Monitoring Report for Seafood Harvested in 2017 from the New Bedford Harbor Superfund Site

by

Massachusetts Department of Environmental Protection

and

Massachusetts Division of Marine Fisheries

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1. Introduction

This report documents the levels of PCBs (polychlorinated biphenyls) measured in edible seafood species caught in New Bedford Harbor and surrounding Buzzards Bay in southeastern Massachusetts in 2017. This seafood monitoring program is part of the ongoing PCB cleanup program for the New Bedford Harbor (NBH) Superfund Site, and was a collaborative effort involving the MA Department of Marine Fisheries (DMF), the MA Department of Environmental Protection, (MassDEP), and the U.S. Environmental Protection Agency Region I (EPA).

Due to the identification of high PCB levels in area seafood, the MA Department of Public Health in 1979 promulgated regulations restricting seafood consumption in three closure areas in and around NBH as shown on Figure 1 (MADPH, 1979). NBH was subsequently listed as a Superfund site in 1983. Per the 1998 Record of Decision (ROD) (EPA, 1998) for the Site, as modified by six Explanation of Significant Differences (ESDs), approximately 900,000 cubic yards (cy) of PCB-contaminated sediments are to be removed. Based on the 2013 supplemental Consent Decree settlement, the cleanup is estimated to take another five 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, 2017a**)**. In previous sampling rounds, 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. The species collected for 2017 were pre-spawn quahog and conch.

Each composite sample consists of legally harvestable organisms. The quahog composited sample generally consists of 12 to 15 organisms per location. The conch composited sample consists of 11 to 12 organisms per location.

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 risk-based site-specific threshold of 0.02 ppm PCBs. Consistent with CERCLA and the NCP, the selected remedy for the Site (EPA, 1998, Section X) uses a health-based seafood criteria of 0.02 ppm PCBs based on local patterns of seafood consumption which involve more frequent consumption of local PCB-contaminated seafood than that used by the FDA standard.

3. 2017 Field Collection

The DMF on-site field sampling program included the collection of quahog and conch. The Sampling Report for species collected in 2017 by DMF is in Appendix C (MA DMF, 2018).

The quahogs were collected pre-spawn in May (Figure 2) using a rake and diver. The conchs were collected in October (Figure 3) using conch pots.

Complete collection information including the dates collected, 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 Mansfield, MA for analysis.

4. Analytical Chemistry

The seafood samples were analyzed for 148 PCB congeners by GC/MS-SIM (gas chromatography/mass spectrometry-selective ion monitoring) based on EPA Methods 680 and 8270D. In the previous sampling rounds starting in 2003, 136 PCB congeners had been analyzed. The additional twelve PCB congeners did not significantly add to the total concentrations (see Appendix D), thus allowing comparisons with previous site data. The 148 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 Revision 13 **(**MassDEP, 2017c**).** The WHO '98 congeners were included to enable the evaluation of risks to human health due to the presence of any dioxin-like PCB congeners, if deemed necessary.

Tissue from the collected specimens was filleted, sub-sampled and/or composited as necessary for sample homogenization, extraction and analysis. The first step in the analytical process for the quahog samples was the compositing of thirteen individual samples from each location; these were combined to form one composite sample per location. 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 the Kuderna-Danish (K-D) method, brought up to final volume and analyzed. Extract cleanup was performed using Alumina Column Cleanup. Gel Permeation Chromatography (GPC), Sulfuric Acid Cleanup, and/or Silica Gel Cleanup are also employed as appropriate, based on the sample extracts.

Sample analysis using GC/MS-SIM allowed identification and quantitation of congeners 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. 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. Laboratory SOPs are available in the Quality Assurance Project Plan Revision 13 (MassDEP, 2017b) 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 (AMEC, 2018).

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 4 and 5 graphically summarize the current data, and Tables 1 and 2 tabulates the totals and averages of the congener 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 the

twelve 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.

Overall, the current data set indicate continued levels of PCBs in NBH area seafood above the 1998 ROD's site-specific target level of 0.02 ppm. Conch sample location 2C had PCB levels of 2.3 ppm, which is above the FDA level of 2 ppm.

It should be noted that these PCB levels do not apply to seafood caught by the harbor's commercial fishing fleet (except for quahog and conch collected commercially in Areas 2 and 3) 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 seafood sampling program has been on-going since 2002, the previous year's reports can be found at the EPA's web site at www.epa.gov/new-bedford-harbor under "Technical Documents".

6. References

AMEC, 2018. Data Validation Summary, MassDEP, NBH Superfund Site, Seafood Contaminant Survey Monitoring 2017 Sampling, January 9, 2018

EPA, 1998. Record of Decision for the Upper and Lower Harbor Operable Unit, New Bedford Harbor Superfund Site, New Bedford, Massachusetts. U.S. EPA - Region I New England. September 1998.

MADPH, 1979. Massachusetts Department of Public Health Regulations 105 CMR 260.000. 1979

MassDEP, 2017a. Seafood Monitoring and Field Sampling Work Plan, New Bedford Harbor Superfund Site, Massachusetts Department of Environmental Protection. February 2017

MassDEP, 2017b. Quality Assurance Project Plan Revision 13, New Bedford Harbor Superfund Site, New Bedford, Massachusetts. Massachusetts Department of Environmental Protection. November 2017.

MADMF, 2018. Seafood Monitoring - Field Sampling Activities for the New Bedford Harbor Superfund Site 2017 Annual Report, Vin Malkoski, Senior Marine Fisheries Biologist, Massachusetts Division of Marine Fisheries, January 2018

NOAA, 1993. NOAA Technical Memorandum NOA ORCA 71. National Status and Trends Program for Marine Environmental Quality. Sampling and Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects, 1984-1992. Volume 1. Silver Springs, Maryland. July 1993

FIGURES

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Figure 2 Quahog (Pre-spawn) Sample Locations Areas I to III
Figure 3 Conch Sample Locations Areas II and III
Figure 4 PCBs Concentrations in Quahog (Pre-Spawn) Areas I to III
Figure 5 PCBs Concentrations in Conch Areas II and III

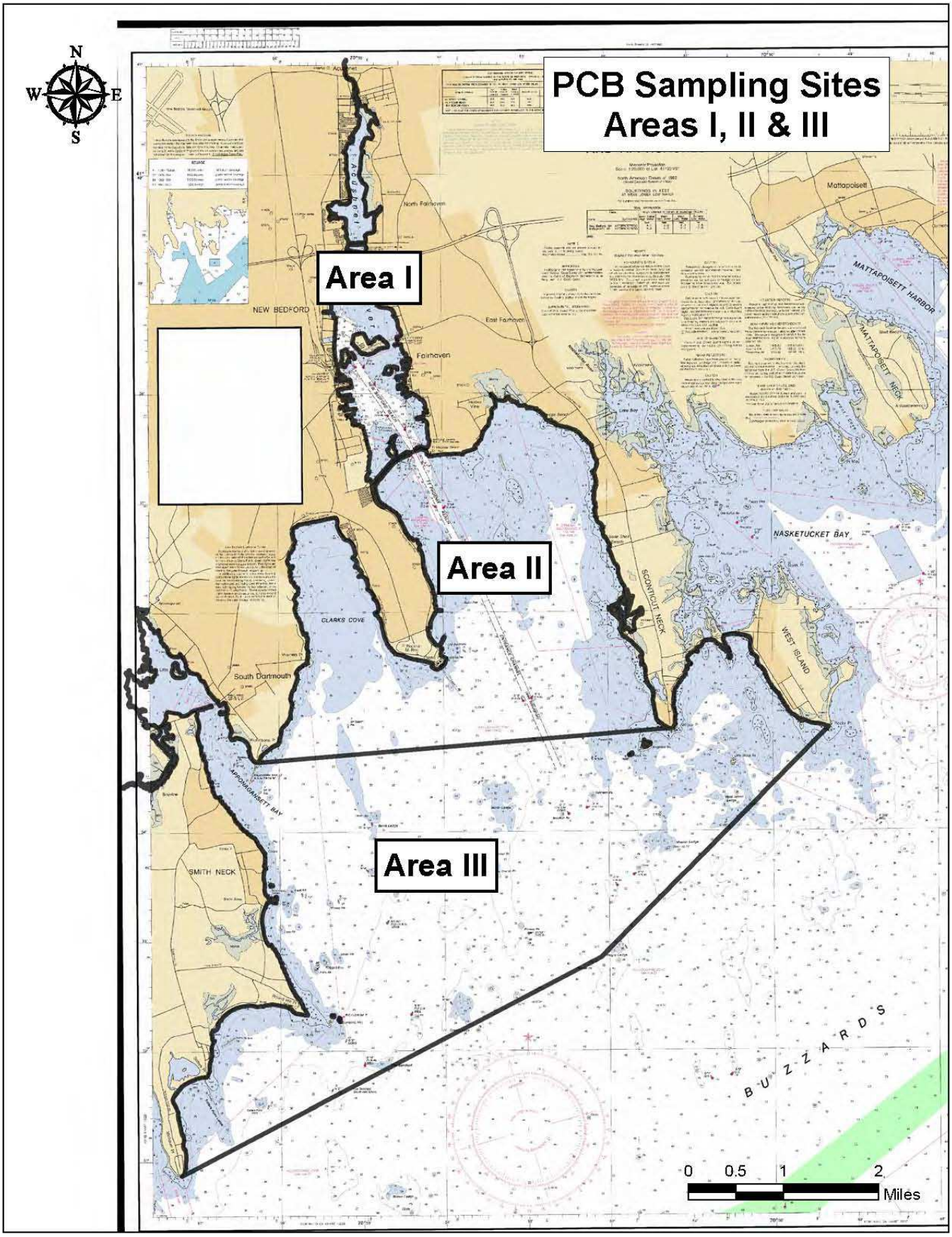


Figure 1 Fish Closure Areas I to III

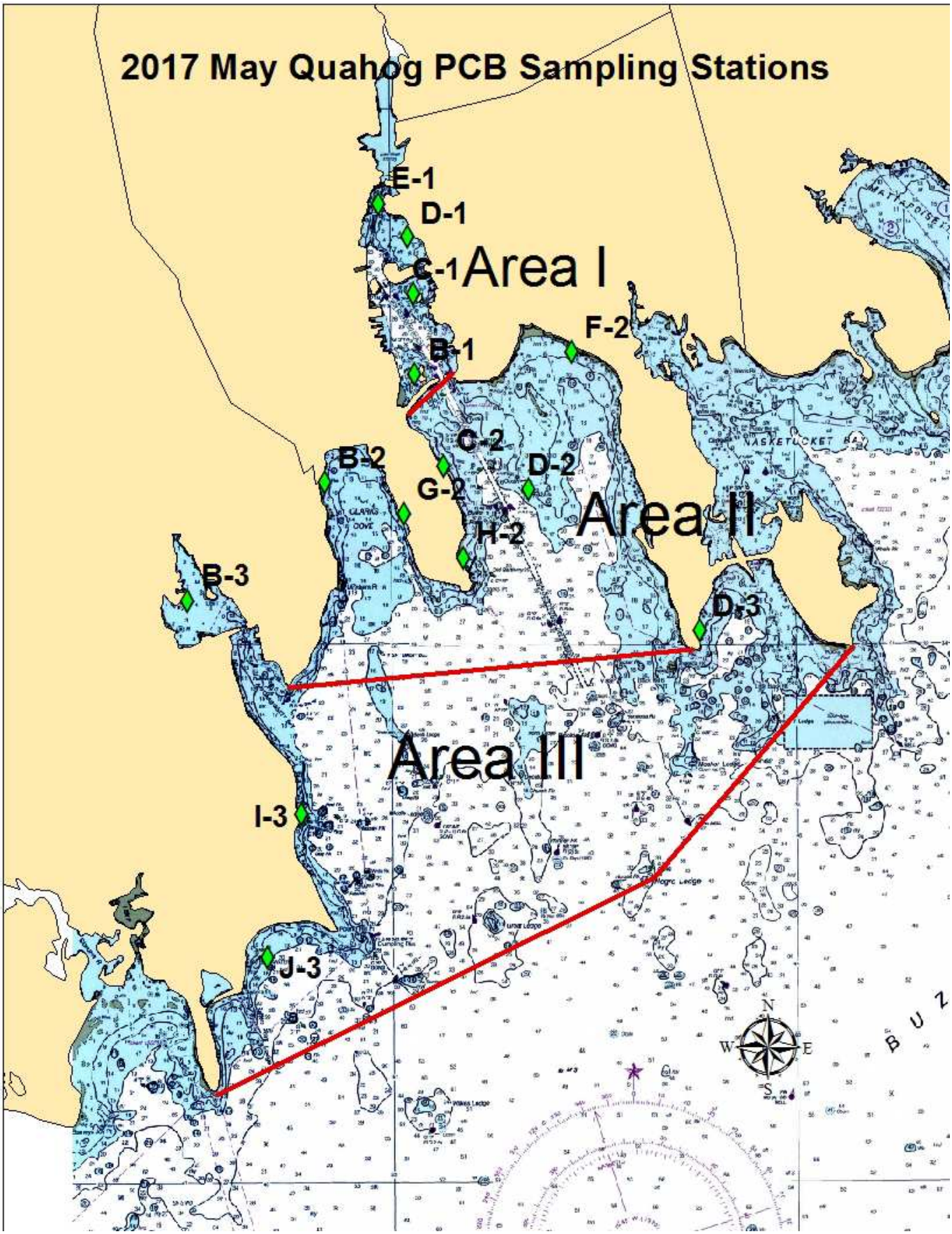


Figure 2 Quahog (Pre-spawn) Sample Locations Areas I to III

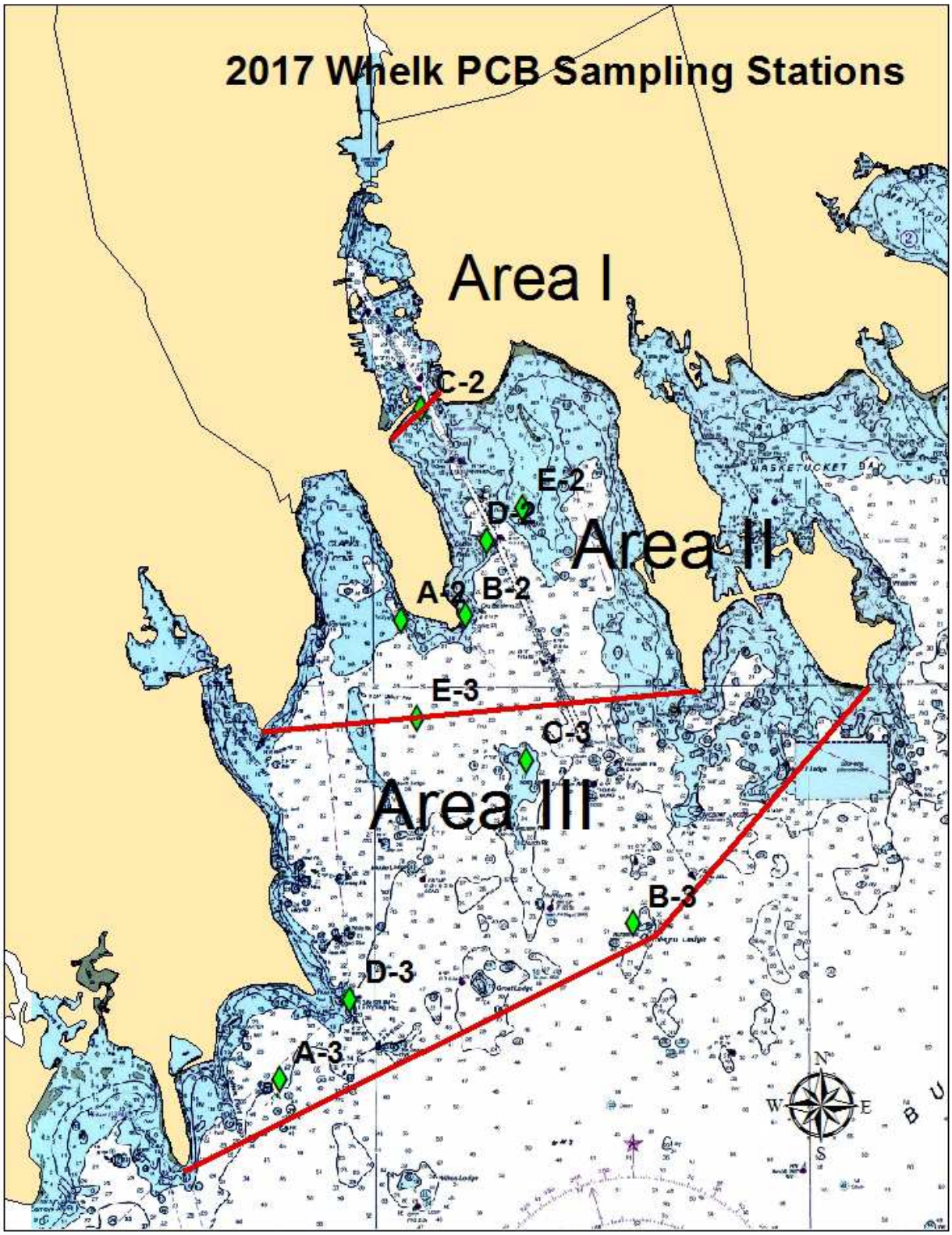
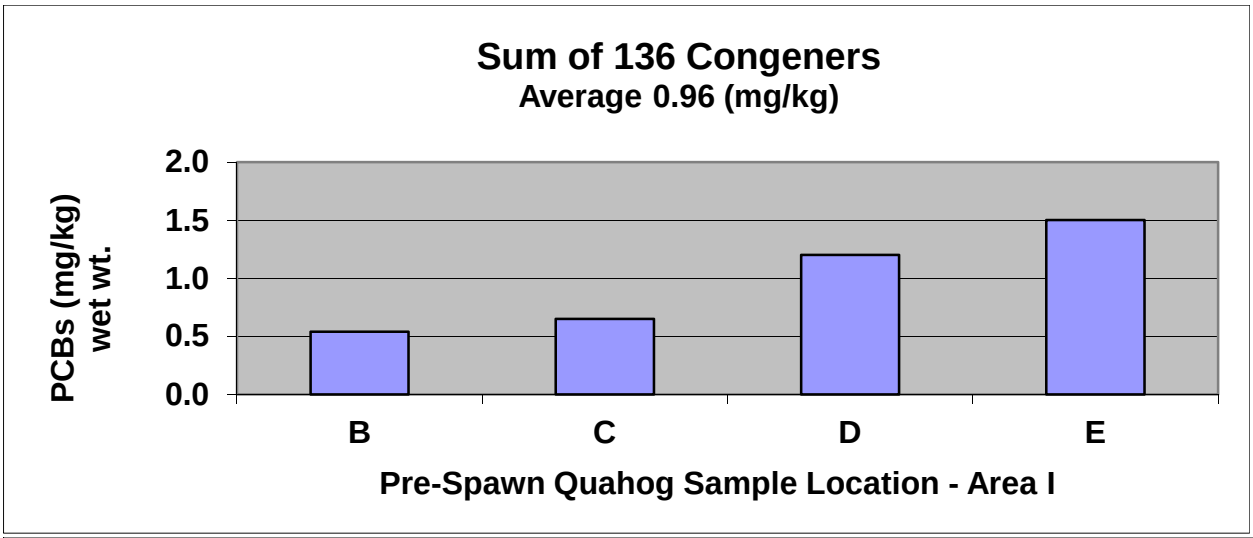
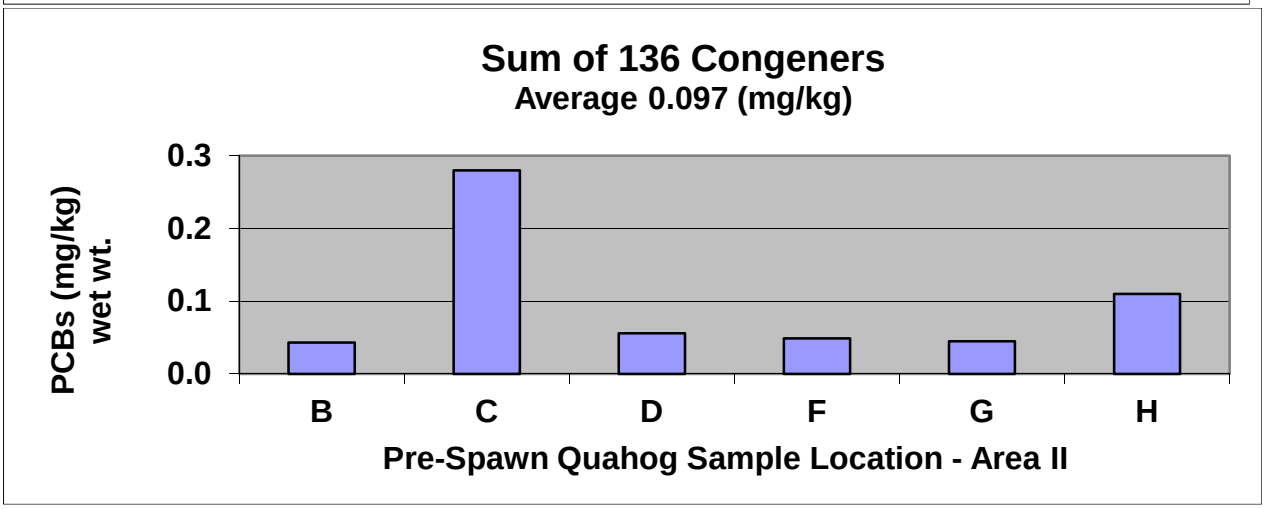


