Contaminated Monitoring Report for Seafood Harvested in 2009 from the New Bedford Harbor Superfund Site

by

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and

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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 2009. 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-New England Region (EPA).

Due to the identification of high PCB levels in area seafood, the MA Department of Public Health 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 a 1998 Record of Decision (ROD) (EPA, 1998) for the site, approximately 900,000 cubic yards (cy) of PCB-contaminated sediments and soils are to be removed. Based on annual funding rates received to date, the cleanup may take twenty years or more from now to complete. 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, 2009**)**. These species include lobster (*Homarus americanus*), blue crabs (*Carcinus maenas*), 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. Because there has been no significant change since 2002 in the PCB concentration levels to below the regulated restrictions (MADPH, 1979), the species collected for the most part in 2009 were ones that do not currently have restrictions that may pose a risk, if consumed. Thus, lobster, blue crab, eel, and quahog in Area I were not samples in 2009 because their PCB concentrations were significantly above the seafood restrictions. However, additional sampling did include a one post-spawn quahog event, bluefish and channel whelk. The rest of the species collected were the same as the previous year and included pre-spawn quahog, black sea bass, alewife, and scup. Each composite sample consists of five legally harvestable organisms for black

sea bass, scup, and channel whelk. For blue fish, the composite sample consists of three legally harvestable organisms. For alewife, the composite sample consists of one harvestable organism. 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. 2009 Field Collection

The DMF field sampling program included the collection of alewife, bluefish, black sea bass, channel whelk, quahog, and scup. The Sampling Report for all species collected in 2009 is in Appendix C.

Alewife was collected using nets in April (Figure 2). Bluefish was collected using rod and reel in September (Figure 3). Black sea bass was harvested by fish pots during May and June (Figure 4). Channel whelk was collected using fish pots in May and June (Figure 5).

The collection of quahog was done pre-spawn in May and the post-spawn in October and November (Figure 6). Quahogs were collected using a rake from two of the three seafood closure areas. Six stations were located in Area 2 and four stations were located in Area 3.

Scup was collected using fish pots in May and June (Figure 7).

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. No flounder were collected because the stock is considered "overfished" as determined by the Atlantic States Marine Fisheries Commission. Black sea bass was substituted for flounder.

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 the quahog samples was the compositing, twelve individual samples from each location were combined to form one composite sample per location.

The seafood samples were analyzed for four 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 four Aroclors measured were Aroclors 1242, 1248, 1254 and 1260. In the previous years of sampling, a fifth Aroclor 1232 was included. Aroclor 1232 was dropped in 2009, because in all the previous sampling rounds, it was never detected. 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, 2008a**).** 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 were 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 identification was performed using pattern recognition from the GC/MS-SIM chromatogram and comparing responses of three to five discrete peaks unique to each

Aroclor. Aroclor concentrations were determined by calculating the concentration of each corresponding peak in the sample chromatogram and the three to 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 5 (MassDEP, 2008) should further details on chromatographic conditions, quality control criteria, and other elements of the analysis be needed. 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

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). Figures 8 through 12 graphically summarize the current data, and Tables 1 through 7 tabulate the totals and averages of the congener and Aroclor sample results.

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.

In the current data, the congener and Aroclor data generally had a correlation. For scup, black sea bass, and channel whelk and quahog in Area 3, the Aroclors are higher than the congeners. For the alewife, bluefish, and channel whelk and quahog in Area 2, the Aroclors and congeners were similar.

For the quahog, there was an average increase (across the two closure areas) of about

94% (194% - 100%) post-spawn in Area 2 and about252% (252% - 100%) post-spawn in Area 3 in PCB congener concentration after spawning using only the detected values as shown in Table 7. There was an average 8% increase (108% - 100%) post-spawn in the lipid concentration for the quahog after spawning. In the previous sampling round in 2008, there was an increase in the PCB concentration and lipid ratios between pre and post-spawn, but a decrease in 2007.

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. Alewife (Area I, congener basis = 2.0 ppm) were found to be elevated equal the FDA level of 2 ppm. The highest PCB level reported for this data set was the 2.0 ppm for alewife (see Table 1).

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"). Also, because this seafood sampling program has been on going since 2002, the previous years reports can be found at the EPA's web site.

