#83	MG/KG	0.0012		0.00048	U	0.00047	U	0.00046	U	0.00043	J
C15-BZ#85	MG/KG	0.012		0.014		0.00075		0.0048		0.00099	
C15-BZ#87	MG/KG	0.022		0.029		0.0014		0.008		0.0016	
C15-BZ#89	MG/KG	0.00048	U	0.00048	U	0.00047	U	0.00046	U	0.00047	U
C15-BZ#91	MG/KG	0.011		0.02		0.00077		0.0017		0.00084	
C15-BZ#92	MG/KG	0.015		0.023		0.0012		0.0051		0.002	
C15-BZ#95	MG/KG	0.016		0.032		0.0013		0.0032		0.0023	

Table 4 Sample Data for Flounder and Black Sea Bass (mg/kg wet weight) Areas I and III 2003

Sample#	NBH03-FF-A-1	NBH03-FF-B-1	NBH03-FF-A-3 (SF)	NBH03-FF-A-3(WF)	NBH03-FF-A-3(SB)
CI5-BZ#97	0.0085	0.0091	0.0097	0.0017	0.0014
CI5-BZ#99	0.13	0.22	0.0059	0.052	0.0043
CI5-BZ#100	0.0039	0.0084	0.00047 U	0.00089	0.00047 U
CI5-BZ#101/#84	0.08	0.11	0.0076	0.023	0.0098
CI5-BZ#104	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI5-BZ#105	0.024	0.028	0.0017	0.013	0.0025
CI5-BZ#107	0.0075	0.0097	0.001	0.0048	0.0014
CI5-BZ#110	0.12	0.21	0.003	0.03	0.0045
CI5-BZ#114	0.002	0.0032	0.00047 U	0.00068	0.00047 U
CI5-BZ#118	0.13	0.19	0.0088	0.068	0.014
CI5-BZ#119	0.013	0.028	0.00041 J	0.004	0.00057
CI5-BZ#123	0.0043	0.0064	0.00047 U	0.0017	0.00043 J
CI5-BZ#124	0.003	0.0043	0.00047 U	0.001	0.00047 U
CI5-BZ#126	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI6-BZ#129	0.00085	0.00082	0.00047 U	0.00046 U	0.00047 U
CI6-BZ#130	0.0024	0.0022	0.00055	0.0015	0.00047 U
CI6-BZ#131	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI6-BZ#132/#168	0.00096 U	0.00096 UJ	0.00094 UJ	0.00091 UJ	0.00095 UJ
CI6-BZ#134	0.0042	0.0057	0.00047 U	0.0023	0.00074
CI6-BZ#135/#144	0.005	0.0058	0.00042 J	0.0019	0.00096
CI6-BZ#136	0.0027	0.0041	0.00023 J	0.00095	0.00036 J
CI6-BZ#137	0.0053	0.0066	0.00048	0.0035	0.00048
CI6-BZ#138/#163	0.079	0.092	0.0096	0.07	0.011
CI6-BZ#141	0.0056	0.0064	0.00041 J	0.003	0.00057
CI6-BZ#146	0.012	0.013	0.0024	0.0087	0.0032
CI6-BZ#147	0.0029	0.0039	0.00039 J	0.0012	0.00051
CI6-BZ#149	0.03	0.036	0.0034	0.0078	0.0044
CI6-BZ#151	0.0062	0.0084	0.00093	0.0037	0.0012
CI6-BZ#153	0.13	0.17	0.013	0.1	0.018
CI6-BZ#154	0.0052	0.009	0.00018 J	0.0022	0.00011 J
CI6-BZ#155	0.00048 U	0.00014 J	0.00047 U	0.00046 U	0.00047 U
CI6-BZ#156	0.0082	0.01	0.00086	0.0065	0.0013
CI6-BZ#157	0.0015	0.0016	0.00025 J	0.0015	0.00038 J
CI6-BZ#158	0.0096	0.012	0.00077	0.0057	0.00085
CI6-BZ#167/#128	0.018	0.021	0.0021	0.013	0.0026
CI6-BZ#169	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI7-BZ#170/#190	0.0068	0.0075	0.001	0.0064	0.0013
CI7-BZ#171	0.0019	0.0016	0.0002 J	0.0017	0.00024 J
CI7-BZ#172	0.00089	0.0011	0.00017 J	0.00086	0.00023 J
CI7-BZ#173	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI7-BZ#174	0.0017	0.0017	0.00028 J	0.00099	0.00039 J
CI7-BZ#175	0.00022 J	0.00048 U	0.00047 U	0.00014 J	0.00047 U
CI7-BZ#176	0.00031 J	0.00028 J	0.00047 U	0.00025 J	0.00047 U
CI7-BZ#177	0.0017	0.0015	0.00042 J	0.0014	0.00056
CI7-BZ#178	0.0013	0.0016	0.00027 J	0.00088	0.00042 J
CI7-BZ#180	0.012	0.015	0.0017	0.012	0.002
CI7-BZ#182/#187	0.0082	0.011	0.0018	0.0057	0.0018
CI7-BZ#183	0.004	0.0042	0.00059	0.0028	0.00053
CI7-BZ#184	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI7-BZ#185	0.00039 J	0.00039 J	0.00047 U	0.00046 U	0.00047 U
CI7-BZ#188	0.0002 J	0.00033 J	0.00047 U	0.0001 J	0.00047 U
CI7-BZ#189	0.00047 J	0.00054	0.00047 U	0.00047	0.00047 U
CI7-BZ#191	0.00038 J	0.00042 J	0.00047 U	0.00026 J	0.00047 U
CI7-BZ#193	0.00084	0.0013	0.00015 J	0.00079	0.00012 J
CI8-BZ#194	0.0016	0.0018	0.00041 J	0.0015	0.00047 U
CI8-BZ#195	0.00053	0.00069	0.00047 U	0.00049	0.00047 U
CI8-BZ#196/203	0.0022	0.0023	0.00039 J	0.0016	0.00095 U
CI8-BZ#197	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI8-BZ#199	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI8-BZ#200	0.00037 J	0.00032 J	0.00047 U	0.00024 J	0.00047 U
CI8-BZ#201	0.0014	0.0016	0.00042 J	0.0011	0.00047 U
CI8-BZ#202	0.00057	0.00076	0.00021 J	0.00041 J	0.00017 J

Table 4 Sample Data for Flounder and Black Sea Bass (mg/kg wet weight) Areas I and III 2003

	Sample#	NBH03-FF-A-1	NBH03-FF-B-1	NBH03-FF-A-3 (SF)	NBH03-FF-A-3(WF)	NBH03-FF-A-3(SB)
CI8-BZ#205	MG/KG	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
CI9-BZ#206	MG/KG	0.001	0.0012	0.00017 J	0.00073	0.00047 U
CI9-BZ#207	MG/KG	0.00048 U	0.00017 J	0.00047 U	0.00015 J	0.00047 U
CI9-BZ#208	MG/KG	0.00037 J	0.0006	0.00018 J	0.00019 J	0.00047 U
CI10-BZ#209	MG/KG	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
Aroclor-1232	MG/KG	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
Aroclor-1242	MG/KG	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
Aroclor-1248	MG/KG	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
Aroclor-1254	MG/KG	0.00048 U	0.00048 U	0.00047 U	0.00046 U	0.00047 U
Aroclor-1260	MG/KG	0.1	0.12	0.018	0.09	0.00047 U