Figure 3 Conch Sample Locations Areas II and III





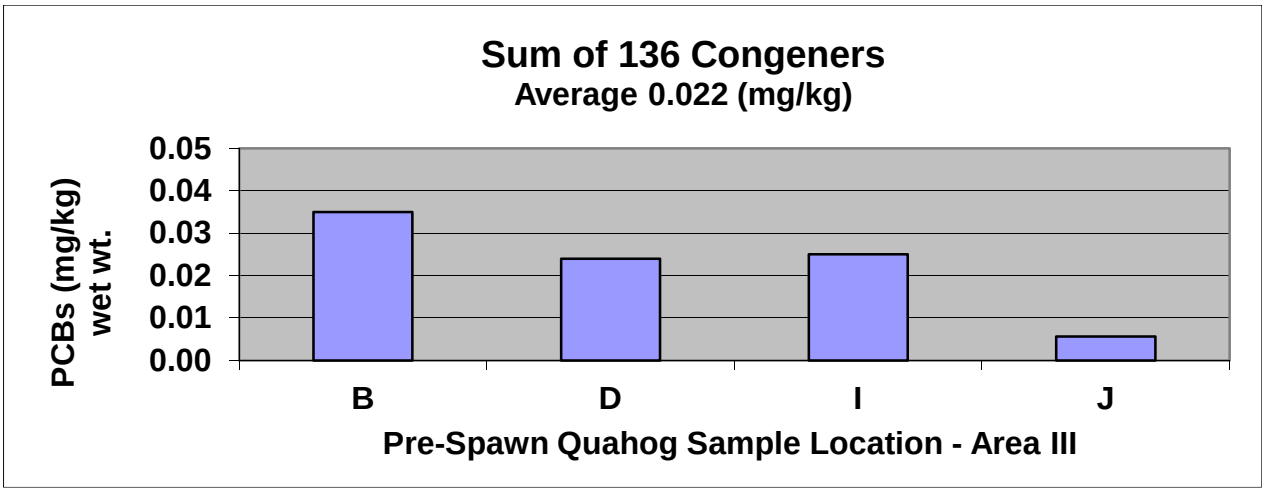


Figure 4 PCBs Concentrations in Pre-Spawn Quahog Areas I to III - 2017

Note: The PCBs concentrations are the detected values as reported on Column 4 of Table 1, and do not included the ½ detection limits.

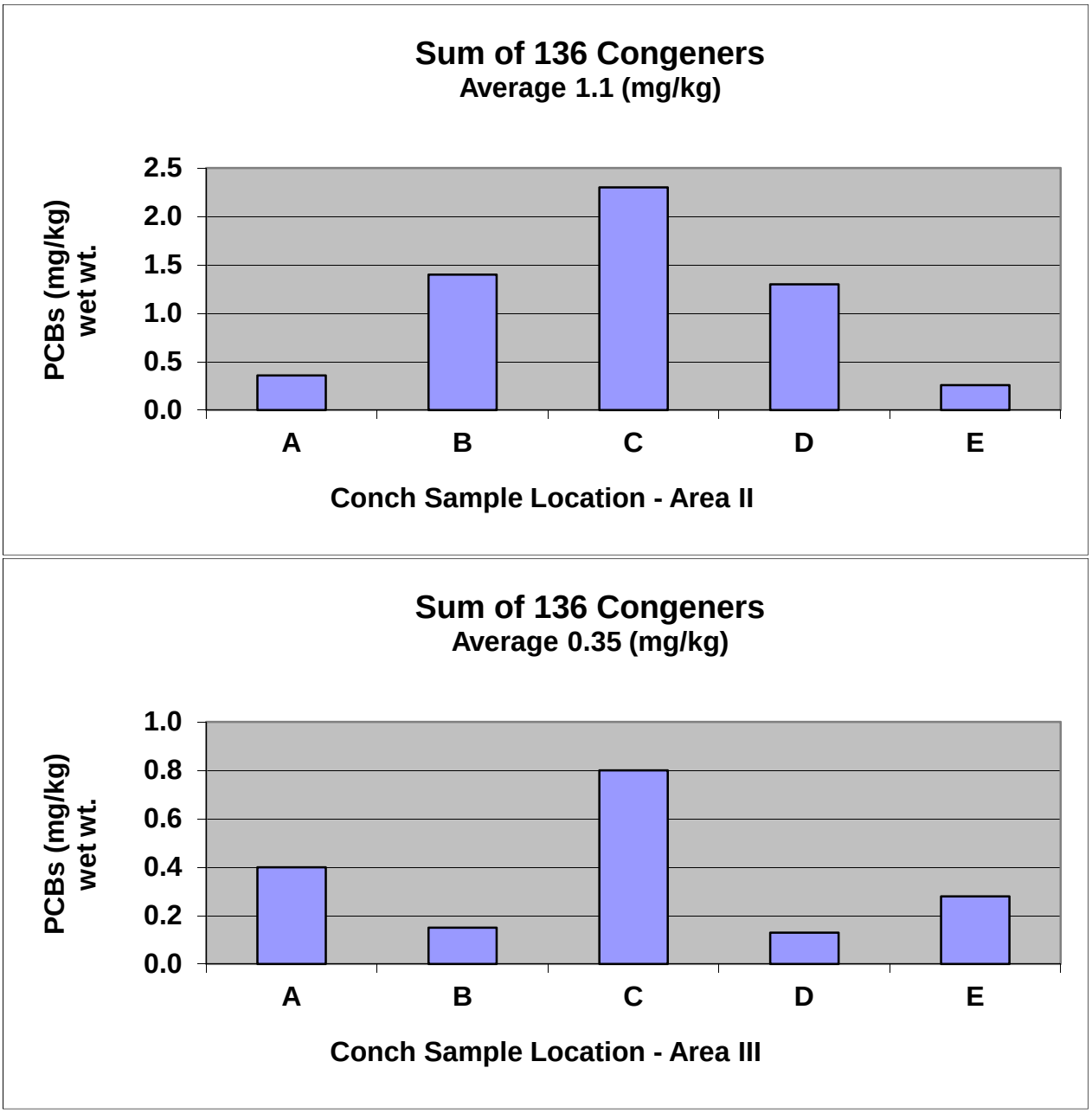


Figure 5 PCBs Concentrations in Conch Areas II and III - 2017

Note: The PCBs concentrations are the detected values as reported on Column 4 of Table 1, and do not included the ½ detection limits.

TABLES

Table 1 Summary of Sample Data for Pre-Spawn Quahog Areas I to III
Table 2 Summary of Sample Data for Conch Areas II and III

Table 1 Summary of Sample Data for Pre-Spawn Quahogs Areas 1, 2, 3 - 2017

Parameter	Lipids	Total PCB Congeners[1]	Total PCB Congeners Hits[2]	Total NOAA Congeners[3]	Total WHO Congeners[4]	Total WHO+NOAA Congeners[5]
	PERCENT	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Station						
1B	0.29	0.55 J3	0.54	0.19 J4	0.029 J3	0.19 J4
1C	0.27	0.65 J3	0.65	0.22 J4	0.037 J3	0.23 J4
1D	0.51	1.2 J4	1.2	0.40 J4	0.069 J3	0.42 J4
1E	0.44	1.5 J4	1.5	0.50 J4	0.072 J4	0.52 J4
Average	0.37	0.97	0.96	0.33	0.052	0.34 J4
2B	0.32	0.058 J2	0.043	0.018 J3	0.0048 J2	0.020 J2
2C	0.40	0.29 J3	0.28	0.10 J4	0.018 J3	0.11 J3
2D	0.27	0.073 J2	0.056	0.022 J3	0.0052 J2	0.024 J3
2F	0.13	0.067 J2	0.049	0.020 J3	0.0048 J2	0.022 J2
2G	0.35	0.061 J2	0.045	0.018 J3	0.0049 J2	0.020 J2
2H	0.29	0.12 J3	0.11	0.040 J3	0.0078 J2	0.043 J3
Average	0.29	0.11	0.097	0.037	0.0075	0.040
3B	0.46	0.054 J2	0.035	0.016 J3	0.0048 J2	0.018 J2
3D	0.26	0.042 J2	0.024	0.011 J3	0.0033 J1	0.013 J2
3I	0.36	0.043 J2	0.025	0.012 J3	0.0036 J2	0.014 J2
3J	0.22	0.032 J1	0.0056	0.0053 J2	0.0028 J1	0.0074 J1
Average	0.32	0.043	0.022	0.011	0.0036	0.013

Table 2 Summary of Sample Data for Conch Areas 2 & 3 - 2017

Parameter	Lipids	Total PCB Congeners[1]	Total PCB Congeners Hits[2]	Total NOAA Congeners[3]	Total WHO Congeners[4]	Total WHO+NOAA Congeners[5]
Units	**PERCENT**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Station						
2A	0.38	0.37 J3	0.36	0.18 J4	0.041 J3	0.19 J4
2B	0.44	1.4 J4	1.4	0.57 J4	0.11 J4	0.61 J4
2C	0.34	2.3 J4	2.3	0.89 J4	0.11 J4	0.92 J4
2D	0.35	1.3 J4	1.3	0.51 J4	0.084 J4	0.53 J4
2E	0.12	0.27 J3	0.26	0.12 J4	0.026 J3	0.13 J3
Average	0.33	1.1	1.1	0.45	0.073	0.48
3A	0.84	0.41 J3	0.40	0.19 J4	0.043 J3	0.21 J4
3B	1.2	0.16 J3	0.15	0.071 J4	0.026 J3	0.082 J3
3C	1.2	0.81 J3	0.80	0.38 J4	0.11 J4	0.42 J4
3D	0.81	0.14 J2	0.13	0.068 J3	0.014 J3	0.074 J3
3E	0.75	0.29 J3	0.28	0.14 J4	0.042 J3	0.16 J4
Average	0.96	0.36	0.35	0.17	0.047	0.19

Appendices

Appendix A	Laboratory Data
Appendix B	Data Validation Summary, MassDEP, NBH Superfund Site, Seafood Contaminant Survey Monitoring 2017 Sampling, January 9, 2018
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Appendix D	PCB Congener Calculation Memo, May 30, 2018

Appendix A

Laboratory Data On-Site

Table 1a Sample Data for Pre-Spawn Quahog Area I
Table 1b Sample Data for Pre-Spawn Quahog Area II
Table 1c Sample Data for Pre-Spawn Quahog Area III
Table 2a Sample Data for Conch Area II
Table 2b Sample Data for Conch Area III

TABLE 1a - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 1 - 2017

Parameter	Units	Sample#	NBH17-SF-B-1	NBH17-SF-C-1	NBH17-SF-D-1	NBH17-SF-E-1
		Species	Quahogs	Quahogs	Quahogs	Quahogs
		Species Type	Meat	Meat	Meat	Meat
		Area	1	1	1	1
		Station	Station B	Station C	Station D	Station E
		Sample Date	5/23/2017	5/23/2017	5/23/2017	5/23/2017
Lipids	PERCENT		0.29	0.27	0.51	0.44
Total PCB Congeners[1]	MG/KG		0.55 J3	0.65 J3	1.2 J4	1.5 J4
Total PCB Congeners Hits[2]	MG/KG		0.54	0.65	1.2	1.5
Total NOAA Congeners[3]	MG/KG		0.19 J4	0.22 J4	0.40 J4	0.50 J4
Total WHO Congeners[4]	MG/KG		0.029 J3	0.037 J3	0.069 J3	0.072 J4
Total NOAA / WHO Combined[5]	MG/KG		0.19 J4	0.23 J4	0.42 J4	0.52 J4
Cl1-BZ#1	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl1-BZ#3	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl2-BZ#4/#10	MG/KG		0.00074 J	0.00084	0.0013	0.0021
Cl2-BZ#5	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl2-BZ#6	MG/KG		0.0013	0.0016	0.0028	0.0049
Cl2-BZ#7	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00021 J
Cl2-BZ#8	MG/KG		0.0014	0.0016	0.0029	0.0048
Cl2-BZ#12	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl2-BZ#13	MG/KG		0.0014	0.0015	0.0027	0.0040
Cl2-BZ#15	MG/KG		0.0015	0.0017	0.0031	0.0039
Cl3-BZ#16	MG/KG		0.00086	0.0011	0.0018	0.0023
Cl3-BZ#17	MG/KG		0.0051	0.0054	0.010	0.015
Cl3-BZ#18	MG/KG		0.011	0.011	0.020	0.029
Cl3-BZ#19	MG/KG		0.00065	0.00066	0.0012	0.0018
Cl3-BZ#21/#20	MG/KG		0.0013	0.0017	0.0028	0.0038
Cl3-BZ#22	MG/KG		0.0033	0.0040	0.0074	0.0091
Cl3-BZ#24	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl3-BZ#25	MG/KG		0.020	0.023	0.039	0.053
Cl3-BZ#26	MG/KG		0.022	0.024	0.045	0.061
Cl3-BZ#27	MG/KG		0.0020	0.0021	0.0036	0.0054
Cl3-BZ#28	MG/KG		0.025	0.031	0.056	0.072
Cl3-BZ#29	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl3-BZ#31	MG/KG		0.028	0.031	0.060	0.078
Cl3-BZ#32	MG/KG		0.0037	0.0040	0.0073	0.011
Cl3-BZ#33	MG/KG		0.0014	0.0013	0.0024	0.0032
Cl3-BZ#37	MG/KG		0.0014	0.0017	0.0033	0.0039
Cl4-BZ#40	MG/KG		0.0014	0.0018	0.0028	0.0037
Cl4-BZ#41	MG/KG		0.00032 J	0.00043	0.00049	0.00056
Cl4-BZ#42	MG/KG		0.0052	0.0065	0.012	0.016
Cl4-BZ#43	MG/KG		0.00043	0.00051	0.00095	0.0011
Cl4-BZ#44	MG/KG		0.012	0.014	0.025	0.033
Cl4-BZ#45	MG/KG		0.0012	0.0013	0.0023	0.0032
Cl4-BZ#47	MG/KG		0.013	0.016	0.030	0.039
Cl4-BZ#48	MG/KG		0.0016	0.0019	0.0032	0.0039
Cl4-BZ#49	MG/KG		0.041	0.047	0.086	0.12
Cl4-BZ#50	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00025 J
Cl4-BZ#51	MG/KG		0.0014	0.0012	0.0026	0.0042
Cl4-BZ#52	MG/KG		0.045	0.051	0.089	0.12
Cl4-BZ#53	MG/KG		0.0048	0.0050	0.0088	0.012
Cl4-BZ#54	MG/KG		0.00039 U	0.00038 U	0.00037 U	0.00021 J
Cl4-BZ#56	MG/KG		0.0038	0.0049	0.0087	0.0098
Cl4-BZ#60	MG/KG		0.0017	0.0023	0.0046	0.0043