6. References

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FIGURES

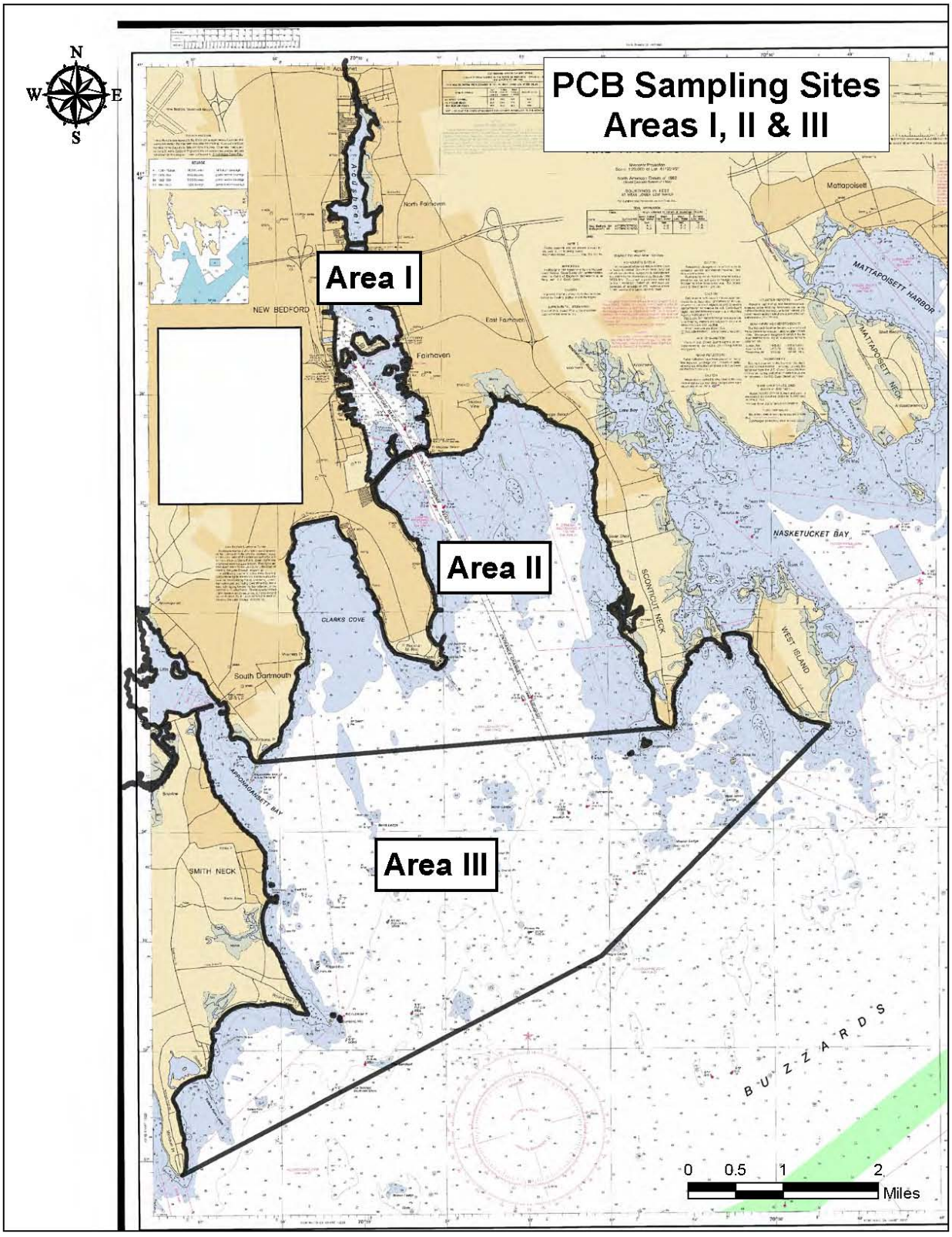

Figure 1 Fish Closure Areas I to III

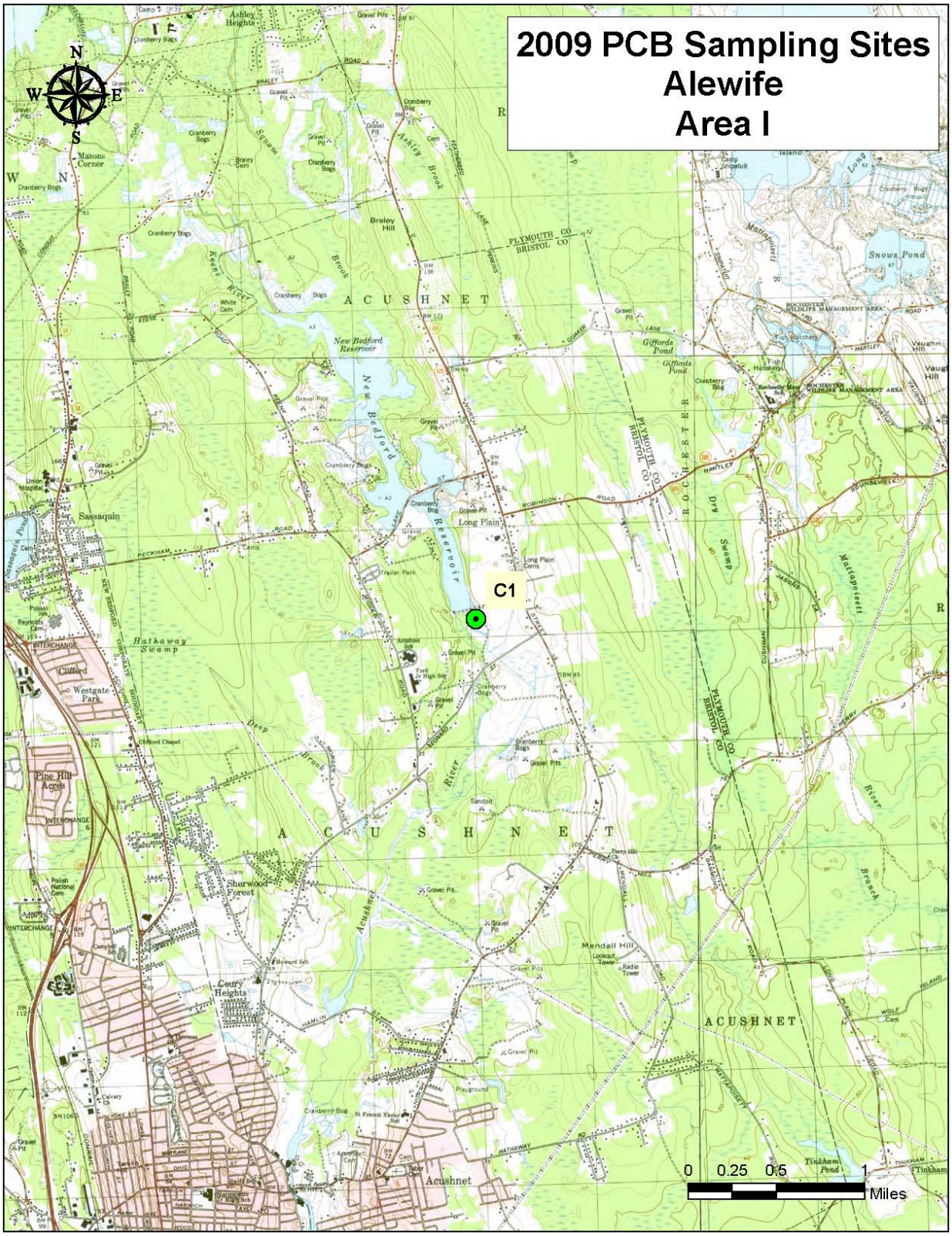

Figure 2 Alewife Sample Locations - Area I

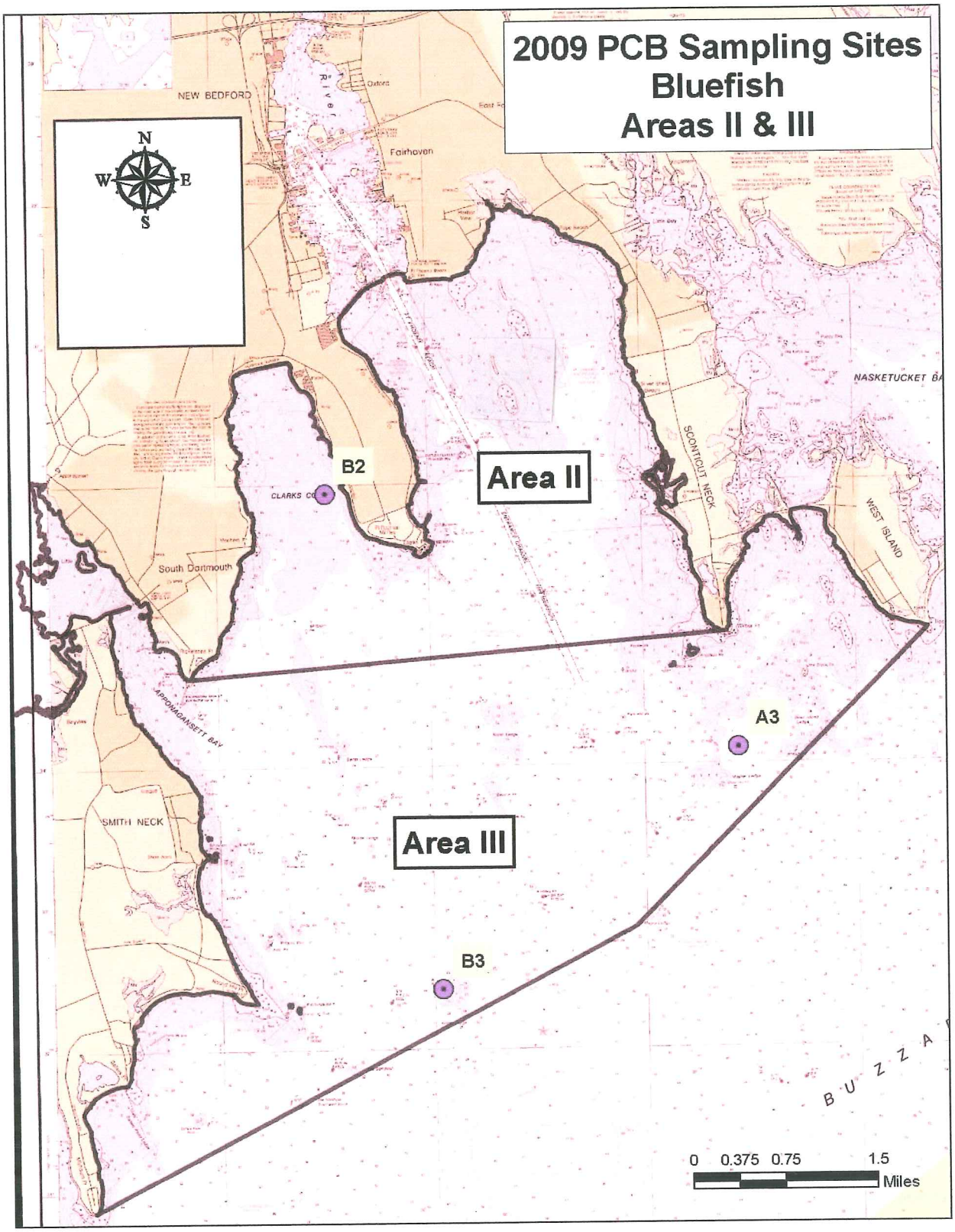

Figure 3 Bluefish Area II & III

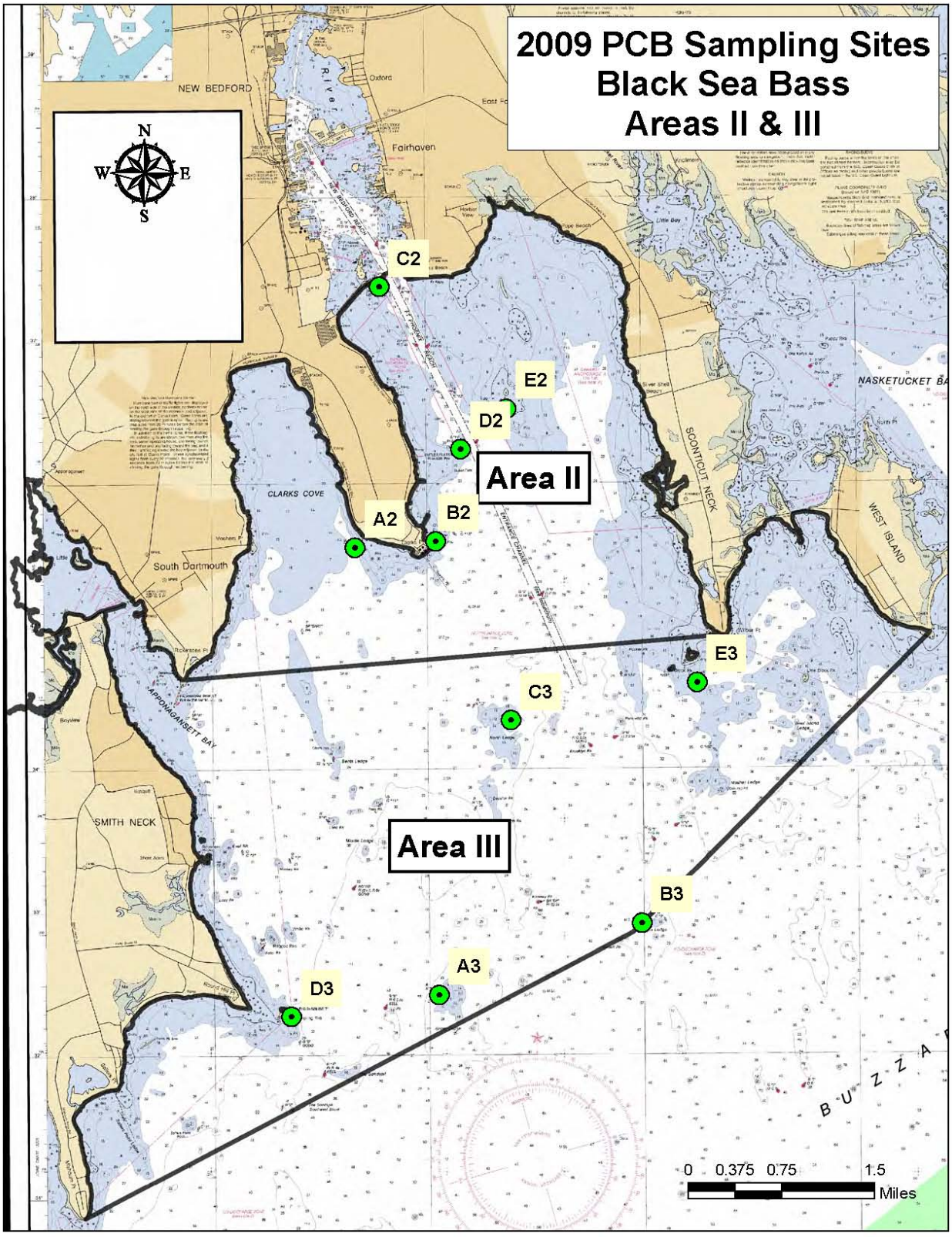

Figure 4 Sea Bass Sample Locations - Area II & III

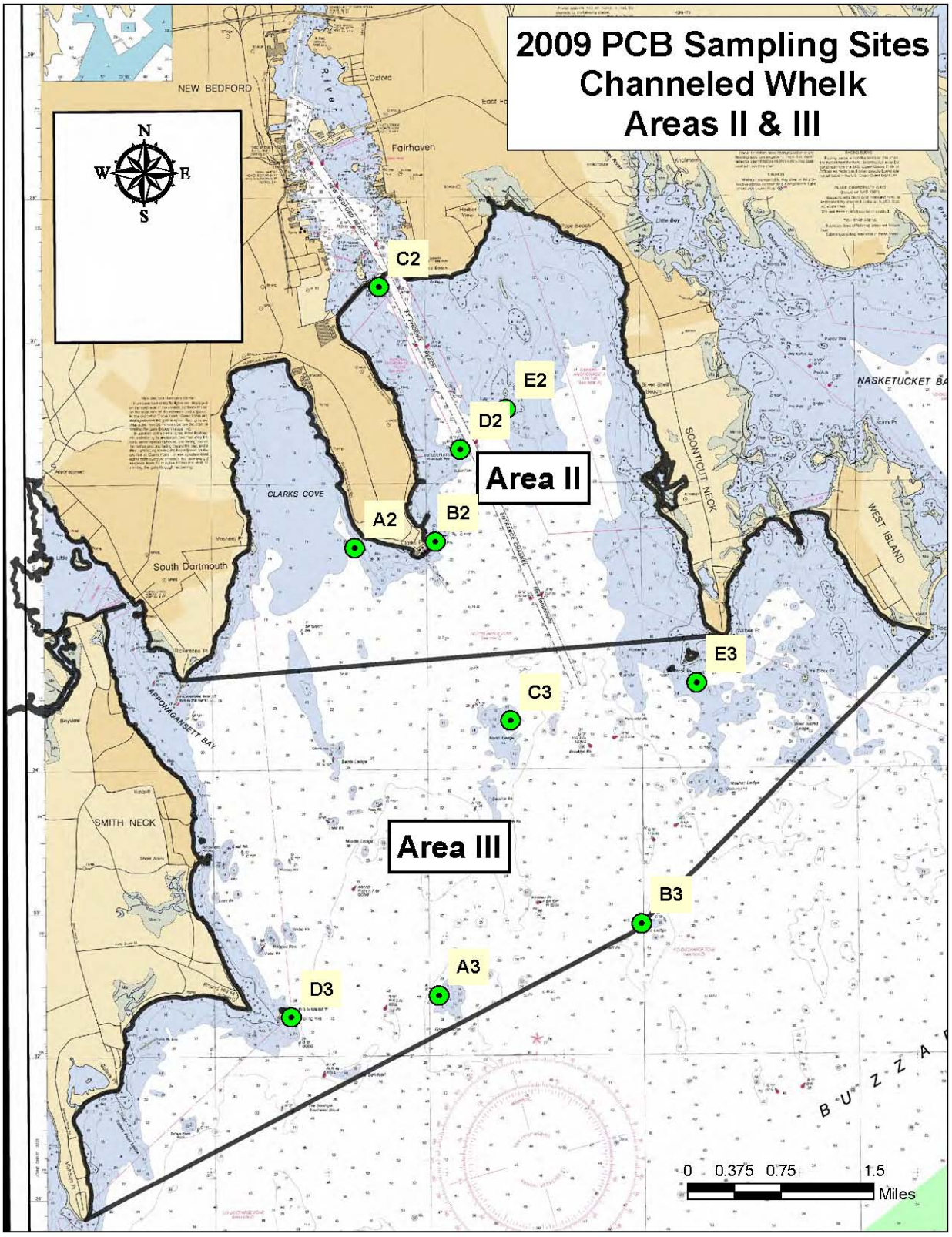

Figure 5 Channel Whelk Sample Locations –Area II & III

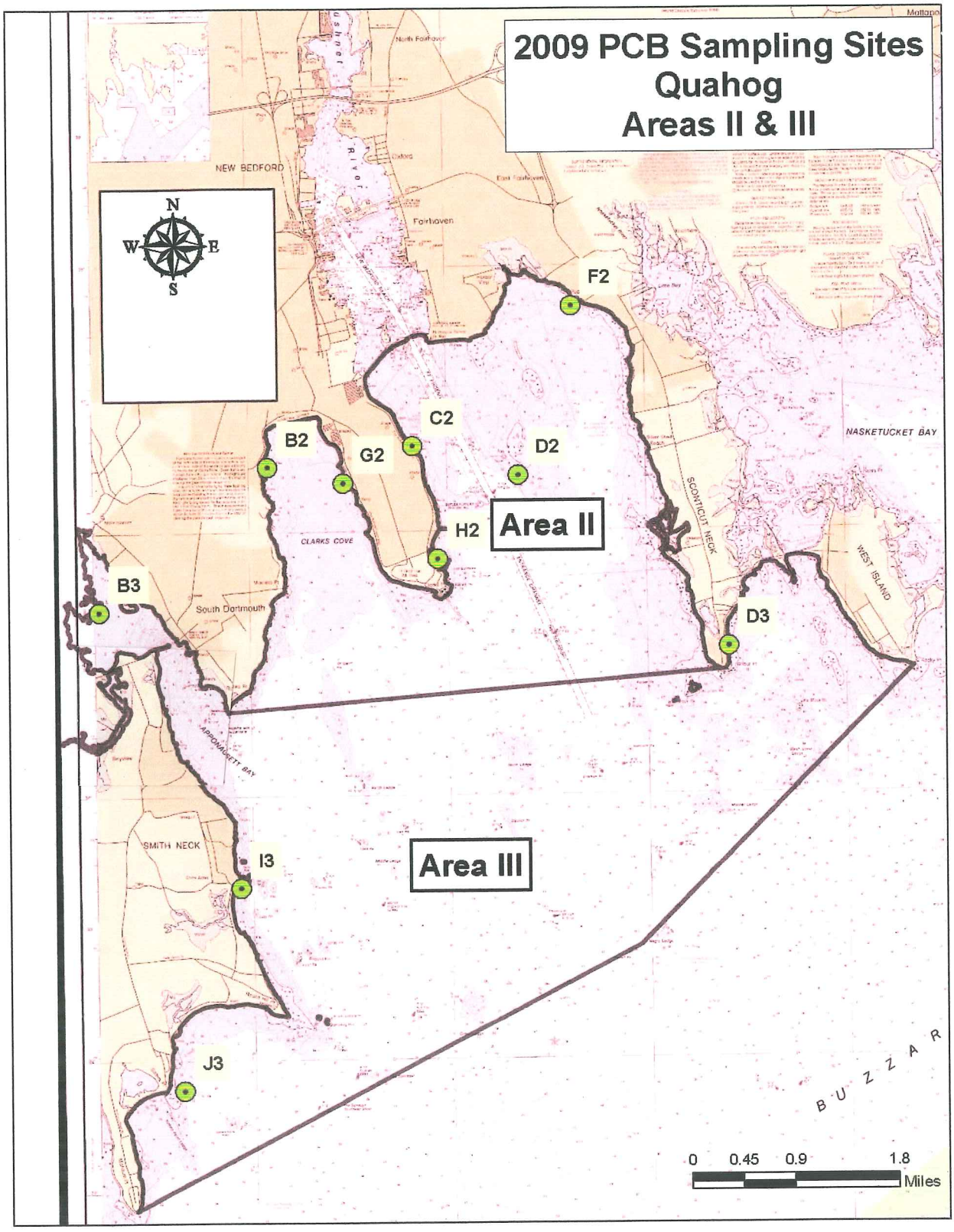

Figure 6 Quahog (Pre and Post-spawn) Area II, & III

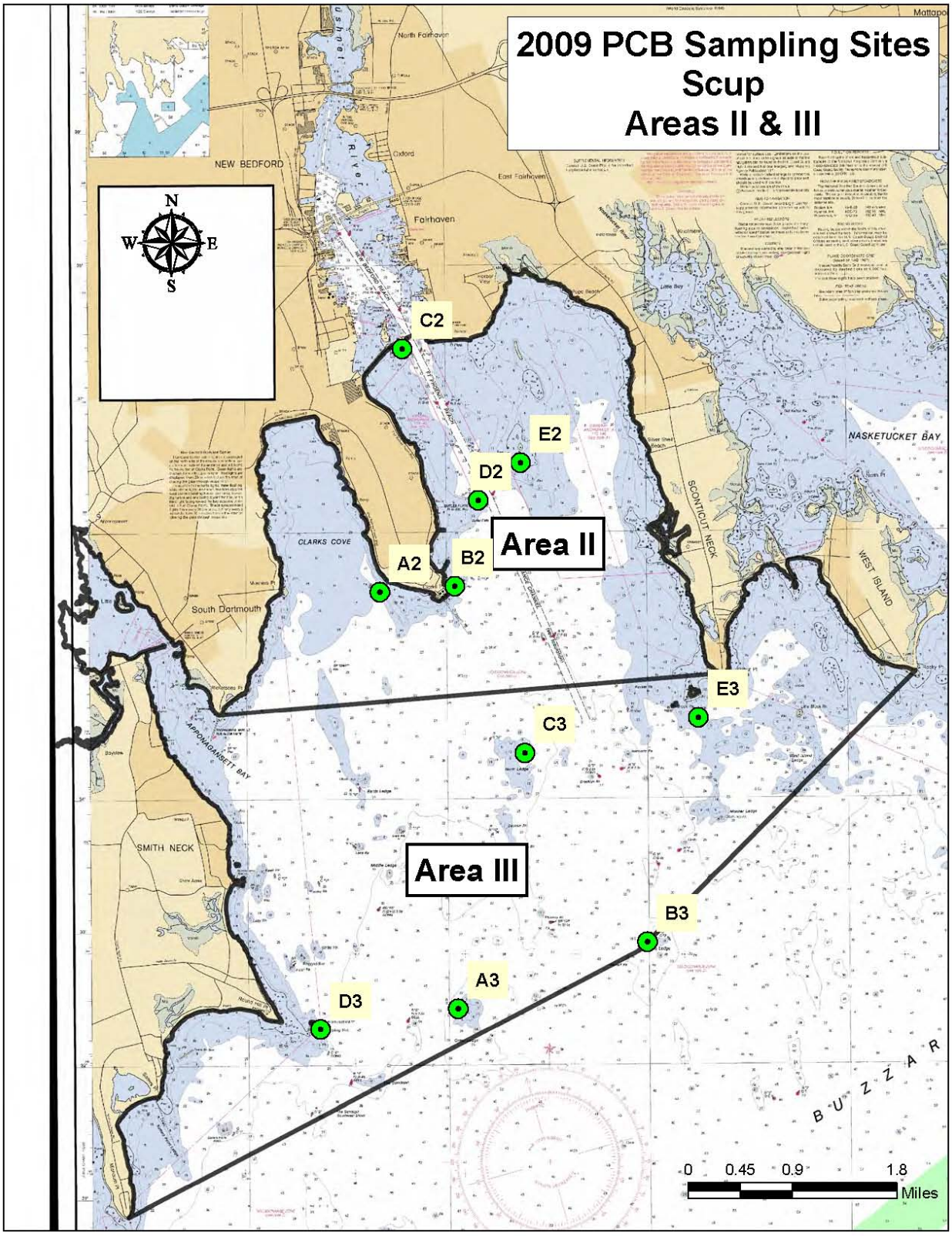

Figure 7 Scup Area II & III

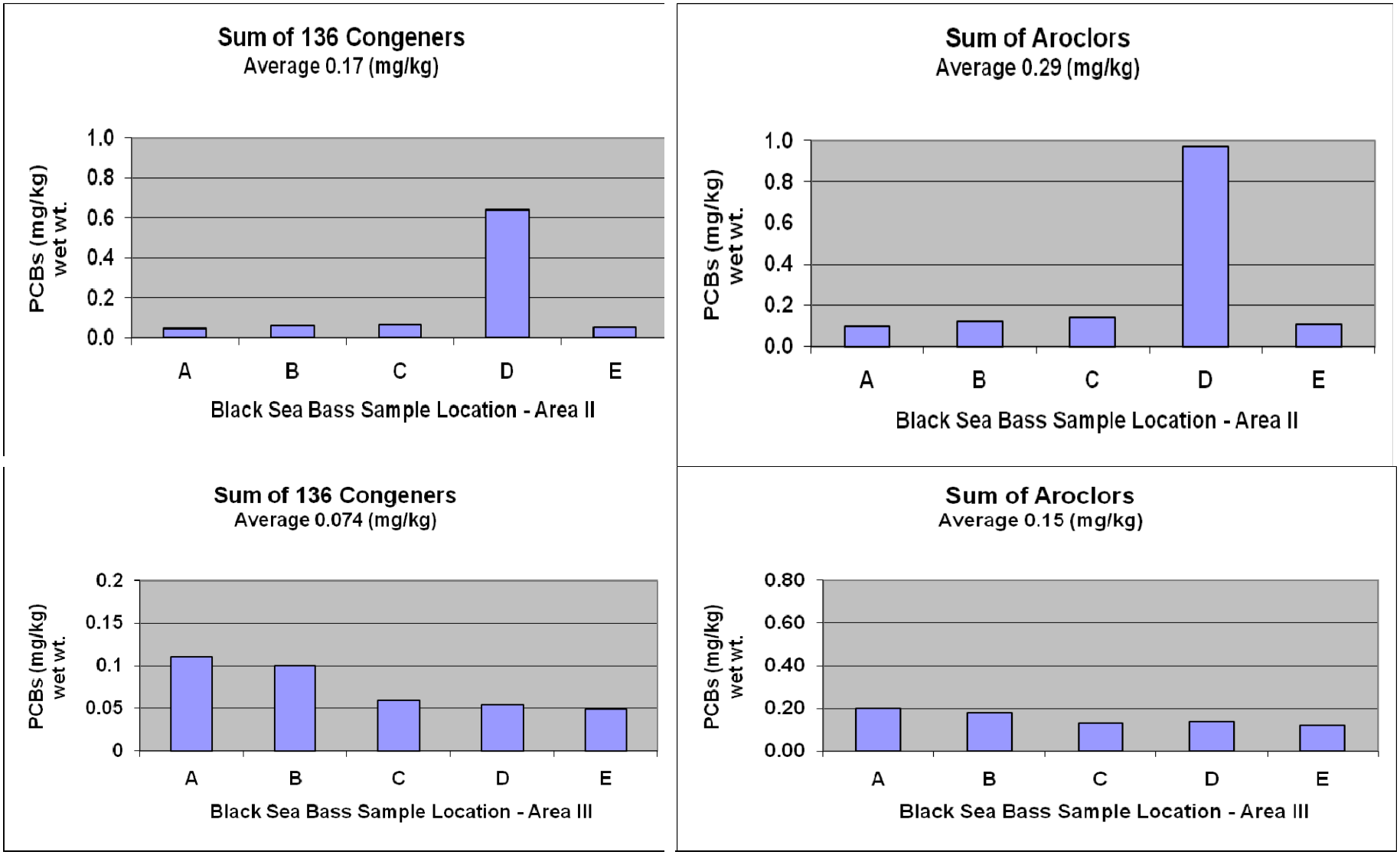

Figure 8 PCBs Concentrations in Black Sea Bass 2009

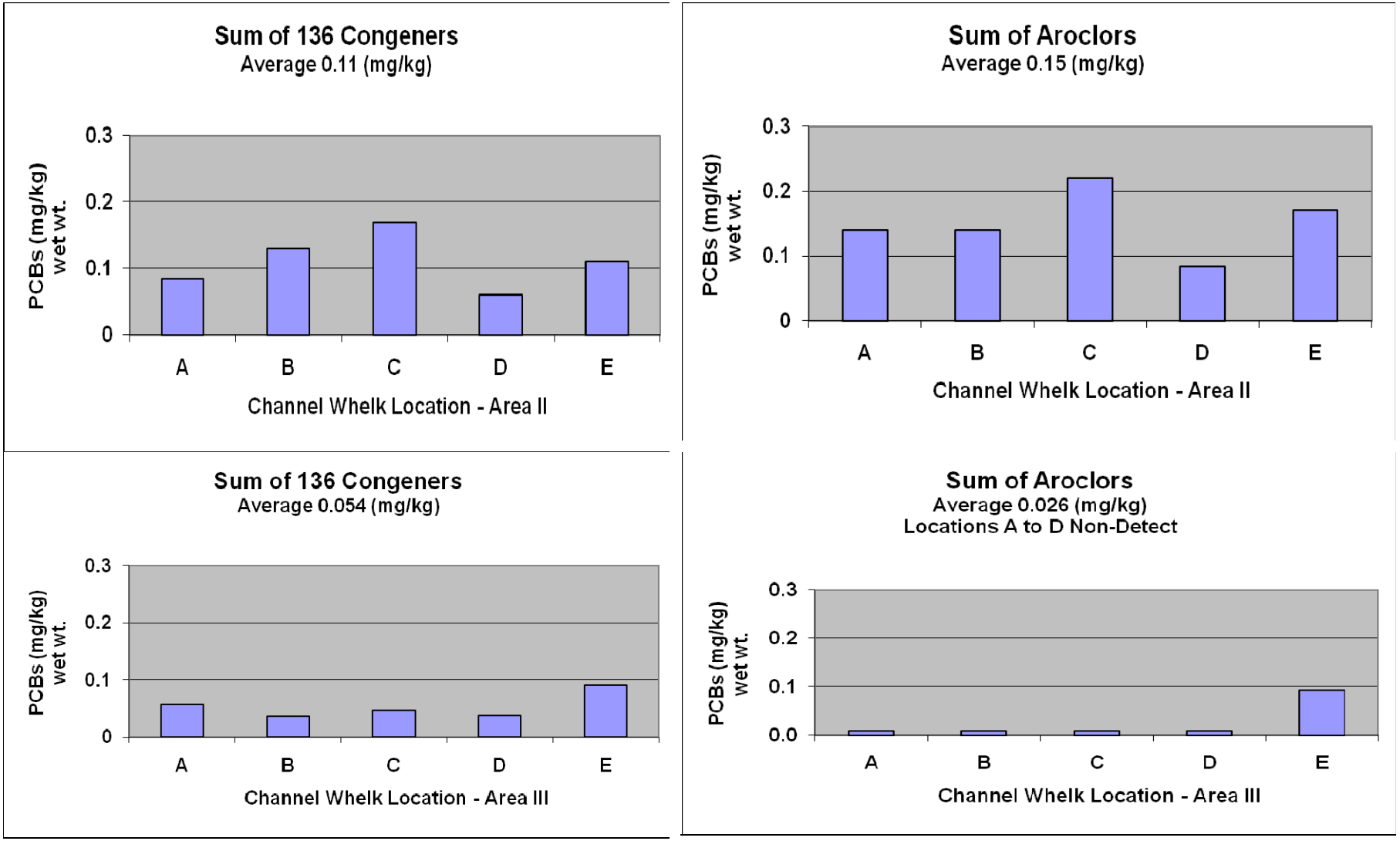

Figure 9 PCBs Concentrations in Channel Whelk 2009

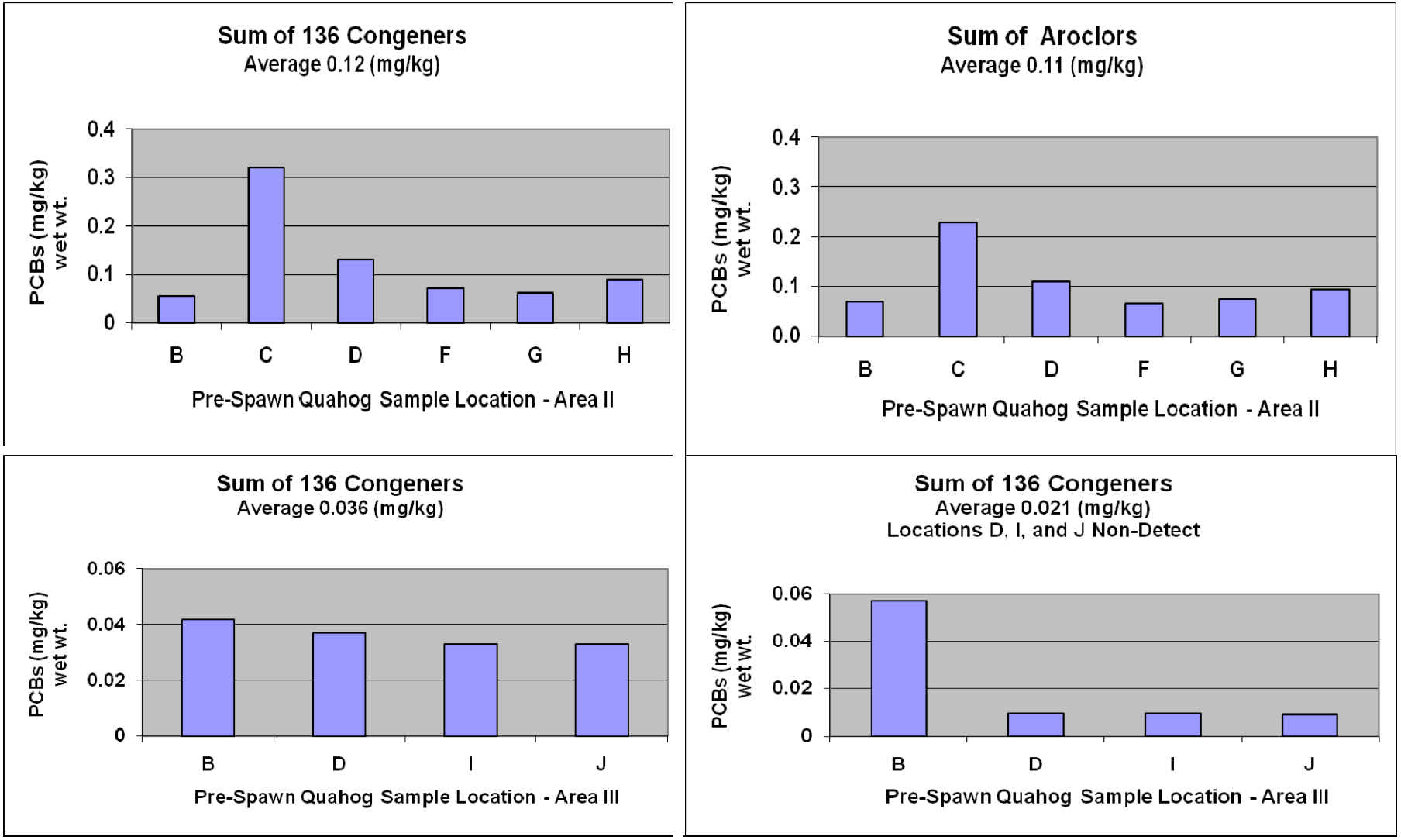

Figure 10 PCBs Concentrations in Quahog (Pre-Spawn) 2009

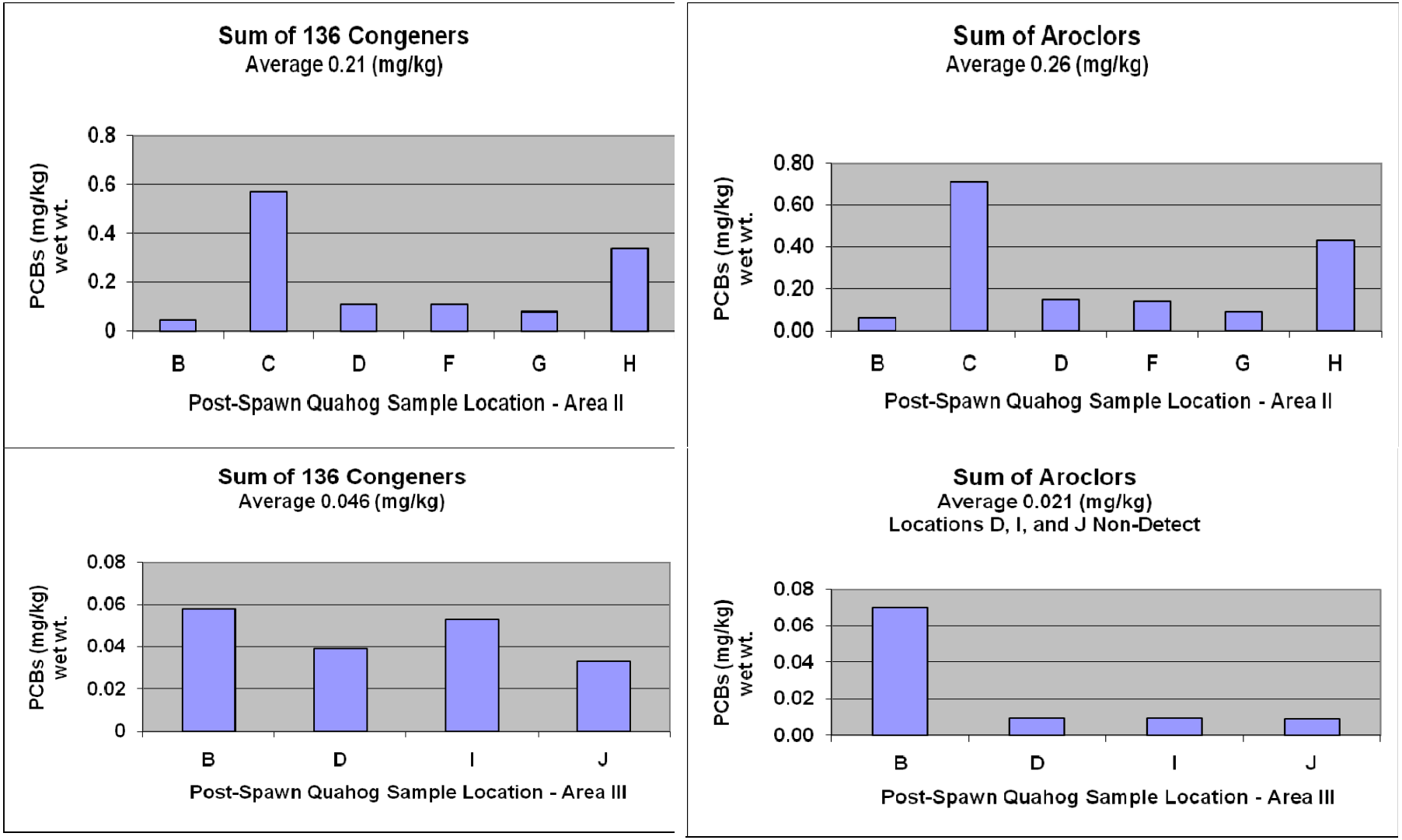

Figure 11 PCBs Concentrations in Quahog (Post-Spawn) 2009

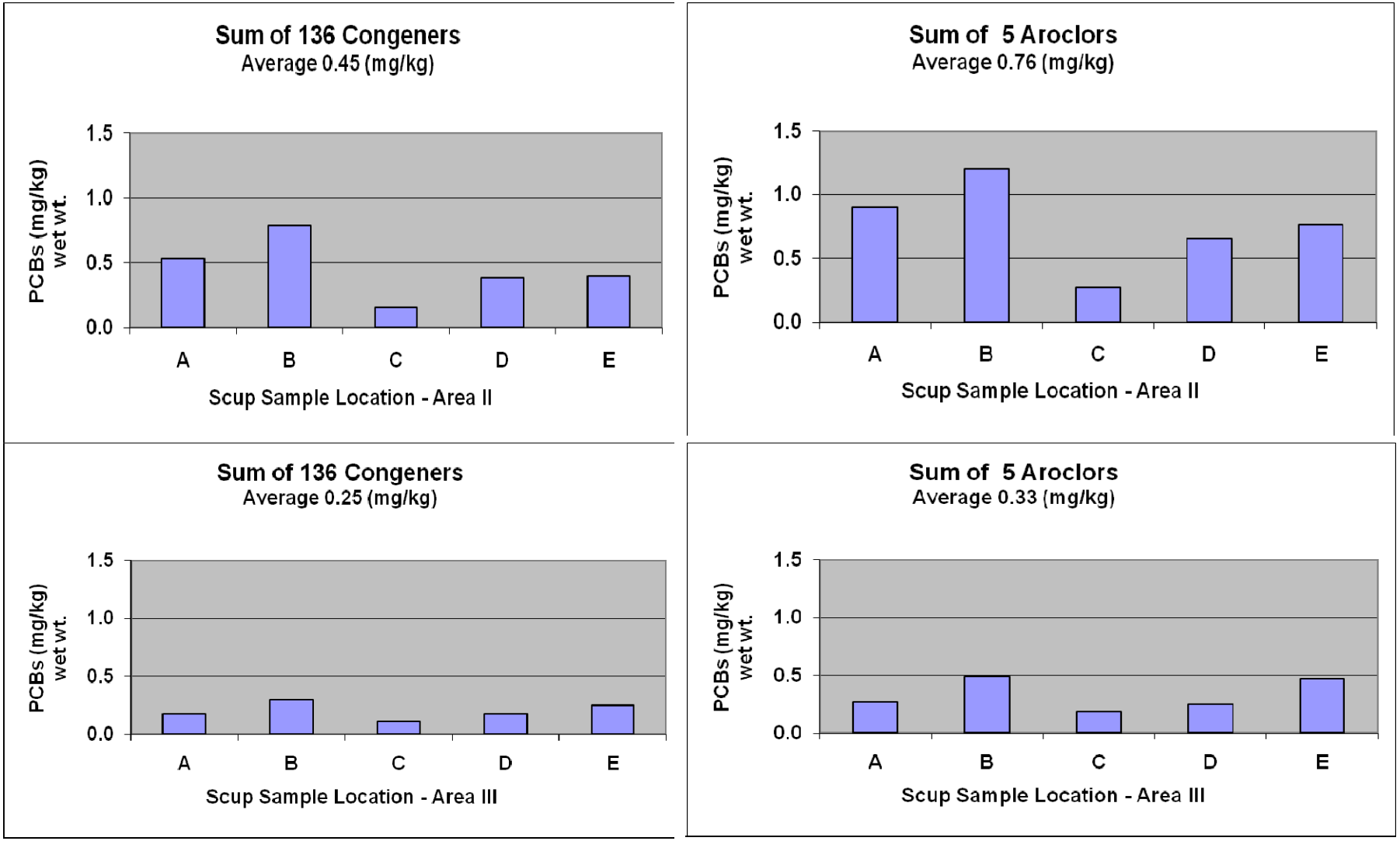

Figure 12 PCBs Concentrations in Scup 2009

TABLES

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 4 Aroclor results (1/2 SQL used for non-detected results); if all Aroclor results are not detected, then total value represets 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 Alewife and Scup (mg/kg, wet weight) 2009

		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 Aroclor[6]	
		Units	PERCENT		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Species	Area	Station														
Alewife	I	A	2.2		2.0	J4	2.0		0.84	J4	0.044	J3	0.84	J4	1.9	J4
Scup	II	A	1.3		0.53	J3	0.52		0.32	J4	0.086	J4	0.32	J4	0.90	J3
Scup	II	B	1.3		0.79	J3	0.78		0.45	J4	0.12	J4	0.46	J4	1.2	J3
Scup	II	C	0.99		0.16	J3	0.15		0.088	J4	0.021	J3	0.091	J3	0.27	J2
Scup	II	D	1.2		0.39	J3	0.38		0.23	J4	0.064	J3	0.24	J4	0.66	J3
Scup	II	E	1.1		0.40	J3	0.39		0.25	J4	0.069	J3	0.26	J4	0.77	J3
		Average	1.2		0.45	J3	0.44		0.27	J4	0.072		0.27		0.76	
Scup	III	A	1.1		0.17	J3	0.15		0.092	J4	0.024	J3	0.095	J3	0.27	J2
Scup	III	B	0.88		0.30	J3	0.29		0.17	J4	0.042	J3	0.17	J4	0.49	J3
Scup	III	C	1.6		0.11	J2	0.091		0.059	J3	0.015	J2	0.061	J3	0.19	J2
Scup	III	D	0.50		0.17	J3	0.16		0.093	J4	0.022	J3	0.097	J3	0.25	J2
Scup	III	E	1.2		0.25	J3	0.24		0.15	J4	0.040	J3	0.16	J4	0.47	J3
		Average	1.1		0.20		0.19		0.11		0.029		0.12		0.33	

Table 2 Summary of Sample Data for Bluefish (mg/kg, wet weight) 2009

	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 Aroclor[6]	
	Units	PERCENT		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Area	Station														
II	B	2.4	J	0.24	J3	0.23		0.12	J4	0.028	J3	0.12	J3	0.27	J3
III	A	0.94	J	0.15	J3	0.14		0.076	J4	0.019	J3	0.079	J3	0.14	J2
III	B	1.4	J	0.23	J3	0.22		0.11	J4	0.026	J3	0.12	J3	0.26	J3
	Average	1.2	J	0.19	J3	0.18		0.093	J4	0.023	J3	0.10	J3	0.20	

Table 3 Summary of Sample Data for Black Sea Bass (mg/kg, wet weight) 2009

	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 Aroclor[6]	
	Units	PERCENT		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Area	Station														
II	A	0.98		0.047	J1	0.018		0.018	J2	0.0056	J2	0.020	J2	0.098	J2
II	B	1.2		0.059	J2	0.036		0.028	J3	0.0079	J2	0.030	J2	0.12	J2
II	C	1.1		0.067	J2	0.042		0.033	J3	0.0099	J2	0.035	J2	0.14	J2
II	D	1.2		0.64	J3	0.63		0.37	J4	0.10	J4	0.38	J4	0.97	J3
II	E	1.4		0.051	J1	0.023		0.020	J2	0.0062	J2	0.022	J2	0.11	J2
	Average	1.2		0.17		0.15		0.094		0.026		0.097		0.29	
III	A	2.4		0.11	J2	0.087		0.059	J3	0.016	J3	0.061	J3	0.20	J2
III	B	1.0		0.10	J2	0.077		0.055	J3	0.015	J2	0.057	J3	0.18	J2
III	C	2.4		0.059	J2	0.034		0.029	J3	0.0087	J2	0.031	J2	0.13	J2
III	D	1.5		0.054	J2	0.028		0.025	J2	0.0074	J2	0.027	J2	0.14	J2
III	E	1.0		0.049	J1	0.025		0.021	J2	0.0067	J2	0.023	J2	0.12	J2
	Average	1.7		0.074		0.050		0.038		0.011		0.040		0.15	J2

Table 4 Summary of Sample Data for Channel Whelk (mg/kg, wet weight) 2009

	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 Aroclor[6]	
	Units	PERCENT		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Area	Station														
II	A	0.069	J	0.085	J2	0.068		0.037	J3	0.0067	J2	0.039	J3	0.14	J2
II	B	0.10	U	0.13	J2	0.11		0.056	J3	0.011	J2	0.059	J3	0.14	J2
II	C	0.071	J	0.17	J3	0.16		0.082	J3	0.015	J3	0.085	J3	0.22	J2
II	D	0.14		0.06	J2	0.040		0.023	J3	0.0055	J2	0.025	J2	0.085	J2
II	E	0.074	J	0.11	J2	0.089		0.048	J3	0.0093	J2	0.051	J3	0.17	J2
	Average	0.091		0.11		0.093		0.049	J3	0.0095		0.052		0.15	J2
III	A	0.11		0.057	J2	0.035		0.022	J3	0.0054	J2	0.024	J2	0.0090	U
III	B	0.10	U	0.037	J1	0.0093		0.0098	J2	0.0032	J1	0.012	J2	0.0093	U
III	C	0.075	J	0.047	J1	0.022		0.016	J2	0.0044	J2	0.018	J2	0.0093	U
III	D	0.071	J	0.038	J1	0.013		0.011	J2	0.0037	J1	0.013	J2	0.0089	U
III	E	0.15		0.091	J2	0.074		0.038	J3	0.0071	J2	0.040	J3	0.094	J2
	Average	0.10		0.054		0.031		0.019		0.0048		0.021		0.026	

Table 5 Summary of Sample Data for Pre-Spawn Quahog (mg/kg, wet weight) 2009

	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 Aroclor[6]	
	Units	PERCENT		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Area	Station														
II	B	0.11		0.055	J1	0.027		0.017	J2	0.0053	J2	0.019	J2	0.070	J2
II	C	0.24		0.32	J3	0.31		0.14	J4	0.022	J3	0.14	J4	0.23	J2
II	D	0.21		0.13	J2	0.12		0.052	J3	0.0085	J2	0.054	J3	0.11	J2
II	F	0.14		0.071	J2	0.046		0.024	J2	0.0051	J2	0.027	J2	0.065	J2
II	G	0.20		0.062	J2	0.040		0.023	J2	0.0058	J2	0.024	J2	0.076	J2
II	H	0.12		0.09	J2	0.069		0.033	J2	0.0074	J2	0.036	J2	0.094	J2
	Average	0.17		0.12		0.10		0.048		0.0090		0.050		0.11	J2
III	B	0.21		0.042	J1	0.014		0.013	J2	0.0045	J2	0.015	J2	0.057	J2
III	D	0.27		0.037	J1	0.0067		0.0089	J1	0.0033	U	0.011	J1	0.0095	U
III	I	0.19		0.033	J1	0.00058		0.0061	J1	0.0031	U	0.0083	J1	0.0095	U
III	J	0.22		0.033	J1	0.0034		0.0068	J1	0.0030	U	0.0089	J1	0.0091	U
	Average	0.22		0.036	J1	0.0062		0.0087		0.0035		0.011		0.021	

Table 6 Summary of Sample Data for Post-Spawn Quahog (mg/kg, wet weight) 2009

	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 Aroclor[6]	
	Units	PERCENT		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
Area	Station														
II	B	0.16	J	0.048	J2	0.027		0.016	J2	0.0044	J2	0.018	J2	0.059	J2
II	C	0.42	J	0.57	J3	0.57		0.25	J4	0.034	J3	0.25	J4	0.71	J3
II	D	0.093	J	0.11	J2	0.10		0.046	J3	0.0081	J2	0.048	J3	0.15	J2
II	F	0.21	J	0.11	J2	0.097		0.045	J3	0.0078	J2	0.048	J3	0.14	J2
II	G	0.27	J	0.080	J2	0.062		0.032	J3	0.0075	J2	0.034	J3	0.089	J2
II	H	0.35	J	0.34	J3	0.33		0.14	J4	0.021	J3	0.15	J4	0.43	J3
	Average	0.25	J	0.21		0.20		0.088		0.014		0.091		0.26	
III	B	0.25	J	0.058	J2	0.037		0.020	J3	0.0057	J2	0.022	J2	0.070	J2
III	D	0.13	J	0.039	J1	0.013		0.011	J2	0.0036	J1	0.013	J2	0.0091	U
III	I	0.074	J	0.053	J2	0.031		0.018	J3	0.0048	J2	0.02	J2	0.0093	U
III	J	0.093	J	0.033	J1	0.0061		0.0073	J1	0.0032	J1	0.0093	J1	0.0089	U
	Average	0.14	J	0.046		0.022		0.014		0.0043		0.016		0.024	

Table 7 Comparison of Pre-Spawn and Post Spawn Quahog 2009

		Lipids			Total PCB Congeners Hits[2] (mg/kg)		
Area	Station	Pre	Post	Post /Pre Ratio, as%	Pre	Post	Post /Pre Ratio, as%
II	B	0.11	0.16		0.027	0.027	100
II	C	0.24	0.42		0.31	0.57	184
II	D	0.21	0.093		0.12	0.10	83
II	F	0.14	0.21		0.046	0.097	211
II	G	0.20	0.27		0.040	0.062	155
II	H	0.12	0.35		0.069	0.33	48
Average					0.102	0.198	194
III	B	0.21	0.25		0.014	0.037	264
III	D	0.27	0.13		0.0067	0.013	194
III	I	0.19	0.074		0.00058	0.031	5340
III	J	0.22	0.093		0.0034	0.0061	18
Average		0.19	0.205	108	0.00617	0.0218	353

Notes: For the PCBs concentrations, the post-spawn was divided by the pre-spawn and multiplied by 100 to obtain a percentage of the pre-spawn. Less than 100% means that the pre-spawn was higher than the post-spawn results. More than 100% means that the post-spawn was higher than the pre-spawn results. The averages were done for each area.
For the Lipid concentrations, the 10 post-spawn samples were averaged, the 10 pre-spawn samples were averaged, and then the Post/Pre was calculated and multiplied by 100 to obtain a percentage of the pre-spawn.