Table 5A Sample Data for Quahogs (mg/kg wet weight) Area I 2003

Parameter	Sample# Species Area Station Units	5 Quahogs I Station A		6 Quahogs I Station B		4 Quahogs I Station C		3 Quahogs I Station D		2 Quahogs I Station E	
Lipids	PERCENT	0.10	U	0.22		0.30		0.26		0.24	
Total PCB Congeners ¹	MG/KG	0.73	J4	1.1	J4	1.5	J4	1.7	J4	2.9	J4
Total PCB Congeners Hits ²	MG/KG	0.73		1.1		1.5		1.7		2.9	
Total NOAA Congeners ³	MG/KG	0.31	J4	0.47	J4	0.63	J4	0.71	J4	1.2	J4
Total WHO Congeners ⁴	MG/KG	0.035	J3	0.054	J3	0.081	J4	0.088	J4	0.12	J4
Total NOAA / WHO Combined ⁵	MG/KG	0.32	J4	0.48	J4	0.65	J4	0.73	J4	1.2	J4
Total Aroclors ⁶	MG/KG	0.64	J4	0.99	J4	1.4	J4	1.4	J4	2.5	J4
C11-BZ#1	MG/KG	0.00049	U	0.00049	U	0.00049	U	0.0005	U	0.00049	U
C11-BZ#3	MG/KG	0.00049	U	0.00049	U	0.00049	U	0.0005	U	0.00013	J
C12-BZ#4/#10	MG/KG	0.0015		0.0023		0.0023		0.0025		0.0053	
C12-BZ#5/#8	MG/KG	0.0017		0.0031		0.0038		0.0043		0.014	
C12-BZ#6	MG/KG	0.001		0.002		0.0025		0.0029		0.012	
C12-BZ#7	MG/KG	0.00049	U	0.00032	J	0.00036	J	0.00036	J	0.001	
C12-BZ#12/#13	MG/KG	0.0029		0.0043		0.0054		0.0059		0.013	
C12-BZ#15	MG/KG	0.0032		0.005		0.0063		0.0061		0.012	
C13-BZ#16/#32	MG/KG	0.01		0.016		0.019		0.021		0.043	
C13-BZ#17	MG/KG	0.0091		0.014		0.016		0.018		0.037	
C13-BZ#18	MG/KG	0.02		0.031		0.036		0.038		0.078	
C13-BZ#19	MG/KG	0.0013		0.0021		0.0023		0.0024		0.0052	
C13-BZ#21/#33	MG/KG	0.0033		0.0056		0.0067		0.0072		0.013	
C13-BZ#22	MG/KG	0.0051		0.0083		0.011		0.012		0.02	
C13-BZ#24/#27	MG/KG	0.0036		0.0057		0.0065		0.007		0.014	
C13-BZ#25	MG/KG	0.02		0.03		0.04		0.044		0.091	
C13-BZ#26	MG/KG	0.033		0.049		0.064		0.071		0.14	
C13-BZ#28/#31	MG/KG	0.089		0.13		0.18		0.2		0.36	
C13-BZ#29	MG/KG	0.00049	U	0.00049	U	0.00049	U	0.0005	U	0.00049	U
C13-BZ#37	MG/KG	0.0027		0.0041		0.0061		0.0058		0.0094	
C14-BZ#40	MG/KG	0.003		0.0046		0.0056		0.0064		0.012	
C14-BZ#41/#71	MG/KG	0.016		0.025		0.035		0.038		0.066	
C14-BZ#42	MG/KG	0.0064		0.0097		0.013		0.014		0.027	
C14-BZ#43/#49	MG/KG	0.06		0.09		0.12		0.14		0.26	
C14-BZ#44	MG/KG	0.017		0.026		0.033		0.036		0.066	
C14-BZ#45	MG/KG	0.0017		0.0028		0.003		0.0036		0.0066	
C14-BZ#46	MG/KG	0.0016		0.0022		0.0025		0.0028		0.0059	
C14-BZ#47/#48	MG/KG	0.025		0.036		0.052		0.056		0.1	
C14-BZ#50	MG/KG	0.00017	J	0.00023	J	0.00026	J	0.00029	J	0.00049	
C14-BZ#51	MG/KG	0.0021		0.0033		0.0041		0.0047		0.01	
C14-BZ#52	MG/KG	0.063		0.094		0.12		0.14		0.26	
C14-BZ#53	MG/KG	0.0049		0.0079		0.0091		0.011		0.021	
C14-BZ#54	MG/KG	0.00014	J	0.00021	J	0.00023	J	0.00021	J	0.00045	J
C14-BZ#56/#60	MG/KG	0.0071		0.012		0.017		0.018		0.025	
C14-BZ#63	MG/KG	0.0016		0.0023		0.0034		0.0035		0.0055	
C14-BZ#64	MG/KG	0.01		0.014		0.02		0.022		0.044	
C14-BZ#66	MG/KG	0.018		0.027		0.04		0.042		0.061	
C14-BZ#70	MG/KG	0.014		0.024		0.032		0.035		0.048	
C14-BZ#74	MG/KG	0.012		0.018		0.028		0.029		0.045	
C14-BZ#76	MG/KG	0.00049	U	0.00049	U	0.00049	U	0.0005	U	0.00049	U
C14-BZ#77	MG/KG	0.0022		0.0032		0.0046		0.0055		0.0074	
C14-BZ#81	MG/KG	0.00014	J	0.00049	U	0.00049	U	0.0005	U	0.00049	U
C15-BZ#82	MG/KG	0.0011		0.0018		0.0022		0.0024		0.0032	
C15-BZ#83	MG/KG	0.0016		0.0022		0.0032		0.0034		0.0055	
C15-BZ#85	MG/KG	0.0022		0.0036		0.0051		0.0052		0.0063	
C15-BZ#87	MG/KG	0.0056		0.0094		0.012		0.013		0.017	
C15-BZ#89	MG/KG	0.00049	U	0.00049	U	0.00049	U	0.0005	U	0.00049	U
C15-BZ#91	MG/KG	0.0077		0.012		0.016		0.019		0.036	
C15-BZ#92	MG/KG	0.007		0.0097		0.014		0.015		0.026	
C15-BZ#95	MG/KG	0.014		0.022		0.029		0.032		0.059	
C15-BZ#97	MG/KG	0.0065		0.01		0.013		0.017		0.024	
C15-BZ#99	MG/KG	0.024		0.035		0.051		0.058		0.094	
C15-BZ#100	MG/KG	0.001		0.0014		0.0019		0.0022		0.0046	
C15-BZ#101/#84	MG/KG	0.034		0.052		0.068		0.081		0.12	
C15-BZ#104	MG/KG	0.00049	U	0.00049	U	0.00049	U	0.0005	U	0.0001	J
C15-BZ#105	MG/KG	0.004		0.0068		0.0098		0.01		0.011	
C15-BZ#107	MG/KG	0.0026		0.0038		0.0052		0.0058		0.0081	
C15-BZ#110	MG/KG	0.03		0.046		0.065		0.074		0.12	