TABLE 1a - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 1 - 2017

Parameter	Sample# / Species / Species Type / Area / Station / Sample Date / Units	NBH17-SF-B-1 Quahogs Meat 1 Station B 5/23/2017	NBH17-SF-C-1 Quahogs Meat 1 Station C 5/23/2017	NBH17-SF-D-1 Quahogs Meat 1 Station D 5/23/2017	NBH17-SF-E-1 Quahogs Meat 1 Station E 5/23/2017
Cl4-BZ#63	MG/KG	0.0013	0.0017	0.0029	0.0034
Cl4-BZ#66	MG/KG	0.012	0.015	0.029	0.031
Cl4-BZ#68/#64	MG/KG	0.0098	0.013	0.022	0.029
Cl4-BZ#70	MG/KG	0.0085 J	0.011 J	0.019 J	0.021 J
Cl4-BZ#71	MG/KG	0.0062	0.0071	0.012	0.017
Cl4-BZ#73/#46	MG/KG	0.00082	0.00095	0.0017	0.0024
Cl4-BZ#74	MG/KG	0.0082	0.011	0.020	0.023
Cl4-BZ#76	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00023 J
Cl4-BZ#77	MG/KG	0.00091	0.0011	0.0019	0.0019
Cl4-BZ#81	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl5-BZ#82	MG/KG	0.00098	0.0011	0.0020	0.0018
Cl5-BZ#83/#125/#112	MG/KG	0.0011 J	0.0011 J	0.0026	0.0026
Cl5-BZ#85	MG/KG	0.0023	0.0029	0.0054	0.0051
Cl5-BZ#87/#111	MG/KG	0.0035	0.0040	0.0073	0.0065
Cl5-BZ#89/#84	MG/KG	0.0038	0.0045	0.0079	0.011
Cl5-BZ#91	MG/KG	0.0075	0.0089	0.016	0.024
Cl5-BZ#92	MG/KG	0.0070	0.0086	0.015	0.019
Cl5-BZ#97	MG/KG	0.0066	0.0077	0.015	0.017
Cl5-BZ#99	MG/KG	0.021	0.026	0.047	0.058
Cl5-BZ#100	MG/KG	0.00079	0.00095	0.0018	0.0027
Cl5-BZ#101/#90	MG/KG	0.027	0.033	0.059	0.070
Cl5-BZ#104	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl5-BZ#105	MG/KG	0.0031	0.0040	0.0074	0.0065
Cl5-BZ#107/#123	MG/KG	0.0026	0.0032	0.0055	0.0061
Cl5-BZ#110	MG/KG	0.028	0.035	0.064	0.077
Cl5-BZ#114	MG/KG	0.00060	0.00086	0.0014	0.0018
Cl5-BZ#118	MG/KG	0.018	0.024	0.045	0.048
Cl5-BZ#119	MG/KG	0.0025	0.0031	0.0051	0.0079
Cl5-BZ#121/#95/#88	MG/KG	0.014	0.016	0.028	0.038
Cl5-BZ#124	MG/KG	0.00063	0.00084	0.0014	0.0018
Cl5-BZ#126	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl6-BZ#128	MG/KG	0.0019	0.0021	0.0039	0.0042
Cl6-BZ#129/#158	MG/KG	0.0014	0.0017	0.0031	0.0037
Cl6-BZ#130/#164	MG/KG	0.0024	0.0031	0.0051	0.0057
Cl6-BZ#131	MG/KG	0.00039 U	0.00038 U	0.00032 J	0.00037
Cl6-BZ#132	MG/KG	0.0033	0.0038	0.0067	0.0058
Cl6-BZ#134	MG/KG	0.00082	0.0011	0.0020	0.0025
Cl6-BZ#135	MG/KG	0.0022	0.0028	0.0046	0.0064
Cl6-BZ#136	MG/KG	0.0019	0.0023	0.0040	0.0057
Cl6-BZ#137	MG/KG	0.0011	0.0014	0.0022	0.0026
Cl6-BZ#138	MG/KG	0.0046	0.0061	0.012	0.012
Cl6-BZ#141	MG/KG	0.0013	0.0016	0.0028	0.0029
Cl6-BZ#144	MG/KG	0.00029 J	0.00033 J	0.00054	0.00067
Cl6-BZ#146	MG/KG	0.0040	0.0048	0.0081	0.0098
Cl6-BZ#147/#149	MG/KG	0.015	0.018	0.034	0.043
Cl6-BZ#151	MG/KG	0.0014	0.0015	0.0030	0.0041
Cl6-BZ#153	MG/KG	0.019	0.023	0.041	0.048
Cl6-BZ#154	MG/KG	0.0010	0.0011	0.0019	0.0029
Cl6-BZ#155	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U

TABLE 1a - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 1 - 2017

Parameter	Units	Sample# NBH17-SF-B-1 Species Quahogs Species Type Meat Area 1 Station Station B Sample Date 5/23/2017	Sample# NBH17-SF-C-1 Species Quahogs Species Type Meat Area 1 Station Station C Sample Date 5/23/2017	Sample# NBH17-SF-D-1 Species Quahogs Species Type Meat Area 1 Station Station D Sample Date 5/23/2017	Sample# NBH17-SF-E-1 Species Quahogs Species Type Meat Area 1 Station Station E Sample Date 5/23/2017
Cl6-BZ#156	MG/KG	0.0015	0.0021	0.0036	0.0041
Cl6-BZ#157	MG/KG	0.00068	0.00062	0.0011	0.0011
Cl6-BZ#163/#160	MG/KG	0.0064	0.0080	0.014	0.017
Cl6-BZ#167	MG/KG	0.00096	0.0011	0.0019	0.0022
Cl6-BZ#168	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl6-BZ#169	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl7-BZ#170	MG/KG	0.00083	0.00096	0.0020	0.0028
Cl7-BZ#171	MG/KG	0.00029 J	0.00031 J	0.00049	0.00055
Cl7-BZ#172	MG/KG	0.00033 J	0.00037 J	0.00063	0.00075
Cl7-BZ#173	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl7-BZ#174	MG/KG	0.00085	0.0011	0.0017	0.0019
Cl7-BZ#176	MG/KG	0.00039 U	0.00024 J	0.00026 J	0.00030 J
Cl7-BZ#177	MG/KG	0.00088	0.0011	0.0017	0.0019
Cl7-BZ#178	MG/KG	0.00038 J	0.00039	0.00077	0.00087
Cl7-BZ#180	MG/KG	0.0023	0.0028	0.0051	0.0061
Cl7-BZ#182/#175	MG/KG	0.00077 U	0.00076 U	0.00074 U	0.00070 U
Cl7-BZ#183	MG/KG	0.00053	0.00064	0.0010	0.0014
Cl7-BZ#184	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl7-BZ#185	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl7-BZ#187	MG/KG	0.0024	0.0029	0.0051	0.0067
Cl7-BZ#188	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl7-BZ#189	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00023 J
Cl7-BZ#190	MG/KG	0.00039 U	0.00025 J	0.00044	0.00068
Cl7-BZ#191	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl7-BZ#193	MG/KG	0.00039 U	0.00029 J	0.00038	0.00054
Cl8-BZ#194	MG/KG	0.00039 U	0.00056	0.0010	0.0011
Cl8-BZ#195	MG/KG	0.00039 U	0.00038 U	0.00024 J	0.00028 J
Cl8-BZ#196	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00048
Cl8-BZ#197	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl8-BZ#199	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl8-BZ#201	MG/KG	0.00039 U	0.00059	0.00086	0.00092
Cl8-BZ#202	MG/KG	0.00039 U	0.00019 J	0.00036 J	0.00037
Cl8-BZ#203	MG/KG	0.00039 U	0.00038 U	0.00036 J	0.00052
Cl8-BZ#204/#200	MG/KG	0.00077 U	0.00076 U	0.00074 U	0.00070 U
Cl8-BZ#205	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl9-BZ#206	MG/KG	0.00039 U	0.00038 U	0.00048	0.00047
Cl9-BZ#207	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U
Cl9-BZ#208	MG/KG	0.00039 U	0.00038 U	0.00033 J	0.00045
Cl10-BZ#209	MG/KG	0.00039 U	0.00038 U	0.00037 U	0.00035 U

TABLE 1b - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 2 - 2017

Parameter	Units	Sample#	NBH17-SF-B-2	NBH17-SF-C-2	NBH17-SF-D-2	NBH17-SF-F-2	NBH17-SF-G-2	NBH17-SF-H-2
		Species	Quahogs	Quahogs	Quahogs	Quahogs	Quahogs	Quahogs
		Species Type	Meat	Meat	Meat	Meat	Meat	Meat
		Area	2	2	2	2	2	2
		Station	Station B	Station C	Station D	Station F	Station G	Station H
		Sample Date	5/10/2017	5/11/2017	5/11/2017	5/11/2017	5/10/2017	5/11/2017
Lipids	PERCENT		0.32	0.40	0.27	0.13	0.35	0.29
Total PCB Congeners[1]	MG/KG		0.058 J2	0.29 J3	0.073 J2	0.067 J2	0.061 J2	0.12 J3
Total PCB Congeners Hits[2]	MG/KG		0.043	0.28	0.056	0.049	0.045	0.11
Total NOAA Congeners[3]	MG/KG		0.018 J3	0.10 J4	0.022 J3	0.020 J3	0.018 J3	0.040 J3
Total WHO Congeners[4]	MG/KG		0.0048 J2	0.018 J3	0.0052 J2	0.0048 J2	0.0049 J2	0.0078 J2
Total NOAA / WHO Combined[5]	MG/KG		0.020 J2	0.11 J3	0.024 J3	0.022 J2	0.020 J2	0.043 J3
Cl1-BZ#1	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl1-BZ#3	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl2-BZ#4/#10	MG/KG		0.00069 U	0.00052 J	0.00080 U	0.00076 U	0.00079 U	0.00069 U
Cl2-BZ#5	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl2-BZ#6	MG/KG		0.00035 U	0.00097	0.00040 U	0.00038 U	0.00040 U	0.00031 J
Cl2-BZ#7	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl2-BZ#8	MG/KG		0.00035 U	0.0011	0.00040 U	0.00038 U	0.00040 U	0.00031 J
Cl2-BZ#12	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl2-BZ#13	MG/KG		0.00069 U	0.00066 J	0.00080 U	0.00076 U	0.00079 U	0.00069 U
Cl2-BZ#15	MG/KG		0.00035 U	0.00094	0.00040 U	0.00038 U	0.00040 U	0.00031 J
Cl3-BZ#16	MG/KG		0.00035 U	0.00050	0.00040 U	0.00038 U	0.00040 U	0.00020 J
Cl3-BZ#17	MG/KG		0.00019 J	0.0022	0.00035 J	0.00035 U	0.00026 J	0.00064
Cl3-BZ#18	MG/KG		0.00038	0.0048	0.00068	0.00076	0.00052	0.0015
Cl3-BZ#19	MG/KG		0.00035 U	0.00037 J	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl3-BZ#21/#20	MG/KG		0.00069 U	0.00041 J	0.00080 U	0.00076 U	0.00079 U	0.00069 U
Cl3-BZ#22	MG/KG		0.00021 J	0.0016	0.00028 J	0.00032 J	0.00030 J	0.00061
Cl3-BZ#24	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl3-BZ#25	MG/KG		0.00035 U	0.00039 U	0.0011	0.0015	0.00040 U	0.00035 U
Cl3-BZ#26	MG/KG		0.00083	0.0092	0.0015	0.0016	0.0010	0.0030
Cl3-BZ#27	MG/KG		0.00035 U	0.00092	0.00040 U	0.00038 U	0.00040 U	0.00029 J
Cl3-BZ#28	MG/KG		0.0011	0.012	0.0019	0.0019	0.0013	0.0041
Cl3-BZ#29	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl3-BZ#31	MG/KG		0.0011	0.012	0.0019	0.002	0.0014	0.0041
Cl3-BZ#32	MG/KG		0.00035 U	0.0017	0.00024 J	0.00025 J	0.00020 J	0.00045
Cl3-BZ#33	MG/KG		0.00035 U	0.00099	0.00040 U	0.00038 U	0.00040 U	0.00032 J
Cl3-BZ#37	MG/KG		0.00035 U	0.00088	0.00040 U	0.00038 U	0.00021 J	0.00034 J
Cl4-BZ#40	MG/KG		0.00035 U	0.00080	0.00040 U	0.00021 J	0.00040 U	0.00032 J
Cl4-BZ#41	MG/KG		0.00035 U	0.00028 J	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl4-BZ#42	MG/KG		0.00034 J	0.0027	0.00048	0.00052	0.00042	0.00098
Cl4-BZ#43	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl4-BZ#44	MG/KG		0.00071	0.0063	0.0012	0.0011	0.00089	0.0021
Cl4-BZ#45	MG/KG		0.00035 U	0.00063	0.00040 U	0.00038 U	0.00040 U	0.00018 J
Cl4-BZ#47	MG/KG		0.00077	0.0068	0.0012	0.0011	0.00094	0.0023
Cl4-BZ#48	MG/KG		0.00035 U	0.00080	0.00040 U	0.00038 U	0.00040 U	0.00034 J
Cl4-BZ#49	MG/KG		0.0020	0.020	0.0035	0.0032	0.0021	0.0066
Cl4-BZ#50	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl4-BZ#51	MG/KG		0.00035 U	0.00059	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl4-BZ#52	MG/KG		0.0024	0.024	0.0042	0.0039	0.0025	0.0083
Cl4-BZ#53	MG/KG		0.00030 J	0.0024	0.00035 J	0.00043	0.00032 J	0.00069
Cl4-BZ#54	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl4-BZ#56	MG/KG		0.00035	0.0021	0.00040	0.00036 J	0.00035 J	0.00072

TABLE 1b - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 2 - 2017

Parameter	Units	Sample#	NBH17-SF-B-2	NBH17-SF-C-2	NBH17-SF-D-2	NBH17-SF-F-2	NBH17-SF-G-2	NBH17-SF-H-2
		Species	Quahogs	Quahogs	Quahogs	Quahogs	Quahogs	Quahogs
		Species Type	Meat	Meat	Meat	Meat	Meat	Meat
		Area	2	2	2	2	2	2
		Station	Station B	Station C	Station D	Station F	Station G	Station H
		Sample Date	5/10/2017	5/11/2017	5/11/2017	5/11/2017	5/10/2017	5/11/2017
Cl4-BZ#60	MG/KG		0.00035 U	0.0010	0.00040 U	0.00038 U	0.00040 U	0.00034 J
Cl4-BZ#63	MG/KG		0.00035 U	0.00074	0.00040 U	0.00038 U	0.00040 U	0.00027 J
Cl4-BZ#66	MG/KG		0.0011	0.0069	0.0013	0.0012	0.0013	0.0025
Cl4-BZ#68/#64	MG/KG		0.00054 J	0.0052	0.00095	0.00084	0.00066 J	0.0018
Cl4-BZ#70	MG/KG		0.00075 J	0.0049 J	0.00085 J	0.00086 J	0.00081 J	0.0016 J
Cl4-BZ#71	MG/KG		0.00033 J	0.0032	0.00059	0.00051	0.00041	0.00099
Cl4-BZ#73/#46	MG/KG		0.00069 U	0.00079 U	0.00080 U	0.00076 U	0.00079 U	0.00069 U
Cl4-BZ#74	MG/KG		0.00053	0.0044	0.00070	0.0007	0.00057	0.0015
Cl4-BZ#76	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl4-BZ#77	MG/KG		0.00035 U	0.00045	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl4-BZ#81	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl5-BZ#82	MG/KG		0.00035 U	0.00066	0.00040 U	0.00038 U	0.00026 J	0.00027 J
Cl5-BZ#83/#125/#112	MG/KG		0.0010 U	0.00075 J	0.0012 U	0.0011 U	0.0012 U	0.0010 U
Cl5-BZ#85	MG/KG		0.00038	0.0018	0.00036 J	0.00035 J	0.00037 J	0.00059
Cl5-BZ#87/#111	MG/KG		0.00042 J	0.0022	0.00048 J	0.00076 U	0.00046 J	0.00089
Cl5-BZ#89/#84	MG/KG		0.00042 J	0.0024	0.00042 J	0.00046 J	0.00059 J	0.00099
Cl5-BZ#91	MG/KG		0.00067	0.0038	0.00085	0.00077	0.00061	0.0014
Cl5-BZ#92	MG/KG		0.00078	0.0042	0.0010	0.00091	0.00081	0.0019
Cl5-BZ#97	MG/KG		0.00076	0.0037	0.00083	0.00078	0.00070	0.0015
Cl5-BZ#99	MG/KG		0.0025	0.012	0.0028	0.0025	0.0025	0.0051
Cl5-BZ#100	MG/KG		0.00035 U	0.00042	0.00040 U	0.00038 U	0.00040 U	0.00020 J
Cl5-BZ#101/#90	MG/KG		0.0031	0.015	0.0035	0.0030	0.0029	0.0064
Cl5-BZ#104	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl5-BZ#105	MG/KG		0.00039	0.0019	0.00043	0.00040	0.00039 J	0.00080
Cl5-BZ#107/#123	MG/KG		0.00049 J	0.0016	0.00041 J	0.00039 J	0.00048 J	0.00081
Cl5-BZ#110	MG/KG		0.0028	0.016	0.0036	0.0029	0.0027	0.0069
Cl5-BZ#114	MG/KG		0.00035 U	0.00039 J	0.00040 U	0.00038 U	0.00040 U	0.00024 J
Cl5-BZ#118	MG/KG		0.0022	0.011	0.0024	0.0022	0.0021	0.0042
Cl5-BZ#119	MG/KG		0.00021 J	0.0013	0.00031 J	0.00026 J	0.00030 J	0.00061
Cl5-BZ#121/#95/#88	MG/KG		0.0013	0.0082	0.0018	0.0015	0.0015	0.0031
Cl5-BZ#124	MG/KG		0.00035 U	0.00034 J	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl5-BZ#126	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl6-BZ#128	MG/KG		0.00042	0.0013	0.00041	0.00031 J	0.00037 J	0.00051
Cl6-BZ#129/#158	MG/KG		0.00069 U	0.00082	0.00080 U	0.00076 U	0.00079 U	0.00036 J
Cl6-BZ#130/#164	MG/KG		0.00042 J	0.0017	0.00049 J	0.00076 U	0.00043 J	0.00072
Cl6-BZ#131	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl6-BZ#132	MG/KG		0.00060	0.0022	0.00062	0.00046	0.00051	0.0011
Cl6-BZ#134	MG/KG		0.00018 J	0.00054	0.00040 U	0.00038 U	0.00040 U	0.00025 J
Cl6-BZ#135	MG/KG		0.00039	0.0015	0.00044	0.00034 J	0.00035 J	0.00074
Cl6-BZ#136	MG/KG		0.00027 J	0.0012	0.00026 J	0.00026 J	0.00028 J	0.00041
Cl6-BZ#137	MG/KG		0.00019 J	0.00069	0.00023 J	0.00038 U	0.00022 J	0.00030 J
Cl6-BZ#138	MG/KG		0.0010	0.0037	0.0011	0.00073	0.00085	0.0017
Cl6-BZ#141	MG/KG		0.00035 U	0.00079	0.00040 U	0.00038 U	0.00040 U	0.00030 J
Cl6-BZ#144	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl6-BZ#146	MG/KG		0.00081	0.0027	0.00078	0.00068	0.00065	0.0014
Cl6-BZ#147/#149	MG/KG		0.0020	0.0089	0.0021	0.0017	0.0016	0.0035
Cl6-BZ#151	MG/KG		0.00023 J	0.00083	0.00023 J	0.00020 J	0.00023 J	0.00038
Cl6-BZ#153	MG/KG		0.0033	0.012	0.0031	0.0025	0.0026	0.0055
Cl6-BZ#154	MG/KG		0.00035 U	0.00051	0.00040 U	0.00038 U	0.00022 J	0.00023 J
Cl6-BZ#155	MG/KG		0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U