Appendices

Appendix A Laboratory Data

Appendix B Data Validation Summary, MassDEP, NBH Seafood Contaminant Survey Monitoring 2009 Sampling

Appendix C Seafood Monitoring - Field Sampling Activities for the NBH Superfund Site 2009 Annual Report

Appendix D Congeners Used to Quantitate Aroclors / Determination of PCBs by GC/MS-SIM for Aroclor

Appendix A

Laboratory Data

The following notes and footnotes apply to the tables in Appendix A

[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 4 Aroclor results (1/2 SQL used for non-detected results); if all Aroclor results are not detected, then total value represets 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 1A - SAMPLE DATA FOR QUAHOGS, PRE-SPAWNING (MG/KG WET WEIGHT) AREA II 2009

Parameter	Sample#	NBH09-SF-B-2		NBH09-SF-C-2		NBH09-SF-D-2		NBH09-SF-F-2		NBH09-SF-G-2		NBH09-SF-H-2	
	Species	Quahogs		Quahogs		Quahogs		Quahogs		Quahogs		Quahogs	
	Area	II		II		II		II		II		II	
	Station	Station B		Station C		Station D		Station F		Station G		Station H	
	Sample Date	5/19/2009		5/20/2009		5/20/2009		5/18/2009		5/20/2009		5/19/2009	
	Units												
Lipids	PERCENT	0.11		0.24		0.21		0.14		0.20		0.12	
Total PCB Congeners[1]	MG/KG	0.055	J1	0.32	J3	0.13	J2	0.071	J2	0.062	J2	0.090	J2
Total PCB Congeners Hits[2]	MG/KG	0.027		0.31		0.12		0.046		0.040		0.069	
Total NOAA Congeners[3]	MG/KG	0.017	J2	0.14	J4	0.052	J3	0.024	J2	0.023	J2	0.033	J2
Total WHO Congeners[4]	MG/KG	0.0053	J2	0.022	J3	0.0085	J2	0.0051	J2	0.0058	J2	0.0074	J2
Total NOAA / WHO Combined[5]	MG/KG	0.019	J2	0.14	J4	0.054	J3	0.027	J2	0.024	J2	0.036	J2
Total Aroclors[6]	MG/KG	0.070	J2	0.23	J2	0.11	J2	0.065	J2	0.076	J2	0.094	J2
Cl1-BZ#1	MG/KG	0.00048	UJ	0.00042	UJ	0.00044	UJ	0.00045	UJ	0.00043	UJ	0.00048	UJ
Cl1-BZ#3	MG/KG	0.00048	UJ	0.00042	UJ	0.00044	UJ	0.00045	UJ	0.00043	UJ	0.00048	UJ
Cl2-BZ#4/#10	MG/KG	0.00095	U	0.00077	J	0.00088	U	0.00089	U	0.00085	U	0.00097	U
Cl2-BZ#5/#8	MG/KG	0.00095	U	0.0016		0.00088	U	0.00089	U	0.00085	U	0.00097	U
Cl2-BZ#6	MG/KG	0.00048	U	0.0011	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl2-BZ#7	MG/KG	0.00048	U	0.00021	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl2-BZ#12/#13	MG/KG	0.00095	U	0.00074	J	0.00088	U	0.00089	U	0.00085	U	0.00097	U
Cl2-BZ#15	MG/KG	0.00048	UJ	0.0011	J	0.00034	J	0.00025	J	0.00043	UJ	0.00026	J
Cl3-BZ#16/#32	MG/KG	0.00095	U	0.0032		0.0010		0.00060	J	0.00085	U	0.00057	J
Cl3-BZ#17	MG/KG	0.00048	U	0.0025		0.00088	U	0.00051	U	0.00043	U	0.00048	U
Cl3-BZ#18	MG/KG	0.00051	UJ	0.0061		0.0020	U	0.0012	U	0.00072	U	0.0012	U
Cl3-BZ#19	MG/KG	0.00048	U	0.00061		0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl3-BZ#21/#33	MG/KG	0.00095	U	0.0019		0.00058	J	0.00089	U	0.00085	U	0.00097	U
Cl3-BZ#22	MG/KG	0.00048	U	0.0018		0.00067		0.00037	J	0.00027	J	0.00038	J
Cl3-BZ#24/#27	MG/KG	0.00095	U	0.0010		0.00088	U	0.00089	U	0.00085	U	0.00097	U
Cl3-BZ#25	MG/KG	0.00048	U	0.0048		0.0022		0.0012	U	0.00060	U	0.0010	U
Cl3-BZ#26	MG/KG	0.00082	U	0.0091		0.0039		0.0023	U	0.0012	U	0.0019	U
Cl3-BZ#28/#31	MG/KG	0.0021	U	0.025		0.0098		0.0056	U	0.0030	U	0.0051	U
Cl3-BZ#29	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl3-BZ#37	MG/KG	0.00048	U	0.0013		0.00041	J	0.00027	J	0.00043	U	0.00031	J
Cl4-BZ#40	MG/KG	0.00048	U	0.0011		0.00048		0.00024	J	0.00043	U	0.00032	J
Cl4-BZ#41/#71	MG/KG	0.00053	J	0.0060		0.0022		0.0011		0.00069	J	0.0012	
Cl4-BZ#42	MG/KG	0.00048	U	0.0022		0.00085		0.00053		0.00033	J	0.00046	J
Cl4-BZ#43/#49	MG/KG	0.0020	U	0.020		0.0084		0.0042		0.0026	U	0.0044	
Cl4-BZ#44	MG/KG	0.00073		0.0065		0.0026		0.0013		0.00091		0.0014	
Cl4-BZ#45	MG/KG	0.00048	U	0.00076		0.00026	J	0.00045	U	0.00043	U	0.00048	U
Cl4-BZ#46	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl4-BZ#47/#48	MG/KG	0.00097		0.0087		0.0033		0.0019		0.0012		0.0020	
Cl4-BZ#50	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl4-BZ#51	MG/KG	0.00048	U	0.00068		0.00030	J	0.00045	U	0.00043	U	0.00048	U
Cl4-BZ#52	MG/KG	0.0023	U	0.024		0.0094		0.0051		0.0031	U	0.0053	
Cl4-BZ#53	MG/KG	0.00048	U	0.0019		0.00076		0.00043	J	0.00023	J	0.00039	J
Cl4-BZ#54	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl4-BZ#56/#60	MG/KG	0.00095	U	0.0033		0.0012		0.00058	J	0.00051	J	0.00079	J
Cl4-BZ#63	MG/KG	0.00040	J	0.00070		0.00029	J	0.00030	J	0.00025	J	0.00048	U
Cl4-BZ#64	MG/KG	0.00032	J	0.0032		0.0014		0.00077		0.00044		0.00076	
Cl4-BZ#66	MG/KG	0.0011		0.0075		0.0027		0.0013		0.0013		0.0018	
Cl4-BZ#70	MG/KG	0.00090		0.0066		0.0023		0.0011		0.0011		0.0015	
Cl4-BZ#74	MG/KG	0.00053		0.0052		0.0018		0.00092		0.00070		0.0012	
Cl4-BZ#76	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl4-BZ#77	MG/KG	0.00048	U	0.00083		0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl4-BZ#81	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl5-BZ#82	MG/KG	0.00048	U	0.00066		0.00023	J	0.00045	U	0.00043	U	0.00048	U
Cl5-BZ#83	MG/KG	0.00029	J	0.00093		0.00041	J	0.00027	J	0.00026	J	0.00038	J
Cl5-BZ#85	MG/KG	0.00032	J	0.0014		0.00057		0.00030	J	0.00041	J	0.00045	J
Cl5-BZ#87	MG/KG	0.00059		0.0038		0.0015		0.00068		0.00070		0.0012	
Cl5-BZ#89	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl5-BZ#91	MG/KG	0.00047	J	0.0036		0.0016		0.00072		0.00059		0.0010	
Cl5-BZ#92	MG/KG	0.00081		0.0042		0.0017		0.00093		0.00095		0.0013	
Cl5-BZ#95	MG/KG	0.0011	J	0.0082		0.0032		0.0017		0.0015		0.0023	
Cl5-BZ#97	MG/KG	0.00059		0.0034		0.0016		0.00072		0.00081		0.0011	
Cl5-BZ#99	MG/KG	0.0023		0.013		0.0055		0.0026		0.0027		0.0039	
Cl5-BZ#100	MG/KG	0.00048	U	0.00050		0.00025	J	0.00045	U	0.00043	U	0.00048	U
Cl5-BZ#101/#84	MG/KG	0.0031	U	0.018		0.0078		0.0035		0.0040		0.0056	
Cl5-BZ#104	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl5-BZ#105	MG/KG	0.00048		0.0029		0.00089		0.00046		0.00066		0.00082	
Cl5-BZ#107	MG/KG	0.00046	J	0.0017		0.00069		0.00038	J	0.00053		0.00055	
Cl5-BZ#110	MG/KG	0.0020		0.013		0.0052		0.0024		0.0023		0.0038	
Cl5-BZ#114	MG/KG	0.00048	U	0.00028	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl5-BZ#118	MG/KG	0.0022		0.013		0.0047		0.0021		0.0027		0.0034	
Cl5-BZ#119	MG/KG	0.00027	J	0.0014		0.00063		0.00033	J	0.00030	J	0.00044	J
Cl5-BZ#123	MG/KG	0.00048	U	0.00048		0.00027	J	0.00045	U	0.00043	U	0.00048	U
Cl5-BZ#124	MG/KG	0.00048	U	0.00048		0.00026	J	0.00045	U	0.00043	U	0.00048	U

TABLE 1A - SAMPLE DATA FOR QUAHOGS, PRE-SPAWNING (MG/KG WET WEIGHT) AREA II 2009

	Sample#	NBH09-SF-B-2		NBH09-SF-C-2		NBH09-SF-D-2		NBH09-SF-F-2		NBH09-SF-G-2		NBH09-SF-H-2	
Cl5-BZ#126	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl6-BZ#129	MG/KG	0.00048	U	0.00031	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl6-BZ#130	MG/KG	0.00048	U	0.00086		0.00034	J	0.00045	U	0.00029	J	0.00035	J
Cl6-BZ#131	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl6-BZ#132/#168	MG/KG	0.00095	U	0.0021		0.00076	J	0.00089	U	0.00055	J	0.00073	J
Cl6-BZ#134	MG/KG	0.00048	U	0.00097		0.00042	J	0.00045	U	0.00024	J	0.00035	J
Cl6-BZ#135/#144	MG/KG	0.00095	U	0.0018		0.00070	J	0.00089	U	0.00044	J	0.00065	J
Cl6-BZ#136	MG/KG	0.00048	U	0.0011		0.00042	J	0.00045	U	0.00024	J	0.00035	J
Cl6-BZ#137	MG/KG	0.00048	U	0.00071		0.00025	J	0.00045	U	0.00043	U	0.00048	U
Cl6-BZ#138/#163	MG/KG	0.0025		0.011		0.0040		0.0021		0.0030		0.0038	
Cl6-BZ#141	MG/KG	0.00048	U	0.00087		0.00029	J	0.00045	U	0.00043	U	0.00027	J
Cl6-BZ#146	MG/KG	0.00079		0.0030		0.0013		0.00070		0.00095		0.0012	
Cl6-BZ#147	MG/KG	0.00048	U	0.00087		0.00038	J	0.00045	U	0.00022	J	0.00033	J
Cl6-BZ#149	MG/KG	0.0016		0.0091		0.0037		0.0019		0.0019		0.0028	
Cl6-BZ#151	MG/KG	0.00048	U	0.0012		0.00045		0.00028	J	0.00029	J	0.00045	J
Cl6-BZ#153	MG/KG	0.0032		0.013		0.0056		0.0026		0.0037		0.0045	
Cl6-BZ#154	MG/KG	0.00048	U	0.00052		0.00023	J	0.00045	U	0.00043	U	0.00048	U
Cl6-BZ#155	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl6-BZ#156	MG/KG	0.00048	U	0.0011		0.00036	J	0.00045	U	0.00043	U	0.00038	J
Cl6-BZ#157	MG/KG	0.00048	U	0.00025	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl6-BZ#158	MG/KG	0.00048	U	0.00085		0.00044	U	0.00045	U	0.00043	U	0.00026	J
Cl6-BZ#167/#128	MG/KG	0.00051	J	0.0022		0.00073	J	0.00089	U	0.00055	J	0.00086	J
Cl6-BZ#169	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#170/#190	MG/KG	0.00095	U	0.00099		0.00088	U	0.00089	U	0.00085	U	0.00097	U
Cl7-BZ#171	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#172	MG/KG	0.00048	U	0.00029	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#173	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#174	MG/KG	0.00048	U	0.00070		0.00026	J	0.00045	U	0.00043	U	0.00034	J
Cl7-BZ#175	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#176	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#177	MG/KG	0.00026	J	0.00081		0.00031	J	0.00045	U	0.00029	J	0.00039	J
Cl7-BZ#178	MG/KG	0.00048	U	0.00033	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#180	MG/KG	0.00045	J	0.0021		0.00066		0.00039	J	0.00055		0.00070	
Cl7-BZ#182/#187	MG/KG	0.00053	J	0.0021		0.00077	J	0.00089	U	0.00055	J	0.00073	J
Cl7-BZ#183	MG/KG	0.00048	U	0.00047		0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#184	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#185	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#188	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#189	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#191	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl7-BZ#193	MG/KG	0.00048	U	0.00023	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#194	MG/KG	0.00048	U	0.00044		0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#195	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#196/203	MG/KG	0.00095	U	0.00085	U	0.00088	U	0.00089	U	0.00085	U	0.00097	U
Cl8-BZ#197	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#199	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#200	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#201	MG/KG	0.00048	U	0.00032	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#202	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl8-BZ#205	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl9-BZ#206	MG/KG	0.00048	U	0.00027	J	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl9-BZ#207	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl9-BZ#208	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Cl10-BZ#209	MG/KG	0.00048	U	0.00042	U	0.00044	U	0.00045	U	0.00043	U	0.00048	U
Aroclor-1242	MG/KG	0.019	U	0.017	U	0.018	U	0.018	U	0.017	U	0.019	U
Aroclor-1248	MG/KG	0.019	U	0.017	U	0.018	U	0.018	U	0.017	U	0.019	U
Aroclor-1254	MG/KG	0.041		0.21		0.082		0.039		0.050		0.065	
Aroclor-1260	MG/KG	0.019	U	0.017	U	0.018	U	0.018	U	0.017	U	0.019	U

TABLE 1B - SAMPLE DATA FOR QUAHOGS, PRE-SPAWNING (MG/KG WET WEIGHT) AREA III 2009

Parameter	Sample#	NBH09-SF-B-3		NBH09-SF-D-3		NBH09-SF-I-3		NBH09-SF-J-3	
	Species	Quahogs		Quahogs		Quahogs		Quahogs	
	Area	III		III		III		III	
	Station	Station B		Station D		Station I		Station J	
	Sample Date	5/19/2009		5/20/2009		5/19/2009		5/19/2009	
	Units								
Lipids	PERCENT	0.21		0.27		0.19		0.22	
Total PCB Congeners[1]	MG/KG	0.042	J1	0.037	J1	0.033	J1	0.033	J1
Total PCB Congeners Hits[2]	MG/KG	0.014		0.0067		0.00058		0.0034	
Total NOAA Congeners[3]	MG/KG	0.013	J2	0.0089	J1	0.0061	J1	0.0068	J1
Total WHO Congeners[4]	MG/KG	0.0045	J2	0.0033	U	0.0031	U	0.0030	U
Total NOAA / WHO Combined[5]	MG/KG	0.015	J2	0.011	J1	0.0083	J1	0.0089	J1
Total Aroclors[6]	MG/KG	0.057	J2	0.0095	U	0.0095	U	0.0091	U
Cl1-BZ#1	MG/KG	0.00044	UJ	0.00047	UJ	0.00048	UJ	0.00045	UJ
Cl1-BZ#3	MG/KG	0.00044	UJ	0.00047	UJ	0.00048	UJ	0.00045	UJ
Cl2-BZ#4/#10	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl2-BZ#5/#8	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl2-BZ#6	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl2-BZ#7	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl2-BZ#12/#13	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl2-BZ#15	MG/KG	0.00044	UJ	0.00047	UJ	0.00048	UJ	0.00045	UJ
Cl3-BZ#16/#32	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl3-BZ#17	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl3-BZ#18	MG/KG	0.00044	U	0.00047	U	0.00052	U	0.00045	U
Cl3-BZ#19	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl3-BZ#21/#33	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl3-BZ#22	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl3-BZ#24/#27	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl3-BZ#25	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl3-BZ#26	MG/KG	0.00046	U	0.00047	U	0.00063	U	0.00045	U
Cl3-BZ#28/#31	MG/KG	0.0013	U	0.0012	U	0.0012	U	0.00099	U
Cl3-BZ#29	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl3-BZ#37	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#40	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#41/#71	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl4-BZ#42	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#43/#49	MG/KG	0.0012	U	0.0011	U	0.00095	U	0.00091	U
Cl4-BZ#44	MG/KG	0.00050		0.00035	J	0.00048	U	0.00030	J
Cl4-BZ#45	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#46	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#47/#48	MG/KG	0.00059	J	0.00048	J	0.00095	U	0.00091	U
Cl4-BZ#50	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#51	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#52	MG/KG	0.0014	U	0.0012	U	0.00084	U	0.00075	U
Cl4-BZ#53	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#54	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#56/#60	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl4-BZ#63	MG/KG	0.00044	U	0.00025	J	0.00048	U	0.00045	U
Cl4-BZ#64	MG/KG	0.00022	J	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#66	MG/KG	0.00085		0.00041	J	0.00048	U	0.00035	J
Cl4-BZ#70	MG/KG	0.00065		0.00047	J	0.00048	U	0.00027	J
Cl4-BZ#74	MG/KG	0.00040	J	0.00024	J	0.00048	U	0.00045	U
Cl4-BZ#76	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#77	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl4-BZ#81	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#82	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#83	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#85	MG/KG	0.00022	J	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#87	MG/KG	0.00041	J	0.00033	J	0.00048	U	0.00045	U
Cl5-BZ#89	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#91	MG/KG	0.00023	J	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#92	MG/KG	0.00057		0.00033	J	0.00048	U	0.00045	U
Cl5-BZ#95	MG/KG	0.00077		0.00053		0.00028	J	0.00033	J
Cl5-BZ#97	MG/KG	0.00043	J	0.00029	J	0.00048	U	0.00027	J
Cl5-BZ#99	MG/KG	0.0017	U	0.0011	U	0.00048	U	0.00067	U
Cl5-BZ#100	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#101/#84	MG/KG	0.0024	U	0.0015	U	0.00095	U	0.00095	U
Cl5-BZ#104	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#105	MG/KG	0.00049		0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#107	MG/KG	0.00034	J	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#110	MG/KG	0.0015	U	0.00086	U	0.00048	U	0.00050	U

Prepared by: BJS
Checked by: BBL/JPC

TABLE 1B - SAMPLE DATA FOR QUAHOGS, PRE-SPAWNING (MG/KG WET WEIGHT) AREA III 2009

	Sample#	NBH09-SF-B-3		NBH09-SF-D-3		NBH09-SF-I-3		NBH09-SF-J-3	
Cl5-BZ#114	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#118	MG/KG	0.0016		0.00096	U	0.00048	U	0.00063	U
Cl5-BZ#119	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#123	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#124	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl5-BZ#126	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#129	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#130	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#131	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#132/#168	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl6-BZ#134	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#135/#144	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl6-BZ#136	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#137	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#138/#163	MG/KG	0.0020		0.0011		0.00095	U	0.00069	J
Cl6-BZ#141	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#146	MG/KG	0.00058		0.00039	J	0.00048	U	0.00026	J
Cl6-BZ#147	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#149	MG/KG	0.0011	U	0.00080	U	0.00048	U	0.00051	U
Cl6-BZ#151	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#153	MG/KG	0.0022		0.0015		0.00030	J	0.00087	
Cl6-BZ#154	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#155	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#156	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#157	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#158	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl6-BZ#167/#128	MG/KG	0.00045	J	0.00095	U	0.00095	U	0.00091	U
Cl6-BZ#169	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#170/#190	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl7-BZ#171	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#172	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#173	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#174	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#175	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#176	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#177	MG/KG	0.00023	J	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#178	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#180	MG/KG	0.00036	J	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#182/#187	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl7-BZ#183	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#184	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#185	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#188	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#189	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#191	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl7-BZ#193	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#194	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#195	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#196/203	MG/KG	0.00088	U	0.00095	U	0.00095	U	0.00091	U
Cl8-BZ#197	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#199	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#200	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#201	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#202	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl8-BZ#205	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl9-BZ#206	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl9-BZ#207	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl9-BZ#208	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Cl10-BZ#209	MG/KG	0.00044	U	0.00047	U	0.00048	U	0.00045	U
Aroclor-1242	MG/KG	0.018	U	0.019	U	0.019	U	0.018	U
Aroclor-1248	MG/KG	0.018	U	0.019	U	0.019	U	0.018	U
Aroclor-1254	MG/KG	0.031		0.019	U	0.019	U	0.018	U
Aroclor-1260	MG/KG	0.018	U	0.019	U	0.019	U	0.018	U

TABLE 2A - SAMPLE DATA FOR QUAHOGS, POST-SPAWNING (MG/KG WET WEIGHT) AREA II 2009

Parameter	Sample#	NBH09-SF-B-2		NBH09-SF-C-2		NBH09-SF-D-2		NBH09-SF-F-2		NBH09-SF-G-2		NBH09-SF-H-2	
	Species	Quahogs		Quahogs		Quahogs		Quahogs		Quahogs		Quahogs	
	Area	II		II		II		II		II		II	
	Station	Station B		Station C		Station D		Station F		Station G		Station H	
	Sample Date	10/8/2009		10/8/2009		11/2/2009		10/20/2009		10/18/2009		10/20/2009	
	Units												
Lipids	PERCENT	0.16	J	0.42	J	0.093	J	0.21	J	0.27	J	0.35	J
Total PCB Congeners[1]	MG/KG	0.048	J2	0.57	J3	0.11	J2	0.11	J2	0.080	J2	0.34	J3
Total PCB Congeners Hits[2]	MG/KG	0.027		0.57		0.10		0.097		0.062		0.33	
Total NOAA Congeners[3]	MG/KG	0.016	J2	0.25	J4	0.046	J3	0.045	J3	0.032	J3	0.14	J4
Total WHO Congeners[4]	MG/KG	0.0044	J2	0.034	J3	0.0081	J2	0.0078	J2	0.0075	J2	0.021	J3
Total NOAA / WHO Combined[5]	MG/KG	0.018	J2	0.25	J4	0.048	J3	0.048	J3	0.034	J3	0.15	J4
Total Aroclors[6]	MG/KG	0.059	J2	0.71	J3	0.15	J2	0.14	J2	0.089	J2	0.43	J3
Cl1-BZ#1	MG/KG	0.00043	UJ	0.00046	U	0.00046	U	0.00047		0.00045	U	0.00047	U
Cl1-BZ#3	MG/KG	0.00043	UJ	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl2-BZ#4/#10	MG/KG	0.00085	UJ	0.0014		0.00091	U	0.0012		0.00089	U	0.00063	J
Cl2-BZ#5/#8	MG/KG	0.00085	UJ	0.0042		0.00051	J	0.0013		0.00089	U	0.0019	
Cl2-BZ#6	MG/KG	0.00043	U	0.0029		0.00039	J	0.00046		0.00045	U	0.0018	
Cl2-BZ#7	MG/KG	0.00043	U	0.00046		0.00046	U	0.00045	U	0.00045	U	0.00024	J
Cl2-BZ#12/#13	MG/KG	0.00085	U	0.0012		0.00091	U	0.00090	U	0.00089	U	0.00087	J
Cl2-BZ#15	MG/KG	0.00043	UJ	0.0018	J	0.00027	J	0.00024	J	0.00045	UJ	0.00093	J
Cl3-BZ#16/#32	MG/KG	0.00085	U	0.0063		0.00070	J	0.00082	J	0.00089	U	0.0028	
Cl3-BZ#17	MG/KG	0.00043	U	0.0050		0.00061		0.00075		0.00045	U	0.0025	
Cl3-BZ#18	MG/KG	0.00026	J	0.013		0.0015		0.0015		0.00047		0.0065	
Cl3-BZ#19	MG/KG	0.00043	UJ	0.00098		0.00046	U	0.00033	J	0.00045	U	0.00048	
Cl3-BZ#21/#33	MG/KG	0.00085	U	0.0042		0.00091	U	0.00090	U	0.00089	U	0.0017	
Cl3-BZ#22	MG/KG	0.00043	U	0.0039		0.00048		0.00046		0.00027	J	0.0018	
Cl3-BZ#24/#27	MG/KG	0.00085	U	0.0021		0.00091	U	0.00048	J	0.00089	U	0.0011	
Cl3-BZ#25	MG/KG	0.00043	U	0.0098		0.0014		0.0014		0.00047		0.0056	
Cl3-BZ#26	MG/KG	0.00053		0.019		0.0031		0.0031		0.0012		0.012	
Cl3-BZ#28/#31	MG/KG	0.0012	J	0.051	J	0.0066	J	0.0070	J	0.0028	J	0.026	J
Cl3-BZ#29	MG/KG	0.00043	UJ	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl3-BZ#37	MG/KG	0.00043	UJ	0.0019		0.00032	J	0.00029	J	0.00045	U	0.00092	
Cl4-BZ#40	MG/KG	0.00043	U	0.0021		0.00035	J	0.00032	J	0.00045	U	0.0012	
Cl4-BZ#41/#71	MG/KG	0.00085	U	0.011		0.0017		0.0013		0.00077	J	0.0056	
Cl4-BZ#42	MG/KG	0.00043	U	0.0041		0.00069		0.00063		0.00042	J	0.0023	
Cl4-BZ#43/#49	MG/KG	0.0014		0.038		0.0063		0.0061		0.0031		0.021	
Cl4-BZ#44	MG/KG	0.00056		0.013		0.0020		0.0018		0.0011		0.0071	
Cl4-BZ#45	MG/KG	0.00043	U	0.0015		0.00046	U	0.00045	U	0.00045	U	0.00059	
Cl4-BZ#46	MG/KG	0.00043	U	0.0011		0.00046	U	0.00045	U	0.00045	U	0.00044	J
Cl4-BZ#47/#48	MG/KG	0.00062	J	0.017		0.0027		0.0029		0.0016		0.0094	
Cl4-BZ#50	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl4-BZ#51	MG/KG	0.00043	U	0.0012		0.00046	U	0.00045	U	0.00045	U	0.00061	
Cl4-BZ#52	MG/KG	0.0017		0.046		0.0079		0.0078		0.0038		0.027	
Cl4-BZ#53	MG/KG	0.00043	U	0.0034		0.00051		0.00048		0.00045	U	0.0017	
Cl4-BZ#54	MG/KG	0.00043	UJ	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl4-BZ#56/#60	MG/KG	0.00085	U	0.0060		0.0010		0.00086	J	0.00053	J	0.0029	
Cl4-BZ#63	MG/KG	0.00043	U	0.0012		0.00025	J	0.00023	J	0.00045	U	0.00076	
Cl4-BZ#64	MG/KG	0.00024	J	0.0055		0.00095		0.00096		0.00045		0.0033	
Cl4-BZ#66	MG/KG	0.00088		0.013		0.0022		0.0021		0.0019		0.0069	
Cl4-BZ#70	MG/KG	0.00069		0.012		0.0019		0.0018		0.0016		0.0058	
Cl4-BZ#74	MG/KG	0.00039	J	0.0088		0.0014		0.0015		0.00085		0.0047	
Cl4-BZ#76	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl4-BZ#77	MG/KG	0.00043	U	0.0014		0.00033	J	0.00031	J	0.00027	J	0.00087	
Cl4-BZ#81	MG/KG	0.00043	U	0.00030	J	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl5-BZ#82	MG/KG	0.00043	U	0.0012		0.00046	U	0.00045	U	0.00045	U	0.00076	
Cl5-BZ#83	MG/KG	0.00043	U	0.0016		0.00037	J	0.00031	J	0.00045	U	0.0011	
Cl5-BZ#85	MG/KG	0.00030	J	0.0025		0.00056		0.00048		0.00049		0.0017	
Cl5-BZ#87	MG/KG	0.00045		0.0066		0.0013		0.0010		0.00083		0.0041	
Cl5-BZ#89	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl5-BZ#91	MG/KG	0.00029	J	0.0061		0.0012		0.00089		0.00057		0.0033	
Cl5-BZ#92	MG/KG	0.00058		0.0068		0.0017		0.0015		0.0011		0.0050	
Cl5-BZ#95	MG/KG	0.00084	J	0.015		0.0028		0.0025		0.0019		0.0088	
Cl5-BZ#97	MG/KG	0.00051		0.0066		0.0012		0.0012		0.0010		0.0037	
Cl5-BZ#99	MG/KG	0.0019		0.023		0.0052		0.0052		0.0042		0.015	
Cl5-BZ#100	MG/KG	0.00043	U	0.00073		0.00046	U	0.00045	U	0.00045	U	0.00049	
Cl5-BZ#101/#84	MG/KG	0.0024		0.032		0.0070		0.0065		0.0054		0.020	
Cl5-BZ#104	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl5-BZ#105	MG/KG	0.00038	J	0.0049		0.00087		0.00077		0.00085		0.0026	
Cl5-BZ#107	MG/KG	0.00028	J	0.0023		0.00068		0.00060		0.00063		0.0017	
Cl5-BZ#110	MG/KG	0.0014		0.021		0.0044		0.0034		0.0028		0.013	
Cl5-BZ#114	MG/KG	0.00043	U	0.00042	J	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl5-BZ#118	MG/KG	0.0017		0.020		0.0040		0.0040		0.0037		0.012	
Cl5-BZ#119	MG/KG	0.00043	U	0.0024		0.00055		0.00047		0.00033	J	0.0015	
Cl5-BZ#123	MG/KG	0.00043	U	0.00095		0.00023	J	0.00045	U	0.00045	U	0.00068	
Cl5-BZ#124	MG/KG	0.00043	U	0.00075		0.00046	U	0.00045	U	0.00045	U	0.00043	J