Table 5A Sample Data for Quahogs (mg/kg wet weight) Area I 2003

Sample#	5	6	4	3	2	
Cl5-BZ#114	MG/KG	0.00036 J	0.00057	0.00092	0.00098	0.0013
Cl5-BZ#118	MG/KG	0.022	0.034	0.05	0.056	0.076
Cl5-BZ#119	MG/KG	0.0031	0.004	0.006	0.0071	0.013
Cl5-BZ#123	MG/KG	0.0012	0.0017	0.0025	0.0028	0.0042
Cl5-BZ#124	MG/KG	0.00087	0.0012	0.0018	0.0021	0.003
Cl5-BZ#126	MG/KG	0.00049 U	0.00049 U	0.00032 J	0.00031 J	0.00062
Cl6-BZ#129	MG/KG	0.00037 J	0.00066	0.00094	0.00095	0.0014
Cl6-BZ#130	MG/KG	0.0011	0.0017	0.0023	0.0024	0.003
Cl6-BZ#131	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl6-BZ#132/#168	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl6-BZ#134	MG/KG	0.0014	0.0021	0.0027	0.0033	0.0052
Cl6-BZ#135/#144	MG/KG	0.0031	0.0044	0.0064	0.0069	0.012
Cl6-BZ#136	MG/KG	0.0018	0.0028	0.0038	0.0041	0.0078
Cl6-BZ#137	MG/KG	0.0011	0.0016	0.0022	0.0026	0.0033
Cl6-BZ#138/#163	MG/KG	0.015	0.022	0.033	0.036	0.049
Cl6-BZ#141	MG/KG	0.00098	0.0016	0.0024	0.0028	0.0035
Cl6-BZ#146	MG/KG	0.0048	0.0066	0.009	0.01	0.016
Cl6-BZ#147	MG/KG	0.0014	0.002	0.0031	0.0036	0.0062
Cl6-BZ#149	MG/KG	0.015	0.023	0.031	0.036	0.06
Cl6-BZ#151	MG/KG	0.0018	0.0029	0.0037	0.0042	0.0078
Cl6-BZ#153	MG/KG	0.02	0.029	0.038	0.048	0.07
Cl6-BZ#154	MG/KG	0.00098	0.0012	0.0015	0.0022	0.004
Cl6-BZ#155	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl6-BZ#156	MG/KG	0.0014	0.0022	0.0034	0.0037	0.005
Cl6-BZ#157	MG/KG	0.00029 J	0.00046 J	0.0021	0.00072	0.00093
Cl6-BZ#158	MG/KG	0.00092	0.0015	0.0023	0.0027	0.0039
Cl6-BZ#167/#128	MG/KG	0.0028 J	0.0043 J	0.006 J	0.0068	0.0092
Cl6-BZ#169	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl7-BZ#170/#190	MG/KG	0.001	0.0014	0.0022	0.0028	0.0037
Cl7-BZ#171	MG/KG	0.00028 J	0.00022 J	0.0006	0.00063	0.00063
Cl7-BZ#172	MG/KG	0.00031 J	0.00046 J	0.00066	0.00073	0.00086
Cl7-BZ#173	MG/KG	0.00049 U	0.00049 U	0.00028 J	0.0005 U	0.00049 U
Cl7-BZ#174	MG/KG	0.00068	0.001	0.0015	0.0015	0.0025
Cl7-BZ#175	MG/KG	0.00049 U	0.00011 J	0.00017 J	0.0005 U	0.00023 J
Cl7-BZ#176	MG/KG	0.00049 U	0.00018 J	0.00029 J	0.00025 J	0.0003 J
Cl7-BZ#177	MG/KG	0.00082	0.001	0.0016	0.0017	0.0021
Cl7-BZ#178	MG/KG	0.00052	0.00073	0.00082	0.00095	0.0014
Cl7-BZ#180	MG/KG	0.0024	0.0033	0.005	0.0056	0.0078
Cl7-BZ#182/#187	MG/KG	0.0028	0.0038	0.0057	0.0063	0.0099
Cl7-BZ#183	MG/KG	0.00053	0.00064	0.001	0.0011	0.0017
Cl7-BZ#184	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl7-BZ#185	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00024 J
Cl7-BZ#188	MG/KG	0.00049 U	0.00049 U	0.00012 J	0.0005 U	0.00014 J
Cl7-BZ#189	MG/KG	0.00049 U	0.00049 U	0.00038 J	0.00023 J	0.00034 J
Cl7-BZ#191	MG/KG	0.00014 J	0.00049 U	0.0002 J	0.00021 J	0.00028 J
Cl7-BZ#193	MG/KG	0.00023 J	0.00033 J	0.00053 J	0.00054	0.00075
Cl8-BZ#194	MG/KG	0.00038 J	0.0004 J	0.00088	0.00085	0.0012
Cl8-BZ#195	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.00034 J	0.0004 J
Cl8-BZ#196/203	MG/KG	0.00033 J	0.00047 J	0.00049 U	0.00092	0.0014
Cl8-BZ#197	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl8-BZ#199	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl8-BZ#200	MG/KG	0.00049 U	0.00015 J	0.00049 U	0.00018 J	0.0002 J
Cl8-BZ#201	MG/KG	0.00031 J	0.00057	0.00089	0.00094	0.0012
Cl8-BZ#202	MG/KG	0.00022 J	0.00021 J	0.00031 J	0.00041 J	0.00051
Cl8-BZ#205	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl9-BZ#206	MG/KG	0.00049 U	0.00033 J	0.00055	0.00056	0.00079
Cl9-BZ#207	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Cl9-BZ#208	MG/KG	0.00049 U	0.00049 U	0.00036 J	0.00035 J	0.00049
Cl10-BZ#209	MG/KG	0.00049 U	0.00012 J	0.00025 J	0.00023 J	0.00034 J
Aroclor-1232	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Aroclor-1242	MG/KG	0.00049 U	0.00049 U	0.00049 U	0.0005 U	0.00049 U
Aroclor-1248	MG/KG	0.3	0.48	0.64	0.7	1.2
Aroclor-1254	MG/KG	0.32	0.48	0.67	0.61	1.2
Aroclor-1260	MG/KG	0.017	0.026	0.042	0.046	0.063

Table 5B Sample Data for Quahogs (mg/kg wet weight) Area II 2003

Parameter	Sample# Species Area Station Units	10 Quahogs II Station A		11 Quahogs II Station B		9 Quahogs II Station C		7 Quahogs II Station D		8 Quahogs II Station E	
Lipids	PERCENT	0.16		0.10	U	0.22		0.22		0.10	U
Total PCB Congeners ¹	MG/KG	0.091	J2	0.051	J2	0.26	J3	0.89	J4	0.13	J3
Total PCB Congeners Hits ²	MG/KG	0.079		0.036		0.26		0.88		0.12	
Total NOAA Congeners ³	MG/KG	0.037	J3	0.018	J3	0.11	J4	0.38	J4	0.053	J3
Total WHO Congeners ⁴	MG/KG	0.0089	J2	0.0049	J2	0.018	J3	0.057	J3	0.0082	J2
Total NOAA / WHO Combined ⁵	MG/KG	0.040	J3	0.020	J2	0.12	J3	0.39	J4	0.055	J3
Total Aroclors ⁶	MG/KG	0.085	J4	0.047	J3	0.29	J4	0.91	J4	0.11	J4
C11-BZ#1	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00026	J	0.00048	U
C11-BZ#3	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00013	J	0.00048	U
C12-BZ#4/#10	MG/KG	0.00049	U	0.00048	U	0.00038	J	0.0028		0.00026	J
C12-BZ#5/#8	MG/KG	0.00049	U	0.00048	U	0.00038	J	0.0045		0.0002	J
C12-BZ#6	MG/KG	0.00049	U	0.00048	U	0.0003	J	0.0021		0.00013	J
C12-BZ#7	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00052		0.00048	U
C12-BZ#12/#13	MG/KG	0.00026	J	0.00026	J	0.0006		0.0016		0.00053	
C12-BZ#15	MG/KG	0.00019	J	0.00012	J	0.00074		0.0033		0.00048	
C13-BZ#16/#32	MG/KG	0.00038	J	0.00026	J	0.0023		0.013		0.0014	
C13-BZ#17	MG/KG	0.00039	J	0.00024	J	0.002		0.01		0.0011	
C13-BZ#18	MG/KG	0.00086		0.00044	J	0.0048		0.023		0.0028	
C13-BZ#19	MG/KG	0.00049	U	0.00048	U	0.0003	J	0.002		0.00026	J
C13-BZ#21/#33	MG/KG	0.00049	U	0.00048	U	0.001		0.005		0.00046	J
C13-BZ#22	MG/KG	0.00027	J	0.00017	J	0.0014		0.005		0.0007	
C13-BZ#24/#27	MG/KG	0.00018	J	0.00012	J	0.00083		0.0033		0.00053	
C13-BZ#25	MG/KG	0.00065		0.00039	J	0.0042		0.014		0.0026	
C13-BZ#26	MG/KG	0.0013		0.00062		0.0074		0.024		0.0045	
C13-BZ#28/#31	MG/KG	0.0037		0.0019		0.02		0.074		0.012	
C13-BZ#29	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00049	U	0.00048	U
C13-BZ#37	MG/KG	0.00027	J	0.00014	J	0.00079		0.0036		0.00043	J
C14-BZ#40	MG/KG	0.00049	U	0.00048	U	0.0012		0.0033		0.00068	
C14-BZ#41/#71	MG/KG	0.00092		0.0005		0.0043		0.018		0.0023	
C14-BZ#42	MG/KG	0.00053		0.00015	J	0.0017		0.0064		0.0011	
C14-BZ#43/#49	MG/KG	0.0034		0.0016		0.016		0.061		0.0092	
C14-BZ#44	MG/KG	0.0012		0.0006		0.0054		0.019		0.0028	
C14-BZ#45	MG/KG	0.00014	J	0.00048	U	0.00052		0.0025		0.0003	J
C14-BZ#46	MG/KG	0.00049	U	0.00048	U	0.00032	J	0.0013		0.00027	J
C14-BZ#47/#48	MG/KG	0.0018		0.00076		0.0072		0.028		0.0039	
C14-BZ#50	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00021	J	0.00048	U
C14-BZ#51	MG/KG	0.00012	J	0.00048	U	0.00049	U	0.0027		0.00029	J
C14-BZ#52	MG/KG	0.0043		0.002		0.019		0.073		0.01	
C14-BZ#53	MG/KG	0.00027	J	0.00012	J	0.0013		0.0064		0.00079	
C14-BZ#54	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00021	J	0.00048	U
C14-BZ#56/#60	MG/KG	0.00071		0.00035	J	0.0024		0.01		0.0011	
C14-BZ#63	MG/KG	0.00016	J	0.00048	U	0.00056		0.0016		0.00029	J
C14-BZ#64	MG/KG	0.00071		0.00029	J	0.0025		0.011		0.0016	
C14-BZ#66	MG/KG	0.0023		0.00097		0.0062		0.025		0.0028	
C14-BZ#70	MG/KG	0.002		0.00086		0.0052		0.022		0.0026	
C14-BZ#74	MG/KG	0.0011		0.00053		0.0038		0.013		0.0019	
C14-BZ#76	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00049	U	0.00048	U
C14-BZ#77	MG/KG	0.00042	J	0.00018	J	0.00085		0.0024		0.00052	
C14-BZ#81	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00049	U	0.00048	U
C15-BZ#82	MG/KG	0.00049	U	0.00048	U	0.00054		0.0019		0.00048	U
C15-BZ#83	MG/KG	0.00029	J	0.00048	U	0.00084		0.0022		0.00032	J
C15-BZ#85	MG/KG	0.00065		0.00028	J	0.0013		0.004		0.0004	J
C15-BZ#87	MG/KG	0.0011		0.00046	J	0.0029		0.011		0.0011	
C15-BZ#89	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00049	U	0.00048	U
C15-BZ#91	MG/KG	0.00068		0.00036	J	0.0026		0.01		0.0013	
C15-BZ#92	MG/KG	0.0014		0.00059		0.0035		0.0093		0.0014	
C15-BZ#95	MG/KG	0.002		0.00083		0.0059		0.022		0.0025	
C15-BZ#97	MG/KG	0.001		0.00053		0.0029		0.0092		0.0012	
C15-BZ#99	MG/KG	0.0041		0.0017		0.011		0.031		0.0044	
C15-BZ#100	MG/KG	0.00049	U	0.00048	U	0.00034	J	0.0013		0.00022	J
C15-BZ#101/#84	MG/KG	0.0057		0.0026		0.015		0.049		0.0065	
C15-BZ#104	MG/KG	0.00049	U	0.00048	U	0.00049	U	0.00049	U	0.00048	U
C15-BZ#105	MG/KG	0.001		0.0005		0.0022		0.0077		0.00089	
C15-BZ#107	MG/KG	0.00073		0.00034	J	0.0016		0.0035		0.00062	
C15-BZ#110	MG/KG	0.0039		0.0019		0.012		0.041		0.0054	