TABLE 1b - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 2 - 2017

	Sample#	NBH17-SF-B-2	NBH17-SF-C-2	NBH17-SF-D-2	NBH17-SF-F-2	NBH17-SF-G-2	NBH17-SF-H-2
	Species	Quahogs	Quahogs	Quahogs	Quahogs	Quahogs	Quahogs
	Species Type	Meat	Meat	Meat	Meat	Meat	Meat
	Area	2	2	2	2	2	2
	Station	Station B	Station C	Station D	Station F	Station G	Station H
	Sample Date	5/10/2017	5/11/2017	5/11/2017	5/11/2017	5/10/2017	5/11/2017
Parameter	Units						
Cl6-BZ#156	MG/KG	0.00033 J	0.0011	0.00039 J	0.00028 J	0.00034 J	0.00049
Cl6-BZ#157	MG/KG	0.00035 U	0.00038 J	0.00040 U	0.00038 U	0.00040 U	0.00018 J
Cl6-BZ#163/#160	MG/KG	0.0010	0.0042	0.0012	0.00085	0.00093	0.0022
Cl6-BZ#167	MG/KG	0.00035 U	0.00050	0.00040 U	0.00038 U	0.00040 U	0.00021 J
Cl6-BZ#168	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl6-BZ#169	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#170	MG/KG	0.00035 U	0.00072	0.00029 J	0.00038 U	0.00032 J	0.00038
Cl7-BZ#171	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#172	MG/KG	0.00035 U	0.00029 J	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#173	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#174	MG/KG	0.00020 J	0.00071	0.00023 J	0.00038 U	0.00020 J	0.00026 J
Cl7-BZ#176	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#177	MG/KG	0.00026 J	0.00066	0.00028 J	0.00038 U	0.00024 J	0.00038
Cl7-BZ#178	MG/KG	0.00035 U	0.00026 J	0.00040 U	0.00038 U	0.00040 U	0.00019 J
Cl7-BZ#180	MG/KG	0.00042	0.0016	0.00041	0.00026 J	0.00036 J	0.00078
Cl7-BZ#182/#175	MG/KG	0.00069 U	0.00079 U	0.00080 U	0.00076 U	0.00079 U	0.00069 U
Cl7-BZ#183	MG/KG	0.00035 U	0.00040	0.00040 U	0.00038 U	0.00020 J	0.00020 J
Cl7-BZ#184	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#185	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#187	MG/KG	0.00049	0.0016	0.00048	0.00036 J	0.00044	0.00078
Cl7-BZ#188	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#189	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#190	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#191	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl7-BZ#193	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#194	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#195	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#196	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#197	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#199	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#201	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#202	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#203	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl8-BZ#204/#200	MG/KG	0.00069 U	0.00079 U	0.00080 U	0.00076 U	0.00079 U	0.00069 U
Cl8-BZ#205	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl9-BZ#206	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl9-BZ#207	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl9-BZ#208	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00040 U	0.00035 U
Cl10-BZ#209	MG/KG	0.00035 U	0.00039 U	0.00040 U	0.00038 U	0.00041	0.00035 U

TABLE 1c - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 3 - 2017

Parameter	Units	Sample# NBH17-SF-B-3 Species Quahogs Species Type Meat Area 3 Station Station B Sample Date 5/23/2017	Sample# NBH17-SF-D-3 Species Quahogs Species Type Meat Area 3 Station Station D Sample Date 5/11/2017	Sample# NBH17-SF-I-3 Species Quahogs Species Type Meat Area 3 Station Station I Sample Date 5/10/2017	Sample# NBH17-SF-J-3 Species Quahogs Species Type Meat Area 3 Station Station J Sample Date 5/10/2017
Lipids	PERCENT	0.46	0.26	0.36	0.22
Total PCB Congeners[1]	MG/KG	0.054 J2	0.042 J2	0.043 J2	0.032 J1
Total PCB Congeners Hits[2]	MG/KG	0.035	0.024	0.025	0.0056
Total NOAA Congeners[3]	MG/KG	0.016 J3	0.011 J3	0.012 J3	0.0053 J2
Total WHO Congeners[4]	MG/KG	0.0048 J2	0.0033 J1	0.0036 J2	0.0028 J1
Total NOAA / WHO Combined[5]	MG/KG	0.018 J2	0.013 J2	0.014 J2	0.0074 J1
Cl1-BZ#1	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl1-BZ#3	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl2-BZ#4/#10	MG/KG	0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl2-BZ#5	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl2-BZ#6	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl2-BZ#7	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl2-BZ#8	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl2-BZ#12	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl2-BZ#13	MG/KG	0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl2-BZ#15	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#16	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#17	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#18	MG/KG	0.00029 J	0.00025 J	0.00019 J	0.00039 U
Cl3-BZ#19	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#21/#20	MG/KG	0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl3-BZ#22	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#24	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#25	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#26	MG/KG	0.00063	0.00065	0.00040	0.00039 U
Cl3-BZ#27	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#28	MG/KG	0.00083	0.00060	0.00046	0.00024 J
Cl3-BZ#29	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#31	MG/KG	0.00085	0.00092	0.00047	0.00026 J
Cl3-BZ#32	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#33	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl3-BZ#37	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#40	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#41	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#42	MG/KG	0.00036 J	0.00024 J	0.00035 U	0.00039 U
Cl4-BZ#43	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#44	MG/KG	0.00059	0.00045	0.00038	0.00039 U
Cl4-BZ#45	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#47	MG/KG	0.00059	0.00050	0.00042	0.00039 U
Cl4-BZ#48	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#49	MG/KG	0.0014	0.0015	0.0011	0.00040
Cl4-BZ#50	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#51	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#52	MG/KG	0.0020	0.0016	0.0013	0.00050
Cl4-BZ#53	MG/KG	0.00020 J	0.00025 J	0.00021 J	0.00039 U
Cl4-BZ#54	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#56	MG/KG	0.00025 J	0.00021 J	0.00035 U	0.00039 U
Cl4-BZ#60	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U

TABLE 1c - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 3 - 2017

Parameter	Units	Sample#	NBH17-SF-B-3	NBH17-SF-D-3	NBH17-SF-I-3	NBH17-SF-J-3
		Species	Quahogs	Quahogs	Quahogs	Quahogs
		Species Type	Meat	Meat	Meat	Meat
		Area	3	3	3	3
		Station	Station B	Station D	Station I	Station J
		Sample Date	5/23/2017	5/11/2017	5/10/2017	5/10/2017
Cl4-BZ#63	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#66	MG/KG		0.0010	0.00063	0.00064	0.00021 J
Cl4-BZ#68/#64	MG/KG		0.00043 J	0.00041 J	0.00069 U	0.00077 U
Cl4-BZ#70	MG/KG		0.00067 J	0.00048 J	0.00037 J	0.00039 UJ
Cl4-BZ#71	MG/KG		0.00027 J	0.00024 J	0.00019 J	0.00039 U
Cl4-BZ#73/#46	MG/KG		0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl4-BZ#74	MG/KG		0.00046	0.00033 J	0.00025 J	0.00039 U
Cl4-BZ#76	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#77	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl4-BZ#81	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl5-BZ#82	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl5-BZ#83/#125/#112	MG/KG		0.0012 U	0.0011 U	0.0010 U	0.0012 U
Cl5-BZ#85	MG/KG		0.00044	0.00027 J	0.00034 J	0.00039 U
Cl5-BZ#87/#111	MG/KG		0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl5-BZ#89/#84	MG/KG		0.00030 J	0.00026 J	0.00019 J	0.00077 U
Cl5-BZ#91	MG/KG		0.00048	0.00040	0.00038	0.00039 U
Cl5-BZ#92	MG/KG		0.00084	0.00050	0.00063	0.00039 U
Cl5-BZ#97	MG/KG		0.00059	0.00049	0.00044	0.00020 J
Cl5-BZ#99	MG/KG		0.0022	0.0015	0.0017	0.00064
Cl5-BZ#100	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl5-BZ#101/#90	MG/KG		0.0028	0.0019	0.0021	0.00072 J
Cl5-BZ#104	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl5-BZ#105	MG/KG		0.00044	0.00022 J	0.00024 J	0.00039 U
Cl5-BZ#107/#123	MG/KG		0.00048 J	0.00071 U	0.00036 J	0.00077 U
Cl5-BZ#110	MG/KG		0.0023	0.0015	0.0018	0.00053
Cl5-BZ#114	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl5-BZ#118	MG/KG		0.0021	0.0011	0.0014	0.00046
Cl5-BZ#119	MG/KG		0.00022 J	0.00036 U	0.00020 J	0.00039 U
Cl5-BZ#121/#95/#88	MG/KG		0.0011 J	0.00074 J	0.00080 J	0.0012 U
Cl5-BZ#124	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl5-BZ#126	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#128	MG/KG		0.00036 J	0.00023 J	0.00029 J	0.00039 U
Cl6-BZ#129/#158	MG/KG		0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl6-BZ#130/#164	MG/KG		0.00078 U	0.00071 U	0.00035 J	0.00077 U
Cl6-BZ#131	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#132	MG/KG		0.00056	0.00030 J	0.00041	0.00039 U
Cl6-BZ#134	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#135	MG/KG		0.00030 J	0.00019 J	0.00026 J	0.00039 U
Cl6-BZ#136	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#137	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#138	MG/KG		0.0011	0.00057	0.00072	0.00039 U
Cl6-BZ#141	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#144	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#146	MG/KG		0.00074	0.00046	0.00063	0.00021 J
Cl6-BZ#147/#149	MG/KG		0.0015	0.0011	0.0012	0.00042 J
Cl6-BZ#151	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#153	MG/KG		0.0028	0.0018	0.0023	0.00081
Cl6-BZ#154	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#155	MG/KG		0.00039 U	0.00036 U	0.00035 U	0.00039 U

TABLE 1c - SUMMARY OF SAMPLE DATA FOR PRE-SPAWN QUAHOG (MG/KG WET WEIGHT) AREA 3 - 2017

Parameter	Units	Sample# NBH17-SF-B-3 Species Quahogs Species Type Meat Area 3 Station Station B Sample Date 5/23/2017	Sample# NBH17-SF-D-3 Species Quahogs Species Type Meat Area 3 Station Station D Sample Date 5/11/2017	Sample# NBH17-SF-I-3 Species Quahogs Species Type Meat Area 3 Station Station I Sample Date 5/10/2017	Sample# NBH17-SF-J-3 Species Quahogs Species Type Meat Area 3 Station Station J Sample Date 5/10/2017
Cl6-BZ#156	MG/KG	0.00023 J	0.00036 U	0.00023 J	0.00039 U
Cl6-BZ#157	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#163/#160	MG/KG	0.00093	0.00053 J	0.0011	0.00077 U
Cl6-BZ#167	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#168	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl6-BZ#169	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#170	MG/KG	0.00026 J	0.00036 U	0.00028 J	0.00039 U
Cl7-BZ#171	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#172	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#173	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#174	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#176	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#177	MG/KG	0.00030 J	0.00036 U	0.00029 J	0.00039 U
Cl7-BZ#178	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#180	MG/KG	0.00041	0.00024 J	0.00031 J	0.00039 U
Cl7-BZ#182/#175	MG/KG	0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl7-BZ#183	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#184	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#185	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#187	MG/KG	0.00050	0.00027 J	0.00040	0.00039 U
Cl7-BZ#188	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#189	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#190	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#191	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl7-BZ#193	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#194	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#195	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#196	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#197	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#199	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#201	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#202	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#203	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl8-BZ#204/#200	MG/KG	0.00078 U	0.00071 U	0.00069 U	0.00077 U
Cl8-BZ#205	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl9-BZ#206	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl9-BZ#207	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl9-BZ#208	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U
Cl10-BZ#209	MG/KG	0.00039 U	0.00036 U	0.00035 U	0.00039 U

TABLE 2a - SUMMARY OF SAMPLE DATA FOR CONCH (MG/KG WET WEIGHT) AREA 2 - 2017

Parameter	Units	Sample#	NBH17-SF-A-2	NBH17-SF-B-2	NBH17-SF-C-2	NBH17-SF-D-2	NBH17-SF-E-2
		Species	Conch	Conch	Conch	Conch	Conch
		Species Type	Meat	Meat	Meat	Meat	Meat
		Area	2	2	2	2	2
		Station	Station A	Station B	Station C	Station D	Station E
		Sample Date	10/10/2017	10/10/2017	10/13/2017	10/10/2017	10/10/2017
Lipids	PERCENT		0.38	0.44	0.34	0.35	0.12
Total PCB Congeners[1]	MG/KG		0.37 J3	1.4 J4	2.3 J4	1.3 J4	0.27 J3
Total PCB Congeners Hits[2]	MG/KG		0.36	1.4	2.3	1.3	0.26
Total NOAA Congeners[3]	MG/KG		0.18 J4	0.57 J4	0.89 J4	0.51 J4	0.12 J4
Total WHO Congeners[4]	MG/KG		0.041 J3	0.11 J4	0.11 J4	0.084 J4	0.026 J3
Total NOAA / WHO Combined[5]	MG/KG		0.19 J4	0.61 J4	0.92 J4	0.53 J4	0.13 J3
Cl1-BZ#1	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl1-BZ#3	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl2-BZ#4/#10	MG/KG		0.00078 U	0.00038 J	0.0017	0.00092	0.00080 U
Cl2-BZ#5	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl2-BZ#6	MG/KG		0.00031 J	0.0029	0.015	0.0054	0.00052
Cl2-BZ#7	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl2-BZ#8	MG/KG		0.00039 U	0.00026 J	0.0020	0.00094	0.00040 U
Cl2-BZ#12	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl2-BZ#13	MG/KG		0.00078 U	0.00073 U	0.00077 U	0.00071 U	0.00080 U
Cl2-BZ#15	MG/KG		0.00039 U	0.00041	0.00095	0.00036	0.00020 J
Cl3-BZ#16	MG/KG		0.00039 U	0.00058	0.0017	0.00079	0.00040 U
Cl3-BZ#17	MG/KG		0.00039 U	0.00084	0.0085	0.0030	0.00028 J
Cl3-BZ#18	MG/KG		0.00091	0.011	0.049	0.019	0.0014
Cl3-BZ#19	MG/KG		0.00039 U	0.00036 U	0.00079	0.00035 J	0.00040 U
Cl3-BZ#21/#20	MG/KG		0.00078 U	0.0014	0.0040	0.0016	0.00080 U
Cl3-BZ#22	MG/KG		0.00025 J	0.0025	0.0081	0.0031	0.00037 J
Cl3-BZ#24	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl3-BZ#25	MG/KG		0.00024 J	0.0050	0.027	0.0097	0.00063
Cl3-BZ#26	MG/KG		0.0033	0.039	0.12	0.046	0.0031
Cl3-BZ#27	MG/KG		0.00039 U	0.0020	0.0092	0.0036	0.00022 J
Cl3-BZ#28	MG/KG		0.0014	0.025	0.086	0.031	0.0015
Cl3-BZ#29	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl3-BZ#31	MG/KG		0.0045	0.052	0.15	0.060	0.0051
Cl3-BZ#32	MG/KG		0.00039 U	0.0020	0.013	0.0045	0.00026 J
Cl3-BZ#33	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl3-BZ#37	MG/KG		0.00028 J	0.0010	0.0016	0.00081	0.00026 J
Cl4-BZ#40	MG/KG		0.00025 J	0.0017	0.0033	0.0017	0.00025 J
Cl4-BZ#41	MG/KG		0.00039 U	0.00036 U	0.00029 J	0.00036 U	0.00040 U
Cl4-BZ#42	MG/KG		0.00076	0.0075	0.018	0.0084	0.00073
Cl4-BZ#43	MG/KG		0.00039 U	0.00049	0.00092	0.00045	0.00040 U
Cl4-BZ#44	MG/KG		0.0035	0.025	0.050	0.025	0.0032
Cl4-BZ#45	MG/KG		0.00039 U	0.0008	0.0020	0.00097	0.00040 U
Cl4-BZ#47	MG/KG		0.0013	0.019	0.043	0.018	0.00094
Cl4-BZ#48	MG/KG		0.00039 U	0.00056	0.0014	0.00074	0.00040 U
Cl4-BZ#49	MG/KG		0.012	0.10	0.23	0.10	0.011
Cl4-BZ#50	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl4-BZ#51	MG/KG		0.00039 U	0.00088	0.0044	0.0016	0.00040 U
Cl4-BZ#52	MG/KG		0.018	0.12	0.25	0.12	0.013
Cl4-BZ#53	MG/KG		0.00039 U	0.0022	0.010	0.0036	0.00040 U
Cl4-BZ#54	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl4-BZ#56	MG/KG		0.00073	0.0032	0.0055	0.0029	0.00062
Cl4-BZ#60	MG/KG		0.00054	0.0028	0.0042	0.0025	0.00054