TABLE 2A - SAMPLE DATA FOR QUAHOGS, POST-SPAWNING (MG/KG WET WEIGHT) AREA II 2009

	Sample#	NBH09-SF-B-2		NBH09-SF-C-2		NBH09-SF-D-2		NBH09-SF-F-2		NBH09-SF-G-2		NBH09-SF-H-2	
Cl5-BZ#126	MG/KG	0.00043	UJ	0.00046	UJ	0.00046	UJ	0.00045	UJ	0.00045	UJ	0.00047	UJ
Cl6-BZ#129	MG/KG	0.00043	U	0.00049		0.00046	U	0.00045	U	0.00045	U	0.00036	J
Cl6-BZ#130	MG/KG	0.00043	U	0.0014		0.00040	J	0.00028	J	0.00032	J	0.00098	
Cl6-BZ#131	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl6-BZ#132/#168	MG/KG	0.00043	J	0.0037		0.00082	J	0.00062	J	0.00076	J	0.0024	
Cl6-BZ#134	MG/KG	0.00043	U	0.0017		0.00037	J	0.00034	J	0.00029	J	0.0011	
Cl6-BZ#135/#144	MG/KG	0.00085	U	0.0029		0.00074	J	0.00059	J	0.00050	J	0.0021	
Cl6-BZ#136	MG/KG	0.00043	U	0.0019		0.00037	J	0.00030	J	0.00027	J	0.0011	
Cl6-BZ#137	MG/KG	0.00043	U	0.0012		0.00025	J	0.00045	U	0.00045	U	0.00081	
Cl6-BZ#138/#163	MG/KG	0.0021		0.019		0.0044		0.0040		0.0039		0.012	
Cl6-BZ#141	MG/KG	0.00043	U	0.0016		0.00033	J	0.00045	U	0.00045	U	0.00087	
Cl6-BZ#146	MG/KG	0.00060		0.0043		0.0013		0.0012		0.0010		0.0034	
Cl6-BZ#147	MG/KG	0.00043	U	0.0013		0.00034	J	0.00031	J	0.00045	U	0.00089	
Cl6-BZ#149	MG/KG	0.0011		0.015		0.0032		0.0028		0.0023		0.0096	
Cl6-BZ#151	MG/KG	0.00043	U	0.0019		0.00043	J	0.00038	J	0.00036	J	0.0013	
Cl6-BZ#153	MG/KG	0.0022		0.021		0.0052		0.0056		0.0047		0.015	
Cl6-BZ#154	MG/KG	0.00043	U	0.00080		0.00046	U	0.00045	U	0.00045	U	0.00055	
Cl6-BZ#155	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl6-BZ#156	MG/KG	0.00043	U	0.0018		0.00037	J	0.00028	J	0.00030	J	0.0011	
Cl6-BZ#157	MG/KG	0.00043	U	0.00044	J	0.00046	U	0.00045	U	0.00045	U	0.00025	J
Cl6-BZ#158	MG/KG	0.00043	U	0.0013		0.00024	J	0.00045	U	0.00045	U	0.00066	
Cl6-BZ#167/#128	MG/KG	0.00043	J	0.0038		0.00089	J	0.00087	J	0.00085	J	0.0024	
Cl6-BZ#169	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#170/#190	MG/KG	0.00085	U	0.0015		0.00091	U	0.00090	U	0.00089	U	0.00086	J
Cl7-BZ#171	MG/KG	0.00043	U	0.00023	J	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#172	MG/KG	0.00043	U	0.00041	J	0.00046	U	0.00045	U	0.00045	U	0.00028	J
Cl7-BZ#173	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#174	MG/KG	0.00043	U	0.0012		0.00033	J	0.00045	U	0.00025	J	0.00090	
Cl7-BZ#175	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#176	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#177	MG/KG	0.00043	U	0.0012		0.00036	J	0.00029	J	0.00029	J	0.00098	
Cl7-BZ#178	MG/KG	0.00043	U	0.00059		0.00046	U	0.00045	U	0.00045	U	0.00044	J
Cl7-BZ#180	MG/KG	0.00032	J	0.0028		0.00080		0.00062		0.00065		0.0022	
Cl7-BZ#182/#187	MG/KG	0.00085	U	0.0030		0.00082	J	0.00073	J	0.00066	J	0.0022	
Cl7-BZ#183	MG/KG	0.00043	U	0.00066		0.00046	U	0.00045	U	0.00045	U	0.00058	
Cl7-BZ#184	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#185	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#188	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#189	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#191	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl7-BZ#193	MG/KG	0.00043	U	0.00025	J	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl8-BZ#194	MG/KG	0.00043	U	0.00057		0.00046	U	0.00045	U	0.00045	U	0.00053	
Cl8-BZ#195	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl8-BZ#196/203	MG/KG	0.00085	U	0.00050	J	0.00091	U	0.00090	U	0.00089	U	0.00094	U
Cl8-BZ#197	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl8-BZ#199	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl8-BZ#200	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl8-BZ#201	MG/KG	0.00043	U	0.00047		0.00046	U	0.00045	U	0.00045	U	0.00043	J
Cl8-BZ#202	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl8-BZ#205	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl9-BZ#206	MG/KG	0.00043	U	0.00030	J	0.00046	U	0.00045	U	0.00045	U	0.00026	J
Cl9-BZ#207	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl9-BZ#208	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00047	U
Cl10-BZ#209	MG/KG	0.00043	U	0.00046	U	0.00046	U	0.00045	U	0.00045	U	0.00035	J
Aroclor-1242	MG/KG	0.017	U	0.018	U	0.018	U	0.018	U	0.018	U	0.019	U
Aroclor-1248	MG/KG	0.017	U	0.37		0.060		0.057		0.018	U	0.20	
Aroclor-1254	MG/KG	0.033		0.32		0.072		0.070		0.062		0.21	
Aroclor-1260	MG/KG	0.017	U	0.018	U	0.018	U	0.018	U	0.018	U	0.019	U

TABLE 2B - SAMPLE DATA FOR QUAHOGS, POST-SPAWNING (MG/KG WET WEIGHT) AREA III 2009

Parameter	Sample# / Species / Area / Station / Sample Date	Units	NBH09-SF-B-3 Quahogs III Station B 10/29/2009		NBH09-SF-D-3 Quahogs III Station D 10/20/2009		NBH09-SF-I-3 Quahogs III Station I 10/2/2009		NBH09-SF-J-3 Quahogs III Station J 11/2/2009	
Lipids		PERCENT	0.25	J	0.13	J	0.074	J	0.093	J
Total PCB Congeners[1]		MG/KG	0.058	J2	0.039	J1	0.053	J2	0.033	J1
Total PCB Congeners Hits[2]		MG/KG	0.037		0.013		0.031		0.0061	
Total NOAA Congeners[3]		MG/KG	0.020	J3	0.011	J2	0.018	J3	0.0073	J1
Total WHO Congeners[4]		MG/KG	0.0057	J2	0.0036	J1	0.0048	J2	0.0032	J1
Total NOAA / WHO Combined[5]		MG/KG	0.022	J2	0.013	J2	0.02	J2	0.0093	J1
Total Aroclors[6]		MG/KG	0.070	J2	0.0091	U	0.0093	U	0.0089	U
Cl1-BZ#1		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl1-BZ#3		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl2-BZ#4/#10		MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl2-BZ#5/#8		MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl2-BZ#6		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl2-BZ#7		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl2-BZ#12/#13		MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl2-BZ#15		MG/KG	0.00047	UJ	0.00045	UJ	0.00046	UJ	0.00044	UJ
Cl3-BZ#16/#32		MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl3-BZ#17		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl3-BZ#18		MG/KG	0.00026	J	0.00023	J	0.00029	J	0.00044	U
Cl3-BZ#19		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl3-BZ#21/#33		MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl3-BZ#22		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl3-BZ#24/#27		MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl3-BZ#25		MG/KG	0.00047	U	0.00045	U	0.00030	J	0.00044	U
Cl3-BZ#26		MG/KG	0.00050		0.00041	J	0.00056		0.00044	U
Cl3-BZ#28/#31		MG/KG	0.00060	J	0.00085	J	0.0013	J	0.00088	UJ
Cl3-BZ#29		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl3-BZ#37		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#40		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#41/#71		MG/KG	0.00047	J	0.00091	U	0.00093	U	0.00088	U
Cl4-BZ#42		MG/KG	0.00025	J	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#43/#49		MG/KG	0.0015		0.00088	J	0.0016		0.00048	J
Cl4-BZ#44		MG/KG	0.00071		0.00030	J	0.00052		0.00044	U
Cl4-BZ#45		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#46		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#47/#48		MG/KG	0.00089	J	0.00091	U	0.00078	J	0.00088	U
Cl4-BZ#50		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#51		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#52		MG/KG	0.0021		0.0011		0.0019		0.00055	
Cl4-BZ#53		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#54		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#56/#60		MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl4-BZ#63		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#64		MG/KG	0.00031	J	0.00045	U	0.00028	J	0.00044	U
Cl4-BZ#66		MG/KG	0.0011		0.00042	J	0.00084		0.00044	U
Cl4-BZ#70		MG/KG	0.00086		0.00037	J	0.00060		0.00044	U
Cl4-BZ#74		MG/KG	0.00057		0.00045	U	0.00040	J	0.00044	U
Cl4-BZ#76		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#77		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl4-BZ#81		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#82		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#83		MG/KG	0.00023	J	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#85		MG/KG	0.00036	J	0.00045	U	0.00029	J	0.00044	U
Cl5-BZ#87		MG/KG	0.00065		0.00045	U	0.00028	J	0.00044	U
Cl5-BZ#89		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#91		MG/KG	0.00034	J	0.00045	U	0.00032	J	0.00044	U
Cl5-BZ#92		MG/KG	0.00083		0.00028	J	0.00069		0.00044	U
Cl5-BZ#95		MG/KG	0.0011		0.00043	J	0.00087		0.00026	J
Cl5-BZ#97		MG/KG	0.00066		0.00026	J	0.00059		0.00044	U
Cl5-BZ#99		MG/KG	0.0027		0.0011		0.0023		0.00070	
Cl5-BZ#100		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#101/#84		MG/KG	0.0036		0.0015		0.0028		0.00080	J
Cl5-BZ#104		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#105		MG/KG	0.00071		0.00045	U	0.00041	J	0.00044	U
Cl5-BZ#107		MG/KG	0.00042	J	0.00045	U	0.00036	J	0.00044	U
Cl5-BZ#110		MG/KG	0.0020		0.00078		0.0017		0.00040	J
Cl5-BZ#114		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#118		MG/KG	0.0022		0.00088		0.0018		0.00051	
Cl5-BZ#119		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#123		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl5-BZ#124		MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U

Prepared by: BJS
Checked by: BBL/JPC

TABLE 2B - SAMPLE DATA FOR QUAHOGS, POST-SPAWNING (MG/KG WET WEIGHT) AREA III 2009

	Sample#	NBH09-SF-B-3		NBH09-SF-D-3		NBH09-SF-I-3		NBH09-SF-J-3	
Cl5-BZ#126	MG/KG	0.00047	UJ	0.00045	UJ	0.00046	UJ	0.00044	UJ
Cl6-BZ#129	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#130	MG/KG	0.00027	J	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#131	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#132/#168	MG/KG	0.00058	J	0.00091	U	0.00093	U	0.00088	U
Cl6-BZ#134	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#135/#144	MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl6-BZ#136	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#137	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#138/#163	MG/KG	0.0029		0.0011		0.0028		0.00083	J
Cl6-BZ#141	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#146	MG/KG	0.00083		0.00036	J	0.00077		0.00027	J
Cl6-BZ#147	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#149	MG/KG	0.0016		0.00065		0.0013		0.00042	J
Cl6-BZ#151	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#153	MG/KG	0.0031		0.0014		0.0028		0.00087	
Cl6-BZ#154	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#155	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#156	MG/KG	0.00023	J	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#157	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#158	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl6-BZ#167/#128	MG/KG	0.00060	J	0.00091	U	0.00052	J	0.00088	U
Cl6-BZ#169	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#170/#190	MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl7-BZ#171	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#172	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#173	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#174	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#175	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#176	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#177	MG/KG	0.00026	J	0.00045	U	0.00034	J	0.00044	U
Cl7-BZ#178	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#180	MG/KG	0.00049		0.00045	U	0.00049		0.00044	U
Cl7-BZ#182/#187	MG/KG	0.00054	J	0.00091	U	0.00049	J	0.00088	U
Cl7-BZ#183	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#184	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#185	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#188	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#189	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#191	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl7-BZ#193	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#194	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#195	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#196/203	MG/KG	0.00093	U	0.00091	U	0.00093	U	0.00088	U
Cl8-BZ#197	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#199	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#200	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#201	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#202	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl8-BZ#205	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl9-BZ#206	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl9-BZ#207	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl9-BZ#208	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Cl10-BZ#209	MG/KG	0.00047	U	0.00045	U	0.00046	U	0.00044	U
Aroclor-1242	MG/KG	0.019	U	0.018	U	0.019	U	0.018	U
Aroclor-1248	MG/KG	0.019	U	0.018	U	0.019	U	0.018	U
Aroclor-1254	MG/KG	0.042		0.018	U	0.019	U	0.018	U
Aroclor-1260	MG/KG	0.019	U	0.018	U	0.019	U	0.018	U

TABLE 3A - SAMPLE DATA FOR BLACK SEA BASS (MG/KG WET WEIGHT) AREA II 2009

Parameter	Units	Sample#	NBH09-FF-A-2		NBH09-FF-B-2		NBH09-FF-C-2		NBH09-FF-D-2		NBH09-FF-E-2	
		Species	Black Sea Bass		Black Sea Bass		Black Sea Bass		Black Sea Bass		Black Sea Bass	
		Area	II		II		II		II		II	
		Station	Station A		Station B		Station C		Station D		Station E	
		Sample Date	5/18/2009		6/4/2009		5/18/2009		6/1/2009		6/4/2009	
Lipids	PERCENT		0.98		1.2		1.1		1.2		1.4	
Total PCB Congeners[1]	MG/KG		0.047	J1	0.059	J2	0.067	J2	0.64	J3	0.051	J1
Total PCB Congeners Hits[2]	MG/KG		0.018		0.036		0.042		0.63		0.023	
Total NOAA Congeners[3]	MG/KG		0.018	J2	0.028	J3	0.033	J3	0.37	J4	0.020	J2
Total WHO Congeners[4]	MG/KG		0.0056	J2	0.0079	J2	0.0099	J2	0.10	J4	0.0062	J2
Total NOAA / WHO Combined[5]	MG/KG		0.020	J2	0.030	J2	0.035	J2	0.38	J4	0.022	J2
Total Aroclors[6]	MG/KG		0.098	J2	0.12	J2	0.14	J2	0.97	J3	0.11	J2
Cl1-BZ#1	MG/KG		0.00049	UJ	0.00045	UJ	0.00048	UJ	0.00048	UJ	0.00049	UJ
Cl1-BZ#3	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl2-BZ#4/#10	MG/KG		0.00098	U	0.0009	U	0.00097	U	0.00053	J	0.00098	U
Cl2-BZ#5/#8	MG/KG		0.00098	U	0.0009	U	0.00097	U	0.00097	U	0.00098	U
Cl2-BZ#6	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl2-BZ#7	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl2-BZ#12/#13	MG/KG		0.00098	U	0.00090	U	0.00097	U	0.00097	U	0.00098	U
Cl2-BZ#15	MG/KG		0.00049	UJ	0.00045	UJ	0.00048	UJ	0.00048	UJ	0.00049	UJ
Cl3-BZ#16/#32	MG/KG		0.00098	U	0.0009	U	0.00097	U	0.00081	J	0.00098	U
Cl3-BZ#17	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00064	U	0.00049	U
Cl3-BZ#18	MG/KG		0.00059	U	0.00045	U	0.00048	U	0.0014	U	0.00051	U
Cl3-BZ#19	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00027	J	0.00049	U
Cl3-BZ#21/#33	MG/KG		0.00098	U	0.00090	U	0.00097	U	0.00097	U	0.00098	U
Cl3-BZ#22	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00025	J	0.00049	U
Cl3-BZ#24/#27	MG/KG		0.00098	U	0.00090	U	0.00097	U	0.00097	U	0.00098	U
Cl3-BZ#25	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00075	U	0.00049	U
Cl3-BZ#26	MG/KG		0.00059	U	0.00045	U	0.00048	U	0.0018	U	0.00049	U
Cl3-BZ#28/#31	MG/KG		0.0012	U	0.00090	U	0.00097	U	0.0093		0.00098	U
Cl3-BZ#29	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl3-BZ#37	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#40	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00066		0.00049	U
Cl4-BZ#41/#71	MG/KG		0.00098	U	0.00090	U	0.00097	U	0.0080		0.00098	U
Cl4-BZ#42	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.0019		0.00049	U
Cl4-BZ#43/#49	MG/KG		0.00098	U	0.00091	U	0.0010	U	0.024		0.00098	U
Cl4-BZ#44	MG/KG		0.00037	J	0.00037	J	0.00040	J	0.0088		0.00029	J
Cl4-BZ#45	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00041	J	0.00049	U
Cl4-BZ#46	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#47/#48	MG/KG		0.00098	U	0.00048	J	0.00063	J	0.013		0.00098	U
Cl4-BZ#50	MG/KG		0.00049		0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#51	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#52	MG/KG		0.0013	U	0.0014	U	0.0017	U	0.039		0.00099	U
Cl4-BZ#53	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00030	J	0.00049	U
Cl4-BZ#54	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#56/#60	MG/KG		0.00098	U	0.00090	U	0.00097	U	0.0034		0.00098	U
Cl4-BZ#63	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.0014		0.00049	U
Cl4-BZ#64	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#66	MG/KG		0.00044	J	0.00069		0.00075		0.015		0.00050	
Cl4-BZ#70	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00041	J	0.00025	J
Cl4-BZ#74	MG/KG		0.00030	J	0.00051		0.00050		0.014		0.00031	J
Cl4-BZ#76	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#77	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl4-BZ#81	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00028	J	0.00049	U
Cl5-BZ#82	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.0010		0.00049	U
Cl5-BZ#83	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.0017		0.00049	U
Cl5-BZ#85	MG/KG		0.00049	U	0.00032	J	0.00036	J	0.0046		0.00049	U
Cl5-BZ#87	MG/KG		0.00030	J	0.00054		0.00064		0.0094		0.00033	J
Cl5-BZ#89	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl5-BZ#91	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.0047		0.00049	U
Cl5-BZ#92	MG/KG		0.00046	J	0.00064		0.00079		0.011		0.00044	J
Cl5-BZ#95	MG/KG		0.00053	U	0.00069	U	0.00072	U	0.012		0.00059	U
Cl5-BZ#97	MG/KG		0.00049	U	0.00034	J	0.00042	J	0.0044		0.00024	J
Cl5-BZ#99	MG/KG		0.0010	U	0.00095	U	0.0014	U	0.023		0.00092	U
Cl5-BZ#100	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00025	J	0.00049	U
Cl5-BZ#101/#84	MG/KG		0.0016	U	0.0029		0.0030		0.045		0.0019	U
Cl5-BZ#104	MG/KG		0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl5-BZ#105	MG/KG		0.00052		0.00081		0.0011		0.013		0.00069	
Cl5-BZ#107	MG/KG		0.00031	J	0.00046		0.00067		0.0048		0.00039	J
Cl5-BZ#110	MG/KG		0.00066	U	0.00097	U	0.0010	U	0.023		0.00074	U

Prepared by: BJS
Checked by: BBL/JPC

TABLE 3A - SAMPLE DATA FOR BLACK SEA BASS (MG/KG WET WEIGHT) AREA II 2009

	Sample#	NBH09-FF-A-2		NBH09-FF-B-2		NBH09-FF-C-2		NBH09-FF-D-2		NBH09-FF-E-2	
Cl5-BZ#114	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00088		0.00049	U
Cl5-BZ#118	MG/KG	0.0022		0.0039		0.0052		0.068		0.0027	
Cl5-BZ#119	MG/KG	0.00049	U	0.00023	J	0.00048	U	0.0034		0.00049	U
Cl5-BZ#123	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.0015		0.00049	U
Cl5-BZ#124	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl5-BZ#126	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl6-BZ#129	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00061		0.00049	U
Cl6-BZ#130	MG/KG	0.00049	U	0.00026	J	0.00032	J	0.0024		0.00049	U
Cl6-BZ#131	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl6-BZ#132/#168	MG/KG	0.00098	U	0.00090	U	0.00097	U	0.0036		0.00098	U
Cl6-BZ#134	MG/KG	0.00049	U	0.00029	J	0.00034	J	0.0028		0.00026	J
Cl6-BZ#135/#144	MG/KG	0.00098	U	0.00090	U	0.00097	U	0.0035		0.00098	U
Cl6-BZ#136	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.0014		0.00049	U
Cl6-BZ#137	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.0027		0.00049	U
Cl6-BZ#138/#163	MG/KG	0.0029		0.0044		0.0056		0.051		0.0034	
Cl6-BZ#141	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.0028		0.00049	U
Cl6-BZ#146	MG/KG	0.00094		0.0015		0.0018		0.012		0.0012	
Cl6-BZ#147	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.0023		0.00049	U
Cl6-BZ#149	MG/KG	0.0011	U	0.0017		0.0016		0.020		0.0013	U
Cl6-BZ#151	MG/KG	0.00039	J	0.0005		0.00048	J	0.0048		0.00045	J
Cl6-BZ#153	MG/KG	0.0048		0.0080		0.0098		0.086		0.0055	
Cl6-BZ#154	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00072		0.00049	U
Cl6-BZ#155	MG/KG	0.00049	U	0.00045	U	0.0005	U	0.00048	U	0.00049	U
Cl6-BZ#156	MG/KG	0.00049	U	0.00034	J	0.0005	J	0.0050		0.00024	J
Cl6-BZ#157	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.0011		0.00049	U
Cl6-BZ#158	MG/KG	0.00049	U	0.00028	J	0.00032	J	0.0054		0.00024	J
Cl6-BZ#167/#128	MG/KG	0.00060	J	0.0011		0.0013		0.012		0.00065	J
Cl6-BZ#169	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl7-BZ#170/#190	MG/KG	0.00098	U	0.00061	J	0.00061	J	0.0042		0.00054	J
Cl7-BZ#171	MG/KG	0.00049	U	0.000	U	0.00048	U	0.00080		0.00049	U
Cl7-BZ#172	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00067		0.00049	U
Cl7-BZ#173	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl7-BZ#174	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.0012		0.00049	U
Cl7-BZ#175	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl7-BZ#176	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl7-BZ#177	MG/KG	0.00029	J	0.00041	J	0.00042	J	0.0018		0.00044	J
Cl7-BZ#178	MG/KG	0.00034	J	0.00038	J	0.00039	J	0.0013		0.00039	J
Cl7-BZ#180	MG/KG	0.00075		0.0011		0.0013		0.0079		0.00097	
Cl7-BZ#182/#187	MG/KG	0.0012		0.0016		0.0016		0.0073		0.0017	
Cl7-BZ#183	MG/KG	0.00039	J	0.00054		0.00054		0.0031		0.00052	
Cl7-BZ#184	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl7-BZ#185	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl7-BZ#188	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl7-BZ#189	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00029	J	0.00049	U
Cl7-BZ#191	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00026	J	0.00049	U
Cl7-BZ#193	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00061		0.00049	U
Cl8-BZ#194	MG/KG	0.00049	U	0.00026	J	0.00048	U	0.00091		0.00049	U
Cl8-BZ#195	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00032	J	0.00049	U
Cl8-BZ#196/203	MG/KG	0.00098	U	0.00090	U	0.00097	U	0.0012		0.00098	U
Cl8-BZ#197	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl8-BZ#199	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl8-BZ#200	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl8-BZ#201	MG/KG	0.00025	J	0.00039	J	0.00035	J	0.00093		0.00043	J
Cl8-BZ#202	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00046	J	0.00032	J
Cl8-BZ#205	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl9-BZ#206	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00045	J	0.00049	U
Cl9-BZ#207	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl9-BZ#208	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Cl10-BZ#209	MG/KG	0.00049	U	0.00045	U	0.00048	U	0.00048	U	0.00049	U
Aroclor-1242	MG/KG	0.020	U	0.018	U	0.019	U	0.019	U	0.020	U
Aroclor-1248	MG/KG	0.020	U	0.018	U	0.019	U	0.0193	U	0.020	U
Aroclor-1254	MG/KG	0.069		0.091		0.11		0.94		0.080	
Aroclor-1260	MG/KG	0.020	U	0.018	U	0.019	U	0.019	U	0.020	U

TABLE 3B - SAMPLE DATA FOR BLACK SEA BASS (MG/KG WET WEIGHT) AREA III 2009

Parameter	Sample# / Species / Area / Station / Sample Date	Units	NBH09-FF-A-3 Black Sea Bass III Station A 5/26/2009		NBH09-FF-B-3 Black Sea Bass III Station B 5/26/2009		NBH09-FF-C-3 Black Sea Bass III Station C 5/26/2009		NBH09-FF-D-3 Black Sea Bass III Station D 5/26/2009		NBH09-FF-E-3_Bass Black Sea Bass III Station E 5/29/2009	
Lipids		PERCENT	2.4		1.0		2.4		1.5		1.0	
Total PCB Congeners[1]		MG/KG	0.11	J2	0.10	J2	0.059	J2	0.054	J2	0.049	J1
Total PCB Congeners Hits[2]		MG/KG	0.087		0.077		0.034		0.028		0.025	
Total NOAA Congeners[3]		MG/KG	0.059	J3	0.055	J3	0.029	J3	0.025	J2	0.021	J2
Total WHO Congeners[4]		MG/KG	0.016	J3	0.015	J2	0.0087	J2	0.0074	J2	0.0067	J2
Total NOAA / WHO Combined[5]		MG/KG	0.061	J3	0.057	J3	0.031	J2	0.027	J2	0.023	J2
Total Aroclors[6]		MG/KG	0.20	J2	0.18	J2	0.13	J2	0.14	J2	0.12	J2
Cl1-BZ#1		MG/KG	0.00046	UJ	0.00050	UJ	0.00046	UJ	0.00045	UJ	0.00045	UJ
Cl1-BZ#3		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl2-BZ#4/#10		MG/KG	0.00092	U	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl2-BZ#5/#8		MG/KG	0.00092	U	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl2-BZ#6		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl2-BZ#7		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl2-BZ#12/#13		MG/KG	0.00092	U	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl2-BZ#15		MG/KG	0.00046	UJ	0.00050	UJ	0.00046	UJ	0.00045	UJ	0.00045	UJ
Cl3-BZ#16/#32		MG/KG	0.00092	U	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl3-BZ#17		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl3-BZ#18		MG/KG	0.00046	U	0.00074	U	0.00046	U	0.00045	U	0.00045	U
Cl3-BZ#19		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl3-BZ#21/#33		MG/KG	0.00092	U	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl3-BZ#22		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl3-BZ#24/#27		MG/KG	0.00092	U	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl3-BZ#25		MG/KG	0.00046	U	0.00069	U	0.00046	U	0.00045	U	0.00045	U
Cl3-BZ#26		MG/KG	0.00063	U	0.00060	U	0.00046	U	0.00045	U	0.00045	U
Cl3-BZ#28/#31		MG/KG	0.0016	U	0.0016	U	0.00091	U	0.00089	U	0.00089	U
Cl3-BZ#29		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl3-BZ#37		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#40		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#41/#71		MG/KG	0.00066	J	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl4-BZ#42		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#43/#49		MG/KG	0.0021	U	0.0015	U	0.00091	U	0.00089	U	0.00089	U
Cl4-BZ#44		MG/KG	0.00087		0.00061		0.00026	J	0.00045	U	0.00024	J
Cl4-BZ#45		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#46		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#47/#48		MG/KG	0.0012		0.00079	J	0.00091	U	0.00089	U	0.00089	U
Cl4-BZ#50		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#51		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#52		MG/KG	0.0033	U	0.0025	U	0.0011	U	0.00070	U	0.00078	U
Cl4-BZ#53		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#54		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#56/#60		MG/KG	0.00092	U	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl4-BZ#63		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#64		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#66		MG/KG	0.0018		0.0011		0.00061		0.00049		0.00051	
Cl4-BZ#70		MG/KG	0.00060		0.00045	J	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#74		MG/KG	0.0011		0.00083		0.00043	J	0.00031	J	0.00030	J
Cl4-BZ#76		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#77		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl4-BZ#81		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#82		MG/KG	0.00030	J	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#83		MG/KG	0.00036	J	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#85		MG/KG	0.00070		0.00048	J	0.00046	U	0.00045	U	0.00023	J
Cl5-BZ#87		MG/KG	0.0011		0.00098		0.00047		0.00035	J	0.00045	
Cl5-BZ#89		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#91		MG/KG	0.00055		0.00029	J	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#92		MG/KG	0.0016		0.0013		0.00066		0.00054		0.00042	J
Cl5-BZ#95		MG/KG	0.0016	U	0.0012	U	0.00059	U	0.00045	U	0.00045	U
Cl5-BZ#97		MG/KG	0.00086		0.00048	J	0.00024	J	0.00045	U	0.00045	U
Cl5-BZ#99		MG/KG	0.0026		0.0026	J	0.0013	U	0.00090	U	0.00093	U
Cl5-BZ#100		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#101/#84		MG/KG	0.0063		0.0052	J	0.0027		0.0021	U	0.0019	U
Cl5-BZ#104		MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#105		MG/KG	0.0019		0.0017		0.00096		0.00076		0.00070	
Cl5-BZ#107		MG/KG	0.0012		0.0011		0.00053		0.00053		0.00039	J
Cl5-BZ#110		MG/KG	0.0026		0.0014	U	0.00069	U	0.00061	U	0.00058	U

TABLE 3B - SAMPLE DATA FOR BLACK SEA BASS (MG/KG WET WEIGHT) AREA III 2009

	Sample#	NBH09-FF-A-3		NBH09-FF-B-3		NBH09-FF-C-3		NBH09-FF-D-3		NBH09-FF-E-3_Bass	
Cl5-BZ#114	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#118	MG/KG	0.0095		0.0085	J	0.0045		0.0036		0.0030	
Cl5-BZ#119	MG/KG	0.00043	J	0.00026	J	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#123	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#124	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl5-BZ#126	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#129	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#130	MG/KG	0.00055		0.00063		0.00028	J	0.00025	J	0.00045	U
Cl6-BZ#131	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#132/#168	MG/KG	0.00064	J	0.0010	U	0.00091	U	0.00089	U	0.00089	U
Cl6-BZ#134	MG/KG	0.00059		0.00054		0.00027	J	0.00025	J	0.00024	J
Cl6-BZ#135/#144	MG/KG	0.00066	J	0.00058	J	0.00091	U	0.00089	U	0.00089	U
Cl6-BZ#136	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#137	MG/KG	0.00032	J	0.00028	J	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#138/#163	MG/KG	0.010		0.0097	J	0.0050		0.0044		0.0036	
Cl6-BZ#141	MG/KG	0.00037	J	0.00039	J	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#146	MG/KG	0.0032		0.0032	J	0.0015		0.0015		0.0012	
Cl6-BZ#147	MG/KG	0.00031	J	0.00033	J	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#149	MG/KG	0.0033		0.0027	J	0.0013	U	0.0013	U	0.0011	U
Cl6-BZ#151	MG/KG	0.00092		0.0011		0.00051		0.00044	J	0.00035	J
Cl6-BZ#153	MG/KG	0.017		0.016	J	0.0086		0.0078		0.0063	
Cl6-BZ#154	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#155	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#156	MG/KG	0.00079		0.00069		0.00040	J	0.00034	J	0.00031	J
Cl6-BZ#157	MG/KG	0.00027	J	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl6-BZ#158	MG/KG	0.00059		0.00049	J	0.00026	J	0.00026	J	0.00022	J
Cl6-BZ#167/#128	MG/KG	0.0022		0.0020		0.0011		0.00095		0.00083	J
Cl6-BZ#169	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#170/#190	MG/KG	0.00097		0.0010		0.00054	J	0.00054	J	0.00052	J
Cl7-BZ#171	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#172	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#173	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#174	MG/KG	0.00033	J	0.00029	J	0.00046	U	0.00045	U	0.00022	J
Cl7-BZ#175	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#176	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#177	MG/KG	0.00064		0.00081		0.00038	J	0.00038	J	0.00037	J
Cl7-BZ#178	MG/KG	0.00061		0.00079		0.00034	J	0.00040	J	0.00030	J
Cl7-BZ#180	MG/KG	0.0019		0.0021	J	0.0010		0.0011		0.0011	
Cl7-BZ#182/#187	MG/KG	0.0025		0.0033		0.0015		0.0017		0.0014	
Cl7-BZ#183	MG/KG	0.00081		0.0011		0.00047		0.00054		0.00046	
Cl7-BZ#184	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#185	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#188	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#189	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#191	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl7-BZ#193	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl8-BZ#194	MG/KG	0.00033	J	0.00053		0.00046	U	0.00045	U	0.00028	J
Cl8-BZ#195	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl8-BZ#196/203	MG/KG	0.00092	U	0.00052	J	0.00091	U	0.00089	U	0.00089	U
Cl8-BZ#197	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl8-BZ#199	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl8-BZ#200	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl8-BZ#201	MG/KG	0.00053		0.00064		0.00035	J	0.00039	J	0.00044	J
Cl8-BZ#202	MG/KG	0.00030	J	0.00060		0.00046	U	0.00029	J	0.00045	U
Cl8-BZ#205	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl9-BZ#206	MG/KG	0.00026	J	0.00040	J	0.00026	J	0.00030	J	0.00025	J
Cl9-BZ#207	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl9-BZ#208	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Cl10-BZ#209	MG/KG	0.00046	U	0.00050	U	0.00046	U	0.00045	U	0.00045	U
Aroclor-1242	MG/KG	0.018	U	0.020	U	0.018	U	0.018	U	0.018	U
Aroclor-1248	MG/KG	0.018	U	0.020	U	0.018	U	0.018	U	0.018	U
Aroclor-1254	MG/KG	0.17		0.15	J	0.10		0.11		0.090	
Aroclor-1260	MG/KG	0.018	U	0.020	U	0.018	U	0.018	U	0.018	U