Table 5B Sample Data for Quahogs (mg/kg wet weight) Area II 2003

Sample#	10	11	9	7	8
C15-BZ#114	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00079	0.00048 U
C15-BZ#118	MG/KG 0.0047	0.0019	0.01	0.035	0.0042
C15-BZ#119	MG/KG 0.00037 J	0.00015 J	0.0012	0.0036	0.00059
C15-BZ#123	MG/KG 0.00049 U	0.00048 U	0.00047 J	0.0018	0.00048 U
C15-BZ#124	MG/KG 0.0002 J	0.00048 U	0.00039 J	0.0014	0.00015 J
C15-BZ#126	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C16-BZ#129	MG/KG 0.00015 J	0.00048 U	0.00039 J	0.00089	0.00048 U
C16-BZ#130	MG/KG 0.00044 J	0.00029 J	0.0008	0.002	0.0003 J
C16-BZ#131	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C16-BZ#132/#168	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C16-BZ#134	MG/KG 0.00032 J	0.00025 J	0.00089	0.0021	0.00034 J
C16-BZ#135/#144	MG/KG 0.00074	0.00033 J	0.0018	0.0047	0.00069
C16-BZ#136	MG/KG 0.00037 J	0.00013 J	0.00093	0.0033	0.00034 J
C16-BZ#137	MG/KG 0.00038 J	0.00017 J	0.00071	0.0021	0.00022 J
C16-BZ#138/#163	MG/KG 0.0041	0.0021	0.0092	0.025	0.0034
C16-BZ#141	MG/KG 0.00029 J	0.00013 J	0.0008	0.0022	0.00031 J
C16-BZ#146	MG/KG 0.0014	0.00064	0.0032	0.0068	0.0011
C16-BZ#147	MG/KG 0.00031 J	0.00048 U	0.00067	0.002	0.00036 J
C16-BZ#149	MG/KG 0.0027	0.0012	0.0076	0.022	0.0029
C16-BZ#151	MG/KG 0.00045 J	0.00018 J	0.0011	0.003	0.00039 J
C16-BZ#153	MG/KG 0.0058	0.0028	0.014	0.03	0.0047
C16-BZ#154	MG/KG 0.00013 J	0.00048 U	0.0004 J	0.0011	0.00017 J
C16-BZ#155	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C16-BZ#156	MG/KG 0.00043 J	0.00021 J	0.00096	0.0032	0.00034 J
C16-BZ#157	MG/KG 0.00016 J	0.00048 U	0.0002 J	0.0006	0.00013 J
C16-BZ#158	MG/KG 0.0002 J	0.00048 U	0.00045 U	0.0017	0.00025 J
C16-BZ#167/#128	MG/KG 0.00074 J	0.00046 J	0.0018 J	0.005 J	0.00064 J
C16-BZ#169	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C17-BZ#170/#190	MG/KG 0.00029 J	0.00048 U	0.00061	0.0016	0.00048 U
C17-BZ#171	MG/KG 0.00049 U	0.00048 U	0.00022 J	0.00039 J	0.00048 U
C17-BZ#172	MG/KG 0.00021 J	0.00048 U	0.00033 J	0.0004 J	0.00048 U
C17-BZ#173	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C17-BZ#174	MG/KG 0.00038 J	0.00048 U	0.00069	0.0014	0.00023 J
C17-BZ#175	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C17-BZ#176	MG/KG 0.00049 U	0.00048 U	0.00015 J	0.00015 J	0.00048 U
C17-BZ#177	MG/KG 0.00034 J	0.00027 J	0.00069	0.0014	0.00028 J
C17-BZ#178	MG/KG 0.00017 J	0.00048 U	0.00039 J	0.00066	0.00048 U
C17-BZ#180	MG/KG 0.00096	0.00047 J	0.0021	0.0041	0.00055
C17-BZ#182/#187	MG/KG 0.00094	0.0004 J	0.0021	0.004	0.00069
C17-BZ#183	MG/KG 0.00018 J	0.00048 U	0.00035 J	0.00072	0.00015 J
C17-BZ#184	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C17-BZ#185	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C17-BZ#188	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C17-BZ#189	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00024 J	0.00048 U
C17-BZ#191	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C17-BZ#193	MG/KG 0.00049 U	0.00048 U	0.00021 J	0.00036 J	0.00048 U
C18-BZ#194	MG/KG 0.00049 U	0.00048 U	0.00032 J	0.00064	0.00048 U
C18-BZ#195	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00023 J	0.00048 U
C18-BZ#196/203	MG/KG 0.00049 U	0.00048 U	0.00031 J	0.00055	0.00048 U
C18-BZ#197	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C18-BZ#199	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C18-BZ#200	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00015 J	0.00048 U
C18-BZ#201	MG/KG 0.00049 U	0.00048 U	0.00034 J	0.00059	0.00048 U
C18-BZ#202	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00027 J	0.00048 U
C18-BZ#205	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C19-BZ#206	MG/KG 0.00049 U	0.00048 U	0.0003 J	0.00035 J	0.00048 U
C19-BZ#207	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
C19-BZ#208	MG/KG 0.00049 U	0.00048 U	0.00012 J	0.00021 J	0.00048 U
C110-BZ#209	MG/KG 0.00019 J	0.00021 J	0.00049 U	0.00049 U	0.00048 U
Aroclor-1232	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
Aroclor-1242	MG/KG 0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.00048 U
Aroclor-1248	MG/KG 0.025	0.012	0.094	0.37	0.048
Aroclor-1254	MG/KG 0.059	0.034	0.18	0.51	0.065
Aroclor-1260	MG/KG 0.00049 U	0.00048 U	0.015	0.03	0.00048 U