TABLE 2a - SUMMARY OF SAMPLE DATA FOR CONCH (MG/KG WET WEIGHT) AREA 2 - 2017

Parameter	Units	Sample#	NBH17-SF-A-2	NBH17-SF-B-2	NBH17-SF-C-2	NBH17-SF-D-2	NBH17-SF-E-2
		Species	Conch	Conch	Conch	Conch	Conch
		Species Type	Meat	Meat	Meat	Meat	Meat
		Area	2	2	2	2	2
		Station	Station A	Station B	Station C	Station D	Station E
		Sample Date	10/10/2017	10/10/2017	10/13/2017	10/10/2017	10/10/2017
Cl4-BZ#63	MG/KG		0.00073	0.0035	0.0040	0.0024	0.00055
Cl4-BZ#66	MG/KG		0.0062	0.020	0.033	0.017	0.0042
Cl4-BZ#68/#64	MG/KG		0.0028	0.020	0.039	0.019	0.0028
Cl4-BZ#70	MG/KG		0.0045	0.015	0.021	0.013	0.0033
Cl4-BZ#71	MG/KG		0.00037 J	0.0065	0.020	0.0089	0.00047
Cl4-BZ#73/#46	MG/KG		0.00078 U	0.00074	0.0023	0.0010	0.00080 U
Cl4-BZ#74	MG/KG		0.0026	0.013	0.023	0.012	0.0020
Cl4-BZ#76	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl4-BZ#77	MG/KG		0.00031 J	0.00038	0.00046	0.00033 J	0.00040 U
Cl4-BZ#81	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl5-BZ#82	MG/KG		0.00039 U	0.0010	0.0014	0.00091	0.00021 J
Cl5-BZ#83/#125/#112	MG/KG		0.0014	0.0057	0.0045	0.0041	0.00099 J
Cl5-BZ#85	MG/KG		0.0036	0.0077	0.010	0.0069	0.0021
Cl5-BZ#87/#111	MG/KG		0.0019	0.0089	0.0084	0.0070	0.0015
Cl5-BZ#89/#84	MG/KG		0.0011	0.0067	0.012	0.0067	0.00087
Cl5-BZ#91	MG/KG		0.0032	0.019	0.038	0.020	0.0030
Cl5-BZ#92	MG/KG		0.0096	0.036	0.030	0.023	0.0056
Cl5-BZ#97	MG/KG		0.0046	0.020	0.032	0.018	0.0038
Cl5-BZ#99	MG/KG		0.021	0.062	0.092	0.047	0.013
Cl5-BZ#100	MG/KG		0.00024 J	0.0019	0.0035	0.0015	0.00040 U
Cl5-BZ#101/#90	MG/KG		0.026	0.098	0.12	0.078	0.021
Cl5-BZ#104	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl5-BZ#105	MG/KG		0.0041	0.013	0.012	0.0098	0.0030
Cl5-BZ#107/#123	MG/KG		0.0049	0.014	0.011	0.0088	0.0032
Cl5-BZ#110	MG/KG		0.016	0.071	0.11	0.064	0.014
Cl5-BZ#114	MG/KG		0.0014	0.0030	0.0034	0.0023	0.00090
Cl5-BZ#118	MG/KG		0.023	0.059	0.064	0.050	0.014
Cl5-BZ#119	MG/KG		0.0016	0.0068	0.012	0.0053	0.00095
Cl5-BZ#121/#95/#88	MG/KG		0.0051	0.030	0.050	0.029	0.0035
Cl5-BZ#124	MG/KG		0.00054	0.0019	0.0020	0.0014	0.00044
Cl5-BZ#126	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl6-BZ#128	MG/KG		0.0062	0.012	0.013	0.0099	0.0036
Cl6-BZ#129/#158	MG/KG		0.0028	0.0078	0.010	0.0070	0.0021
Cl6-BZ#130/#164	MG/KG		0.0027	0.011	0.0086	0.0075	0.0023
Cl6-BZ#131	MG/KG		0.00039 U	0.00040	0.00073	0.00039	0.00040 U
Cl6-BZ#132	MG/KG		0.0021	0.0060	0.0073	0.0056	0.0018
Cl6-BZ#134	MG/KG		0.0014	0.0048	0.0043	0.0034	0.00082
Cl6-BZ#135	MG/KG		0.0020	0.0073	0.0070	0.0056	0.0013
Cl6-BZ#136	MG/KG		0.00040	0.0027	0.0049	0.0029	0.00029 J
Cl6-BZ#137	MG/KG		0.0012	0.0027	0.0037	0.0024	0.00077
Cl6-BZ#138	MG/KG		0.021	0.041	0.047	0.035	0.013
Cl6-BZ#141	MG/KG		0.00096	0.0049	0.0038	0.0036	0.00086
Cl6-BZ#144	MG/KG		0.00022 J	0.00089	0.0010	0.00078	0.00021 J
Cl6-BZ#146	MG/KG		0.011	0.029	0.020	0.019	0.0066
Cl6-BZ#147/#149	MG/KG		0.012	0.045	0.070	0.043	0.011
Cl6-BZ#151	MG/KG		0.0031	0.012	0.0096	0.0082	0.0017
Cl6-BZ#153	MG/KG		0.055	0.11	0.13	0.088	0.033
Cl6-BZ#154	MG/KG		0.00078	0.0031	0.0051	0.0025	0.00068
Cl6-BZ#155	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U

TABLE 2a - SUMMARY OF SAMPLE DATA FOR CONCH (MG/KG WET WEIGHT) AREA 2 - 2017

Parameter	Units	Sample#	NBH17-SF-A-2	NBH17-SF-B-2	NBH17-SF-C-2	NBH17-SF-D-2	NBH17-SF-E-2
		Species	Conch	Conch	Conch	Conch	Conch
		Species Type	Meat	Meat	Meat	Meat	Meat
		Area	2	2	2	2	2
		Station	Station A	Station B	Station C	Station D	Station E
		Sample Date	10/10/2017	10/10/2017	10/13/2017	10/10/2017	10/10/2017
Cl6-BZ#156	MG/KG		0.0032	0.010	0.0074	0.0065	0.0020
Cl6-BZ#157	MG/KG		0.0012	0.0032	0.0021	0.0020	0.00074
Cl6-BZ#163/#160	MG/KG		0.015	0.039	0.027	0.024	0.0084
Cl6-BZ#167	MG/KG		0.0020	0.0052	0.0039	0.0035	0.0011
Cl6-BZ#168	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl6-BZ#169	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl7-BZ#170	MG/KG		0.0031	0.0074	0.0066	0.0054	0.0019
Cl7-BZ#171	MG/KG		0.00077	0.0013	0.0019	0.0013	0.00059
Cl7-BZ#172	MG/KG		0.00057	0.0017	0.0011	0.00095	0.00035 J
Cl7-BZ#173	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl7-BZ#174	MG/KG		0.00053	0.0022	0.0022	0.0018	0.00051
Cl7-BZ#176	MG/KG		0.00039 U	0.00019 J	0.00032 J	0.00024 J	0.00040 U
Cl7-BZ#177	MG/KG		0.0017	0.0040	0.0023	0.0025	0.00090
Cl7-BZ#178	MG/KG		0.0012	0.0031	0.0020	0.0019	0.00068
Cl7-BZ#180	MG/KG		0.0054	0.015	0.012	0.0097	0.0030
Cl7-BZ#182/#175	MG/KG		0.00078 U	0.00073 U	0.00077 U	0.00071 U	0.00080 U
Cl7-BZ#183	MG/KG		0.0018	0.0034	0.0048	0.0032	0.0012
Cl7-BZ#184	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl7-BZ#185	MG/KG		0.00039 U	0.00026 J	0.00021 J	0.00036 U	0.00040 U
Cl7-BZ#187	MG/KG		0.0064	0.016	0.013	0.011	0.0036
Cl7-BZ#188	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl7-BZ#189	MG/KG		0.00051	0.00075	0.00050	0.00053	0.00040 J
Cl7-BZ#190	MG/KG		0.00026 J	0.00087	0.00090	0.00068	0.00021 J
Cl7-BZ#191	MG/KG		0.00039 U	0.00024 J	0.00033 J	0.00020 J	0.00040 U
Cl7-BZ#193	MG/KG		0.00036 J	0.00092	0.00065	0.00058	0.00020 J
Cl8-BZ#194	MG/KG		0.00080	0.0017	0.0013	0.0011	0.00033 J
Cl8-BZ#195	MG/KG		0.00039 U	0.00021 J	0.00030 J	0.00018 J	0.00040 U
Cl8-BZ#196	MG/KG		0.00027 J	0.00049	0.00074	0.00042	0.00040 U
Cl8-BZ#197	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl8-BZ#199	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl8-BZ#201	MG/KG		0.00089	0.0021	0.0016	0.0013	0.00045
Cl8-BZ#202	MG/KG		0.00043	0.00086	0.00070	0.00057	0.00026 J
Cl8-BZ#203	MG/KG		0.00026 J	0.00071	0.00093	0.00055	0.00040 U
Cl8-BZ#204/#200	MG/KG		0.00078 U	0.00073 U	0.00077 U	0.00071 U	0.00080 U
Cl8-BZ#205	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl9-BZ#206	MG/KG		0.00039 U	0.00044	0.00056	0.00040	0.00040 U
Cl9-BZ#207	MG/KG		0.00039 U	0.00036 U	0.00038 U	0.00036 U	0.00040 U
Cl9-BZ#208	MG/KG		0.00039 U	0.00024 J	0.00027 J	0.00023 J	0.00040 U
Cl10-BZ#209	MG/KG		0.00039 U	0.00036 U	0.00021 J	0.00036 U	0.00040 U

TABLE 2b - SUMMARY OF SAMPLE DATA FOR CONCH (MG/KG WET WEIGHT) AREA 3 - 2017

Parameter	Units	Sample#	NBH17-SF-A-3	NBH17-SF-B-3	NBH17-SF-C-3	NBH17-SF-D-3	NBH17-SF-E-3
		Species	Conch	Conch	Conch	Conch	Conch
		Species Type	Meat	Meat	Meat	Meat	Meat
		Area	3	3	3	3	3
		Station	Station A	Station B	Station C	Station D	Station E
		Sample Date	10/13/2017	10/13/2017	10/10/2017	10/13/2017	10/12/2017
Lipids	PERCENT		0.84	1.2	1.2	0.81	0.75
Total PCB Congeners[1]	MG/KG		0.41 J3	0.16 J3	0.81 J3	0.14 J2	0.29 J3
Total PCB Congeners Hits[2]	MG/KG		0.40	0.15	0.80	0.13	0.28
Total NOAA Congeners[3]	MG/KG		0.19 J4	0.071 J4	0.38 J4	0.068 J3	0.14 J4
Total WHO Congeners[4]	MG/KG		0.043 J3	0.026 J3	0.11 J4	0.014 J3	0.042 J3
Total NOAA / WHO Combined[5]	MG/KG		0.21 J4	0.082 J3	0.42 J4	0.074 J3	0.16 J4
Cl1-BZ#1	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl1-BZ#3	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl2-BZ#4/#10	MG/KG		0.00075 U	0.00071 U	0.00077 U	0.00074 U	0.00075 U
Cl2-BZ#5	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl2-BZ#6	MG/KG		0.00038 U	0.00036 U	0.00045	0.00037 U	0.00038 U
Cl2-BZ#7	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl2-BZ#8	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl2-BZ#12	MG/KG		0.00038 U	0.00036 U	0.00020 J	0.00037 U	0.00038 U
Cl2-BZ#13	MG/KG		0.00075 U	0.00071 U	0.00077 U	0.00074 U	0.00075 U
Cl2-BZ#15	MG/KG		0.00038 U	0.00036 U	0.00035 J	0.00037 U	0.00038 U
Cl3-BZ#16	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl3-BZ#17	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl3-BZ#18	MG/KG		0.00073	0.00019 J	0.0014	0.00023 J	0.00052
Cl3-BZ#19	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl3-BZ#21/#20	MG/KG		0.00075 U	0.00071 U	0.00038 J	0.00074 U	0.00075 U
Cl3-BZ#22	MG/KG		0.00028 J	0.00036 U	0.00060	0.00037 U	0.00022 J
Cl3-BZ#24	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl3-BZ#25	MG/KG		0.00038 U	0.00036 U	0.00054	0.00037 U	0.00022 J
Cl3-BZ#26	MG/KG		0.0060	0.00053	0.0068	0.00053	0.0017
Cl3-BZ#27	MG/KG		0.00038 U	0.00036 U	0.00029 J	0.00037 U	0.00038 U
Cl3-BZ#28	MG/KG		0.0023	0.00051	0.0041	0.00033 J	0.0013
Cl3-BZ#29	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl3-BZ#31	MG/KG		0.011	0.0013	0.0084	0.0011	0.0030
Cl3-BZ#32	MG/KG		0.00038 U	0.00036 U	0.00023 J	0.00037 U	0.00038 U
Cl3-BZ#33	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl3-BZ#37	MG/KG		0.00033 J	0.00036 U	0.00072	0.00037 U	0.00034 J
Cl4-BZ#40	MG/KG		0.00038 U	0.00036 U	0.00061	0.00037 U	0.00038 U
Cl4-BZ#41	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl4-BZ#42	MG/KG		0.00087	0.00036 U	0.0015	0.00037 U	0.00048
Cl4-BZ#43	MG/KG		0.00038 U	0.00036 U	0.00025 J	0.00037 U	0.00038 U
Cl4-BZ#44	MG/KG		0.0035	0.00073	0.0082	0.00078	0.0022
Cl4-BZ#45	MG/KG		0.00038 U	0.00036 U	0.00028 J	0.00037 U	0.00038 U
Cl4-BZ#47	MG/KG		0.0018	0.00042	0.0035	0.00030 J	0.0012
Cl4-BZ#48	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl4-BZ#49	MG/KG		0.024	0.0028	0.025	0.0032	0.0066
Cl4-BZ#50	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl4-BZ#51	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl4-BZ#52	MG/KG		0.021	0.0037	0.038	0.0032	0.0092
Cl4-BZ#53	MG/KG		0.00038 U	0.00036 U	0.00021 J	0.00037 U	0.00038 U
Cl4-BZ#54	MG/KG		0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl4-BZ#56	MG/KG		0.00051	0.00025 J	0.0014	0.00020 J	0.00053
Cl4-BZ#60	MG/KG		0.0011	0.00024 J	0.0013	0.00037 U	0.00051

TABLE 2b - SUMMARY OF SAMPLE DATA FOR CONCH (MG/KG WET WEIGHT) AREA 3 - 2017

Parameter	Units	NBH17-SF-A-3	NBH17-SF-B-3	NBH17-SF-C-3	NBH17-SF-D-3	NBH17-SF-E-3
Sample#		NBH17-SF-A-3	NBH17-SF-B-3	NBH17-SF-C-3	NBH17-SF-D-3	NBH17-SF-E-3
Species		Conch	Conch	Conch	Conch	Conch
Species Type		Meat	Meat	Meat	Meat	Meat
Area		3	3	3	3	3
Station		Station A	Station B	Station C	Station D	Station E
Sample Date		10/13/2017	10/13/2017	10/10/2017	10/13/2017	10/12/2017
Cl4-BZ#63	MG/KG	0.00089	0.00036	0.0020	0.00023 J	0.00067
Cl4-BZ#66	MG/KG	0.0077	0.0018	0.012	0.0018	0.0045
Cl4-BZ#68/#64	MG/KG	0.0046	0.00084	0.0063	0.00077	0.0018
Cl4-BZ#70	MG/KG	0.0035	0.0021	0.011	0.0012	0.0038
Cl4-BZ#71	MG/KG	0.00040	0.00036 U	0.00064	0.00037 U	0.00022 J
Cl4-BZ#73/#46	MG/KG	0.00075 U	0.00071 U	0.00077 U	0.00074 U	0.00075 U
Cl4-BZ#74	MG/KG	0.0040	0.00093	0.0060	0.00066	0.0023
Cl4-BZ#76	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl4-BZ#77	MG/KG	0.00028 J	0.00036 U	0.00075	0.00037 U	0.00047
Cl4-BZ#81	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl5-BZ#82	MG/KG	0.00038 U	0.00036 U	0.00033 J	0.00037 U	0.00038 U
Cl5-BZ#83/#125/#112	MG/KG	0.00085 J	0.00062 J	0.0043	0.0011 U	0.0012
Cl5-BZ#85	MG/KG	0.0032	0.00094	0.0060	0.0013	0.0025
Cl5-BZ#87/#111	MG/KG	0.0016	0.00064 J	0.0039	0.00063 J	0.0013
Cl5-BZ#89/#84	MG/KG	0.0009	0.00024 J	0.0026	0.00028 J	0.00073 J
Cl5-BZ#91	MG/KG	0.0045	0.00078	0.0070	0.00096	0.0022
Cl5-BZ#92	MG/KG	0.0060	0.0040	0.029	0.0021	0.0064
Cl5-BZ#97	MG/KG	0.0037	0.0011	0.0082	0.0012	0.0034
Cl5-BZ#99	MG/KG	0.023	0.0057	0.038	0.0070	0.013
Cl5-BZ#100	MG/KG	0.0004	0.00036 U	0.00043	0.00037 U	0.00019 J
Cl5-BZ#101/#90	MG/KG	0.023	0.0091	0.056	0.0084	0.020
Cl5-BZ#104	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl5-BZ#105	MG/KG	0.0047	0.0020	0.010	0.0015	0.0037
Cl5-BZ#107/#123	MG/KG	0.0053	0.0039	0.014	0.0020	0.0052
Cl5-BZ#110	MG/KG	0.015	0.0030	0.027	0.0045	0.010
Cl5-BZ#114	MG/KG	0.0016	0.00059	0.0024	0.00066	0.0011
Cl5-BZ#118	MG/KG	0.023	0.012	0.065	0.0064	0.025
Cl5-BZ#119	MG/KG	0.0025	0.00038	0.0031	0.00059	0.00094
Cl5-BZ#121/#95/#88	MG/KG	0.0047	0.0013	0.012	0.0011	0.0033
Cl5-BZ#124	MG/KG	0.00050	0.00042	0.0017	0.00037 U	0.00052
Cl5-BZ#126	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl6-BZ#128	MG/KG	0.0058	0.0021	0.011	0.0025	0.0047
Cl6-BZ#129/#158	MG/KG	0.0031	0.00061 J	0.0061	0.0011	0.0021
Cl6-BZ#130/#164	MG/KG	0.0026	0.0017	0.0070	0.0011	0.0025
Cl6-BZ#131	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl6-BZ#132	MG/KG	0.0012	0.00052	0.0032	0.00069	0.0015
Cl6-BZ#134	MG/KG	0.0010	0.00079	0.0042	0.00036 J	0.0011
Cl6-BZ#135	MG/KG	0.0017	0.0012	0.0069	0.00053	0.0018
Cl6-BZ#136	MG/KG	0.00045	0.00036 U	0.0010	0.00037 U	0.00038
Cl6-BZ#137	MG/KG	0.0014	0.00029 J	0.0023	0.00052	0.00093
Cl6-BZ#138	MG/KG	0.022	0.0066	0.039	0.0097	0.016
Cl6-BZ#141	MG/KG	0.00088	0.00055	0.0026	0.00040	0.00080
Cl6-BZ#144	MG/KG	0.00021 J	0.00036 U	0.00052	0.00037 U	0.00021 J
Cl6-BZ#146	MG/KG	0.012	0.0083	0.029	0.0048	0.011
Cl6-BZ#147/#149	MG/KG	0.013	0.0037	0.024	0.0047	0.011
Cl6-BZ#151	MG/KG	0.0026	0.0019	0.010	0.00087	0.0025
Cl6-BZ#153	MG/KG	0.059	0.020	0.11	0.025	0.044
Cl6-BZ#154	MG/KG	0.0015	0.00026 J	0.0014	0.00044	0.00072
Cl6-BZ#155	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U