TABLE 4A - SAMPLE DATA FOR SCUP (MG/KG WET WEIGHT) AREA II 2009

Parameter	Sample#	NBH09-FF-A-2		NBH09-FF-B-2		NBH09-FF-C-2		NBH09-FF-D-2		NBH09-FF-E-2	
	Species	Scup		Scup		Scup		Scup		Scup	
	Area	II		II		II		II		II	
	Station	Station A		Station B		Station C		Station D		Station E	
	Sample Date	5/26/2009		5/26/2009		5/29/2009		5/26/2009		5/26/2009	
	Units										
Lipids	PERCENT	1.3		1.3		0.99		1.2		1.1	
Total PCB Congeners[1]	MG/KG	0.53	J3	0.79	J3	0.16	J3	0.39	J3	0.40	J3
Total PCB Congeners Hits[2]	MG/KG	0.52		0.78		0.15		0.38		0.39	
Total NOAA Congeners[3]	MG/KG	0.32	J4	0.45	J4	0.088	J4	0.23	J4	0.25	J4
Total WHO Congeners[4]	MG/KG	0.086	J4	0.12	J4	0.021	J3	0.064	J3	0.069	J3
Total NOAA / WHO Combined[5]	MG/KG	0.32	J4	0.46	J4	0.091	J3	0.24	J4	0.26	J4
Total Aroclors[6]	MG/KG	0.90	J3	1.2	J3	0.27	J2	0.66	J3	0.77	J3
Cl1-BZ#1	MG/KG	0.00047	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00044	UJ
Cl1-BZ#3	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl2-BZ#4/#10	MG/KG	0.00094	U	0.00091	U	0.00095	U	0.00087	U	0.00088	U
Cl2-BZ#5/#8	MG/KG	0.00094	U	0.00091	U	0.00095	U	0.00087	U	0.00088	U
Cl2-BZ#6	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00026	J
Cl2-BZ#7	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl2-BZ#12/#13	MG/KG	0.00094	U	0.00091	U	0.00095	U	0.00087	U	0.00088	U
Cl2-BZ#15	MG/KG	0.00047	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00044	UJ
Cl3-BZ#16/#32	MG/KG	0.00047	J	0.00091	U	0.00095	U	0.00087	U	0.00049	J
Cl3-BZ#17	MG/KG	0.00042	J	0.00035	J	0.00031	J	0.00056		0.00062	
Cl3-BZ#18	MG/KG	0.00086	J	0.00070	J	0.00074	J	0.0010	J	0.0012	J
Cl3-BZ#19	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl3-BZ#21/#33	MG/KG	0.00094	U	0.00091	U	0.00095	U	0.00087	U	0.00088	U
Cl3-BZ#22	MG/KG	0.00025	J	0.00030	J	0.00047	U	0.00026	J	0.00026	J
Cl3-BZ#24/#27	MG/KG	0.00094	U	0.00091	U	0.00095	U	0.00087	U	0.00088	U
Cl3-BZ#25	MG/KG	0.00069		0.00060		0.00041	J	0.00059		0.00073	
Cl3-BZ#26	MG/KG	0.0022		0.0026		0.00088		0.0020		0.0017	
Cl3-BZ#28/#31	MG/KG	0.0046		0.0053		0.0021		0.0072		0.0046	
Cl3-BZ#29	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl3-BZ#37	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#40	MG/KG	0.00035	J	0.00046	U	0.00047	U	0.00044	U	0.00025	J
Cl4-BZ#41/#71	MG/KG	0.0049		0.0080		0.0010		0.0044		0.0024	
Cl4-BZ#42	MG/KG	0.00047		0.0026		0.00030	J	0.00069		0.00048	
Cl4-BZ#43/#49	MG/KG	0.014		0.033		0.0042		0.014		0.0084	
Cl4-BZ#44	MG/KG	0.0016		0.0020		0.00097		0.0014		0.0013	
Cl4-BZ#45	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#46	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#47/#48	MG/KG	0.011		0.019		0.0024		0.0094		0.0070	
Cl4-BZ#50	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#51	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#52	MG/KG	0.017		0.026		0.0043		0.014		0.0081	
Cl4-BZ#53	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00025	J
Cl4-BZ#54	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#56/#60	MG/KG	0.0022		0.0023		0.00062	J	0.0022		0.0015	
Cl4-BZ#63	MG/KG	0.0012		0.0016		0.00024	J	0.00093		0.00070	
Cl4-BZ#64	MG/KG	0.00040	J	0.00046	U	0.00034	J	0.00044	U	0.00041	J
Cl4-BZ#66	MG/KG	0.012		0.021		0.0029		0.012		0.0087	
Cl4-BZ#70	MG/KG	0.00082		0.00048		0.00066		0.00040	J	0.00065	
Cl4-BZ#74	MG/KG	0.0081		0.011		0.0017		0.0085		0.0061	
Cl4-BZ#76	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#77	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl4-BZ#81	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl5-BZ#82	MG/KG	0.00047		0.00070		0.00047	U	0.00044	U	0.00034	J
Cl5-BZ#83	MG/KG	0.00030	J	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl5-BZ#85	MG/KG	0.0058		0.0077		0.0012		0.0027		0.0030	
Cl5-BZ#87	MG/KG	0.0063		0.010		0.0017		0.0039		0.0031	
Cl5-BZ#89	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl5-BZ#91	MG/KG	0.0031		0.0074		0.0011		0.0023		0.0014	
Cl5-BZ#92	MG/KG	0.0019		0.0023		0.00089		0.0013		0.0011	
Cl5-BZ#95	MG/KG	0.0049		0.0070		0.0017		0.0031		0.0023	
Cl5-BZ#97	MG/KG	0.0064		0.015		0.0020		0.0040		0.0035	
Cl5-BZ#99	MG/KG	0.040		0.084		0.011		0.030		0.031	
Cl5-BZ#100	MG/KG	0.00066		0.0018		0.00047	U	0.00055		0.00047	
Cl5-BZ#101/#84	MG/KG	0.047		0.089		0.011		0.028		0.027	
Cl5-BZ#104	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl5-BZ#105	MG/KG	0.011		0.014		0.0023		0.0075		0.0073	
Cl5-BZ#107	MG/KG	0.0045		0.0065		0.0013		0.0030		0.0035	
Cl5-BZ#110	MG/KG	0.012		0.018		0.0033		0.0074		0.0045	

Prepared by: BJS
Checked by: BBL/JPC

TABLE 4A - SAMPLE DATA FOR SCUP (MG/KG WET WEIGHT) AREA II 2009

	Sample#	NBH09-FF-A-2		NBH09-FF-B-2		NBH09-FF-C-2		NBH09-FF-D-2		NBH09-FF-E-2	
Cl5-BZ#114	MG/KG	0.00057		0.00091		0.00047	U	0.00047		0.00041	J
Cl5-BZ#118	MG/KG	0.053		0.082		0.012		0.041		0.044	
Cl5-BZ#119	MG/KG	0.0023		0.0059		0.00075		0.0019		0.0015	
Cl5-BZ#123	MG/KG	0.0012		0.0020		0.00041	J	0.0011		0.0010	
Cl5-BZ#124	MG/KG	0.00047	U	0.00024	J	0.00047	U	0.00044	U	0.00044	U
Cl5-BZ#126	MG/KG	0.00039	J	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00044	UJ
Cl6-BZ#129	MG/KG	0.00026	J	0.00034	J	0.00047	U	0.00044	U	0.00044	U
Cl6-BZ#130	MG/KG	0.0011		0.0013		0.00047		0.00069		0.00061	
Cl6-BZ#131	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl6-BZ#132/#168	MG/KG	0.00093	J	0.00084	J	0.00065	J	0.00068	J	0.00071	J
Cl6-BZ#134	MG/KG	0.00047		0.00039	J	0.00035	J	0.00034	J	0.00034	J
Cl6-BZ#135/#144	MG/KG	0.0012		0.0014		0.00050	J	0.00063	J	0.00066	J
Cl6-BZ#136	MG/KG	0.00066		0.00095		0.00031	J	0.00039	J	0.00034	J
Cl6-BZ#137	MG/KG	0.0026		0.0037		0.00058		0.0015		0.0017	
Cl6-BZ#138/#163	MG/KG	0.049		0.059		0.014		0.027		0.037	
Cl6-BZ#141	MG/KG	0.0014		0.0019		0.00048		0.00081		0.00066	
Cl6-BZ#146	MG/KG	0.012		0.015		0.0040		0.0091		0.011	
Cl6-BZ#147	MG/KG	0.0019		0.0027		0.00059		0.0013		0.0011	
Cl6-BZ#149	MG/KG	0.013		0.017		0.0048		0.0081		0.0066	
Cl6-BZ#151	MG/KG	0.0016		0.0019		0.00084		0.0011		0.00087	
Cl6-BZ#153	MG/KG	0.085		0.11		0.024		0.068		0.082	
Cl6-BZ#154	MG/KG	0.0013		0.0028		0.00052		0.0011		0.0012	
Cl6-BZ#155	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl6-BZ#156	MG/KG	0.0049		0.0059		0.0012		0.0031		0.0038	
Cl6-BZ#157	MG/KG	0.0011		0.0012		0.00030	J	0.00079		0.00092	
Cl6-BZ#158	MG/KG	0.0057		0.0079		0.0011		0.0024		0.0031	
Cl6-BZ#167/#128	MG/KG	0.013		0.017		0.0033		0.0083		0.010	
Cl6-BZ#169	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl7-BZ#170/#190	MG/KG	0.0053		0.0065		0.0016		0.0034		0.0048	
Cl7-BZ#171	MG/KG	0.0013		0.0017		0.00050		0.00077		0.0012	
Cl7-BZ#172	MG/KG	0.00059		0.00059		0.00047	U	0.00038	J	0.00041	J
Cl7-BZ#173	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl7-BZ#174	MG/KG	0.00038	J	0.00034	J	0.00026	J	0.00023	J	0.00025	J
Cl7-BZ#175	MG/KG	0.00026	J	0.00025	J	0.00047	U	0.00044	U	0.00044	U
Cl7-BZ#176	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl7-BZ#177	MG/KG	0.00054		0.00055		0.00047	J	0.00043	J	0.00037	J
Cl7-BZ#178	MG/KG	0.00034	J	0.00035	J	0.00033	J	0.00031	J	0.00030	J
Cl7-BZ#180	MG/KG	0.0094		0.010		0.0033		0.0063		0.0088	
Cl7-BZ#182/#187	MG/KG	0.0064		0.0070		0.0035		0.0051		0.0060	
Cl7-BZ#183	MG/KG	0.0034		0.0039		0.0015		0.0023		0.0031	
Cl7-BZ#184	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl7-BZ#185	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl7-BZ#188	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl7-BZ#189	MG/KG	0.00031	J	0.00040	J	0.00047	U	0.00022	J	0.00044	
Cl7-BZ#191	MG/KG	0.00031	J	0.00033	J	0.00047	U	0.00022	J	0.00026	J
Cl7-BZ#193	MG/KG	0.00045	J	0.00049		0.00047	U	0.00041	J	0.00041	J
Cl8-BZ#194	MG/KG	0.0014		0.0015		0.00070		0.0011		0.0014	
Cl8-BZ#195	MG/KG	0.00037	J	0.00044	J	0.00047	U	0.00031	J	0.00046	
Cl8-BZ#196/203	MG/KG	0.0014		0.0015		0.00072	J	0.0012		0.0015	
Cl8-BZ#197	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl8-BZ#199	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl8-BZ#200	MG/KG	0.00047	U	0.00027	J	0.00026	J	0.00044	U	0.00028	J
Cl8-BZ#201	MG/KG	0.00060		0.00068		0.00059		0.00046		0.00060	
Cl8-BZ#202	MG/KG	0.00047	U	0.00027	J	0.00035	J	0.00044	U	0.00024	J
Cl8-BZ#205	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl9-BZ#206	MG/KG	0.00060		0.00062		0.00055		0.00069		0.00073	
Cl9-BZ#207	MG/KG	0.00047	U	0.00046	U	0.00047	U	0.00044	U	0.00044	U
Cl9-BZ#208	MG/KG	0.00047	U	0.00046	U	0.00031	J	0.00044	U	0.00044	U
Cl10-BZ#209	MG/KG	0.00047	U	0.00027	J	0.00034	J	0.00044	U	0.00034	J
Aroclor-1242	MG/KG	0.019	U	0.018	U	0.019	U	0.017	U	0.018	U
Aroclor-1248	MG/KG	0.019	U	0.018	U	0.019	U	0.017	U	0.018	U
Aroclor-1254	MG/KG	0.87		1.2		0.24		0.63		0.75	
Aroclor-1260	MG/KG	0.019	U	0.018	U	0.019	U	0.017	U	0.018	U

TABLE 4B - SAMPLE DATA FOR SCUP (MG/KG WET WEIGHT) AREA III 2009

Parameter	Sample#	NBH09-FF-A-3		NBH09-FF-B-3		NBH09-FF-C-3		NBH09-FF-D-3		NBH09-FF-E-3_Scup	
	Species	Scup		Scup		Scup		Scup		Scup	
	Area	III		III		III		III		III	
	Station	Station A		Station B		Station C		Station D		Station E	
	Sample Date	5/29/2009		5/29/2009		6/1/2009		5/29/2009		5/29/2009	
	Units										
Lipids	PERCENT	1.1		0.88		1.6		0.50		1.2	
Total PCB Congeners[1]	MG/KG	0.17	J3	0.30	J3	0.11	J2	0.17	J3	0.25	J3
Total PCB Congeners Hits[2]	MG/KG	0.15		0.29		0.091		0.16		0.24	
Total NOAA Congeners[3]	MG/KG	0.092	J4	0.17	J4	0.059	J3	0.093	J4	0.15	J4
Total WHO Congeners[4]	MG/KG	0.024	J3	0.042	J3	0.015	J2	0.022	J3	0.04	J3
Total NOAA / WHO Combined[5]	MG/KG	0.095	J3	0.17	J4	0.061	J3	0.097	J3	0.16	J4
Total Aroclors[6]	MG/KG	0.27	J2	0.49	J3	0.19	J2	0.25	J2	0.47	J3
Cl1-BZ#1	MG/KG	0.00046	UJ	0.00044	UJ	0.00044	UJ	0.00045	UJ	0.00044	UJ
Cl1-BZ#3	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl2-BZ#4/#10	MG/KG	0.00093	U	0.00088	U	0.00089	U	0.00089	U	0.00087	U
Cl2-BZ#5/#8	MG/KG	0.00093	U	0.00088	U	0.00089	U	0.00089	U	0.00087	U
Cl2-BZ#6	MG/KG	0.00046	U	0.00029	J	0.00044	U	0.00045	U	0.00044	U
Cl2-BZ#7	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl2-BZ#12/#13	MG/KG	0.00093	U	0.00088	U	0.00089	U	0.00089	U	0.00087	U
Cl2-BZ#15	MG/KG	0.00046	UJ	0.00044	UJ	0.00044	UJ	0.00045	UJ	0.00044	UJ
Cl3-BZ#16/#32	MG/KG	0.00093	U	0.00067	J	0.00089	U	0.00089	U	0.00087	U
Cl3-BZ#17	MG/KG	0.00026	J	0.00091		0.00044	U	0.00052		0.00040	J
Cl3-BZ#18	MG/KG	0.00062	J	0.0020	J	0.00027	J	0.0011	J	0.00086	J
Cl3-BZ#19	MG/KG	0.00046	U	0.00026	J	0.00044	U	0.00045	U	0.00044	U
Cl3-BZ#21/#33	MG/KG	0.00093	U	0.00088	U	0.00089	U	0.00089	U	0.00087	U
Cl3-BZ#22	MG/KG	0.00046	U	0.00041	J	0.00044	U	0.00027	J	0.00044	U
Cl3-BZ#24/#27	MG/KG	0.00093	U	0.00088	U	0.00089	U	0.00089	U	0.00087	U
Cl3-BZ#25	MG/KG	0.00032	J	0.0011		0.00029	J	0.00075		0.00052	
Cl3-BZ#26	MG/KG	0.00069		0.0025		0.00033	J	0.0018		0.0012	
Cl3-BZ#28/#31	MG/KG	0.0016		0.0049		0.00095		0.0044		0.0027	
Cl3-BZ#29	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl3-BZ#37	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#40	MG/KG	0.00046	U	0.00039	J	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#41/#71	MG/KG	0.00094		0.0020		0.00046	J	0.0018		0.0014	
Cl4-BZ#42	MG/KG	0.00026	J	0.00080		0.00044	U	0.00028	J	0.00045	
Cl4-BZ#43/#49	MG/KG	0.0039		0.0082		0.0016		0.0066		0.0059	
Cl4-BZ#44	MG/KG	0.00063		0.0021		0.00040	J	0.00092		0.0010	
Cl4-BZ#45	MG/KG	0.00046	U	0.00027	J	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#46	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#47/#48	MG/KG	0.0024		0.0044		0.0011		0.0041		0.0036	
Cl4-BZ#50	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#51	MG/KG	0.00046	U	0.00024	J	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#52	MG/KG	0.0040		0.0097		0.0015		0.0071		0.0056	
Cl4-BZ#53	MG/KG	0.00046	U	0.00049		0.00044	U	0.00023	J	0.00044	U
Cl4-BZ#54	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#56/#60	MG/KG	0.00049	J	0.0012		0.00089	U	0.00092		0.00074	J
Cl4-BZ#63	MG/KG	0.00024	J	0.00041	J	0.00044	U	0.00040	J	0.00041	J
Cl4-BZ#64	MG/KG	0.00046	U	0.00065		0.00044	U	0.00030	J	0.00039	J
Cl4-BZ#66	MG/KG	0.0032		0.0057		0.0017		0.0044		0.0055	
Cl4-BZ#70	MG/KG	0.00045	J	0.00080		0.00034	J	0.00048		0.00058	
Cl4-BZ#74	MG/KG	0.0018		0.0032		0.00083		0.0033		0.0029	
Cl4-BZ#76	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#77	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl4-BZ#81	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl5-BZ#82	MG/KG	0.00046	U	0.00046		0.00044	U	0.00045	U	0.00044	U
Cl5-BZ#83	MG/KG	0.00046	U	0.00027	J	0.00044	U	0.00045	U	0.00025	J
Cl5-BZ#85	MG/KG	0.0017		0.0023		0.00081		0.0013		0.0019	
Cl5-BZ#87	MG/KG	0.0020		0.0029		0.00084		0.0020		0.0024	
Cl5-BZ#89	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl5-BZ#91	MG/KG	0.00090		0.0020		0.00040	J	0.0011		0.0013	
Cl5-BZ#92	MG/KG	0.00071		0.0019		0.00038	J	0.00063		0.00091	
Cl5-BZ#95	MG/KG	0.0014		0.0032		0.00070		0.0016		0.0018	
Cl5-BZ#97	MG/KG	0.0024		0.0037		0.0011		0.0021		0.0028	
Cl5-BZ#99	MG/KG	0.012		0.020		0.0067		0.011		0.018	
Cl5-BZ#100	MG/KG	0.00046	U	0.00032	J	0.00044	U	0.00025	J	0.00027	J
Cl5-BZ#101/#84	MG/KG	0.013	J	0.020		0.0061		0.013		0.017	
Cl5-BZ#104	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl5-BZ#105	MG/KG	0.0029		0.0047		0.0016		0.0027		0.0045	
Cl5-BZ#107	MG/KG	0.0015		0.0023		0.00097		0.0013		0.0022	
Cl5-BZ#110	MG/KG	0.0032		0.0068		0.0014		0.0033		0.0040	

Prepared by: BJS
Checked by: BBL/JPC

TABLE 4B - SAMPLE DATA FOR SCUP (MG/KG WET WEIGHT) AREA III 2009

	Sample#	NBH09-FF-A-3		NBH09-FF-B-3		NBH09-FF-C-3		NBH09-FF-D-3		NBH09-FF-E-3_Scup	
Cl5-BZ#114	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00024	J
Cl5-BZ#118	MG/KG	0.014	J	0.025		0.0083		0.013		0.024	
Cl5-BZ#119	MG/KG	0.00073		0.0012		0.00035	J	0.00068		0.0010	
Cl5-BZ#123	MG/KG	0.00044	J	0.00060		0.00044	U	0.00036	J	0.00056	
Cl5-BZ#124	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl5-BZ#126	MG/KG	0.00046	UJ	0.00044	UJ	0.00044	UJ	0.00045	UJ	0.00044	UJ
Cl6-BZ#129	MG/KG	0.00046	U	0.00022	J	0.00044	U	0.00045	U	0.00044	U
Cl6-BZ#130	MG/KG	0.00052		0.00087		0.00035	J	0.00038	J	0.00059	
Cl6-BZ#131	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl6-BZ#132/#168	MG/KG	0.00093	U	0.0011		0.00089	U	0.00089	U	0.00052	J
Cl6-BZ#134	MG/KG	0.00046	U	0.00054		0.00044	U	0.00045	U	0.00029	J
Cl6-BZ#135/#144	MG/KG	0.00093	U	0.00080	J	0.00089	U	0.00089	U	0.00052	J
Cl6-BZ#136	MG/KG	0.00046	U	0.00057		0.00044	U	0.00023	J	0.00028	J
Cl6-BZ#137	MG/KG	0.00068		0.0012		0.00035	J	0.00060		0.0011	
Cl6-BZ#138/#163	MG/KG	0.015	J	0.026		0.010		0.012		0.022	
Cl6-BZ#141	MG/KG	0.00061		0.00085		0.00025	J	0.00047		0.00053	
Cl6-BZ#146	MG/KG	0.0040		0.0073		0.0029		0.0034		0.0070	
Cl6-BZ#147	MG/KG	0.00056		0.00093		0.00035	J	0.00052		0.00080	
Cl6-BZ#149	MG/KG	0.0045		0.0088		0.0025		0.0040		0.0051	
Cl6-BZ#151	MG/KG	0.00067		0.0014		0.00048		0.00057		0.00078	
Cl6-BZ#153	MG/KG	0.023	J	0.047		0.018		0.022		0.050	
Cl6-BZ#154	MG/KG	0.00052		0.00087		0.00040	J	0.00055		0.00073	
Cl6-BZ#155	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl6-BZ#156	MG/KG	0.0014		0.0024		0.00073		0.0011		0.0024	
Cl6-BZ#157	MG/KG	0.00034	J	0.00063		0.00025	J	0.00032	J	0.00064	
Cl6-BZ#158	MG/KG	0.0013		0.0021		0.00067		0.0012		0.0018	
Cl6-BZ#167/#128	MG/KG	0.0037		0.0070		0.0025		0.0030		0.0065	
Cl6-BZ#169	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#170/#190	MG/KG	0.0018		0.0031		0.0012		0.0016		0.0030	
Cl7-BZ#171	MG/KG	0.00050		0.00085		0.00048		0.00053		0.00067	
Cl7-BZ#172	MG/KG	0.00029	J	0.00038	J	0.00025	J	0.00027	J	0.00035	J
Cl7-BZ#173	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#174	MG/KG	0.00046	U	0.00040	J	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#175	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#176	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#177	MG/KG	0.00034	J	0.00064		0.00037	J	0.00033	J	0.00035	J
Cl7-BZ#178	MG/KG	0.00027	J	0.00043	J	0.00027	J	0.00026	J	0.00025	J
Cl7-BZ#180	MG/KG	0.0033		0.0056		0.0023		0.0031		0.0059	
Cl7-BZ#182/#187	MG/KG	0.0031		0.0048		0.0029		0.0033		0.0043	
Cl7-BZ#183	MG/KG	0.0013		0.0022		0.0011		0.0013		0.0022	
Cl7-BZ#184	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#185	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#188	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#189	MG/KG	0.00046	U	0.00025	J	0.00044	U	0.00045	U	0.00031	J
Cl7-BZ#191	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl7-BZ#193	MG/KG	0.00046	U	0.00029	J	0.00044	U	0.00045	U	0.00026	J
Cl8-BZ#194	MG/KG	0.00076		0.00098		0.00057		0.00074		0.0010	
Cl8-BZ#195	MG/KG	0.00046	U	0.00036	J	0.00044	U	0.00045	U	0.00026	J
Cl8-BZ#196/203	MG/KG	0.00079	J	0.0011		0.00065	J	0.00086	J	0.0012	
Cl8-BZ#197	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl8-BZ#199	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl8-BZ#200	MG/KG	0.00046	U	0.00027	J	0.00044	U	0.00025	J	0.00025	J
Cl8-BZ#201	MG/KG	0.00055		0.00068		0.00048		0.00055		0.00058	
Cl8-BZ#202	MG/KG	0.00046	U	0.00034	J	0.00027	J	0.00030	J	0.00028	J
Cl8-BZ#205	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00045	U	0.00044	U
Cl9-BZ#206	MG/KG	0.00057		0.00071		0.00058		0.00077		0.00074	
Cl9-BZ#207	MG/KG	0.00046	U	0.00044	U	0.00044	U	0.00022	J	0.00044	U
Cl9-BZ#208	MG/KG	0.00028	J	0.00029	J	0.00022	J	0.00033	J	0.00029	J
Cl10-BZ#209	MG/KG	0.00028	J	0.00032	J	0.00023	J	0.00044	J	0.00032	J
Aroclor-1242	MG/KG	0.019	U	0.018	U	0.018	U	0.018	U	0.018	U
Aroclor-1248	MG/KG	0.019	U	0.018	U	0.018	U	0.018	U	0.018	U
Aroclor-1254	MG/KG	0.24		0.46		0.17		0.23		0.44	
Aroclor-1260	MG/KG	0.019	U	0.018	U	0.018	U	0.018	U	0.018	U

TABLE 5 - SAMPLE DATA FOR ALEWIFE (MG/KG WET WEIGHT) AREA I 2009

Parameter	Sample# / Species / Area / Station / Sample Date / Units	NBH09-FF-C-1 / Alewife / I / Station A / 4/13/2009	
Lipids	PERCENT	2.2	
Total PCB Congeners[1]	MG/KG	2.0	J4
Total PCB Congeners Hits[2]	MG/KG	2.0	
Total NOAA Congeners[3]	MG/KG	0.84	J4
Total WHO Congeners[4]	MG/KG	0.044	J3
Total NOAA / WHO Combined[5]	MG/KG	0.84	J4
Total Aroclors[6]	MG/KG	1.9	J4
Cl1-BZ#1	MG/KG	0.0010	J
Cl1-BZ#3	MG/KG	0.00027	J
Cl2-BZ#4/#10	MG/KG	0.017	
Cl2-BZ#5/#8	MG/KG	0.033	
Cl2-BZ#6	MG/KG	0.035	
Cl2-BZ#7	MG/KG	0.0039	
Cl2-BZ#12/#13	MG/KG	0.0047	
Cl2-BZ#15	MG/KG	0.0062	J
Cl3-BZ#16/#32	MG/KG	0.052	
Cl3-BZ#17	MG/KG	0.039	
Cl3-BZ#18	MG/KG	0.092	J
Cl3-BZ#19	MG/KG	0.0099	
Cl3-BZ#21/#33	MG/KG	0.0087	
Cl3-BZ#22	MG/KG	0.011	
Cl3-BZ#24/#27	MG/KG	0.017	
Cl3-BZ#25	MG/KG	0.084	
Cl3-BZ#26	MG/KG	0.13	
Cl3-BZ#28/#31	MG/KG	0.28	
Cl3-BZ#29	MG/KG	0.00044	U
Cl3-BZ#37	MG/KG	0.0027	
Cl4-BZ#40	MG/KG	0.0064	
Cl4-BZ#41/#71	MG/KG	0.029	
Cl4-BZ#42	MG/KG	0.016	
Cl4-BZ#43/#49	MG/KG	0.20	
Cl4-BZ#44	MG/KG	0.039	
Cl4-BZ#45	MG/KG	0.0044	
Cl4-BZ#46	MG/KG	0.0060	
Cl4-BZ#47/#48	MG/KG	0.064	
Cl4-BZ#50	MG/KG	0.00047	
Cl4-BZ#51	MG/KG	0.012	
Cl4-BZ#52	MG/KG	0.20	
Cl4-BZ#53	MG/KG	0.027	
Cl4-BZ#54	MG/KG	0.00053	
Cl4-BZ#56/#60	MG/KG	0.0069	
Cl4-BZ#63	MG/KG	0.0020	
Cl4-BZ#64	MG/KG	0.032	
Cl4-BZ#66	MG/KG	0.021	
Cl4-BZ#70	MG/KG	0.015	
Cl4-BZ#74	MG/KG	0.015	
Cl4-BZ#76	MG/KG	0.00044	U
Cl4-BZ#77	MG/KG	0.00044	U
Cl4-BZ#81	MG/KG	0.00033	J
Cl5-BZ#82	MG/KG	0.0014	
Cl5-BZ#83	MG/KG	0.0031	
Cl5-BZ#85	MG/KG	0.0027	
Cl5-BZ#87	MG/KG	0.0081	
Cl5-BZ#89	MG/KG	0.00044	U
Cl5-BZ#91	MG/KG	0.022	
Cl5-BZ#92	MG/KG	0.014	
Cl5-BZ#95	MG/KG	0.037	
Cl5-BZ#97	MG/KG	0.013	
Cl5-BZ#99	MG/KG	0.048	
Cl5-BZ#100	MG/KG	0.0029	
Cl5-BZ#101/#84	MG/KG	0.064	
Cl5-BZ#104	MG/KG	0.00044	U
Cl5-BZ#105	MG/KG	0.0045	
Cl5-BZ#107	MG/KG	0.0029	
Cl5-BZ#110	MG/KG	0.042	