Table 5C Sample Data for Quahogs (mg/kg wet weight) Area III 2003

Sample#	12	13	15	14	1
Species	Quahogs	Quahogs	Quahogs	Quahogs	Quahogs
Area	III	III	III	III	III
Station	Station A	Station B	Station C	Station D	Station E
Parameter					
Units					
Lipids PERCENT	0.14	0.17	0.10 U	0.10 U	0.24
Total PCB Co MG/KG	0.044 J2	0.050 J2	0.045 J2	0.039 J2	0.078 J2
Total PCB Co MG/KG	0.028	0.034	0.028	0.023	0.065
Total NOAA C MG/KG	0.014 J3	0.017 J3	0.014 J3	0.012 J3	0.030 J3
Total WHO C MG/KG	0.0039 J2	0.0049 J2	0.0043 J2	0.0040 J2	0.0074 J2
Total NOAA / MG/KG	0.016 J2	0.019 J2	0.016 J2	0.014 J2	0.033 J3
Total Aroclors MG/KG	0.034 J3	0.040 J3	0.034 J3	0.027 J3	0.11 J4
C11-BZ#1 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C11-BZ#3 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C12-BZ#4/#10 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C12-BZ#5/#8 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.00015 J
C12-BZ#6 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C12-BZ#7 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C12-BZ#12/#1 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00017 J	0.00012 J
C12-BZ#15 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00011 J	0.00011 J
C13-BZ#16/#3 MG/KG	0.0002 J	0.00023 J	0.00024 J	0.00016 J	0.00032 J
C13-BZ#17 MG/KG	0.00022 J	0.00026 J	0.00017 J	0.00013 J	0.00035 J
C13-BZ#18 MG/KG	0.00037 J	0.00035 J	0.00033 J	0.00028 J	0.00042 J
C13-BZ#19 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C13-BZ#21/#3 MG/KG	0.00022 J	0.00024 J	0.00016 J	0.00012 J	0.00025 J
C13-BZ#22 MG/KG	0.00048 U	0.00029 J	0.00016 J	0.00048 U	0.0002 J
C13-BZ#24/#2 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C13-BZ#25 MG/KG	0.00029 J	0.00029 J	0.00027 J	0.00023 J	0.00038 J
C13-BZ#26 MG/KG	0.00047 J	0.00042 J	0.00054	0.00035 J	0.00066
C13-BZ#28/#3 MG/KG	0.0015	0.0018	0.0014	0.001	0.002
C13-BZ#29 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C13-BZ#37 MG/KG	0.00048 U	0.00021 J	0.00016 J	0.00014 J	0.00013 J
C14-BZ#40 MG/KG	0.00019 J	0.0003 J	0.00048 U	0.00048 U	0.0005 U
C14-BZ#41/#7 MG/KG	0.00033 J	0.00047 J	0.00039 J	0.00031 J	0.00064
C14-BZ#42 MG/KG	0.00019 J	0.00027 J	0.00017 J	0.00016 J	0.00039 J
C14-BZ#43/#4 MG/KG	0.0012	0.0014	0.0015	0.0012	0.0026
C14-BZ#44 MG/KG	0.00048	0.00066	0.00047 J	0.00035 J	0.00092
C14-BZ#45 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C14-BZ#46 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C14-BZ#47/#4 MG/KG	0.00082	0.0008	0.00072	0.00054	0.0012
C14-BZ#50 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C14-BZ#51 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C14-BZ#52 MG/KG	0.0015	0.0016	0.0015	0.0012	0.0027
C14-BZ#53 MG/KG	0.00048 U	0.00016 J	0.00016 J	0.00013 J	0.00023 J
C14-BZ#54 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C14-BZ#56/#6 MG/KG	0.00028 J	0.0004 J	0.00028 J	0.00015 J	0.0006
C14-BZ#63 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.00015 J
C14-BZ#64 MG/KG	0.00021 J	0.00034 J	0.0003 J	0.00021 J	0.00056
C14-BZ#66 MG/KG	0.00086	0.0012	0.00084	0.00064	0.0016
C14-BZ#70 MG/KG	0.00061	0.00085	0.00078	0.00052	0.0014
C14-BZ#74 MG/KG	0.00038 J	0.00053	0.00054	0.00035 J	0.00071
C14-BZ#76 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
C14-BZ#77 MG/KG	0.00012 J	0.00023 J	0.0001 J	0.00017 J	0.0003 J

CI4-BZ#81	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#82	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#83	MG/KG	0.00018 J	0.00048 U	0.00048 U	0.00048 U	0.00048 J
CI5-BZ#85	MG/KG	0.00027 J	0.00034 J	0.00023 J	0.00015 J	0.00051
CI5-BZ#87	MG/KG	0.00039 J	0.00048	0.00032 J	0.00029 J	0.00089
CI5-BZ#89	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#91	MG/KG	0.0002 J	0.00025 J	0.00034 J	0.00026 J	0.00065
CI5-BZ#92	MG/KG	0.00052	0.00056	0.00041 J	0.00038 J	0.0011
CI5-BZ#95	MG/KG	0.00072	0.00092	0.00078	0.00057	0.0016
CI5-BZ#97	MG/KG	0.00044 J	0.00058	0.00046 J	0.00045 J	0.00098
CI5-BZ#99	MG/KG	0.0014	0.0017	0.0015	0.0012	0.0036
CI5-BZ#100	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#101/#	MG/KG	0.002	0.0026	0.0019	0.0017	0.0051
CI5-BZ#104	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#105	MG/KG	0.00042 J	0.00046 J	0.0004 J	0.00038 J	0.00077
CI5-BZ#107	MG/KG	0.00024 J	0.00043 J	0.00025 J	0.00024 J	0.00072
CI5-BZ#110	MG/KG	0.0014	0.0019	0.0015	0.0011	0.0036
CI5-BZ#114	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#118	MG/KG	0.0014	0.002	0.0017	0.0014	0.0034
CI5-BZ#119	MG/KG	0.00015 J	0.00016 J	0.00018 J	0.0002 J	0.00031 J
CI5-BZ#123	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#124	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI5-BZ#126	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#129	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#130	MG/KG	0.00016 J	0.00028 J	0.00016 J	0.00048 U	0.00042 J
CI6-BZ#131	MG/KG	0.00058	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#132/#	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#134	MG/KG	0.00017 J	0.00021 J	0.00048 U	0.00048 U	0.0003 J
CI6-BZ#135/#	MG/KG	0.0003 J	0.00032 J	0.00034 J	0.00037 J	0.0008
CI6-BZ#136	MG/KG	0.00012 J	0.00017 J	0.00048 U	0.00013 J	0.00037 J
CI6-BZ#137	MG/KG	0.00048 U	0.00012 J	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#138/#	MG/KG	0.0016	0.0019	0.0015	0.0012	0.0044
CI6-BZ#141	MG/KG	0.00012 J	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#146	MG/KG	0.00049	0.00059	0.00051	0.00049	0.0014
CI6-BZ#147	MG/KG	0.00048 U	0.00048 U	0.00012 J	0.00048 U	0.00032 J
CI6-BZ#149	MG/KG	0.00094	0.0013	0.00088	0.00079	0.0028
CI6-BZ#151	MG/KG	0.00016 J	0.00028 J	0.00025 J	0.00018 J	0.00045 J
CI6-BZ#153	MG/KG	0.0018	0.0022	0.0022	0.0018	0.0052
CI6-BZ#154	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#155	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI6-BZ#156	MG/KG	0.00018 J	0.00048 U	0.00014 J	0.00013 J	0.00045 J
CI6-BZ#157	MG/KG	0.00048 U	0.00048 U	0.00018 J	0.00048 U	0.00018 J
CI6-BZ#158	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.00017 J
CI6-BZ#167/#	MG/KG	0.00013 J	0.00048 UJ	0.00032 J	0.00028 J	0.00082
CI6-BZ#169	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#170/#	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.00038 J
CI7-BZ#171	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#172	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#173	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#174	MG/KG	0.00015 J	0.00048 U	0.00048 U	0.00048 U	0.00039 J
CI7-BZ#175	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#176	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#177	MG/KG	0.00017 J	0.00018 J	0.00048 U	0.00017 J	0.00054
CI7-BZ#178	MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.00027 J
CI7-BZ#180	MG/KG	0.0003 J	0.0003 J	0.00032 J	0.00018 J	0.0009