TABLE 2b - SUMMARY OF SAMPLE DATA FOR CONCH (MG/KG WET WEIGHT) AREA 3 - 2017

Parameter	Units	NBH17-SF-A-3	NBH17-SF-B-3	NBH17-SF-C-3	NBH17-SF-D-3	NBH17-SF-E-3
Sample#		NBH17-SF-A-3	NBH17-SF-B-3	NBH17-SF-C-3	NBH17-SF-D-3	NBH17-SF-E-3
Species		Conch	Conch	Conch	Conch	Conch
Species Type		Meat	Meat	Meat	Meat	Meat
Area		3	3	3	3	3
Station		Station A	Station B	Station C	Station D	Station E
Sample Date		10/13/2017	10/13/2017	10/10/2017	10/13/2017	10/12/2017
Cl6-BZ#156	MG/KG	0.0036	0.0020	0.0085	0.0013	0.0025
Cl6-BZ#157	MG/KG	0.0014	0.0010	0.0029	0.00054	0.00098
Cl6-BZ#163/#160	MG/KG	0.014	0.011	0.039	0.0057	0.012
Cl6-BZ#167	MG/KG	0.0023	0.0015	0.0053	0.00068	0.0018
Cl6-BZ#168	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl6-BZ#169	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl7-BZ#170	MG/KG	0.0034	0.0023	0.0063	0.0017	0.0024
Cl7-BZ#171	MG/KG	0.00087	0.00035 J	0.0014	0.00042	0.00056
Cl7-BZ#172	MG/KG	0.00056	0.00050	0.0012	0.00033 J	0.00040
Cl7-BZ#173	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl7-BZ#174	MG/KG	0.00059	0.00032 J	0.0010	0.00028 J	0.00059
Cl7-BZ#176	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl7-BZ#177	MG/KG	0.0016	0.0016	0.0040	0.00071	0.0013
Cl7-BZ#178	MG/KG	0.0013	0.0012	0.0030	0.00055	0.00094
Cl7-BZ#180	MG/KG	0.0059	0.0035	0.011	0.0024	0.0038
Cl7-BZ#182/#175	MG/KG	0.00075 U	0.00071 U	0.00077 U	0.00074 U	0.00075 U
Cl7-BZ#183	MG/KG	0.0020	0.00063	0.0033	0.00091	0.0014
Cl7-BZ#184	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl7-BZ#185	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl7-BZ#187	MG/KG	0.0074	0.0056	0.016	0.0030	0.0054
Cl7-BZ#188	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl7-BZ#189	MG/KG	0.00082	0.0015	0.0015	0.00059	0.00067
Cl7-BZ#190	MG/KG	0.00034 J	0.00036 U	0.00046	0.00037 U	0.00022 J
Cl7-BZ#191	MG/KG	0.00038 U	0.00036 U	0.00028 J	0.00037 U	0.00038 U
Cl7-BZ#193	MG/KG	0.00039	0.00041	0.00083	0.00037 U	0.00029 J
Cl8-BZ#194	MG/KG	0.00087	0.00084	0.0013	0.00034 J	0.00045
Cl8-BZ#195	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl8-BZ#196	MG/KG	0.00029 J	0.00036 U	0.00045	0.00037 U	0.00038 U
Cl8-BZ#197	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl8-BZ#199	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl8-BZ#201	MG/KG	0.0013	0.0012	0.0017	0.00048	0.00061
Cl8-BZ#202	MG/KG	0.00061	0.00059	0.00091	0.00022 J	0.00037 J
Cl8-BZ#203	MG/KG	0.00035 J	0.00020 J	0.00053	0.00037 U	0.00021 J
Cl8-BZ#204/#200	MG/KG	0.00075 U	0.00071 U	0.00077 U	0.00074 U	0.00075 U
Cl8-BZ#205	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl9-BZ#206	MG/KG	0.00023 J	0.00019 J	0.00022 J	0.00037 U	0.00038 U
Cl9-BZ#207	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U
Cl9-BZ#208	MG/KG	0.00020 J	0.00021 J	0.00038 U	0.00037 U	0.00038 U
Cl10-BZ#209	MG/KG	0.00038 U	0.00036 U	0.00038 U	0.00037 U	0.00038 U

Notes for 2017 Appendix Tables:

[1] = summation of 148 PCB congener results (1/2 sample quantitation limit [SQL] used for non-detected results)
[2] = summation of detected 148 PCB congeners
[3] = summation of 18 NOAA PCB congener results (1/2 sample quantitation limit [SQL] used for non-detected results)
[4] = summation of 12 WHO PCB congener results (1/2 sample quantitation limit [SQL] used for non-detected results)

U = not detected (ND); value represents SQL
J = estimated value
J1 = concentration of detected congeners contributes < 50% of total congener result
J2 = concentration of detected congeners contributes > 50% of total congener result
J3 = concentration of detected congeners contributes > 90% of total congener result
J4 = concentration of detected congeners contributes > 99% of total congener result
mg/kg = milligrams per kilogram (wet weight)

The PCB Congener list reported by the laboratory in 2017 included the 136 project-specified congeners plus an additional 12 congeners that coelute with the project-specific congeners due to updated instrumentation and calibration standards.

Prepared by: BJS 1/8/2018
Checked by: JAR 1/9/2018

Appendix B

Data Validation Summary
Massachusetts Department of Environmental Protection
New Bedford Harbor Seafood Contaminant Survey Monitoring
2017 Sampling
January 9, 2018

Data Validation Summary
Massachusetts Department of Environmental Protection
New Bedford Harbor Superfund Site
Seafood Contaminant Survey Monitoring 2017 Sampling
New Bedford, Massachusetts

INTRODUCTION

Fourteen pre-spawn quahog tissue samples and ten conch tissue samples were collected as part of the New Bedford Harbor Superfund Site's Seafood Contaminant Survey Monitoring. Samples were collected in May and October 2017. All samples were collected by the Massachusetts Department of Marine Fisheries (MADMF). Samples were submitted to Alpha Analytical Laboratory located in Mansfield, Massachusetts, for processing and analysis. Tissue samples were analyzed for percent lipids and polychlorinated biphenyls (PCBs) by gas chromatography/mass spectrometry (GC/MS) Selected Ion Monitoring (SIM).

Tissue samples were analyzed in Sample Delivery Groups (SDGs): L1735979 (quahogs – pre-spawn) and L1738409 (conch). The data packages were validated using Region I EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses (USEPA, 1996), Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses (USEPA, 2004), Alpha Analytical Laboratory Standard Operating Procedure (SOP) 2162 (Alpha, 2017), and the Quality Assurance Project Plan, Seafood Contaminant Survey, New Bedford Harbor Superfund Site, Revision 13.0 (MADEP, 2017). As specified in the QAPP, Tier I+ data validation is performed on 95 percent of the samples, and Tier II data validation is performed on 5 percent of the samples. For the 2017 sampling event, Tier II validation was performed on quahog samples NBH17-SF-C-1 and NBH17-SF-D-1. Because these samples were analyzed in the same analytical sequence with additional samples, a Tier II validation was also performed for quahog samples NBH17-SF-E-1, NBH17-SF-B-2, NBH17-SF-C-2, NBH17-SF-D-2 and NBH17-SF-F-2.

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

* Collection and Preservation
* Holding Times
* Data Completeness
* Initial Calibration (for Tier I+ only if problems noted in case narrative)
* Continuing Calibration (for Tier I+ only if problems noted in case narrative or as noted above)
* Blanks
* Surrogate Standards
  Standard Reference Material (SRM)
* Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)
* Matrix Spike/Matrix Spike Duplicates (MS/MSD)
* Laboratory Duplicates
* Internal Standards (for Tier I+ only if problems noted in case narrative)
* Target Compound Quantitation (for Tier I+ only if problems noted in case narrative)
  Miscellaneous

* - all criteria were met for this parameter

For Tier II data validation, the above checks were completed along with evaluations of initial calibrations, continuing calibrations, instrument tuning, and internal standards using summary forms provided in the data package.

DATA VALIDATION SUMMARY

In general, laboratory performance is considered acceptable and all results are usable. The following qualifying statements have been applied to the 2017 data.

SRM

PCB (L1735979) – The SRM associated with all samples had a percent recovery less than the 40-140 control limits for congener BZ 70, indicating potential low bias. Positive and non-detected results for BZ 70 in all quahog samples were qualified estimated (J/UJ) and may represent potential low biases.

Miscellaneous

SDG L1735979 – Three samples were logged into the laboratory with an incorrect sample collection date of 5/23/17:

Sample ID	Collection Date
NBH17-SF-D-3	5/11/17
NBH17-SF-I-3	5/1017
NBH17-SF-J-3	5/10/17

The sampling dates were corrected during data validation.

PCB (L1735979, L1738409) – The PCB Congener list reported by the laboratory in 2017 included the 136 project-specified congeners plus an additional 12 congeners that coelute with the project-specific congeners due to updated instrumentation and calibration standards.

Reference:

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

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

Alpha Analytical, Inc., 2017. “Determination of PCB Homologs and 209 Individual Congeners by GC/MS-SIM,” Alpha Analytical, Inc.; November, 2017.

MADEP, 2017. “Quality Assurance Project Plan, Seafood Contaminant Survey, New Bedford Harbor Superfund Site, Revision 13.0”, Massachusetts Department of Environmental Protection; November, 2017.

Data Validator: Julie Ricardi

Signature: _____ Date: January 9, 2018

Reviewed by: Bradley B. LaForest, NRCC-EAC

Signature: _____ Date: January 9, 2018

Appendix C

Seafood Monitoring - Field Sampling Activities
for
the New Bedford Harbor Superfund Site
2017 Annual Report
January 2018

Seafood Monitoring - Field Sampling Activities for the New Bedford Harbor Superfund Site
2017 Annual Report

Vin Malkoski, Senior Marine Fisheries Biologist
Massachusetts Division of Marine Fisheries
January 2018

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 2017 in accordance with the Seafood Monitoring and Field Sampling Work Plan and makes recommendations for the upcoming 2018 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 3). During the 2017 collection season, the only species collected from Area 1 was quahog.

2017 Field Collections

Attachment 2 – Collection Sheets 1 & 2 contain data on the harvest dates, collection identification information, species, station identification information, location by latitude and longitude, and collection method.

Channeled whelk (*Busycon canaliculatum)* and knobbed whelk *(Busycon carica)*
We collected channeled and knobbed whelk from all ten stations in Areas 2 and 3 during October using conch pots.

Quahog (*Mercenaria mercenaria*)
Marine Fisheries collected pre-spawn quahog samples from fourteen stations in Areas 1, 2, and 3 during May by rake and diver. We harvested a minimum of 12 quahogs per station in order to provide sufficient sample sizes for the Work Plan. We could not find any quahogs at Station SF A-1 (West of the Barrier Opening) in Area 1. There has been no recovery of the habitat or resource at this station following dredging and construction in support of the maritime terminal.

Planning for 2018 Field Collections

The 2018 collection requirements are not yet been established.

ATTACHMENT 1
DMF HARVEST SITE MAPS

Figure 1 PCB Sample Areas 1, 2, & 3
Figure 2 Quahog (Pre-spawn May), Areas 1, 2, & 3
Figure 3 Whelk, Areas 2, & 3