TABLE 5 - SAMPLE DATA FOR ALEWIFE (MG/KG WET WEIGHT) AREA I 2009

	Sample#	NBH09-FF-C-1	
Cl5-BZ#114	MG/KG	0.00036	J
Cl5-BZ#118	MG/KG	0.030	
Cl5-BZ#119	MG/KG	0.0081	
Cl5-BZ#123	MG/KG	0.0016	
Cl5-BZ#124	MG/KG	0.00099	
Cl5-BZ#126	MG/KG	0.00032	J
Cl6-BZ#129	MG/KG	0.00050	
Cl6-BZ#130	MG/KG	0.0013	
Cl6-BZ#131	MG/KG	0.00044	U
Cl6-BZ#132/#168	MG/KG	0.0026	
Cl6-BZ#134	MG/KG	0.0028	
Cl6-BZ#135/#144	MG/KG	0.0044	
Cl6-BZ#136	MG/KG	0.0036	
Cl6-BZ#137	MG/KG	0.0010	
Cl6-BZ#138/#163	MG/KG	0.024	
Cl6-BZ#141	MG/KG	0.0017	
Cl6-BZ#146	MG/KG	0.0073	
Cl6-BZ#147	MG/KG	0.0025	
Cl6-BZ#149	MG/KG	0.033	
Cl6-BZ#151	MG/KG	0.0054	
Cl6-BZ#153	MG/KG	0.040	
Cl6-BZ#154	MG/KG	0.0027	
Cl6-BZ#155	MG/KG	0.00044	U
Cl6-BZ#156	MG/KG	0.0016	
Cl6-BZ#157	MG/KG	0.00029	J
Cl6-BZ#158	MG/KG	0.0025	
Cl6-BZ#167/#128	MG/KG	0.0044	
Cl6-BZ#169	MG/KG	0.00044	U
Cl7-BZ#170/#190	MG/KG	0.0019	
Cl7-BZ#171	MG/KG	0.00058	
Cl7-BZ#172	MG/KG	0.00041	J
Cl7-BZ#173	MG/KG	0.00044	U
Cl7-BZ#174	MG/KG	0.0011	
Cl7-BZ#175	MG/KG	0.00044	U
Cl7-BZ#176	MG/KG	0.00044	U
Cl7-BZ#177	MG/KG	0.0011	
Cl7-BZ#178	MG/KG	0.00097	
Cl7-BZ#180	MG/KG	0.0036	
Cl7-BZ#182/#187	MG/KG	0.0049	
Cl7-BZ#183	MG/KG	0.0016	
Cl7-BZ#184	MG/KG	0.00044	U
Cl7-BZ#185	MG/KG	0.00044	U
Cl7-BZ#188	MG/KG	0.00044	U
Cl7-BZ#189	MG/KG	0.00044	U
Cl7-BZ#191	MG/KG	0.00044	U
Cl7-BZ#193	MG/KG	0.00033	J
Cl8-BZ#194	MG/KG	0.00058	
Cl8-BZ#195	MG/KG	0.00044	U
Cl8-BZ#196/203	MG/KG	0.00070	J
Cl8-BZ#197	MG/KG	0.00044	U
Cl8-BZ#199	MG/KG	0.00044	U
Cl8-BZ#200	MG/KG	0.00044	U
Cl8-BZ#201	MG/KG	0.00064	
Cl8-BZ#202	MG/KG	0.00032	J
Cl8-BZ#205	MG/KG	0.00044	U
Cl9-BZ#206	MG/KG	0.00028	J
Cl9-BZ#207	MG/KG	0.00044	U
Cl9-BZ#208	MG/KG	0.00022	J
Cl10-BZ#209	MG/KG	0.00044	U
Aroclor-1242	MG/KG	0.018	U
Aroclor-1248	MG/KG	1.3	
Aroclor-1254	MG/KG	0.59	
Aroclor-1260	MG/KG	0.018	U

TABLE 6A - SAMPLE DATA FOR CHANNEL WHELK (MG/KG WET WEIGHT) AREA II 2009

Parameter	Sample# / Species / Area / Station / Sample Date	Units	NBH09-SF-A-2 Channel Whelk II Station A 5/18/2009		NBH09-SF-B-2 Channel Whelk II Station B 5/18/2009		NBH09-SF-C-2 Channel Whelk II Station C 5/18/2009		NBH09-SF-D-2 Channel Whelk II Station D 5/29/2009		NBH09-SF-E-2 Channel Whelk II Station E 5/18/2009	
Lipids		PERCENT	0.069	J	0.10	U	0.071	J	0.14		0.074	J
Total PCB Congeners[1]		MG/KG	0.085	J2	0.13	J2	0.17	J3	0.060	J2	0.11	J2
Total PCB Congeners Hits[2]		MG/KG	0.068		0.11		0.16		0.040		0.089	
Total NOAA Congeners[3]		MG/KG	0.037	J3	0.056	J3	0.082	J3	0.023	J3	0.048	J3
Total WHO Congeners[4]		MG/KG	0.0067	J2	0.011	J2	0.015	J3	0.0055	J2	0.0093	J2
Total NOAA / WHO Combined[5]		MG/KG	0.039	J3	0.059	J3	0.085	J3	0.025	J2	0.051	J3
Total Aroclors[6]		MG/KG	0.14	J2	0.14	J2	0.22	J2	0.085	J2	0.17	J2
Cl1-BZ#1		MG/KG	0.00043	UJ	0.00045	UJ	0.00044	UJ	0.00044	UJ	0.00046	UJ
Cl1-BZ#3		MG/KG	0.00043	UJ	0.00045	UJ	0.00044	UJ	0.00044	UJ	0.00046	UJ
Cl2-BZ#4/#10		MG/KG	0.00086	U	0.00089	U	0.00089	U	0.00088	U	0.00092	U
Cl2-BZ#5/#8		MG/KG	0.00086	U	0.00089	U	0.00089	U	0.00088	U	0.00092	U
Cl2-BZ#6		MG/KG	0.00043	U	0.00036	J	0.00025	J	0.00044	U	0.00046	U
Cl2-BZ#7		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl2-BZ#12/#13		MG/KG	0.00086	U	0.00089	U	0.00089	U	0.00088	U	0.00092	U
Cl2-BZ#15		MG/KG	0.00043	UJ	0.00045	UJ	0.00044	UJ	0.00044	UJ	0.00046	UJ
Cl3-BZ#16/#32		MG/KG	0.00086	U	0.00089	U	0.00089	U	0.00088	U	0.00092	U
Cl3-BZ#17		MG/KG	0.00043	U	0.00030	J	0.00044	U	0.00044	U	0.00046	U
Cl3-BZ#18		MG/KG	0.00030	J	0.0013	J	0.00092	J	0.00040	J	0.00065	J
Cl3-BZ#19		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl3-BZ#21/#33		MG/KG	0.00086	U	0.00089	U	0.00089	U	0.00088	U	0.00092	U
Cl3-BZ#22		MG/KG	0.00043	U	0.00029	J	0.00023	J	0.00044	U	0.00046	U
Cl3-BZ#24/#27		MG/KG	0.00086	U	0.00089	U	0.00089	U	0.00088	U	0.00092	U
Cl3-BZ#25		MG/KG	0.00043	U	0.00041	J	0.00024	J	0.00044	U	0.00046	U
Cl3-BZ#26		MG/KG	0.00064		0.0028		0.0026		0.00070		0.0013	
Cl3-BZ#28/#31		MG/KG	0.00077	J	0.0040		0.0038		0.0011		0.0017	
Cl3-BZ#29		MG/KG	0.00043	UJ	0.00045	UJ	0.00044	UJ	0.00044	UJ	0.00046	UJ
Cl3-BZ#37		MG/KG	0.00043	UJ	0.00045	UJ	0.00044	UJ	0.00044	UJ	0.00046	UJ
Cl4-BZ#40		MG/KG	0.00028	J	0.00040	J	0.00044	J	0.00044	U	0.00031	J
Cl4-BZ#41/#71		MG/KG	0.00073	J	0.0018		0.0022		0.00059	J	0.0012	
Cl4-BZ#42		MG/KG	0.00043	U	0.00050		0.00046		0.00044	U	0.00029	J
Cl4-BZ#43/#49		MG/KG	0.0029		0.0060		0.0076		0.0021		0.0041	
Cl4-BZ#44		MG/KG	0.0012		0.0028		0.0030		0.00094		0.0019	
Cl4-BZ#45		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl4-BZ#46		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl4-BZ#47/#48		MG/KG	0.00086	U	0.00088	J	0.00074	J	0.00088	U	0.00092	U
Cl4-BZ#50		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl4-BZ#51		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl4-BZ#52		MG/KG	0.0030		0.0071		0.0082		0.0024		0.0042	
Cl4-BZ#53		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl4-BZ#54		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl4-BZ#56/#60		MG/KG	0.00086	U	0.00064	J	0.00084	J	0.00088	U	0.00092	U
Cl4-BZ#63		MG/KG	0.00043	U	0.00045	U	0.00030	J	0.00044	U	0.00046	U
Cl4-BZ#64		MG/KG	0.00023	J	0.00064		0.00062		0.00044	U	0.00042	J
Cl4-BZ#66		MG/KG	0.0010		0.0022		0.0031		0.00072		0.0015	
Cl4-BZ#70		MG/KG	0.0011		0.0022		0.0027		0.00095		0.0016	
Cl4-BZ#74		MG/KG	0.00035	J	0.0011		0.0014		0.00034	J	0.00056	
Cl4-BZ#76		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl4-BZ#77		MG/KG	0.00043	U	0.00045	U	0.00029	J	0.00044	U	0.00046	U
Cl4-BZ#81		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl5-BZ#82		MG/KG	0.00043	U	0.00045	U	0.00026	J	0.00044	U	0.00046	U
Cl5-BZ#83		MG/KG	0.00046		0.00062		0.00080		0.00035	J	0.00056	
Cl5-BZ#85		MG/KG	0.00053		0.00080		0.0012		0.00036	J	0.00073	
Cl5-BZ#87		MG/KG	0.0010		0.0013		0.0020		0.00074		0.0013	
Cl5-BZ#89		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00026	J	0.00046	U
Cl5-BZ#91		MG/KG	0.00082		0.0015		0.0018		0.00059		0.0012	
Cl5-BZ#92		MG/KG	0.0015		0.0021		0.0027		0.0011		0.0015	
Cl5-BZ#95		MG/KG	0.0010	J	0.0017	J	0.0017	J	0.00069	J	0.0014	J
Cl5-BZ#97		MG/KG	0.0015		0.0021		0.0030		0.00058		0.0019	
Cl5-BZ#99		MG/KG	0.0031		0.0059		0.0090		0.0016		0.0039	
Cl5-BZ#100		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl5-BZ#101/#84		MG/KG	0.0061		0.0080		0.011		0.0035		0.0069	
Cl5-BZ#104		MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl5-BZ#105		MG/KG	0.00086		0.0015		0.0022		0.00055		0.0012	
Cl5-BZ#107		MG/KG	0.00062		0.00091		0.0012		0.00047		0.00074	
Cl5-BZ#110		MG/KG	0.0044		0.0058		0.0085		0.0025		0.0056	

TABLE 6A - SAMPLE DATA FOR CHANNEL WHELK (MG/KG WET WEIGHT) AREA II 2009

	Sample#	NBH09-SF-A-2		NBH09-SF-B-2		NBH09-SF-C-2		NBH09-SF-D-2		NBH09-SF-E-2	
Cl5-BZ#114	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl5-BZ#118	MG/KG	0.0022		0.0049		0.0065		0.0021		0.0037	
Cl5-BZ#119	MG/KG	0.00030	J	0.00043	J	0.00064		0.00024	J	0.00039	J
Cl5-BZ#123	MG/KG	0.00043	U	0.00045	U	0.00047		0.00044	U	0.00026	J
Cl5-BZ#124	MG/KG	0.00023	J	0.00031	J	0.00046		0.00044	U	0.00025	J
Cl5-BZ#126	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl6-BZ#129	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl6-BZ#130	MG/KG	0.00037	J	0.00044	J	0.00068		0.00027	J	0.00045	J
Cl6-BZ#131	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl6-BZ#132/#168	MG/KG	0.00075	J	0.00080	J	0.0011		0.00048	J	0.00091	J
Cl6-BZ#134	MG/KG	0.00040	J	0.00056		0.00072		0.00027	J	0.00048	
Cl6-BZ#135/#144	MG/KG	0.00047	J	0.00068	J	0.00074	J	0.00088	U	0.00054	J
Cl6-BZ#136	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl6-BZ#137	MG/KG	0.00027	J	0.00039	J	0.00075		0.00044	U	0.00032	J
Cl6-BZ#138/#163	MG/KG	0.0069		0.0077		0.013		0.0037		0.0084	
Cl6-BZ#141	MG/KG	0.00026	J	0.00034	J	0.00056		0.00044	U	0.00034	J
Cl6-BZ#146	MG/KG	0.0017		0.0021		0.0034		0.0010		0.0020	
Cl6-BZ#147	MG/KG	0.00030	J	0.00040	J	0.00062		0.00044	U	0.00035	J
Cl6-BZ#149	MG/KG	0.0031		0.0042		0.0059		0.0018		0.0041	
Cl6-BZ#151	MG/KG	0.00048		0.00061		0.00081		0.00032	J	0.00051	
Cl6-BZ#153	MG/KG	0.010		0.012		0.021		0.0043		0.012	
Cl6-BZ#154	MG/KG	0.00043	U	0.00025	J	0.00040	J	0.00044	U	0.00046	U
Cl6-BZ#155	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl6-BZ#156	MG/KG	0.00047		0.00065		0.0011		0.00028	J	0.00066	
Cl6-BZ#157	MG/KG	0.00043	U	0.00045	U	0.00026	J	0.00044	U	0.00046	U
Cl6-BZ#158	MG/KG	0.00043		0.00056		0.0011		0.00022	J	0.0006	
Cl6-BZ#167/#128	MG/KG	0.0015		0.0018		0.0031		0.00079	J	0.0020	
Cl6-BZ#169	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#170/#190	MG/KG	0.00043	J	0.00089	U	0.00078	J	0.00088	U	0.00057	J
Cl7-BZ#171	MG/KG	0.00043	U	0.00045	U	0.00024	J	0.00044	U	0.00046	U
Cl7-BZ#172	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#173	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#174	MG/KG	0.00043	U	0.00027	J	0.00031	J	0.00044	U	0.00028	J
Cl7-BZ#175	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#176	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#177	MG/KG	0.00028	J	0.00030	J	0.00039	J	0.00044	U	0.00024	J
Cl7-BZ#178	MG/KG	0.00043	U	0.00029	J	0.00036	J	0.00044	U	0.00026	J
Cl7-BZ#180	MG/KG	0.00092		0.0010		0.0020		0.00050		0.0011	
Cl7-BZ#182/#187	MG/KG	0.00096		0.0011		0.0019		0.00055	J	0.0012	
Cl7-BZ#183	MG/KG	0.00035	J	0.00047		0.00078		0.00044	U	0.00046	
Cl7-BZ#184	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#185	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#188	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#189	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#191	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl7-BZ#193	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#194	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#195	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#196/203	MG/KG	0.00086	U	0.00089	U	0.00089	U	0.00088	U	0.00092	U
Cl8-BZ#197	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#199	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#200	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#201	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#202	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl8-BZ#205	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl9-BZ#206	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl9-BZ#207	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl9-BZ#208	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Cl10-BZ#209	MG/KG	0.00043	U	0.00045	U	0.00044	U	0.00044	U	0.00046	U
Aroclor-1242	MG/KG	0.017	U	0.018	U	0.018	U	0.018	U	0.018	U
Aroclor-1248	MG/KG	0.017	U	0.018	U	0.018	U	0.018	U	0.018	U
Aroclor-1254	MG/KG	0.12		0.12		0.20		0.059		0.14	
Aroclor-1260	MG/KG	0.017	U	0.018	U	0.018	U	0.018	U	0.018	U

TABLE 6B - SAMPLE DATA FOR CHANNEL WHELK (MG/KG WET WEIGHT) AREA III 2009

Parameter	Sample#	NBH09-SF-A-3		NBH09-SF-B-3		NBH09-SF-C-3		NBH09-SF-D-3		NBH09-SF-E-3	
	Species	Channel Whelk		Channel Whelk		Channel Whelk		Channel Whelk		Channel Whelk	
	Area	III		III		III		III		III	
	Station	Station A		Station B		Station C		Station D		Station E	
	Sample Date	6/10/2009		5/26/2009		6/10/2009		6/10/2009		5/29/2009	
	Units										
Lipids	PERCENT	0.11		0.10	U	0.075	J	0.071	J	0.15	
Total PCB Congeners[1]	MG/KG	0.057	J2	0.037	J1	0.047	J1	0.038	J1	0.091	J2
Total PCB Congeners Hits[2]	MG/KG	0.035		0.0093		0.022		0.013		0.074	
Total NOAA Congeners[3]	MG/KG	0.022	J3	0.0098	J2	0.016	J2	0.011	J2	0.038	J3
Total WHO Congeners[4]	MG/KG	0.0054	J2	0.0032	J1	0.0044	J2	0.0037	J1	0.0071	J2
Total NOAA / WHO Combined[5]	MG/KG	0.024	J2	0.012	J2	0.018	J2	0.013	J2	0.040	J3
Total Aroclors[6]	MG/KG	0.0090	U	0.0093	U	0.0093	U	0.0089	U	0.094	J2
Cl1-BZ#1	MG/KG	0.00045	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00046	UJ
Cl1-BZ#3	MG/KG	0.00045	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00046	UJ
Cl2-BZ#4/#10	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl2-BZ#5/#8	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl2-BZ#6	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00069	
Cl2-BZ#7	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl2-BZ#12/#13	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl2-BZ#15	MG/KG	0.00045	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00046	UJ
Cl3-BZ#16/#32	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00074	J
Cl3-BZ#17	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00059	
Cl3-BZ#18	MG/KG	0.00045	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.0018	J
Cl3-BZ#19	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl3-BZ#21/#33	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl3-BZ#22	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl3-BZ#24/#27	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl3-BZ#25	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00088	
Cl3-BZ#26	MG/KG	0.00023	J	0.00046	U	0.00047	U	0.00044	U	0.0021	
Cl3-BZ#28/#31	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.0040	
Cl3-BZ#29	MG/KG	0.00045	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00046	UJ
Cl3-BZ#37	MG/KG	0.00045	UJ	0.00046	UJ	0.00047	UJ	0.00044	UJ	0.00046	UJ
Cl4-BZ#40	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00028	J
Cl4-BZ#41/#71	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.0011	
Cl4-BZ#42	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00042	J
Cl4-BZ#43/#49	MG/KG	0.0012		0.00093	U	0.00072	J	0.00046	J	0.0046	
Cl4-BZ#44	MG/KG	0.00051		0.00046	U	0.00035	J	0.00044	U	0.0020	
Cl4-BZ#45	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#46	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#47/#48	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.0011	
Cl4-BZ#50	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#51	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#52	MG/KG	0.0012		0.00082		0.00072		0.00049		0.0055	
Cl4-BZ#53	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00040	J
Cl4-BZ#54	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#56/#60	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl4-BZ#63	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#64	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00058	
Cl4-BZ#66	MG/KG	0.00057		0.00023	J	0.00042	J	0.00028	J	0.0013	
Cl4-BZ#70	MG/KG	0.00049		0.00030	J	0.00039	J	0.00023	J	0.0014	
Cl4-BZ#74	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00071	
Cl4-BZ#76	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#77	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl4-BZ#81	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl5-BZ#82	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl5-BZ#83	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00048	
Cl5-BZ#85	MG/KG	0.00042	J	0.00046	U	0.00030	J	0.00044	U	0.00058	
Cl5-BZ#87	MG/KG	0.00061		0.00046	U	0.00033	J	0.00044	U	0.00095	
Cl5-BZ#89	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl5-BZ#91	MG/KG	0.00043	J	0.00046	U	0.00026	J	0.00044	U	0.00093	
Cl5-BZ#92	MG/KG	0.00084		0.00024	J	0.00052		0.00034	J	0.0014	
Cl5-BZ#95	MG/KG	0.00050	J	0.00046	UJ	0.00029	J	0.00044	UJ	0.0016	J
Cl5-BZ#97	MG/KG	0.00074		0.00046	U	0.00038	J	0.00022	J	0.0010	
Cl5-BZ#99	MG/KG	0.0020		0.00065		0.0014		0.00091		0.0031	
Cl5-BZ#100	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl5-BZ#101/#84	MG/KG	0.0027		0.0012		0.0018		0.00097		0.0053	
Cl5-BZ#104	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl5-BZ#105	MG/KG	0.00050		0.00046	U	0.00036	J	0.00044		0.00081	
Cl5-BZ#107	MG/KG	0.00035	J	0.00029	J	0.00032	J	0.00022	J	0.00060	
Cl5-BZ#110	MG/KG	0.0023		0.00062		0.0011		0.00072		0.0039	
Cl5-BZ#114	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl5-BZ#118	MG/KG	0.0017		0.00045	J	0.0011		0.00077		0.0031	
Cl5-BZ#119	MG/KG	0.00026	J	0.00046	U	0.00047	U	0.00044	U	0.00039	J
Cl5-BZ#123	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl5-BZ#124	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00025	J

TABLE 6B - SAMPLE DATA FOR CHANNEL WHELK (MG/KG WET WEIGHT) AREA III 2009

	Sample#	NBH09-SF-A-3		NBH09-SF-B-3		NBH09-SF-C-3		NBH09-SF-D-3		NBH09-SF-E-3	
Cl5-BZ#126	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#129	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#130	MG/KG	0.00023	J	0.00046	U	0.00047	U	0.00044	U	0.00031	J
Cl6-BZ#131	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#132/#168	MG/KG	0.00048	J	0.00093	U	0.00093	U	0.00088	U	0.00050	J
Cl6-BZ#134	MG/KG	0.00024	J	0.00046	U	0.00047	U	0.00044	U	0.00035	J
Cl6-BZ#135/#144	MG/KG	0.0009	U	0.00093	U	0.00093	U	0.00088	U	0.00048	J
Cl6-BZ#136	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#137	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#138/#163	MG/KG	0.0043		0.0015		0.0030		0.0020		0.0045	
Cl6-BZ#141	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00025	J
Cl6-BZ#146	MG/KG	0.00095		0.00045	J	0.00074		0.00052		0.0012	
Cl6-BZ#147	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00025	J
Cl6-BZ#149	MG/KG	0.0016		0.00063		0.0010		0.00056		0.0027	
Cl6-BZ#151	MG/KG	0.00037	J	0.00046	U	0.00047	U	0.00044	U	0.00041	J
Cl6-BZ#153	MG/KG	0.0061		0.0019		0.0046		0.0029		0.0056	
Cl6-BZ#154	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#155	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#156	MG/KG	0.00035	J	0.00046	U	0.00025	J	0.00044	U	0.00030	J
Cl6-BZ#157	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl6-BZ#158	MG/KG	0.00037	J	0.00046	U	0.00047	U	0.00044	U	0.00028	J
Cl6-BZ#167/#128	MG/KG	0.0011		0.00093	U	0.00074	J	0.00050	J	0.0010	
Cl6-BZ#169	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#170/#190	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl7-BZ#171	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#172	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#173	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#174	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#175	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#176	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#177	MG/KG	0.00024	J	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#178	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#180	MG/KG	0.00066		0.00046	U	0.00052		0.00028	J	0.00057	
Cl7-BZ#182/#187	MG/KG	0.00067	J	0.00093	U	0.00050	J	0.00088	U	0.00066	J
Cl7-BZ#183	MG/KG	0.00024	J	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#184	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#185	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#188	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#189	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#191	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl7-BZ#193	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#194	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#195	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#196/203	MG/KG	0.00090	U	0.00093	U	0.00093	U	0.00088	U	0.00092	U
Cl8-BZ#197	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#199	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#200	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#201	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#202	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl8-BZ#205	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl9-BZ#206	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl9-BZ#207	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl9-BZ#208	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Cl10-BZ#209	MG/KG	0.00045	U	0.00046	U	0.00047	U	0.00044	U	0.00046	U
Aroclor-1242	MG/KG	0.018	U	0.019	U	0.019	U	0.018	U	0.018	U
Aroclor-1248	MG/KG	0.018	U	0.019	U	0.019	U	0.018	U	0.018	U
Aroclor-1254	MG/KG	0.018	U	0.019	U	0.019	U	0.018	U	0.066	
Aroclor-1260	MG/KG	0.018	U	0.019	U	0.019	U	0.018	U	0.018	U

TABLE 7 - SAMPLE DATA FOR BLUE FISH (MG/KG WET WEIGHT) AREAS II AND III 2009

Parameter	Sample# / Species / Area / Station / Sample Date	Units	NBH09-FF-B-2 Bluefish II Station B 9/18/2009		NBH09-FF-A-3 Bluefish III Station A 9/14/2009		NBH09-FF-B-3 Bluefish III Station B 9/15/2009	
Lipids		PERCENT	2.4	J	0.94	J	1.4	J
Total PCB Congeners[1]		MG/KG	0.24	J3	0.15	J3	0.23	J3
Total PCB Congeners Hits[2]		MG/KG	0.23		0.14		0.22	
Total NOAA Congeners[3]		MG/KG	0.12	J4	0.076	J4	0.11	J4
Total WHO Congeners[4]		MG/KG	0.028	J3	0.019	J3	0.026	J3
Total NOAA / WHO Combined[5]		MG/KG	0.12	J3	0.079	J3	0.12	J3
Total Aroclors[6]		MG/KG	0.27	J3	0.14	J2	0.26	J3
Cl1-BZ#1		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl1-BZ#3		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl2-BZ#4/#10		MG/KG	0.00090	U	0.00087	U	0.00094	U
Cl2-BZ#5/#8		MG/KG	0.00090	UJ	0.00087	UJ	0.00094	UJ
Cl2-BZ#6		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl2-BZ#7		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl2-BZ#12/#13		MG/KG	0.00090	U	0.00087	U	0.00094	U
Cl2-BZ#15		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl3-BZ#16/#32		MG/KG	0.00068	J	0.00087	U	0.00062	J
Cl3-BZ#17		MG/KG	0.00057		0.00044	U	0.00042	J
Cl3-BZ#18		MG/KG	0.0011	J	0.00033	J	0.00090	J
Cl3-BZ#19		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl3-BZ#21/#33		MG/KG	0.00090	U	0.00087	U	0.00094	U
Cl3-BZ#22		MG/KG	0.00040	J	0.00044	U	0.00035	J
Cl3-BZ#24/#27		MG/KG	0.00090	U	0.00087	U	0.00094	U
Cl3-BZ#25		MG/KG	0.00097		0.00027	J	0.00091	
Cl3-BZ#26		MG/KG	0.0026		0.00071		0.0024	
Cl3-BZ#28/#31		MG/KG	0.0056	J	0.0018	J	0.0053	J
Cl3-BZ#29		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl3-BZ#37		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl4-BZ#40		MG/KG	0.00048		0.00044	U	0.00033	J
Cl4-BZ#41/#71		MG/KG	0.0020		0.00073	J	0.0018	
Cl4-BZ#42		MG/KG	0.00090		0.00039	J	0.00091	
Cl4-BZ#43/#49		MG/KG	0.0084	J	0.0035	J	0.0084	J
Cl4-BZ#44		MG/KG	0.0025	J	0.00089	J	0.0021	J
Cl4-BZ#45		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl4-BZ#46		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl4-BZ#47/#48		MG/KG	0.0038		0.0018		0.0040	
Cl4-BZ#50		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl4-BZ#51		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl4-BZ#52		MG/KG	0.0093	J	0.0032	J	0.0089	J
Cl4-BZ#53		MG/KG	0.00052		0.00044	U	0.00049	
Cl4-BZ#54		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl4-BZ#56/#60		MG/KG	0.0011		0.00055	J	0.0010	
Cl4-BZ#63		MG/KG	0.00035	J	0.00044	U	0.00034	J
Cl4-BZ#64		MG/KG	0.00083		0.00040	J	0.00085	
Cl4-BZ#66		MG/KG	0.0043	J	0.0024	J	0.0041	J
Cl4-BZ#70		MG/KG	0.0021	J	0.0012	J	0.0021	J
Cl4-BZ#74		MG/KG	0.0026		0.0013		0.0025	
Cl4-BZ#76		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl4-BZ#77		MG/KG	0.00052		0.00031	J	0.00045	J
Cl4-BZ#81		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl5-BZ#82		MG/KG	0.00047		0.00032	J	0.00053	
Cl5-BZ#83		MG/KG	0.00066		0.00048		0.00066	
Cl5-BZ#85		MG/KG	0.0015		0.0011		0.0016	
Cl5-BZ#87		MG/KG	0.0029		0.0015		0.0026	
Cl5-BZ#89		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl5-BZ#91		MG/KG	0.0020		0.0011		0.0020	
Cl5-BZ#92		MG/KG	0.0031		0.0017		0.0029	
Cl5-BZ#95		MG/KG	0.0048	J	0.0022	J	0.0043	J
Cl5-BZ#97		MG/KG	0.0033		0.0020		0.0036	
Cl5-BZ#99		MG/KG	0.014		0.010		0.015	
Cl5-BZ#100		MG/KG	0.00024	J	0.00044	U	0.00025	J
Cl5-BZ#101/#84		MG/KG	0.017		0.0095		0.016	
Cl5-BZ#104		MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl5-BZ#105		MG/KG	0.0031		0.0020		0.0029	
Cl5-BZ#107		MG/KG	0.0019		0.0014		0.0018	
Cl5-BZ#110		MG/KG	0.0073	J	0.0040	J	0.0069	J
Cl5-BZ#114		MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl5-BZ#118		MG/KG	0.016		0.011		0.015	
Cl5-BZ#119		MG/KG	0.00099		0.00059		0.0010	
Cl5-BZ#123		MG/KG	0.00055		0.00037	J	0.00050	
Cl5-BZ#124		MG/KG	0.00024	J	0.00044	U	0.00023	J