CI7-BZ#182/# MG/KG	0.00045 J	0.00041 J	0.00036 J	0.00028 J	0.00092
CI7-BZ#183 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00012 J	0.00019 J
CI7-BZ#184 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#185 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#188 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#189 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#191 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI7-BZ#193 MG/KG	0.00048 U	0.00012 J	0.00048 U	0.00048 U	0.0005 U
CI8-BZ#194 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI8-BZ#195 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI8-BZ#196/2 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI8-BZ#197 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI8-BZ#199 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI8-BZ#200 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI8-BZ#201 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0003 J
CI8-BZ#202 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0001 J
CI8-BZ#205 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI9-BZ#206 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI9-BZ#207 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI9-BZ#208 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
CI10-BZ#209 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
Aroclor-1232 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
Aroclor-1242 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.0005 U
Aroclor-1248 MG/KG	0.0086	0.012	0.01	0.0071	0.031
Aroclor-1254 MG/KG	0.025	0.027	0.023	0.019	0.068
Aroclor-1260 MG/KG	0.00048 U	0.00048 U	0.00048 U	0.00048 U	0.008

Appendix B Data Validation Summary

Data Validation Summary
Massachusetts Department of Environmental Protection
New Bedford Harbor Seafood Contaminant Survey Monitoring
2003 Sampling

Introduction:

Fifty-five fish tissue samples were collected from New Bedford Harbor, MA, during 2003. Samples were preserved by freezing (-20°C) until receipt on August 22, 2005, by Alpha Woods Hole Laboratory located in Raynham, Massachusetts. Tissue samples were analyzed for the following parameters: polychlorinated biphenyls (PCBs) by GC/MS Single Ion Monitoring (SIM) and percent lipids.

Tissue samples were analyzed in four separate data sets: 0508091 (quahogs), 0508090 (scup/flounder), 0509009 (lobster tomalley), and 0508089 (lobster/crab meat). A Tier III data validation was performed for all analyses in data set 0508091. Tier I+ data validation was performed for data sets 0508089, 0508090, and 0809009. The data packages were validated using Region I EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses (USEPA, 1996), Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses (USEPA, 2004), Alpha Woods Hole Laboratory Standard Operating Procedure (SOP) O-010 (Alpha, 2002), and the New Bedford Harbor Seafood Contaminant Survey Quality Assurance Project Plan (MADEP, 9/13/05).

For Tier I+ data validation, data were evaluated for the following parameters:

- * Collection and Preservation
- * Holding Times
- * Data Completeness
- * Initial Calibration
- Continuing Calibration
- Blanks
- * Surrogate Standards
- Standard Reference Material
- Matrix Spike/Matrix Spike Duplicates
- * Laboratory Duplicates
- * Internal Standards
- Target Compound Quantitation

* - all criteria were met for this parameter

In addition to evaluation of the above quality control parameters, Tier III data validation included a review of raw data for samples and associated quality control, as well as calculation checks for reported sample concentrations and quality control results.

In general, laboratory performance is considered acceptable and all results are usable. The following qualifying statements have been applied to the 2003 data.

Continuing Calibration

PCB (0508091) – In the continuing calibration standard associated with a subset of samples in SDG 0508091, the %D between the initial calibration and continuing calibration relative response factor (RRF) for co-eluting congener pair BZ 167/128 (43.7) was outside the QAPP specified control limit of 25.0%. Positive and non-detected results for congener pair BZ 167/128 were qualified as estimated (J/UJ) in samples 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13.

PCB (0508090) – In the continuing calibration standard associated with samples NBH03-FF-A-3 and NBH03-FF-B-3, the %D between the initial and continuing calibration RRF for BZ 76 (26.0) was outside the QAPP specified control limit of 25.0%. The congener BZ 76 was not detected in the samples, and quantitation limits for BZ 76 were qualified as estimated (UJ) in samples NBH03-FF-A-3 and NBH03-FF-B-3.

PCB (0508090) – In the continuing calibration standard associated with samples NBH03-FF-B-1, NBH03-FF-A-3(SF), NBH03-FF-A-3(SB), and NBH03-FF-A-3(WF), the %D between the initial and continuing calibration RRF for co-eluting congener pair BZ 132/168 (47.6) was outside the QAPP specified control limit of 25.0%. The congener pair BZ 132/168 was not detected in the samples, and quantitation limits for BZ 132/168 were qualified as estimated (UJ) in samples NBH03-FF-B-1, NBH03-FF-A-3(SF), NBH03-FF-A-3(SB), and NBH03-FF-A-3(WF).

Blanks

PCB (0508090) – The congener BZ 209 (0.48 ug/kg) was detected in the method blank associated with all samples. An action level for BZ 209 was established at five times the blank concentration. Positive sample results greater than the action level were reported unqualified. Positive sample detections of congener BZ 209 that were less than the action level and less than the reporting limit were qualified as non-detected (U) at the reporting limit. Positive sample detections that were less than the action level and greater than the reporting limit were qualified as non-detected (U) at the reported sample concentration.

Laboratory Control Samples

PCB (0509009) – Percent recoveries for the Standard Reference Material (SRM) analyzed concurrently with SDG 0509009 were outside the 60-140% control limits for the following congeners: BZ 110 (58), BZ 149 (58), and BZ 183 (55). Potential slight low biases are indicated for these congeners, therefore; positive and non-detected results for BZ 110, BZ 149, and BZ 183 were qualified as estimated (J/UJ) in all samples in SDG 0509009.

Matrix Spike/Matrix Spike Duplicates

PCB (0508089) – The percent recovery for PCB congener BZ 153 (56) in the matrix spike of NBH03-L-A-3 was below laboratory control limits of 60-140% indicating a potential slight low bias. The positive result for BZ 153 in sample NBH03-L-A-3 was qualified as estimated (J).

Target Compound Quantitation

PCB (0508089) – The Total PCB result for sample NBH03-L-A-3 was qualified as estimated (J) based on professional judgment. The concentration of PCB congener (BZ 153), previously qualified as estimated (J) due to low matrix spike recovery, represents greater than ten percent of the Total PCB concentration.

References:

U.S. Environmental Protection Agency (USEPA), 1996. "Region I, EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses, Parts I and II," Quality Assurance Unit Staff; Office of Environmental Measurement and Evaluation; December, 1996.

U.S. Environmental Protection Agency (USEPA), 2004. "Region I, Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses;" Hazardous Site Evaluation Division; Draft, February, 2004.

MADEP, 9/13/05. "Quality Assurance Project Plan for the New Bedford Harbor Seafood Contaminant Survey

Alpha Woods Hole Laboratory, 2002. "Determination of PCB Homologs and Individual Congeners by GC/MS-SIM," Alpha Woods Hole Group Environmental Laboratories; October, 2002.

Data Validator: Julie Ricardi

Signature _____ Signature on file _____ Date November 18, 2005

Appendix C

Seafood Monitoring - Field Sampling Activities for the New Bedford Harbor Superfund Site 2003 Annual Report

**Seafood Monitoring - Field Sampling Activities
for the New Bedford Harbor Superfund Site
2003 Annual Report**

By Matt Camisa, Aquatic Biologist
Massachusetts Division of Marine Fisheries
February 3, 2004

The Massachusetts Division of Marine Fisheries (*Marine Fisheries*) under an agreement with the Massachusetts Department of Environmental Protection (DEP) collects legal size fish and shellfish from the three New Bedford Harbor fish closure areas. At the end of the collection period, these frozen samples were delivered to the DEP Wall Experiment Station (WES) Laboratory in Lawrence for analysis. DEP provides the results of the analyses to EPA to monitor and support of the site remediation project. This report describes field activities for 2003 and in accordance with the Seafood Monitoring and Field Sampling Work Plan.

Sample Sites

The three Fish Closure Areas are identified on the attached Figure from the EPA Record of Decision for the Upper and Lower Operable Unit, New Bedford Harbor Superfund Site, New Bedford, Massachusetts, dated September 25, 1998 (Figure 1). Area 1 includes the waters of the Acushnet River and the New Bedford/Fairhaven Inner Harbor north of the Hurricane Barrier. Area 2 comprises the waters of the Outer Harbor and Clarks Cove south of the Hurricane Barrier and north of a line drawn from Wilbur Point in Fairhaven to Ricketsons Point in Dartmouth. Area 3 is that portion of Buzzards Bay south of the line drawn from Wilbur Point in Fairhaven to Ricketsons Point in Dartmouth and north of a line drawn from Rocky Point on West Island in Fairhaven to the Negro Ledge C3 buoy then to Mishaum Point in Dartmouth.