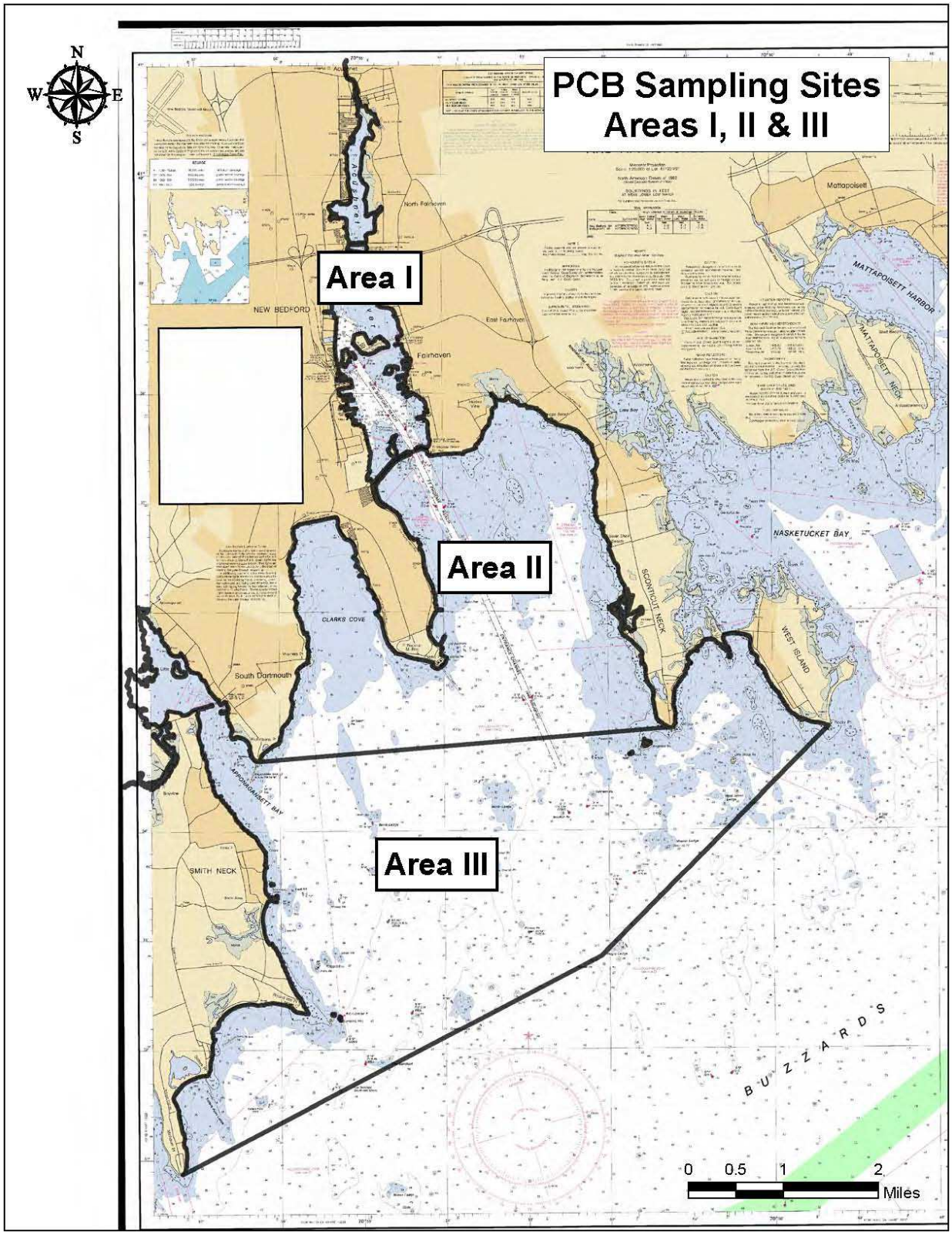

Figure 1 PCB Sample Areas I to III

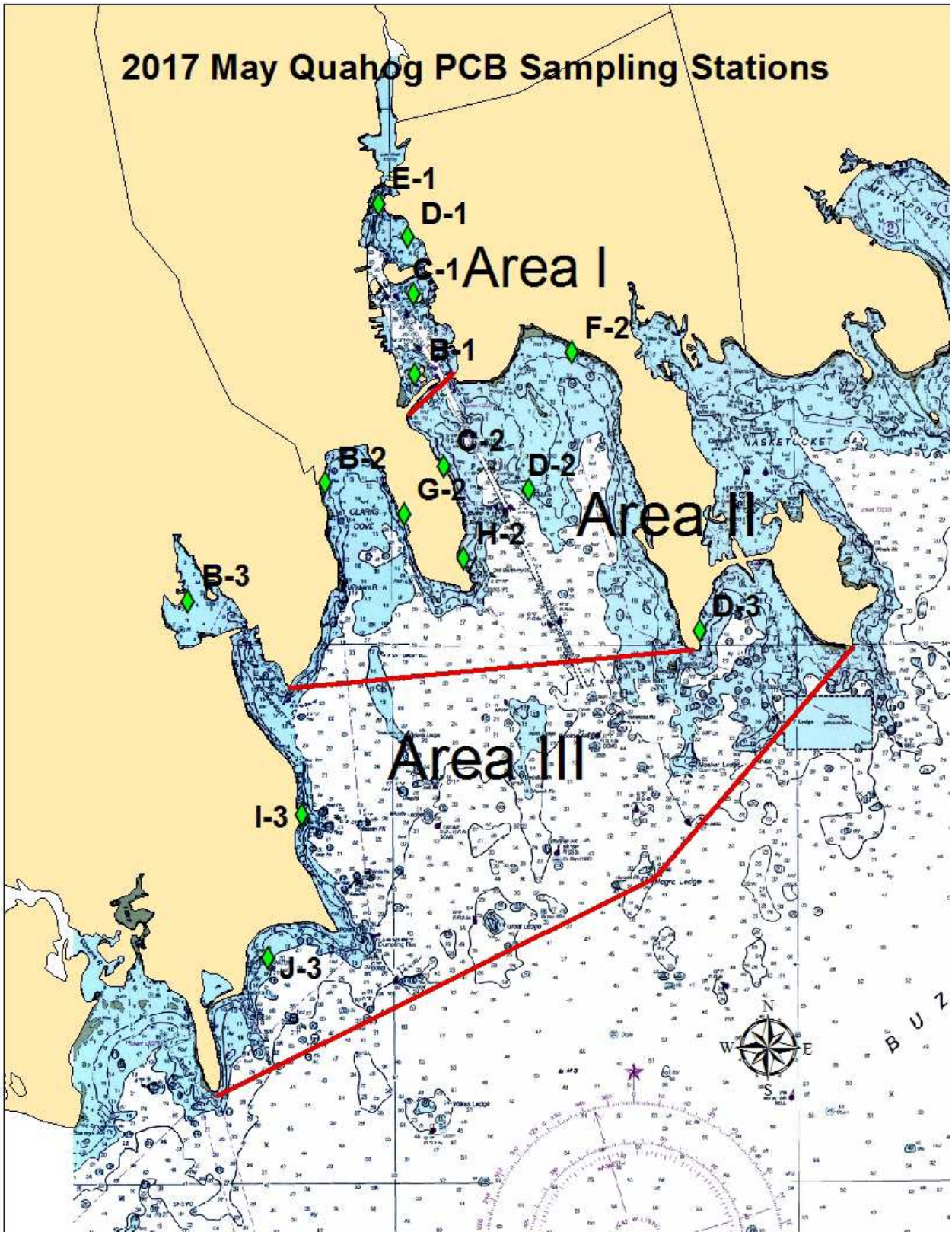

Figure 2 Quahog (Pre-spawn May), Areas I, II, & III

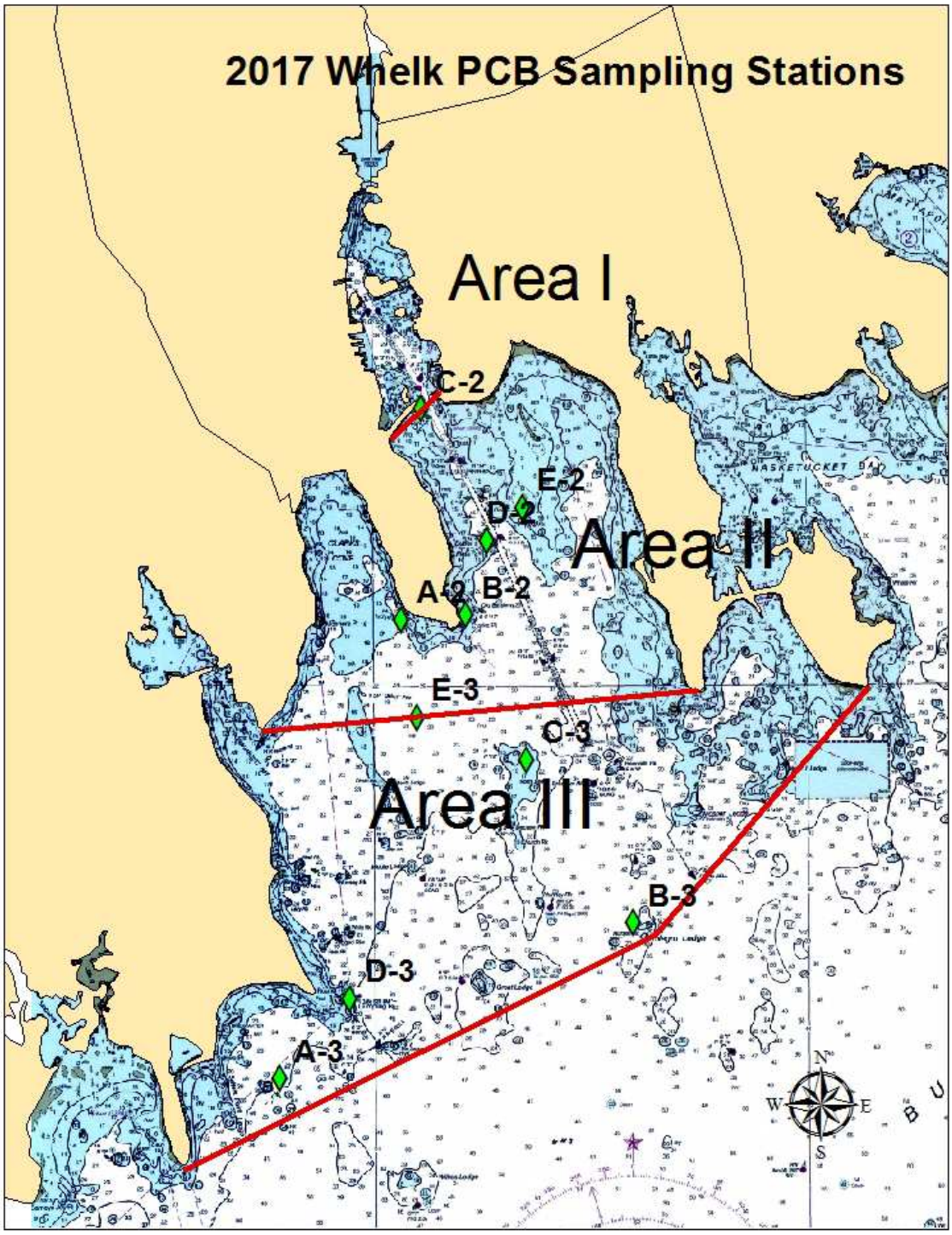

Figure 3 Whelk, Areas II, & III

ATTACHMENT 2
DMF FIELD COLLECTION SHEETS

Field Collection Form 1 Quahog Pre-spawn
Field Collection Form 2 Whelk

FIELD COLLECTION FORM 1: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 1213 PURCHASE ST, NEW BEDFORD, MA 02740
PROJECT #: NBH17 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 #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
5/23/2017	NBH17-SF-B-1	13 Quahogs (Prespawn)	Palmer Island	NBH Area 1	41º 37.505' 070º 54.690'	Rake	
5/23/2017	NBH17-SF-C-1	13 Quahogs (Prespawn)	Crow's Island	NBH Area 1	41º 38.251' 070º 54.710'	Rake	
5/23/2017	NBH17-SF-D-1	13 Quahogs (Prespawn)	North of Gifford's Marina	NBH Area 1	41º 38.783' 070º 54.773'	Rake	
5/23/2017	NBH17-SF-E-1	13 Quahogs (Prespawn)	Tin Can Island	NBH Area 1	41º 39.092' 070º 55.122'	Rake	
5/10/2017	NBH17-SF-B-2	13 Quahogs (Prespawn)	Rogers Street	NBH Area 2	041º 36.500' 070º 55.820'	Dive	
5/11/2017	NBH17-SF-C-2	13 Quahogs (Prespawn)	S of Fredrick St Ramp	NBH Area 2	041º 36.650' 070º 54.345'	Dive	
5/11/2017	NBH17-SF-D-2	13 Quahogs (Prespawn)	Egg Island	NBH Area 2	041º 36.422 070º 53.290'	Dive	
5/11/2017	NBH17-SF-F-2	13 Quahogs (Prespawn)	Priest's Cove	NBH Area 2	041º 37.700' 070º 52.740'	Dive	
5/10/2017	NBH17-SF-G-2	13 Quahogs (Prespawn)	W Rodney Family Area	NBH Area 2	041º 36.205' 070º 54.842'	Dive	
5/11/2017	NBH17-SF-H-2	13 Quahogs (Prespawn)	E Rodney Family Area	NBH Area 2	041º 35.790' 070º 54.108'	Dive	
5/23/2017	NBH17-SF-B-3	13 Quahogs (Prespawn)	Star of the Sea	NBH Area 3	041º 35.410' 070º 57.524'	Rake	
5/11/2017	NBH17-SF-D-3	15 Quahogs (Prespawn)	Nakata Beach	NBH Area 3	041º 35.102' 070º 51.192'	Dive	
5/10/2017	NBH17-SF-I-3	12 Quahogs (Prespawn)	Nonquit	NBH Area 3	041º 33.415' 070º 56.128'	Dive	
5/10/2017	NBH17-SF-J-3	12 Quahogs (Prespawn)	Salters Point	NBH Area 3	41° 32.09' 070 56.56'	Dive	

FIELD COLLECTION FORM 3: DIVISION MARINE FISHERIES, NEW BEDFORD OFFICE, 1213 PURCHASE ST, NEW BEDFORD, MA 02740
PROJECT #: NBH17 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
10/10/2017, 10/12/2017	NBH17-SF-A-2	12 Whelk	SMAST Pier	NBH Area 2	041º 35.556' 070º 54.669'	Pots	
10/10/2017	NBH17-SF-B-2	12 Whelk	E of Fort Rodman	NBH Area 2	041º 35.596' 070º 53.922'	Pots	
10/13/2017	NBH17 SF-C-2	11 Whelk	W of Opening	NBH Area 2	041º 37.380' 070º 54.430'	Pots	
10/10/2017	NBH17-SF-D-2	12 Whelk	Lighthouse	NBH Area 2	041º 36.242' 070º 53.683'	Pots	
10/10/2017	NBH17-SF-E-2	12 Whelk	Egg Island	NBH Area 2	041º 36.523' 070º 53.258'	Pots	
10/13/2017, 10/16/2017	NBH17-SF-A-3	12 Whelk	Great Ledge	NBH Area 3	41º 31.591' 070º 56.110'	Pots	
10/13/2017	NBH17-SF-B-3	12 Whelk	Negro Ledge	NBH Area 3	41º 32.922' 070º 52.023'	Pots	
10/10/2017	NBH17-SF-C-3	11 Whelk	North Ledge	NBH Area 3	041º 34.341' 070º 53.234'	Pots	
10/13/2017, 10/16/2017	NBH17-SF-D-3	12 Whelk	Radome	NBH Area 3	041º 32.281' 070º 55.292'	Pots	
10/12/2017, 10/13/2017	NBH17-SF-E-3	12 Whelk	Angelica Rock	NBH Area 3	41º 34.711' 070º 51.498'	Pots	

Appendix D

PCB Congener Calculations 136 vs 148 for 2017 Memo
May 30, 2018

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection
One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

Memorandum

From: Paul Craffey, MassDEP Project Manager
To: File
Date: May 30, 2018
Subject: PCB Congener Calculations 136 vs 148 for 2017

Introduction

Since 2003, the same 136 PCB congeners were analyzed for each location. The reason to keep the number and the specific congeners the same each year is so a comparison could be made to determine a trend of the PCB concentrations over the years of sampling. For the 2017 analysis, there were 148 PCB congeners that were analyzed in each sample. The new PCB congeners added in 2017 were BZ#20, #68, #73, #88, #90, #111, #112, #121, #125, #160, #164, and #204. These additional PCB congeners represent an 8.1% increase (12/148) in the number of PCB congeners vs. the previous sampling. The purpose of this memo is to determine if the 2017 concentrations represent a potential high bias due to the additional 12 congeners and may need a reduction correction when compared to the previous years.

Congener Result Analysis

Because the additional new PCB congeners co-eluted with other previous congeners, it is not possible to separate the peaks, add up the new 2017 PCB congeners, and subtract the total to obtain adjusted PCB congener totals that could be compared the previous years. The summary tables below represent each of the sample locations that were sampled in 2011 through 2017 and include only the PCB congeners affected by the new 2017 PCB congener list. The subset of affected PCB congeners was totaled and then compared to the total PCB concentration for each individual sample. The percentages of the subset vs. the total are shown on the last gray line of each sample location. The 2017 values including the additional 12 PCB congeners can be compared to the previous years (2011 to 2016) that do not include the additional congeners.

Results

The percentages of the subset PCB congeners for all Conch locations are between 12 to 22%

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.
TTY# MassRelay Service 1-800-439-2370
MassDEP Website: www.mass.gov/dep
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(averaging 17%) of the total PCB congeners. The percentages of the subset PCB congeners for the 2017 Conch locations are between 12 to 22% (averaging 18.9%) of the total PCB congeners. The total increase in the 2017 PCB congeners compared to the previous years (2011 to 2016) is less than 2% (18.9% – 17% = 1.9%).

The percentages of the subset PCB congeners for all Quahog locations are between 0 to 16% (averaging 12.4%) of the total PCB congeners. The percentages of the subset PCB congeners for the 2017 Quahog locations are between 2.3 to 15% (averaging 11.7%) of the total PCB congeners. The total decrease in the 2017 PCB congeners compared to the previous years (2011 to 2016) is less than 1% (12.4% –11.7% = 0.7%).

Even though the total number of new PCB congeners in 2017 increased the total number of PCB congeners analyzed by 8.1%, the additional new PCB congeners do not seem to represent a significant change to the total PCB congener results. Based on this evaluation an adjustment to the 2017 results is not required when compared to the previous years' results.