Prepared by: BJS
Checked by: BBL/JPC

TABLE 7 - SAMPLE DATA FOR BLUE FISH (MG/KG WET WEIGHT) AREAS II AND III 2009

	Sample#	NBH09-FF-B-2		NBH09-FF-A-3		NBH09-FF-B-3	
Cl5-BZ#126	MG/KG	0.00045	UJ	0.00044	UJ	0.00047	UJ
Cl6-BZ#129	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl6-BZ#130	MG/KG	0.0012		0.00080		0.0011	
Cl6-BZ#131	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl6-BZ#132/#168	MG/KG	0.0018		0.0012		0.0017	
Cl6-BZ#134	MG/KG	0.0011		0.00083		0.0011	
Cl6-BZ#135/#144	MG/KG	0.0014		0.00093		0.0014	
Cl6-BZ#136	MG/KG	0.00081		0.00045		0.00069	
Cl6-BZ#137	MG/KG	0.00065		0.00045		0.00064	
Cl6-BZ#138/#163	MG/KG	0.021		0.015		0.019	
Cl6-BZ#141	MG/KG	0.00088		0.00053		0.00081	
Cl6-BZ#146	MG/KG	0.0046		0.0034		0.0042	
Cl6-BZ#147	MG/KG	0.00071		0.00052		0.00076	
Cl6-BZ#149	MG/KG	0.0089	J	0.0056	J	0.0086	J
Cl6-BZ#151	MG/KG	0.0019		0.0011		0.0018	
Cl6-BZ#153	MG/KG	0.027		0.020		0.025	
Cl6-BZ#154	MG/KG	0.00063		0.00045		0.00065	
Cl6-BZ#155	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl6-BZ#156	MG/KG	0.0013		0.00093		0.0012	
Cl6-BZ#157	MG/KG	0.00044	J	0.00032	J	0.00039	J
Cl6-BZ#158	MG/KG	0.0013		0.00082		0.0012	
Cl6-BZ#167/#128	MG/KG	0.0042		0.0032		0.0041	
Cl6-BZ#169	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#170/#190	MG/KG	0.0018		0.0014		0.0017	
Cl7-BZ#171	MG/KG	0.00049		0.00047		0.00050	
Cl7-BZ#172	MG/KG	0.00038	J	0.00032	J	0.00039	J
Cl7-BZ#173	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#174	MG/KG	0.00074		0.00054		0.00065	
Cl7-BZ#175	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#176	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#177	MG/KG	0.0013		0.00096		0.0011	
Cl7-BZ#178	MG/KG	0.00092		0.00077		0.00092	
Cl7-BZ#180	MG/KG	0.0031		0.0023		0.0027	
Cl7-BZ#182/#187	MG/KG	0.0042		0.0031		0.0039	
Cl7-BZ#183	MG/KG	0.0015		0.0010		0.0014	
Cl7-BZ#184	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#185	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#188	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#189	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#191	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl7-BZ#193	MG/KG	0.00024	J	0.00044	U	0.00026	J
Cl8-BZ#194	MG/KG	0.00056		0.00053		0.00062	
Cl8-BZ#195	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl8-BZ#196/203	MG/KG	0.00093		0.00066	J	0.00089	J
Cl8-BZ#197	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl8-BZ#199	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl8-BZ#200	MG/KG	0.00028	J	0.00044	U	0.00024	J
Cl8-BZ#201	MG/KG	0.0010		0.00080		0.00099	
Cl8-BZ#202	MG/KG	0.00070		0.00046		0.00062	
Cl8-BZ#205	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl9-BZ#206	MG/KG	0.00072		0.00063		0.00089	
Cl9-BZ#207	MG/KG	0.00045	U	0.00044	U	0.00047	U
Cl9-BZ#208	MG/KG	0.00043	J	0.00034	J	0.00046	J
Cl10-BZ#209	MG/KG	0.00028	J	0.00031	J	0.00036	J
Aroclor-1242	MG/KG	0.018	U	0.018	U	0.019	U
Aroclor-1248	MG/KG	0.074		0.018	U	0.071	
Aroclor-1254	MG/KG	0.15		0.092		0.14	
Aroclor-1260	MG/KG	0.040		0.030		0.037	

Appendix B
Data Validation Summary
Massachusetts Department of Environmental Protection
New Bedford Harbor Seafood Contaminant Survey Monitoring
2009 Sampling

Data Validation Summary
Massachusetts Department of Environmental Protection
New Bedford Harbor Seafood Contaminant Survey Monitoring
2009 Sampling

Introduction:

Fifty-four tissue samples were collected from New Bedford Harbor, MA, during 2009. Samples were preserved by freezing (-20°C) and were received in July through December, 2009, by Alpha Woods Hole Laboratory located in Mansfield, 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 six separate data sets: L0909556 (scup/alewife), L0909713 (black sea bass), L0909714 (quahogs – pre-spawn), L0909716 (channel whelk), L0918811 (bluefish) and L0918812 (quahogs – post-spawn). Tier I+ data validation was performed for all data sets. The data packages were validated using Region I EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses (USEPA, 1996), Alpha Woods Hole Laboratory Standard Operating Procedure (SOP) O-010 (Alpha, 2002), and the Quality Assurance Project Plan, Seafood Contaminant Survey, New Bedford Harbor Superfund Site, Revision 5.0 (MADEP, 5/1/08).

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

* Collection and Preservation
* Holding Times
* Data Completeness
* Initial Calibration (only if problems noted in case narrative)
Continuing Calibration (only if problems noted in case narrative)
Blanks
* Surrogate Standards
Standard Reference Material
Laboratory Control Samples
Matrix Spike/Matrix Spike Duplicates
Laboratory Duplicates
* Internal Standards (only if problems noted in case narrative)
Target Compound Quantitation (only if problems noted in case narrative)
Miscellaneous

* - all criteria were met for this parameter

In general, laboratory performance is considered acceptable and all results are usable. The following qualifying statements have been applied to the 2009 data.

Continuing Calibration

PCB (L0918811) – The narrative states that the calibration verification percent difference for congener BZ 126 (36) was outside the control limit of 25. Congener BZ 126 was not detected in the associated samples, and quantitation limits for BZ 126 were qualified as estimated (UJ) in all samples of SDG L0918811.

PCB (L0918812) – The narrative states that the calibration verification percent difference for congener BZ 126 (36) was outside the control limit of 25. Congener BZ 126 was not detected in the associated samples, and quantitation limits for BZ 126 were qualified as estimated (UJ) in all samples of SDG L0918812.

Blanks

PCB (L0909713) – Several congeners were reported in the method blank associated with all samples in SDG L0909713. Action levels were calculated at five times the blank concentrations and then compared to sample results. The following table summarizes the blank contaminants and concentration levels in the method blank. One or more sample results for each of the following congeners were below the action level and were qualified as non-detected (U) in SDG L0909713:

Congener	Method Blank Conc (ug/kg)	Data Qualifier
BZ 6	0.35	U
BZ 18	0.5	U
BZ 17	0.27	U
BZ 26	0.49	U
BZ 25	0.34	U
BZ 28/31	1.2	U
BZ 52	0.7	U
BZ 43/49	0.73	U
BZ 95	0.31	U
BZ 101/84	0.52	U
BZ 99	0.31	U
BZ 110	0.32	U
BZ 149	0.26	U

PCB (L0909714) – Several congeners were reported in the method blank associated with all samples in SDG L0909714. Action levels were calculated at five times the blank concentrations and then compared to sample results. The following table summarizes the blank contaminants and concentration levels in the method blank. One or more sample results for each of the following congeners were below the action level and were qualified as non-detected (U) in SDG L0909714:

Congener	Method Blank Conc (ug/kg)	Data Qualifier
BZ 6	0.31	U
BZ 18	0.52	U
BZ 17	0.25	U
BZ 26	0.5	U
BZ 25	0.33	U
BZ 28/31	1.2	U
BZ 52	0.69	U
BZ 43/49	0.68	U
BZ 101/84	0.64	U
BZ 99	0.35	U
BZ 110	0.36	U
BZ 149	0.26	U
BZ 118	0.27	U

Standard Reference Material

PCB (0918811) – Percent recoveries for congeners BZ 28/31 (48), BZ 52 (59), BZ 43/39 (57), BZ 44 (59), BZ 70 (59), BZ 66 (58), BZ 110 (49), and BZ 149 (58) in the Standard Reference Material were below the 60-140 control limits, indicating potential low biases for these congeners. Positive results for congeners BZ 28/31, BZ 52, BZ 43/49, BZ 44, BZ 70, BZ 66, BZ 110, and BZ 149 were reported in all samples of SDG L0918811 and were qualified as estimated (J).

Percent Lipids (L0918811) – Percent recovery of percent lipids (63) in the Standard Reference Material was below the 75-125 control limits, indicating a potential low bias. Positive results for percent lipids were reported in all samples of SDG L0918811 and were qualified as estimated (J).

PCB (0918812) – Percent recovery for congener BZ 28/31 (58) in the Standard Reference Material was below the 60-140 control limits. Potential low biases are indicated for this congener; therefore, positive and non-detected results for BZ 28/31 were qualified as estimated (J/UJ) in all samples in SDG L0918812.

Laboratory Control Samples

PCB (L0909556) – Percent recoveries for congeners BZ 1 (58, 59), BZ 18 (58), BZ 15 (58, 58), and BZ 126 (58) in the laboratory control sample/laboratory control sample duplicate were outside the 60-140 control limits. Potential low biases are indicated for these congeners; therefore, positive and non-detected results for BZ 1, BZ 18, BZ 15, and BZ 126 were qualified as estimated (J/UJ) in all samples in SDG L0909556.

PCB (L0909713) – Percent recoveries for congeners BZ 1 (57) and BZ 15 (57) in the laboratory control sample were outside the 60-140 control limits, indicating potential low biases. These congeners were not detected in the samples, and quantitation limits for BZ 1 and BZ 15 were qualified as estimated (UJ) in all samples in SDG L0909713.

PCB (L0909714) – Percent recoveries for congeners BZ 1 (54, 59), BZ 3 (58), and BZ 15 (56) in the LCS/LSCD were below the 60-140 control limits. Potential low biases are indicated for these congeners; therefore, positive and non-detected results for BZ 1, BZ 3, and BZ 15 were qualified as estimated (J/UJ) in all samples in SDG L0909714.

PCB (L0909716) – Percent recoveries for congeners BZ 1 (58, 55), BZ 3 (58), BZ 18 (59, 56), BZ 15 (57, 54), BZ 29 (59), BZ 37 (58), and BZ 95 (59) in the LCS/LCSD were below the 60-140 control limits. Potential low biases are indicated for these congeners; therefore, positive and non-detected results for BZ 1, BZ 3, BZ 18, BZ 15, BZ 29, BZ 37, and BZ 95 were qualified as estimated (J/UJ) in all samples in SDG L0909716.

PCB (L0918811) - Percent recoveries for congeners BZ 1 (52, 53), BZ 3 (55, 54), BZ 5/8 (57, 56), BZ 19 (53, 53), BZ 18 (51, 52), BZ 15 (45, 46), BZ 54 (53, 53), BZ 29 (53, 53), BZ 28/31 (56, 56), BZ 104 (59, 58), BZ 37 (53, 53), and BZ 95 (54, 54) were below the 60-140 control limits in the LCS/LCSD. Potential low biases are indicated for these congeners; therefore, positive and non-detected results for BZ 1, BZ 3, BZ 5/8, BZ 19, BZ 18, BZ 15, BZ 54, BZ 29, BZ 28/31, BZ 104, BZ 37, and BZ 95 were qualified as estimated (J/UJ) in all samples in SDG L0918811.

PCB (L0918812) - Percent recovery for congener BZ 206 (149) was above the 40-140 control limits in the laboratory fortified blank. Potential high biases are indicated for this congener; therefore, the positive detections of BZ 206 in samples NBH09-SF-C-2 QUAHOGS (post-spawn) and NBH09-SF-H-2 QUAHOGS (post-spawn) were qualified as estimated (J).

PCB (L0918812) - Percent recoveries for congener BZ 15 (57, 57) were below the 60-140 control limits in the LCS/LCSD. Potential low biases are indicated for this congener; therefore, positive and non-detected results for BZ 15 were qualified as estimated (J/UJ) in all samples of SDG L0918812.

<u>Matrix Spikes/Matrix Spike Duplicates</u>

PCB (L0909556) – Relative percent differences (RPDs) between percent recoveries of congeners BZ 101/84 (35), BZ 118 (36), BZ 153 (45), and BZ 138/163 (39) were above the control limit of 30 in the MS/MSD associated with sample NBH09-FF-A-3 SCUP. Positive detections of congeners BZ 101/84, BZ 118, BZ 153, and BZ 138/163 were reported in sample NBH09-FF-A-3 SCUP and were qualified as estimated (J).

PCB (L0909713) – Percent recoveries and RPDs for congeners BZ 118 (54, 36, RPD 39), BZ 153 (32, 3, RPD 168), and BZ 138/163 (44, 26, RPD 50) were outside control limits of 60-140 and 30, respectively, in the MS/MSD associated with sample NBH09-FF-B-3 SEA BASS. Positive detections of congeners BZ 118, BZ 153, and BZ 138/163 were reported in sample NBH09-FF-B-3 SEA BASS and were qualified as estimated (J).

PCB (L0909714) – Percent recoveries for congeners BZ 1 (57), BZ 18 (56), BZ 15 (56), and BZ 95 (58) were below control limits of 60-140 in the MS/MSD associated with sample NBH09-SF-B-2 QUAHOGS (pre-spawn). Positive and non-detected results for congeners BZ 1, BZ 18, BZ 15, and BZ 95 were qualified as estimated (J/UJ) in sample NBH09-SF-B-2 QUAHOGS (pre-spawn).

PCB (L0918811) – Percent recoveries for congeners BZ 1 (50, 52), BZ 3 (54, 56), BZ 5/8 (59), BZ 19 (54, 53), BZ 18 (51, 53), BZ 15 (45, 47), BZ 54 (53, 53), BZ 29 (57, 56), BZ 104 (59, 58), BZ 37 (55, 56), and BZ 95 (57) were below the 60-140 control limits in the MS/MSD associated with sample NBH09-FF-B-2 BLUEFISH. Positive and non-detected results for these congeners were qualified as estimated (J/UJ) in sample NBH09-FF-B-2 BLUEFISH.

PCB (L0918812) – Percent recoveries for congeners BZ 1 (50, 48), BZ 3 (54, 52), BZ 4/10 (58), BZ 5/8 (57), BZ 19 (56, 52), BZ 18 (57, 54), BZ 15 (50, 47), BZ 54 (58, 54), BZ 29 (56), BZ 28/31 (59), BZ 37 (59), and BZ 95 (58) were below the 60-140

control limits in the MS/MSD associated with sample NBH09-SF-B-2 QUAHOGS (post-spawn). Positive and non-detected results for these congeners were qualified as estimated (J/UJ) in sample NBH09-SF-B-2 QUAHOGS (post-spawn).

Laboratory Duplicates

PCB (L0909713) – The relative percent difference (RPD) between laboratory duplicate results for several congeners in sample NBH09-FF-B-3 SEA BASS were above the control limit of 30, and the absolute differences between the sample and duplicate results were greater than the reporting limit. The following table summarizes the laboratory duplicate results and associated data qualifiers applied to sample NBH09-FF-B-3 SEA BASS:

Congener/Aroclor	RPD	Data Qualifier
BZ 101/84	110	J
BZ 99	110	J
BZ 149	98	J
BZ 118	115	J
BZ 146	107	J
BZ 153	110	J
BZ 138/163	110	J
BZ 180	104	J
Aroclor 1254	78	J

Percent Lipids (L0918811) – The relative percent difference (25) between percent lipid results for sample NBH09-FF-B-2 and its lab duplicate was above the control limit of 20. Positive results for percent lipids in all samples in SDG L0918811 were qualified as estimated (J).

Target Compound Quantitation

PCB (L0909716) - The narrative states that a subset of samples in SDG L0909716 contain some peaks matching the expected retention times for Aroclor 1248; however, the peak area ratios do not match those typical of Aroclor 1248. Therefore, results for Aroclor 1248 have been reported as non-detected in these samples.

PCB (L0918811) – The narrative states that all samples in SDG L0918811 contain retention time patterns that match Aroclor 1248 and Aroclor 1260; however, the peak area ratios do not completely match those typical of Aroclor 1248 and Aroclor 1260. Therefore, the results for Aroclor 1248 and Aroclor 1260 in SDG L0918811 are reported by the laboratory as "weathered."

PCB (L0918812) – The narrative states that samples NBH09-SF-C-2 QUAHOGS (post-spawn), NBH09-SF-D-2 QUAHOGS (post-spawn), NBH09-SF-F-2 QUAHOGS (post-spawn), and NBH09-SF-H-2 QUAHOGS (post-spawn) in SDG L0918812 contain retention time patterns that match Aroclor 1248; however, the peak area ratios do not completely match those typical of Aroclor 1248. Therefore, the results for Aroclor 1248 in samples NBH09-SF-C-2 QUAHOGS (post-spawn), NBH09-SF-D-2 QUAHOGS (post-spawn), NBH09-SF-F-2 QUAHOGS (post-spawn), and NBH09-SF-H-2 QUAHOGS (post-spawn) are reported by the laboratory as "weathered."

Miscellaneous

PCB (L0909556, L0909713) – Several discrepancies between results reported on the hardcopy Form 1s and results contained in the laboratory EDD were noted. In all cases, the reported concentrations were at the reporting limit (RL) and were reported as non-detected (U) on the Form 1 and as a J-qualified detection on the EDD. The laboratory was contacted for follow up, and after input from the laboratory the final results on the EDD were revised to match those reported on the Form 1s.

All Parameters (L0918811) – All field sample IDs for SDG L0918811 were reported with the prefix "NBH08"; however, samples were collected in 2009 and should have been designated as "NBH09". The laboratory confirmed that all sample tags and other labels associated with the samples were received as "NBH08". As instructed by the client the sample IDs were manually changed on the laboratory results forms from "NBH08" to "NBH09" during data validation.

References:

U.S. Environmental Protection Agency (USEPA), 1996. "Region 1 EPA-NE Data Validation Guidelines For Evaluating Environmental Analyses"; Quality Assurance Unit Staff; Office of Environmental Measurement and Evaluation; December 1996.

MADEP, May 1, 2008. "Quality Assurance Project Plan, Seafood Contaminant Survey, New Bedford Harbor Superfund Site, Revision 5.0", Massachusetts Department of Environmental Protection; May 2008.

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

March 30, 2010

Reviewed by: Bradley B. LaForest, NRCC-EAC

April 14, 2010

Appendix C

Seafood Monitoring - Field Sampling Activities for the New Bedford Harbor Superfund Site
2009 Annual Report

Seafood Monitoring - Field Sampling Activities for the New Bedford Harbor Superfund Site
2009 Annual Report

Vin Malkoski, Senior Marine Fisheries Biologist
Massachusetts Division of Marine Fisheries
January 2010

The Massachusetts Division of Marine Fisheries (*MarineFisheries*) under an agreement with the Massachusetts Department of Environmental Protection (MassDEP) 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 Alpha Woods Hole Laboratories in Mansfield, Massachusetts for analysis. MassDEP provides the results of the analyses to EPA to monitor and support the site remediation project. This report describes *MarineFisheries*' field activities in 2009 in accordance with the Seafood Monitoring and Field Sampling Work Plan and makes recommendations for the upcoming 2010 field season based on results obtained during the previous field season.

Sample Sites

The three Fish Closure Areas are identified in Attachment 1 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. These three Fish Closure Areas were designated by the Mass. Dept. of Public Health in 1979. 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 original 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 (Attachment 1 – Figure 1 to 7). Area 1 was not sampled during the 2009 collection season, except for alewife. Area 3 quahog Station J was added and sampled as a substitute for Station F, which was not sampled in 2009, as described below. One set of post-spawn quahog samples and a set of bluefish samples were lost due to a freezer malfunction. A new set of bluefish samples and one set of post-spawn quahogs samples were obtained. As requested by EPA and MassDEP, 10 samples of channel whelk were obtained from Areas 2 & 3.

2009 Field Collections

Complete information including the harvest dates, collection identification information, species, and station identification information, location by latitude and longitude, and collection method is appended to this report as Attachment 2 – Collection Sheets 1 to 7.

Alewife (*Alosa pseudoharengus*)
Five alewife were collected at the New Bedford Reservoir at Station C-1 in April.

Bluefish (*Pomatomus saltatrix)*
Four stations were established in 2008 for the collection of bluefish: Stations A-2 and B-2 in Area 2 and Stations A-3 and B-3 in Area 3. Bluefish were collected from each station during August, but lost due to a freezer malfunction. Replacement samples from Stations B-2, A-3, and B-3 were collected in September. *MarineFisheries* was unable to replace the sample from Station A-2.

Black Sea Bass (*Centropristis striata*)
In 2009, Black Sea Bass were collected from ten stations in Areas 2 and 3. Although the work plan calls for these samples to be collected in the fall, sufficient numbers of black sea bass were harvested during May and June while sampling for scup that the five fish sample was filled at each station.

Channeled whelk (*Busycon canaliculatum)*
Ten stations were established in 2009 for the collection of channeled whelk. Stations A-2, B-2, C-2, D-2, and E-2 in Area 2 and Stations A-3, B-3, C-3, D-3, and E-3 in Area 3. Five whelk were collected at each station in May and June.

Quahog (*Mercenaria mercenaria*)
Marine Fisheries collected pre-spawn and post-spawn quahogs from ten stations in two of the three Fish Closure Areas. Stations B, C, D, F, G, and H in Area 2 and Stations B, D, I, and J in Area 3 were sampled. Station J was added in 2009 to Area 3 and sampled. Pre-spawn quahogs were collected in May. Post-spawn quahogs were collected in August, however were lost when the storage freezer malfunctioned. A second set of samples was obtained in October and November. Twelve legal size quahogs per station were harvested in each collection in order to provide sufficient sample sizes for the Work Plan.

Scup (*Stenotomus chrysops)*
Five legal size scup were collected in May and June from each of the ten stations in Areas 2 and 3.

Planning for 2010 Field Collections

Alewife, black sea bass, bluefish, channeled whelk, quahog, and scup sampling will continue as described above.

Due to the continued status of the southern New England winter flounder stock as “overfished” as determined by the Atlantic States Marine Fisheries Commission, black sea bass will again be harvested in their place.

ATTACHMENT 1
DMF HARVEST SITE MAPS

Figure 1 PCB Sample Areas I to III
Figure 2 Alewife Area I
Figure 3 Bluefish Area II & III
Figure 4 Black Sea Bass Area II & III
Figure 5 Channeled Whelk Area II & III
Figure 6 Quahog (Pre and post-spawn) Area II & III
Figure 7 Scup Area II & III