There are five sample stations in each of the three fish closure areas in the waters of the City of New Bedford and the Towns of Dartmouth and Fairhaven. Station locations within each area vary for different species as what may be suitable habitat for one species may not be suitable for another (Figures 2 to 7).

2003 Field Collections

Complete information including the harvest dates, collection identification information, species, station identification information, location by latitude and longitude, and collection method is appended to this report as Attachment 2 – DMF Field Collection Forms 1 to 5.

Quahog (*Mercenaria mercenaria*)

Marine Fisheries collected quahogs from fifteen stations in the three Fish Closure Areas in March and June prior the animals spawning (see Figure 7 and Collection Form 5). Twelve to nineteen legal size quahogs were collected from each station in order to provide sufficient sample sizes for the Work Plan. In all but one station, the quahogs were collected using a rake. Quahogs at Station E in Area 3 were collected using a hydraulic dredge.

1

American lobster (*Homarus americanus*) & Blue crabs (*Callinectes sapidus*)

Lobsters were harvested by lobster pots in June (see Figure 2 and Collection Form 1). Three legal size lobsters were collected (140 trap hauls) at each of the five stations in Areas 2 and 3. A total of about 140 trap hauls were used in Areas 2 and 3. Considerable efforts (about 130 trap hauls) were made to collect lobsters in Area 1 with no samples retained. Three traps were lost during lobster collection. Blue crabs were harvested by crab pots in July (see Figure 3 and Collection Form 2). Blue crabs were collected at the five Area 1 stations. Three legal size blue crabs were harvested from each station. A total of 30 trap hauls were used in Area 1 for the crabs.

Flounder (*Paralyichys dentatus* & *Pseudopleuronectes americanus*)

Flounders were collected using either, a scup trap, gillnet, or trawl net in July or September (see Figures 5 and 6, and Collection Form 4). In an effort to collect benthic species, fish pots were set at several different locations. Winter flounder (*Pseudopleuronectes americanus*) were collected at stations A (1 flounder) and B (2 flounders) in Area 1, and station A (1 flounder) in Area 3. Thirteen summer flounder (*Paralyichys dentatus*) were collected at stations A in Area 3. No flounder were harvested at the Area 2 stations.

Black Sea Bass (*Centropristes striatus*)

One black sea bass was harvested by trawl net at stations A in Area 3 in September (see Figure 6 and Collection Form 4).

Scup (*Stenotomus chrysops*)

Three legal size scup were collected at all ten stations in Areas 2 and 3 using pots (4 stations/8 trap hauls), or rod and reel (6 stations) in July (see Figure 4 and Collection Form 3). While these fish were quite plentiful in Areas 2 and 3, none were taken in Area 1. An effort was made to catch scup in Area 1 using fish traps (about 20 trap hauls) and rod and reel (about 4 hours total on four different outings) with no samples retained.

2

ATTACHMENT 1 DMF HARVEST SITE MAPS

Note: These figures are in the main body of the “Contaminated Monitoring Report for Seafood Harvested in 2003 from the New Bedford Harbor Superfund Site” Report and the same figure numbers apply.

ATTACHMENT 2 DMF FIELD COLLECTION FORMS

Field Collection Form 1 – Lobster (3 pages)

Field Collection Form 2 – Blue Crabs

Field Collection Form 3 – Scup

Field Collection Form 4 – Winter Flounder, Summer Flounder, and Black Sea Bass

Field Collection Form 5 – Quahogs (2 pages)

FIELD COLLECTION FORM 1: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30 EMMERSON AVE.,
GLOUCESTER, MA 01930

PROJECT #: NBH03 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Matthew Camisa SHIPPER: _____ SAMPLE CONDITION: FRESH _____ FROZEN X

DATE DDMMYY	COLLECTION/T AG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
24/06/2003	NBH03-L-A-3	1 Lobster	Station A Angelica Rock	NBH Area 3	041 34.664' 070 51.566'	Lobster Pots	
24/06/2003	NBH03-L-A-3	1 Lobster	Station A Angelica Rock	NBH Area 3	041 34.664' 070 51.566'	Lobster Pots	
26/06/2003	NBH03-L-A-3	1 Lobster	Station A Angelica Rock	NBH Area 3	041 34.664' 070 51.566'	Lobster Pots	
6/6/2003	NBH03-L-B-3	1 Lobster	Station B Radome R"8"	NBH Area 3	041 32.302' 070 54.353'	Lobster Pots	
6/6/2003	NBH03-L-B-3	1 Lobster	Station B Radome R"8"	NBH Area 3	041 32.302' 070 54.353'	Lobster Pots	
20/06/2003	NBH03-L-B-3	1 Lobster	Station B Radome R"8"	NBH Area 3	041 32.302' 070 54.353'	Lobster Pots	
03/06/2003	NBH03-L-C-3	1 Lobster	Station C SP Rock C"1"	NBH Area 3	041 31.522' 070 56.268'	Lobster Pots	
03/06/2003	NBH03-L-C-3	1 Lobster	Station C SP Rock C"1"	NBH Area 3	041 31.522' 070 56.268'	Lobster Pots	
03/06/2003	NBH03-L-C-3	1 Lobster	Station C SP Rock C"1"	NBH Area 3	041 31.522' 070 56.268'	Lobster Pots	
20/06/2003	NBH03-L-D-3	1 Lobster	Station D Sand Spit R"4"	NBH Area 3	041 31.861' 070 54.799'	Lobster Pots	

FIELD COLLECTION FORM 1 (Continued): DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30
EMMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH03 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:
COLLECTOR: MDMF Matthew Camisa SHIPPER: _____ SAMPLE CONDITION: FRESH _____ FROZEN X

DATE DDMMYY	COLLECTION/T AG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
20/06/2003	NBH03-L-D-3	1 Lobster	Station D Sand Spit R"4"	NBH Area 3	041 31.861' 070 54.799'	Lobster Pots	
20/06/2003	NBH03-L-D-3	1 Lobster	Station D Sand Spit R"4"	NBH Area 3	041 31.861' 070 54.799'	Lobster Pots	
24/06/2003	NBH03-L-E-3	1 Lobster	Station E Lone Rock N"4"	NBH Area 3	041 33.635' 070 54.926'	Lobster Pots	
26/06/2003	NBH03-L-E-3	1 Lobster	Station E Lone Rock N"4"	NBH Area 3	041 33.635' 070 54.926'	Lobster Pots	
26/06/2003	NBH03-L-E-3	1 Lobster	Station E Lone Rock N"4"	NBH Area 3	041 33.635' 070 54.926'	Lobster Pots	
09/06/2003	NBH03-L-A-2	1 Lobster	Station A SMAST Pier	NBH Area 2	041 35.556' 070 54.669'	Lobster Pots	
09/06/2003	NBH03-L-A-2	1 Lobster	Station A SMAST Pier	NBH Area 2	041 35.556' 070 54.669'	Lobster Pots	
09/06/2003	NBH03-L-A-2	1 Lobster	Station A SMAST Pier	NBH Area 2	041 35.556' 070 54.669'	Lobster Pots	
20/6/2003	NBH03-L-B-2	1 Lobster	Station B Sconticut Neck	NBH Area 2	041 35.938' 070 52.043'	Lobster Pots	
20/06/2003	NBH03-L-B-2	1 Lobster	Station B Sconticut Neck	NBH Area 2	041 35.938' 070 52.043'	Lobster Pots	

FIELD COLLECTION FORM 1 (Continued): DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30
EMMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH03 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:
COLLECTOR: MDMF Matthew Camisa SHIPPER: _____ SAMPLE CONDITION: FRESH _____ FROZEN X