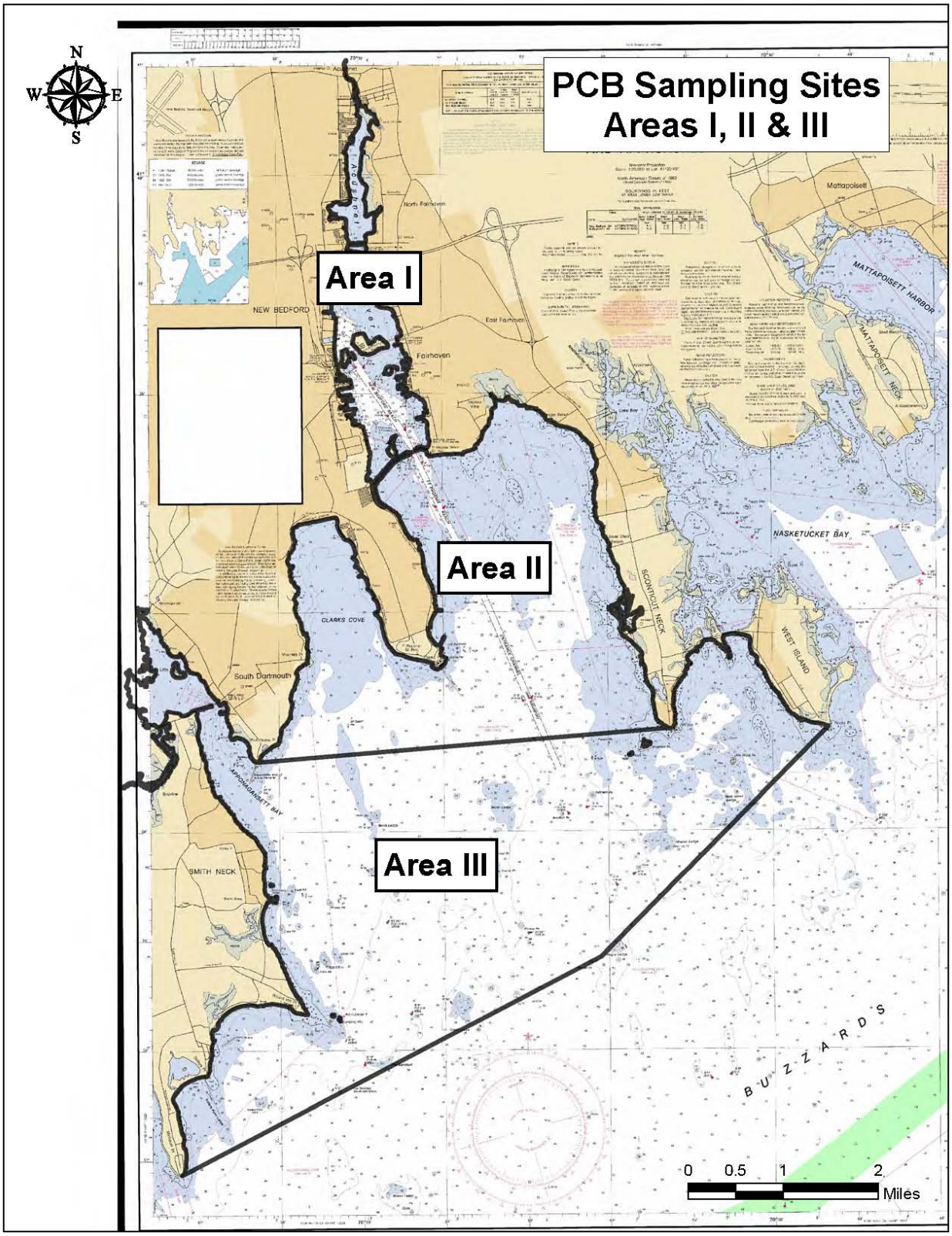

Figure 1 PCB Sample Areas I to III

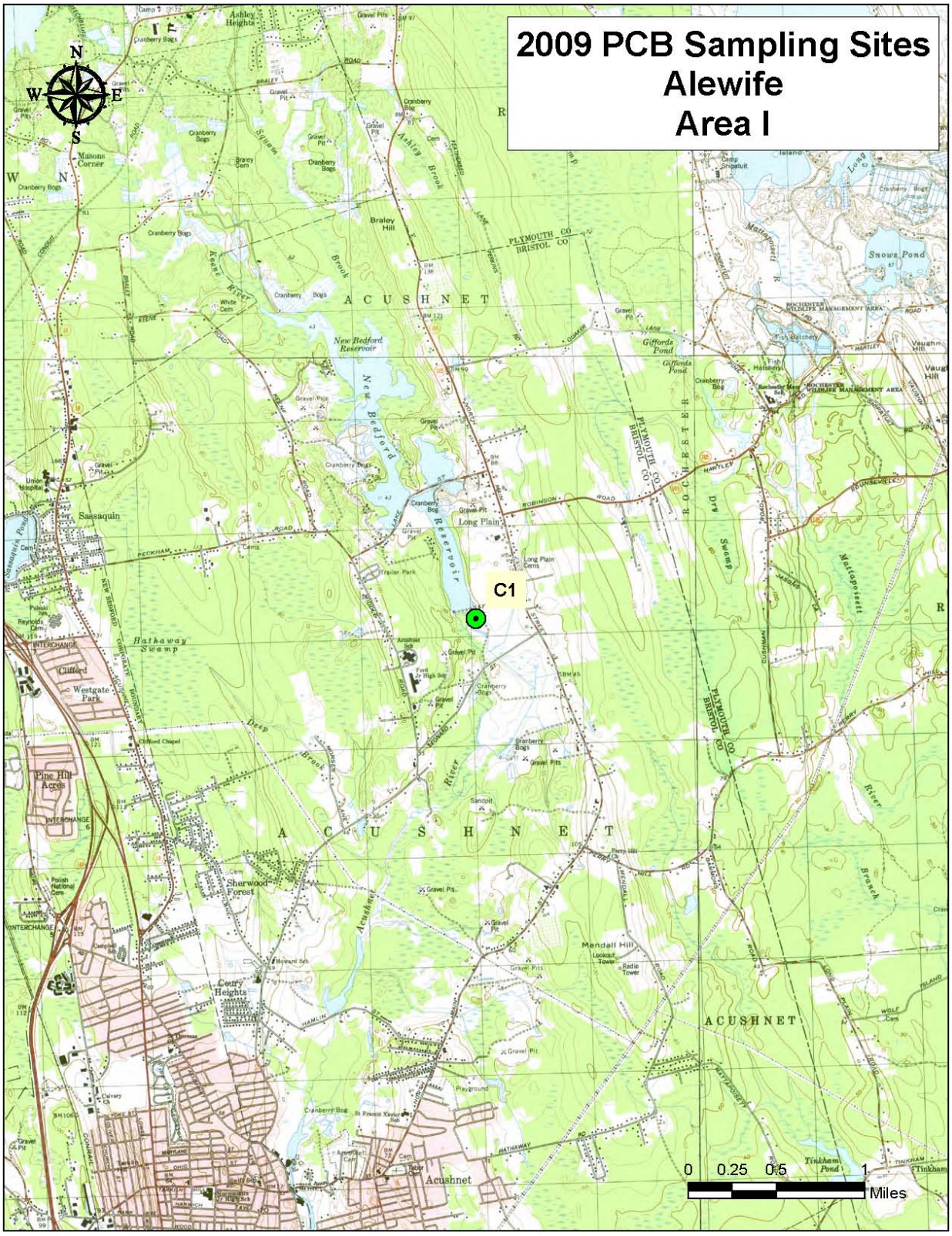

Figure 2 Alewife Area I

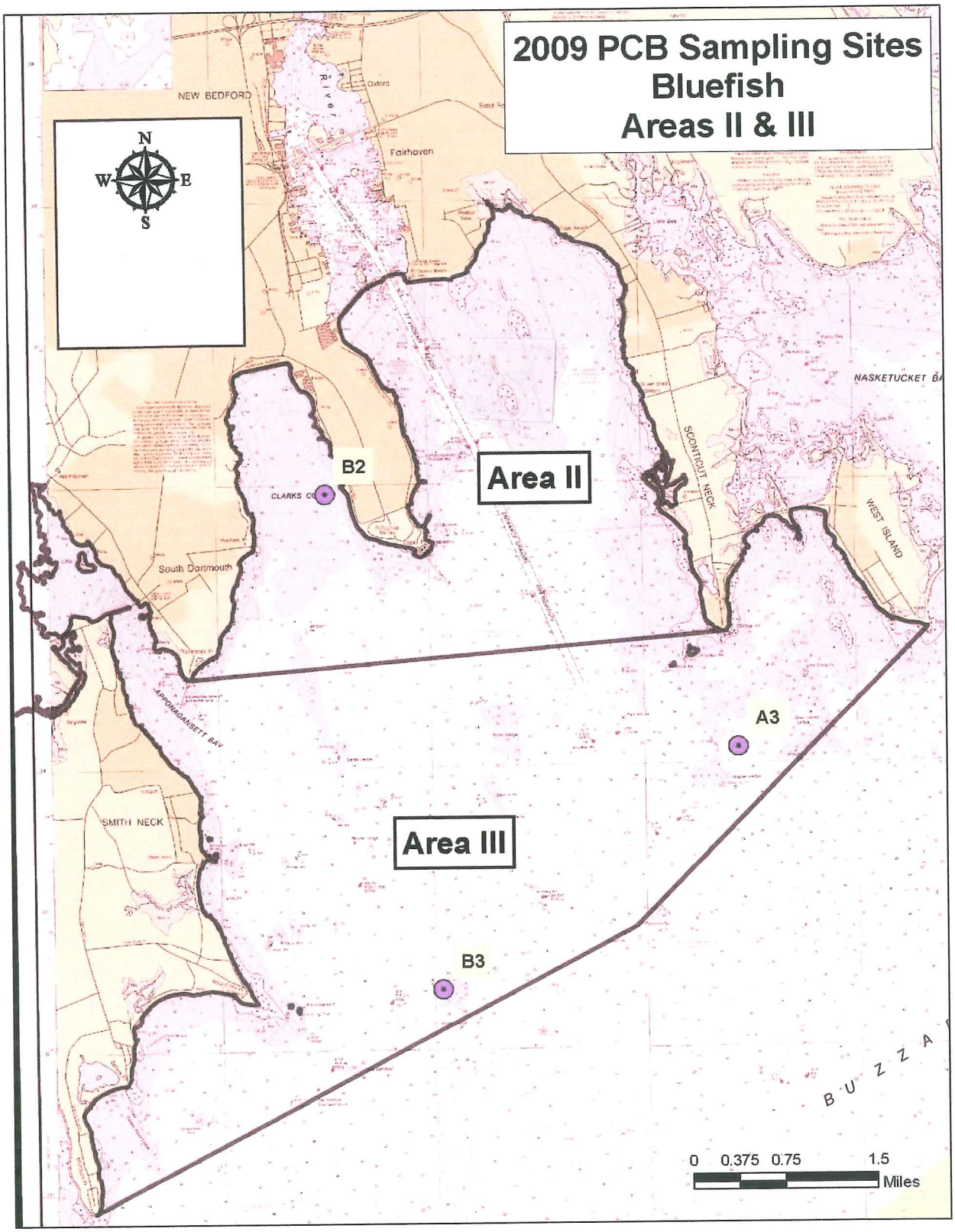

Figure 3 Bluefish Area II & III

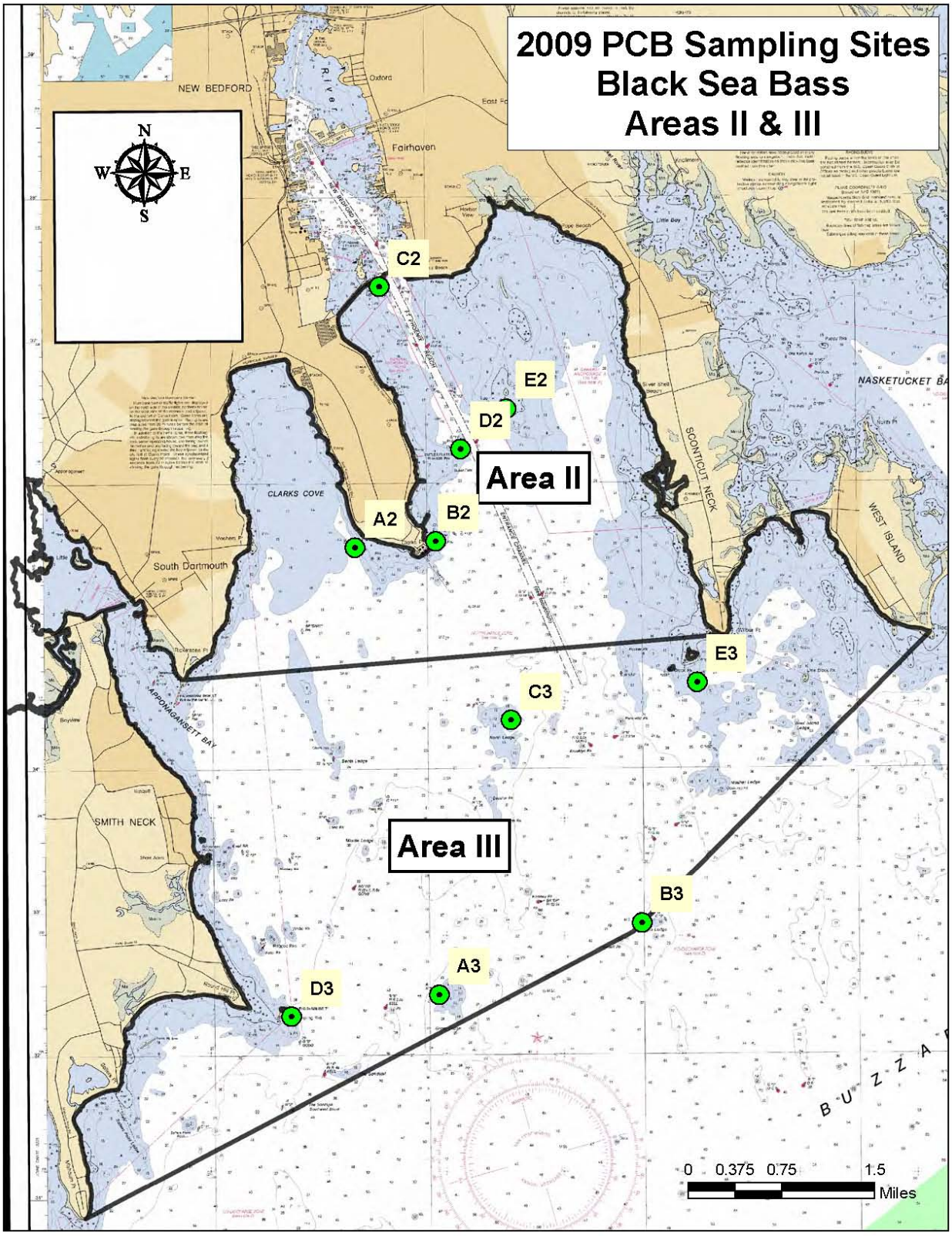

Figure 4 Black Sea Bass Area II & III

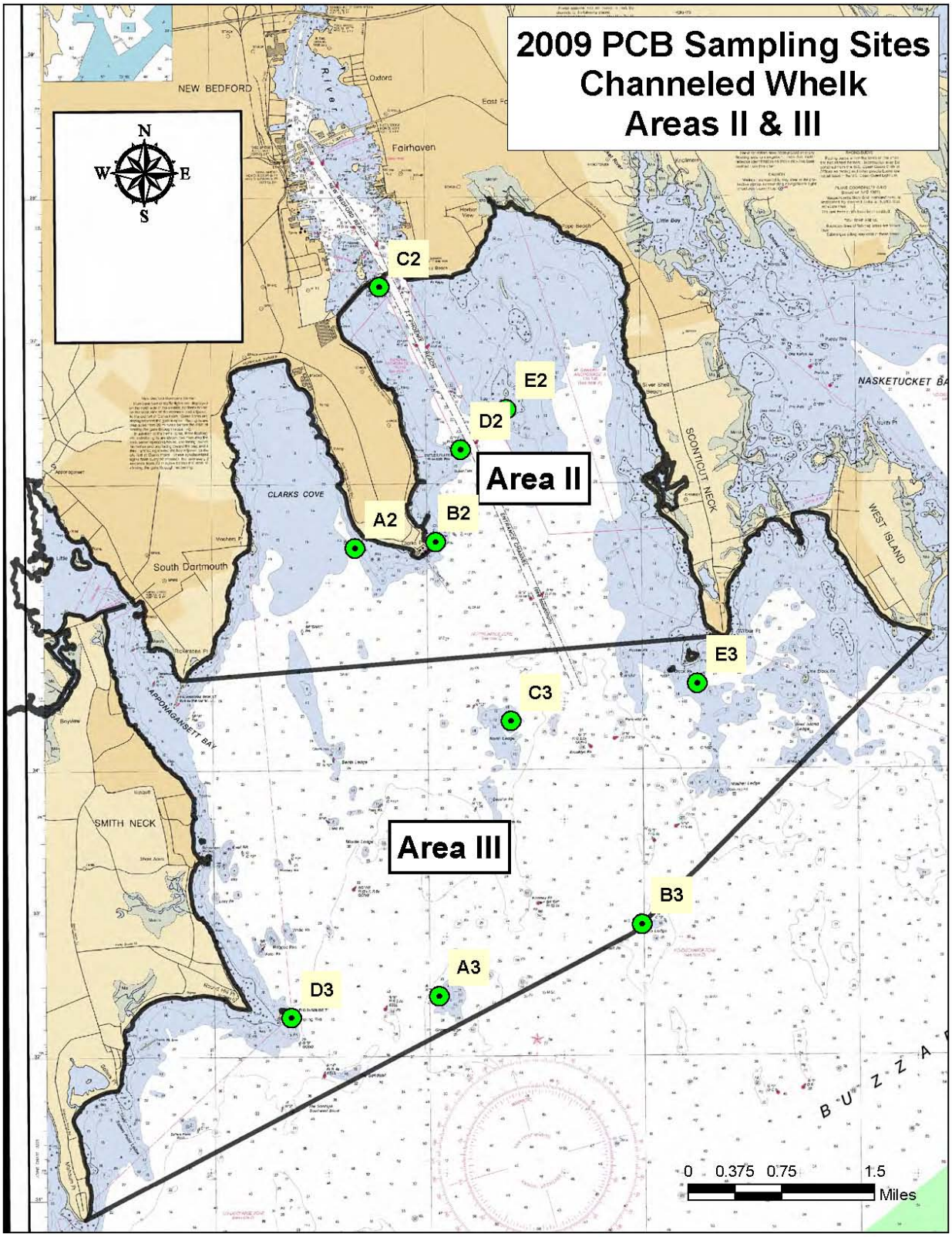

Figure 5 Channeled Whelk Area II & III

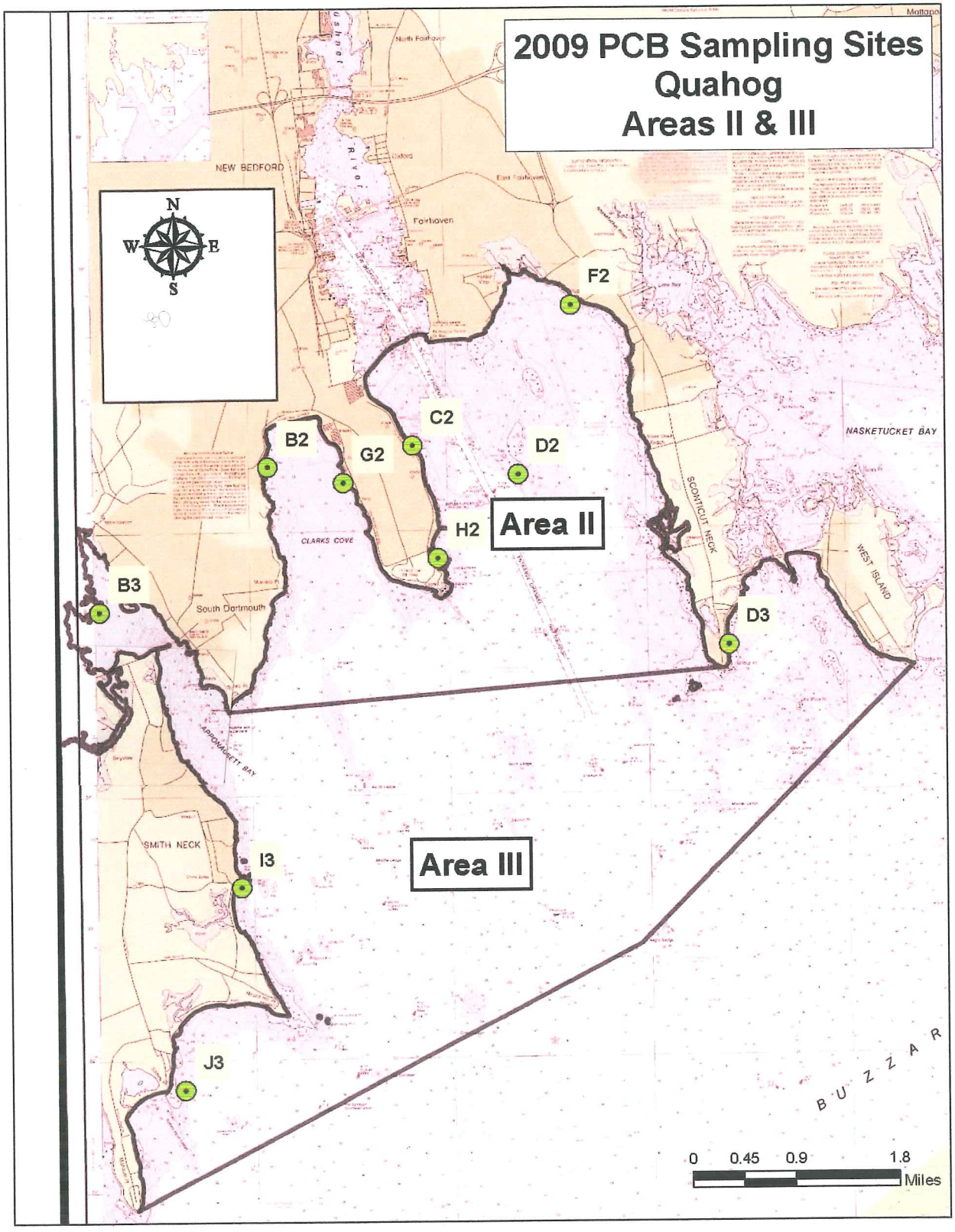

Figure 6 Quahog (Pre and Post-spawn) Area II, & III

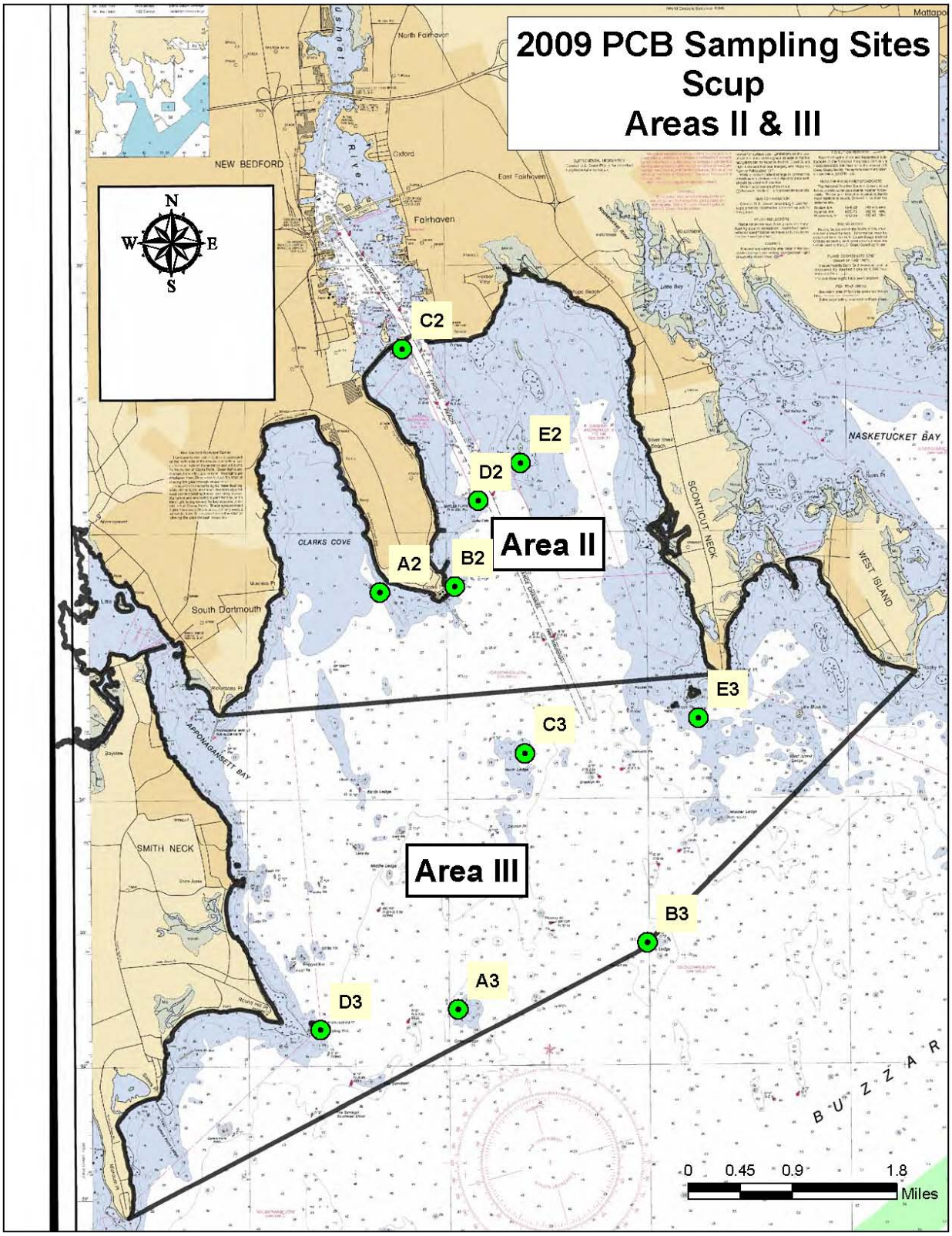

Figure 7 Scup Area II & III

ATTACHMENT 2
DMF FIELD COLLECTION SHEETS

Field Collection Form 1 Alewife
Field Collection Form 2 Bluefish
Field Collection Form 3 Black Sea Bass
Field Collection Form 4 Channel Whelk
Field Collection Form 5 Quahog Pre-spawn
Field Collection Form 6 Quahog Post-spawn
Field Collection Form 7 Scup

FIELD COLLECTION FORM 1: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 838 S. RODNEY FRENCH BLVD, NEW BEDFORD, MA 02744
PROJECT #: NBH09 REQUESTED BY/AGENCY: Paul Craffey / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Vin Malkoski SHIPPER: MDMF Vin Malkoski SAMPLE CONDITION: FRESH ____ FROZEN X

13/04/09	NBH09-FF-C-1	Alewife	Station C NBR	NBH Area 1	041º 43.724' 070º 53.915'	Net	

FIELD COLLECTION FORM 2: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 838 S. RODNEY FRENCH BLVD, NEW BEDFORD, MA 02744
PROJECT #: NBH08 REQUESTED BY/AGENCY: Paul Craffey / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Vin Malkoski SHIPPER: MDMF Vin Malkoski SAMPLE CONDITION: FRESH ____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
18/9//09	NBH09-FF-B-2	2 Bluefish	Station B Clarks Cove	NBH Area 2	041º 35.983' 070º 54.954'	Rod & Reel	
14/9//09	NBH09-FF-A-3	3 Bluefish	Station A S. of Sconticut Neck	NBH Area 3	041º 34.167' 070º 51.110'	Rod & Reel	
15/9//09	NBH09-FF-B-3	3 Bluefish	Station B Near Great Ledge	NBH Area 3	041º 32.433' 070º 53.867'	Rod & Reel	

FIELD COLLECTION FORM 3: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 838 S. RODNEY FRENCH BLVD, NEW BEDFORD, MA 02744
PROJECT #: NBH09 REQUESTED BY/AGENCY: Paul Craffey / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Vin Malkoski SHIPPER: MDMF Vin Malkoski SAMPLE CONDITION: FRESH ____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
26/05/09	NBH09-FF-B-3	5 Black Sea Bass	Station B Negro Ledge	NBH Area 3	041º 32.922' 070º 52.023'	Fish Pots	
26/05/09	NBH09-FF-D-3	5 Black Sea Bass	Station D Radome	NBH Area 3	041º 32.281' 070º 55.292'	Fish Pots	
26/05/09	NBH09-FF-C-3	5 Black Sea Bass	Station C North Ledge	NBH Area 3	041º 34.341' 070º 53.234'	Fish Pots	
26/05/09	NBH09-FF-A-3	5 Black Sea Bass	Station A Great Ledge	NBH Area 3	041º 31.591' 070º 56.110'	Fish Pots	
29/05/09	NBH09-FF-E-3	5 Black Sea Bass	Station E Angelica Rock	NBH Area 3	041º 34.711' 070º 51.498'	Fish Pots	
04/06/09	NBH09-FF-B-2	5 Black Sea Bass	Station B E of Fort Rodman	NBH Area 2	041º 35.596' 070º 53.922'	Fish Pots	
01/06/09	NBH09-FF-D-2	5 Black Sea Bass	Station D Lighthouse	NBH Area 2	041º 36.242' 070º 53.683'	Fish Pots	
18/05/09	NBH09-FF-A-2	5 Black Sea Bass	Station A SMAST Pier	NBH Area 2	041º 35.556' 070º 54.669'	Fish Pots	
04/06/09	NBH09-FF-E-2	5 Black Sea Bass	Station E Egg Island	NBH Area 2	041º 36.523' 070º 53.258'	Fish Pots	
18/05/09	NBH09-FF-C-2	5 Black Sea Bass	Station C W of Opening	NBH Area 2	041º 37.380' 070º 54.430'	Fish Pots	

FIELD COLLECTION FORM 4: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 838 S. RODNEY FRENCH BLVD, NEW BEDFORD, MA 02744

PROJECT #: NBH09 REQUESTED BY/AGENCY: Paul Craffey / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Vin Malkoski SHIPPER: MDMF Vin Malkoski SAMPLE CONDITION: FRESH ____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
26/05/09	NBH09-SF-B-3	5 Channel Whelk	Station B Negro Ledge	NBH Area 3	041º 32.922' 070º 52.023'	Fish Pots	
10/06/09	NBH09-SF-D-3	5 Channel Whelk	Station D Radome	NBH Area 3	041º 32.281' 070º 55.292'	Fish Pots	
10/06/09	NBH09-SF-C-3	5 Channel Whelk	Station C North Ledge	NBH Area 3	041º 34.341' 070º 53.234'	Fish Pots	
10/06/09	NBH09-SF-A-3	5 Channel Whelk	Station A Great Ledge	NBH Area 3	041º 31.591' 070º 56.110'	Fish Pots	
29/05/09	NBH09-SF-E-3	5 Channel Whelk	Station E Angelica Rock	NBH Area 3	041º 34.711' 070º 51.498'	Fish Pots	
18/05/09	NBH09-SF-B-2	5 Channel Whelk	Station B E of Fort Rodman	NBH Area 2	041º 35.596' 070º 53.922'	Fish Pots	
29/05/09	NBH09-SF-D-2	5 Channel Whelk	Station D Lighthouse	NBH Area 2	041º 36.242' 070º 53.683'	Fish Pots	
18/05/09	NBH09-SF-A-2	5 Channel Whelk	Station A SMAST Pier	NBH Area 2	041º 35.556' 070º 54.669'	Fish Pots	
18/05/09	NBH09-SF-E-2	5 Channel Whelk	Station E Egg Island	NBH Area 2	041º 36.523' 070º 53.258'	Fish Pots	
18/05/09	NBH09-SF-C-2	5 Channel Whelk	Station C W of Opening	NBH Area 2	041º 37.380' 070º 54.430'	Fish Pots	

FIELD COLLECTION FORM 5: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 838 S. RODNEY FRENCH BLVD, NEW BEDFORD, MA 02744

PROJECT #: NBH09 REQUESTED BY/AGENCY: Paul Craffey / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Vin Malkoski SHIPPER: MDMF Vin Malkoski SAMPLE CONDITION: FRESH ____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
19/05/09	NBH09-SF-B-2	12 Quahogs (Prespawn)	Station B Rogers Street	NBH Area 2	041º 36.500' 070º 55.820'	Rake	
20/05/09	NBH09-SF-C-2	12 Quahogs(Prespawn)	Station C S of Fredrick St Ramp	NBH Area 2	041º 36.650' 070º 54.345'	Rake	
20/05/09	NBH09-SF-D-2	12 Quahogs (Prespawn)	Station D Egg Island	NBH Area 2	041º 36.422 070º 53.290'	Rake	
18/05/09	NBH09-SF-F-2	12 Quahogs (Prespawn)	Station F Priest's Cove	NBH Area 2	041º 37.700' 070º 52.740'	Rake	
20/05/09	NBH09-SF-G -2	12 Quahogs (Prespawn)	Station G W Rodney Family Area	NBH Area 2	041º 36.205' 070º 54.842'	Rake	
19/05/09	NBH09-SF-H -2	12 Quahogs (Prespawn)	Station H E Rodney Family Area	NBH Area 2	041º 35.790' 070º 54.108'	Rake	
19/05/09	NBH09-SF-B-3	12 Quahogs (Prespawn)	Station B Star of the Sea	NBH Area 3	041º 35.410' 070º 57.524'	Rake	
20/05/09	NBH09-SF-D-3	12 Quahogs (Prespawn)	Station D Nakata Beach	NBH Area 3	041º 35.102' 070º 51.192'	Rake	
19/05/09	NBH09-SF-I-3	12 Quahogs (Prespawn)	Station I Nonquit	NBH Area 3	041º 33.415' 070º 56.128'	Rake	
19/05/09	NBH09-SF-J-3	12 Quahogs (Prespawn)	Station J Salters Point	NBH Area 3	041 32.09' 070 56.56'	Rake	

FIELD COLLECTION FORM 6: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 838 S. RODNEY FRENCH BLVD, NEW BEDFORD, MA 02744
PROJECT #: NBH09 REQUESTED BY/AGENCY: Paul Craffey / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Vin Malkoski SHIPPER: MDMF Vin Malkoski SAMPLE CONDITION: FRESH ____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
8/10/09	NBH09-SF-B-2	12 Quahogs (Postspawn)	Station B Rogers Street	NBH Area 2	041º 36.500' 070º 55.820'	Rake	
8/10/09	NBH09-SF-C-2	12 Quahogs(Postspawn)	Station C S of Fredrick St Ramp	NBH Area 2	041º 36.650' 070º 54.345'	Rake	
2/11/09	NBH09-SF-D-2	12 Quahogs (Postspawn)	Station D Egg Island	NBH Area 2	041º 36.422 070º 53.290'	Rake	
20/10/09	NBH09-SF-F-2	12 Quahogs (Postspawn)	Station F Priest's Cove	NBH Area 2	041º 37.700' 070º 52.740'	Rake	
18/10/09	NBH09-SF-G -2	12 Quahogs (Postspawn)	Station G W Rodney Family Area	NBH Area 2	041º 36.205' 070º 54.842'	Rake	
20/10/09	NBH09-SF-H -2	12 Quahogs (Postspawn)	Station H E Rodney Family Area	NBH Area 2	041º 35.790' 070º 54.108'	Rake	
29/10/09	NBH09-SF-B-3	12 Quahogs (Postspawn)	Station B Star of the Sea	NBH Area 3	041º 35.410' 070º 57.524'	Rake	
20/10/09	NBH09-SF-D-3	12 Quahogs (Postspawn)	Station D Nakata Beach	NBH Area 3	041º 35.102' 070º 51.192'	Rake	
2/10/09	NBH09-SF-I-3	12 Quahogs (Postspawn)	Station I Nonquit	NBH Area 3	041º 33.415' 070º 56.128'	Rake	
2/11/09	NBH09-SF-J-3	12 Quahogs (Postspawn)	Station J Salters Point	NBH Area 3	041 32.09' 070 56.56'	Rake	

FIELD COLLECTION FORM 7: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 838 S. RODNEY FRENCH BLVD, NEW BEDFORD, MA 02744
PROJECT #: NBH09 REQUESTED BY/AGENCY: Paul Craffey / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Vin Malkoski SHIPPER: MDMF Vin Malkoski SAMPLE CONDITION: FRESH ____ FROZEN X

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
29/05/09	NBH09-FF-A-3	5 Scup	Station A Great Ledge	NBH Area 3	041º 31.591' 070º 56.110'	Fish Pots	
29/05/09	NBH09-FF-B-3	5 Scup	Station B Negro Ledge	NBH Area 3	041º 32.922' 070º 52.023'	Fish Pots	
01/06/09	NBH09-FF-C-3	5 Scup	Station C North Ledge	NBH Area 3	041º 34.341' 070º 53.234'	Fish Pots	
29/05/09	NBH09-FF-D-3	5 Scup	Station D Radome	NBH Area 3	041º 32.281' 070º 55.292'	Fish Pots	
29/05/09	NBH09-FF-E-3	5 Scup	Station E Angelica Rock	NBH Area 3	041º 34.711' 070º 51.498'	Fish Pots	
26/05/09	NBH09-FF-A-2	5 Scup	Station A SMAST Pier	NBH Area 2	041º 35.556' 070º 54.669'	Fish Pots	
26/05/09	NBH09-FF-B-2	5 Scup	Station B E of Fort Rodman	NBH Area 2	041º 35.596' 070º 53.922'	Fish Pots	
29/05/09	NBH09-FF-C-2	5 Scup	Station C W of Opening	NBH Area 2	041º 37.380' 070º 54.430'	Fish Pots	
26/05/09	NBH09-FF-D-2	5 Scup	Station D Lighthouse	NBH Area 2	041º 36.242' 070º 53.683'	Fish Pots	
26/05/09	NBH09-FF-E-2	5 Scup	Station E Egg Island Rocks	NBH Area 2	041º 36.523' 070º 53.258'	Fish Pots	