DATE DDMMYY	COLLECTION/T AG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
20/06/2003	NBH03-L-B-2	1 Lobster	Station B Sconticut Neck	NBH Area 2	041 35.938' 070 52.043'	Lobster Pots	
20/06/2003	NBH03-L-C-2	1 Lobster	Station C Ricketsons Pt.	NBH Area 2	041 34.785' 070 55.936'	Lobster Pots	
24/06/2003	NBH03-L-C-2	1 Lobster	Station C Ricketsons Pt.	NBH Area 2	041 34.785' 070 55.936'	Lobster Pots	
24/06/2003	NBH03-L-C-2	1 Lobster	Station C Ricketsons Pt.	NBH Area 2	041 34.785' 070 55.936'	Lobster Pots	
6/6/2003	NBH03-L-D-2	1 Lobster	Station D E-Fort Rodman	NBH Area 2	041 35.767' 070 53.922'	Lobster Pots	
6/6/2003	NBH03-L-D-2	1 Lobster	Station D E-Fort Rodman	NBH Area 2	041 35.767' 070 53.922'	Lobster Pots	
6/6/2003	NBH03-L-D-2	1 Lobster	Station D E-Fort Rodman	NBH Area 2	041 35.767' 070 53.922'	Lobster Pots	
03/06/2003	NBH03-L-E-2	1 Lobster	Station E Fort Phoenix	NBH Area 2	041 37.422' 070 54.171'	Lobster Pots	
03/06/2003	NBH03-L-E-2	1 Lobster	Station E Fort Phoenix	NBH Area 2	041 37.422' 070 54.171'	Lobster Pots	
09/06/2003	NBH03-L-E-2	1 Lobster	Station E Fort Phoenix	NBH Area 2	041 37.422' 070 54.171'	Lobster Pots	

FIELD COLLECTION FORM 2: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30 EMMERSON AVE.,
GLOUCESTER, MA 01930

PROJECT #: NBH03 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Matthew Camisa SHIPPER: _____ SAMPLE CONDITION: FRESH _____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/T AG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
21/07/03	NBH03-L-A-1	3 Blue Crabs	Station A N of Coggeshall	NBH Area 1	041 39.622' 070 55.012'	Crab Pots	
18/07/03	NBH03-L-B-1	3 Blue Crabs	Station B N of Rte 195	NBH Area 1	041 39.330' 070 54.965'	Crab Pots	
18/07/03	NBH03-L-C-1	3 Blue Crabs	Station C NE of Popes	NBH Area 1	041 38.703' 070 54.820'	Crab Pots	
29/07/03	NBH03-L-D-1	3 Blue Crabs	Station D N of Crow I	NBH Area 1	041 38.248' 070 54.638'	Crab Pots	
29/07/03	NBH03-L-E-1	3 Blue Crabs	Station E E of opening on shore	NBH Area 1	041 37.582' 070 54.181'	Crab Pots	

FIELD COLLECTION FORM 3: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30 EMMERSON AVE.,
GLOUCESTER, MA 01930

PROJECT #: NBH03 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:
COLLECTOR: MDMF Matthew Camisa SHIPPER: _____ SAMPLE CONDITION: FRESH _____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/T AG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
02/07/2003	NBH03-FF-A-3	3 Scup	Station A Great Ledge	NBH Area 3	041 32.540' 070 53.766'	Rod and Reel	
02/07/2003	NBH03-FF-B-3	3 Scup	Station B Negro Ledge	NBH Area 3	041 32.922' 070 52.023'	Fish Pots	
01/07/2003	NBH03-FF-C-3	3 Scup	Station C R "8"	NBH Area 3	041 32.228' 070 54.306'	Rod and Reel	
01/07/2003	NBH03-FF-D-3	3 Scup	Station D Radome	NBH Area 3	041 32.281' 070 55.292'	Rod and Reel	
01/07/2003	NBH03-FF-E-3	3 Scup	Station E Angelica Rock	NBH Area 3	041 34.711' 070 51.498'	Fish Pots	
01/07/2003	NBH03-FF-A-2	3 Scup	Station A SMAST Pier	NBH Area 2	041 35.556' 070 54.669'	Rod and Reel	
07/07/2003	NBH03-FF-B-2	3 Scup	Station B E of Fort Rodman	NBH Area 2	041 35.596' 070 53.922'	Fish Pots	
02/07/2003	NBH03-FF-C-2	3 Scup	Station C W of Opening	NBH Area 2	041 37.380' 070 54.430'	Fish Pots	
01/07/2003	NBH03-FF-D-2	3 Scup	Station D Lighthouse	NBH Area 2	041 36.242' 070 53.683'	Rod and Reel	
02/07/2003	NBH03-FF-E-2	3 Scup	Station E Egg Rocks	NBH Area 2	041 36.523' 070 53.258'	Rod and Reel	

FIELD COLLECTION FORM 4: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30 EMMERSON AVE.,
GLOUCESTER, MA 01930

PROJECT #: NBH03 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Matthew Camisa SHIPPER: Matt Camisa SAMPLE CONDITION: FRESH FROZEN

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
18/07/2003	NBH03-FF-A-1	1 Winter Flounder	Station A West of barrier opening	NBH Area 1	041 37.465' 070 54.438'	Scup Trap	
31/07/2003	NBH03-FF-B-1	2 Winter Flounder	Station B N. of Coggeshall	NBH Area 1	041 39.474' 070 55.002'	Gillnet	
17/09/2003	NBH03-FF-A-3	13 Summer Flounder	Station A Cru. 2392 Sta. 91	NBH Area 3	041 33.980' 070 54.210'	Trawl net	
17/09/2003	NBH03-FF-A-3	1 Black Sea Bass	Station A Cru. 2392 Sta. 91	NBH Area 3	041 33.980' 070 54.210'	Trawl net	
17/09/2003	NBH03-FF-A-3	1 Winter Flounder	Station A Cru. 2392 Sta. 91	NBH Area 3	041 33.980' 070 54.210'	Trawl net	

FIELD COLLECTION FORM 5: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30 EMMERSON AVE.,
GLOUCESTER, MA 01930

PROJECT #: NBH 02 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: Dave Whittaker SHIPPER: _____ CONDITION: FRESH _____ FROZEN X
SAMPLE

COLLECTION DATE DDMMYY	COLLECTION TAG #	SPECIES and # IN SAMPLE	STATION I.D.	LOCATION	LAT./LONG. DEGREE/MINUTES	COLLECTION METHOD	RESERVED FOR OFFICE USE
27-03-03	1	19 Quahogs	E	III	41-34.25N 70-53.75W	Hydraulic Dredge	
12-06-03	2	14 Quahogs	E	I	41-39.72N 70-55.058W	Rake	
12-06-03	3	15 Quahogs	D	I	41-38.773N 70-54.688	Rake	
12-06-03	4	14 Quahogs	C	I	41-38.249N 70-54.633W	Rake	
12-06-03	5	13 Quahogs	A	I	41-37.413N 70-54.627W	Rake	
12-06-03	6	14 Quahogs	B	I	41-37.929N 70-54.835W	Rake	
12-06-03	7	14 Quahogs	D	II	41-36.699N 70-53.258W	Rake	
12-06-03	8	12 Quahogs	E	II	41-36.892N 70-54.530W	Rake	
12-06-03	9	13 Quahogs	C	II	41-35.796N 70-54.117W	Rake	
12-06-03	10	12 Quahogs	A	II	41-36.816N 70-55.307W	Rake	
12-06-03	11	12 Quahogs	* B	II	41-36.473N 70-55.863W	Rake	
12-06-03	12	15 Quahogs	A	III	41-35.50N 70-57.13W	Rake	

FIELD COLLECTION FORM 5 (Continued): DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER Marine Fisheries Station, 30
EMMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH 02 REQUESTED BY/AGENCY: Oscar Pancorbo/ Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: Dave Whittaker SHIPPER: _____ CONDITION: FRESH _____ FROZEN X
SAMPLE

COLLECTION DATE DDMMYY	COLLECTION TAG #	SPECIES and # IN SAMPLE	STATION I.D.	LOCATION	LAT./LONG. DEGREE/MINUTES	COLLECTION METHOD	RESERVED FOR OFFICE USE
12-06-03	13	15 Quahogs	B	III	41-35.473N 70-57.610W	Rake	
12-06-03	14	16 Quahogs	^{**} D	III	41-35.290N 70-50.915W	Rake	
12-06-03	15	16 Quahogs	C	III	41-35.290N 70-51.191W	Rake	

* Station B II was moved to the Rogers Street Location due to the lack of shellfish at the original site. The new site is approximately 200 meters north of the original.

** Station heavenly oiled by Bouchard Oil Spill on 4/28/03.