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Conch Area 2 Station A											
CN2-Station A	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0		0.0	0	21/20 & 33	sum of 21/20 and 33
CN2-Station A	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0		0.0	0	73/46	
CN2-Station A	Cl4-BZ#64	MG/KG	0.0	0.00036	0.0	0.00035		0.00055	0.00283	68/64	
CN2-Station A	Cl5-BZ#101/#84	MG/KG	0.0094	0.01	0.0028	0.023		0.035	0.0262	101/90 & 89/84	see value for 89/84 below
CN2-Station A	Cl5-BZ#83	MG/KG	0.00057	0.00062	0.0	0.0011		0.0021	0.00139	83/125/112	
CN2-Station A	Cl5-BZ#87	MG/KG	0.0021	0.0016	0.0	0.0037		0.0066	0.00192	87/111	
CN2-Station A	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00112	89/84	
CN2-Station A	Cl5-BZ#95	MG/KG	0.0019	0.0018	0.00051	0.0035		0.0059	0.00508	121/95/88	
CN2-Station A	Cl6-BZ#130	MG/KG	0.00066	0.00076	0.0	0.0017		0.0034	0.00267	130/164	
CN2-Station A	Cl6-BZ#138/#163	MG/KG	0.016	0.012	0.0037	0.032		0.057	0.0353	138 & 163/160	sum of 138 and 163/160
CN2-Station A	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0		0.0	0	200/204	
CN2-Station A	Total PCB Congeners (CALC)	MG/KG	0.16	0.14	0.054	0.32		0.56	0.37		
CN2-Station A	Lipids	PERCENT	0.21	0.23	0.15	2.1		0.99	0.38		
Calculated	Cong_Sum	MG/KG	0.031	0.028	0.007	0.065		0.11	0.077		
Calculated	% of Total PCB (CALC)	Percent	20	20	13	21		20	20		
Conch Area 2 Station B											
CN2-Station B	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.00056		0.00059	0.00144	21/20 & 33	sum of 21/20 and 33
CN2-Station B	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00074	73/46	
CN2-Station B	Cl4-BZ#64	MG/KG	0.0004	0.00077	0.0	0.00069		0.0016	0.02	68/64	
CN2-Station B	Cl5-BZ#101/#84	MG/KG	0.018	0.015	0.0092	0.063		0.055	0.0984	101/90 & 89/84	see value for 89/84 below
CN2-Station B	Cl5-BZ#83	MG/KG	0.0012	0.0009	0.00059	0.0044		0.0037	0.00571	83/125/112	
CN2-Station B	Cl5-BZ#87	MG/KG	0.0037	0.0031	0.0017	0.011		0.0099	0.00891	87/111	
CN2-Station B	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00674	89/84	
CN2-Station B	Cl5-BZ#95	MG/KG	0.004	0.0034	0.0018	0.0094		0.011	0.0295	121/95/88	
CN2-Station B	Cl6-BZ#130	MG/KG	0.0014	0.0011	0.00082	0.0069		0.0062	0.0105	130/164	
CN2-Station B	Cl6-BZ#138/#163	MG/KG	0.02	0.02	0.013	0.091		0.072	0.0801	138 & 163/160	sum of 138 and 163/160
CN2-Station B	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0		0.0	0	200/204	
CN2-Station B	Total PCB Congeners (CALC)	MG/KG	0.24	0.26	0.14	0.89		0.77	1.4		
CN2-Station B	Lipids	PERCENT	0.28	0.39	0.18	3		1.2	0.44		
Calculated	Cong_Sum	MG/KG	0.049	0.044	0.027	0.19		0.16	0.26		
Calculated	% of Total PCB (CALC)	Percent	21	17	19	21		21	19		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Conch Area 2 Station C											
CN2-Station C	Cl3-BZ#21/#33	MG/KG	0.00064	0.00064	0.00067	0.0018		0.0021	0.00395	21/20 & 33	sum of 21/20 and 33
CN2-Station C	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00227	73/46	
CN2-Station C	Cl4-BZ#64	MG/KG	0.0012	0.0019	0.0014	0.0018		0.0048	0.0392	68/64	
CN2-Station C	Cl5-BZ#101/#84	MG/KG	0.036	0.032	0.025	0.043		0.092	0.122	101/90 & 89/84	see value for 89/84 below
CN2-Station C	Cl5-BZ#83	MG/KG	0.0017	0.0013	0.0011	0.0023		0.005	0.00454	83/125/112	
CN2-Station C	Cl5-BZ#87	MG/KG	0.0063	0.0058	0.0041	0.0068		0.017	0.00839	87/111	
CN2-Station C	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0		0.0	0.0118	89/84	
CN2-Station C	Cl5-BZ#95	MG/KG	0.0067	0.0063	0.0053	0.0099		0.021	0.0502	121/95/88	
CN2-Station C	Cl6-BZ#130	MG/KG	0.002	0.0018	0.0012	0.0021		0.0055	0.00862	130/164	
CN2-Station C	Cl6-BZ#138/#163	MG/KG	0.043	0.046	0.027	0.041		0.088	0.0737	138 & 163/160	sum of 138 and 163/160
CN2-Station C	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0		0.0	0	200/204	
CN2-Station C	Total PCB Congeners (CALC)	MG/KG	0.57	0.68	0.41	0.66		1.4	2.3		
CN2-Station C	Lipids	PERCENT	0.21	0.24	0.23	1.4		0.65	0.34		
Calculated	Cong_Sum	MG/KG	0.097	0.096	0.065	0.11		0.24	0.32		
Calculated	% of Total PCB (CALC)	Percent	17	14	16	16		17	14		
Conch Area 2 Station D											
CN2-Station D	Cl3-BZ#21/#33	MG/KG	0.00065	0.0	0.0	0.00055		0.0014	0.00159	21/20 & 33	sum of 21/20 and 33
CN2-Station D	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0		0.0	0.001	73/46	
CN2-Station D	Cl4-BZ#64	MG/KG	0.00081	0.00073	0.0	0.00071		0.0072	0.0187	68/64	
CN2-Station D	Cl5-BZ#101/#84	MG/KG	0.048	0.018	0.011	0.029		0.11	0.0776	101/90 & 89/84	see value for 89/84 below
CN2-Station D	Cl5-BZ#83	MG/KG	0.0038	0.0012	0.00072	0.0018		0.0057	0.00412	83/125/112	
CN2-Station D	Cl5-BZ#87	MG/KG	0.012	0.0034	0.0021	0.0055		0.018	0.00696	87/111	
CN2-Station D	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0		0.0	0.0067	89/84	
CN2-Station D	Cl5-BZ#95	MG/KG	0.013	0.0039	0.0025	0.0057		0.032	0.0286	121/95/88	
CN2-Station D	Cl6-BZ#130	MG/KG	0.0043	0.0015	0.00072	0.0023		0.0061	0.00748	130/164	
CN2-Station D	Cl6-BZ#138/#163	MG/KG	0.056	0.02	0.013	0.04		0.093	0.0589	138 & 163/160	sum of 138 and 163/160
CN2-Station D	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0		0.00028	0	200/204	
CN2-Station D	Total PCB Congeners (CALC)	MG/KG	0.64	0.25	0.16	0.45		1.5	1.3		
CN2-Station D	Lipids	PERCENT	0.48	0.26	0.15	2.4		0.88	0.35		
Calculated	Cong_Sum	MG/KG	0.14	0.048	0.03	0.085		0.27	0.21		
Calculated	% of Total PCB (CALC)	Percent	21	20	19	19		18	17		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Conch Area 2 Station E											
CN2-Station E	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.00077		0.00048	0	21/20 & 33	sum of 21/20 and 33
CN2-Station E	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0		0.0	0	73/46	
CN2-Station E	Cl4-BZ#64	MG/KG	0.00031	0.00081	0.0	0.00088		0.00083	0.00277	68/64	
CN2-Station E	Cl5-BZ#101/#84	MG/KG	0.014	0.017	0.0072	0.053		0.033	0.0211	101/90 & 89/84	see value for 89/84 below
CN2-Station E	Cl5-BZ#83	MG/KG	0.00071	0.00089	0.0	0.0024		0.0017	0.00099	83/125/112	
CN2-Station E	Cl5-BZ#87	MG/KG	0.0025	0.0026	0.0012	0.0095		0.0054	0.00145	87/111	
CN2-Station E	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00087	89/84	
CN2-Station E	Cl5-BZ#95	MG/KG	0.0025	0.0035	0.0013	0.009		0.0064	0.00349	121/95/88	
CN2-Station E	Cl6-BZ#130	MG/KG	0.00092	0.0011	0.0	0.0032		0.0023	0.00228	130/164	
CN2-Station E	Cl6-BZ#138/#163	MG/KG	0.022	0.017	0.0068	0.064		0.032	0.02129	138 & 163/160	sum of 138 and 163/160
CN2-Station E	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.00025		0.0	0	200/204	
CN2-Station E	Total PCB Congeners (CALC)	MG/KG	0.22	0.23	0.098	0.73		0.42	0.27		
CN2-Station E	Lipids	PERCENT	0.37	0.43	0.18	3.5		0.76	0.12		
Calculated	Cong_Sum	MG/KG	0.043	0.044	0.016	0.14		0.082	0.054		
Calculated	% of Total PCB (CALC)	Percent	19	19	17	20		19	20		
Conch Area 3 Station A											
CN3-Station A	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0			0	21/20 & 33	sum of 21/20 and 33
CN3-Station A	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0			0	73/46	
CN3-Station A	Cl4-BZ#64	MG/KG	0.0	0.0	0.0	0.0			0.00463	68/64	
CN3-Station A	Cl5-BZ#101/#84	MG/KG	0.0066	0.0092	0.0039	0.008			0.0229	101/90 & 89/84	see value for 89/84 below
CN3-Station A	Cl5-BZ#83	MG/KG	0.00033	0.00047	0.0	0.00054			0.00085	83/125/112	
CN3-Station A	Cl5-BZ#87	MG/KG	0.0012	0.0016	0.00063	0.0013			0.00156	87/111	
CN3-Station A	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0			0.0009	89/84	
CN3-Station A	Cl5-BZ#95	MG/KG	0.00091	0.0012	0.0	0.00085			0.00467	121/95/88	
CN3-Station A	Cl6-BZ#130	MG/KG	0.0007	0.0011	0.00049	0.0012			0.00256	130/164	
CN3-Station A	Cl6-BZ#138/#163	MG/KG	0.017	0.029	0.011	0.021			0.036	138 & 163/160	sum of 138 and 163/160
CN3-Station A	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0			0	200/204	
CN3-Station A	Total PCB Congeners (CALC)	MG/KG	0.15	0.23	0.09	0.16			0.41		
CN3-Station A	Lipids	PERCENT	0.37	0.47	0.23	3.1			0.84		
Calculated	Cong_Sum	MG/KG	0.027	0.043	0.016	0.033			0.074		
Calculated	% of Total PCB (CALC)	Percent	18	19	17	21			18		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Conch Area 3 Station B											
CN3-Station B	Cl3-BZ#21/#33	MG/KG		0.0	0.0	0.0			0	21/20 & 33	sum of 21/20 and 33
CN3-Station B	Cl4-BZ#46	MG/KG		0.0	0.0	0.0			0	73/46	
CN3-Station B	Cl4-BZ#64	MG/KG		0.0	0.0	0.0			0.00084	68/64	
CN3-Station B	Cl5-BZ#101/#84	MG/KG		0.0077	0.0023	0.0035			0.00909	101/90 & 89/84	see value for 89/84 below
CN3-Station B	Cl5-BZ#83	MG/KG		0.00042	0.0	0.00026			0.00062	83/125/112	
CN3-Station B	Cl5-BZ#87	MG/KG		0.001	0.0	0.0006			0.00064	87/111	
CN3-Station B	Cl5-BZ#89	MG/KG		0.0	0.0	0.0			0.00024	89/84	
CN3-Station B	Cl5-BZ#95	MG/KG		0.00097	0.0	0.00037			0.00133	121/95/88	
CN3-Station B	Cl6-BZ#130	MG/KG		0.00094	0.0	0.00054			0.00171	130/164	
CN3-Station B	Cl6-BZ#138/#163	MG/KG		0.012	0.0038	0.0059			0.01717	138 & 163/160	sum of 138 and 163/160
CN3-Station B	Cl8-BZ#200	MG/KG		0.0	0.0	0.0			0	200/204	
CN3-Station B	Total PCB Congeners (CALC)	MG/KG		0.12	0.052	0.067			0.16		
CN3-Station B	Lipids	PERCENT		0.49	0.19	1.3			1.2		
Calculated	Cong_Sum	MG/KG		0.023	0.006	0.011			0.032		
Calculated	% of Total PCB (CALC)	Percent		20	12	17			20		
Conch Area 3 Station C											
CN3-Station C	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00038	21/20 & 33	sum of 21/20 and 33
CN3-Station C	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0		0.0	0	73/46	
CN3-Station C	Cl4-BZ#64	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00626	68/64	
CN3-Station C	Cl5-BZ#101/#84	MG/KG	0.0056	0.0063	0.0053	0.0065		0.017	0.0561	101/90 & 89/84	see value for 89/84 below
CN3-Station C	Cl5-BZ#83	MG/KG	0.00035	0.00039	0.0	0.00046		0.0012	0.00427	83/125/112	
CN3-Station C	Cl5-BZ#87	MG/KG	0.0011	0.0012	0.00072	0.0013		0.0033	0.0039	87/111	
CN3-Station C	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0		0.0	0.0026	89/84	
CN3-Station C	Cl5-BZ#95	MG/KG	0.00083	0.0008	0.00097	0.001		0.0021	0.0121	121/95/88	
CN3-Station C	Cl6-BZ#130	MG/KG	0.00056	0.00069	0.00055	0.00065		0.0024	0.00702	130/164	
CN3-Station C	Cl6-BZ#138/#163	MG/KG	0.012	0.012	0.01	0.011		0.047	0.0778	138 & 163/160	sum of 138 and 163/160
CN3-Station C	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0		0.0	0	200/204	
CN3-Station C	Total PCB Congeners (CALC)	MG/KG	0.11	0.11	0.099	0.11		0.35	0.81		
CN3-Station C	Lipids	PERCENT	0.11	0.4	0.3	2.3		0.85	1.2		
Calculated	Cong_Sum	MG/KG	0.021	0.021	0.018	0.02		0.073	0.17		
Calculated	% of Total PCB (CALC)	Percent	19	20	18	19		21	21		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Conch Area 3 Station D											
CN3-Station D	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0		0.0	0	21/20 & 33	sum of 21/20 and 33
CN3-Station D	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0		0.0	0	73/46	
CN3-Station D	Cl4-BZ#64	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00077	68/64	
CN3-Station D	Cl5-BZ#101/#84	MG/KG	0.023	0.0092	0.0084	0.021		0.016	0.00836	101/90 & 89/84	see value for 89/84 below
CN3-Station D	Cl5-BZ#83	MG/KG	0.00099	0.00056	0.0	0.0011		0.0008	0	83/125/112	
CN3-Station D	Cl5-BZ#87	MG/KG	0.0055	0.0019	0.0017	0.0036		0.0022	0.00063	87/111	
CN3-Station D	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0		0.0	0.00028	89/84	
CN3-Station D	Cl5-BZ#95	MG/KG	0.0032	0.0015	0.0014	0.0027		0.0016	0.00114	121/95/88	
CN3-Station D	Cl6-BZ#130	MG/KG	0.0026	0.00099	0.00087	0.0025		0.0021	0.0011	130/164	
CN3-Station D	Cl6-BZ#138/#163	MG/KG	0.088	0.031	0.029	0.06		0.035	0.01538	138 & 163/160	sum of 138 and 163/160
CN3-Station D	Cl8-BZ#200	MG/KG	0.00032	0.0	0.0	0.00026		0.0	0	200/204	
CN3-Station D	Total PCB Congeners (CALC)	MG/KG	0.73	0.24	0.22	0.44		0.27	0.14		
CN3-Station D	Lipids	PERCENT	0.52	0.45	0.42	3.8		0.89	0.81		
Calculated	Cong_Sum	MG/KG	0.12	0.045	0.042	0.091		0.058	0.028		
Calculated	% of Total PCB (CALC)	Percent	17	19	19	21		22	20		
Conch Area 3 Station E											
CN3-Station E	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0			0	21/20 & 33	sum of 21/20 and 33
CN3-Station E	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0			0	73/46	
CN3-Station E	Cl4-BZ#64	MG/KG	0.0	0.00047	0.0	0.0			0.00183	68/64	
CN3-Station E	Cl5-BZ#101/#84	MG/KG	0.008	0.014	0.0047	0.026			0.02	101/90 & 89/84	see value for 89/84 below
CN3-Station E	Cl5-BZ#83	MG/KG	0.00046	0.00076	0.0	0.0019			0.00116	83/125/112	
CN3-Station E	Cl5-BZ#87	MG/KG	0.0013	0.0021	0.00075	0.0044			0.00126	87/111	
CN3-Station E	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0			0.00073	89/84	
CN3-Station E	Cl5-BZ#95	MG/KG	0.0011	0.0019	0.0007	0.0035			0.00332	121/95/88	
CN3-Station E	Cl6-BZ#130	MG/KG	0.00071	0.0015	0.00052	0.0032			0.00252	130/164	
CN3-Station E	Cl6-BZ#138/#163	MG/KG	0.012	0.021	0.0074	0.042			0.0285	138 & 163/160	sum of 138 and 163/160
CN3-Station E	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0			0	200/204	
CN3-Station E	Total PCB Congeners (CALC)	MG/KG	0.12	0.2	0.081	0.37			0.29		
CN3-Station E	Lipids	PERCENT	0.28	0.78	0.26	3.2			0.75		
Calculated	Cong_Sum	MG/KG	0.024	0.042	0.014	0.081			0.059		
Calculated	% of Total PCB (CALC)	Percent	20	21	17	22			20		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Quahogs Area 1 Station B Pre-Spawn											
Q1-Station B	Cl3-BZ#21/#33	MG/KG	0.0013		0.0011	0.0051	0.0022		0.00267	21/20 & 33	sum of 21/20 and 33
Q1-Station B	Cl4-BZ#46	MG/KG	0.0		0.00049	0.0	0.0047		0.00082	73/46	
Q1-Station B	Cl4-BZ#64	MG/KG	0.0046		0.0028	0.0082	0.0046		0.0098	68/64	
Q1-Station B	Cl5-BZ#101/#84	MG/KG	0.025		0.013	0.051	0.031		0.0272	101/90 & 89/84	see value for 89/84 below
Q1-Station B	Cl5-BZ#83	MG/KG	0.0012		0.0006	0.0019	0.0015		0.0011	83/125/112	
Q1-Station B	Cl5-BZ#87	MG/KG	0.0047		0.0025	0.013	0.0075		0.00347	87/111	
Q1-Station B	Cl5-BZ#89	MG/KG	0.0		0.0	0.0	0.0		0.00377	89/84	
Q1-Station B	Cl5-BZ#95	MG/KG	0.01		0.006	0.024	0.012		0.014	121/95/88	
Q1-Station B	Cl6-BZ#130	MG/KG	0.00094		0.00045	0.0017	0.0015		0.00241	130/164	
Q1-Station B	Cl6-BZ#138/#163	MG/KG	0.012		0.0057	0.022	0.015		0.01106	138 & 163/160	sum of 138 and 163/160
Q1-Station B	Cl8-BZ#200	MG/KG	0.0		0.0	0.0	0.0		0	200/204	
Q1-Station B	Total PCB Congeners (CALC)	MG/KG	0.41		0.24	0.83	0.46		0.55		
Q1-Station B	Lipids	PERCENT	0.21		0.3	0.5	0.18		0.29		
Calculated	Cong_Sum	MG/KG	0.059		0.033	0.13	0.08		0.076		
Calculated	% of Total PCB (CALC)	Percent	14		13	15	17		14		
Quahogs Area 1 Station C Pre-Spawn											
Q1-Station C	Cl3-BZ#21/#33	MG/KG	0.0021		0.0016				0.00297	21/20 & 33	sum of 21/20 and 33
Q1-Station C	Cl4-BZ#46	MG/KG	0.0		0.0				0.00095	73/46	
Q1-Station C	Cl4-BZ#64	MG/KG	0.0051		0.0036				0.0125	68/64	
Q1-Station C	Cl5-BZ#101/#84	MG/KG	0.033		0.019				0.0328	101/90 & 89/84	see value for 89/84 below
Q1-Station C	Cl5-BZ#83	MG/KG	0.0015		0.00082				0.00107	83/125/112	
Q1-Station C	Cl5-BZ#87	MG/KG	0.0066		0.0037				0.00396	87/111	
Q1-Station C	Cl5-BZ#89	MG/KG	0.0		0.0				0.00447	89/84	
Q1-Station C	Cl5-BZ#95	MG/KG	0.012		0.0084				0.0157	121/95/88	
Q1-Station C	Cl6-BZ#130	MG/KG	0.0012		0.00064				0.00305	130/164	
Q1-Station C	Cl6-BZ#138/#163	MG/KG	0.015		0.0082				0.01408	138 & 163/160	sum of 138 and 163/160
Q1-Station C	Cl8-BZ#200	MG/KG	0.0		0.0				0	200/204	
Q1-Station C	Total PCB Congeners (CALC)	MG/KG	0.51		0.35				0.65		
Q1-Station C	Lipids	PERCENT	0.22		0.48				0.27		
Calculated	Cong_Sum	MG/KG	0.077		0.046				0.092		
Calculated	% of Total PCB (CALC)	Percent	15		13				14		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Quahogs Area 1 Station D Pre-Spawn											
Q1-Station D	Cl3-BZ#21/#33	MG/KG	0.0034		0.0044	0.0057	0.0018		0.00518	21/20 & 33	sum of 21/20 and 33
Q1-Station D	Cl4-BZ#46	MG/KG	0.0		0.0018	0.0	0.0041		0.00169	73/46	
Q1-Station D	Cl4-BZ#64	MG/KG	0.011		0.01	0.014	0.0043		0.0222	68/64	
Q1-Station D	Cl5-BZ#101/#84	MG/KG	0.055		0.049	0.056	0.026		0.0594	101/90 & 89/84	see value for 89/84 below
Q1-Station D	Cl5-BZ#83	MG/KG	0.0025		0.0022	0.0023	0.0012		0.00256	83/125/112	
Q1-Station D	Cl5-BZ#87	MG/KG	0.011		0.0093	0.0099	0.0054		0.00727	87/111	
Q1-Station D	Cl5-BZ#89	MG/KG	0.0		0.0	0.0	0.0		0.00792	89/84	
Q1-Station D	Cl5-BZ#95	MG/KG	0.023		0.024	0.027	0.01		0.0277	121/95/88	
Q1-Station D	Cl6-BZ#130	MG/KG	0.0018		0.0013	0.0017	0.0011		0.00511	130/164	
Q1-Station D	Cl6-BZ#138/#163	MG/KG	0.026		0.02	0.025	0.014		0.0254	138 & 163/160	sum of 138 and 163/160
Q1-Station D	Cl8-BZ#200	MG/KG	0.0		0.0	0.0	0.0		0	200/204	
Q1-Station D	Total PCB Congeners (CALC)	MG/KG	0.96		0.91	1.1	0.45		1.2		
Q1-Station D	Lipids	PERCENT	0.14		0.2	0.5	0.1		0.51		
Calculated	Cong_Sum	MG/KG	0.13		0.12	0.14	0.068		0.16		
Calculated	% of Total PCB (CALC)	Percent	14		13	12	15		14		
Quahogs Area 1 Station E Pre-Spawn											
Q1-Station E	Cl3-BZ#21/#33	MG/KG	0.0045		0.004	0.012	0.0034	0.0058	0.007	21/20 & 33	sum of 21/20 and 33
Q1-Station E	Cl4-BZ#46	MG/KG	0.0		0.0019	0.0	0.0016	0.0042	0.00244	73/46	
Q1-Station E	Cl4-BZ#64	MG/KG	0.016		0.011	0.025	0.0091	0.018	0.0292	68/64	
Q1-Station E	Cl5-BZ#101/#84	MG/KG	0.073		0.044	0.09	0.046	0.063	0.0698	101/90 & 89/84	see value for 89/84 below
Q1-Station E	Cl5-BZ#83	MG/KG	0.0032		0.0021	0.004	0.0023	0.003	0.00261	83/125/112	
Q1-Station E	Cl5-BZ#87	MG/KG	0.013		0.0077	0.014	0.0089	0.011	0.00654	87/111	
Q1-Station E	Cl5-BZ#89	MG/KG	0.0		0.0	0.0	0.0	0.0	0.0109	89/84	
Q1-Station E	Cl5-BZ#95	MG/KG	0.034		0.023	0.052	0.021	0.03	0.0377	121/95/88	
Q1-Station E	Cl6-BZ#130	MG/KG	0.0021		0.0013	0.0022	0.0018	0.002	0.00568	130/164	
Q1-Station E	Cl6-BZ#138/#163	MG/KG	0.032		0.019	0.033	0.022	0.028	0.0292	138 & 163/160	sum of 138 and 163/160
Q1-Station E	Cl8-BZ#200	MG/KG	0.0		0.0	0.0	0.0	0.0	0	200/204	
Q1-Station E	Total PCB Congeners (CALC)	MG/KG	1.3		0.91	2.1	0.79	1.3	1.5		
Q1-Station E	Lipids	PERCENT	0.25		0.16	0.47	0.24	0.38	0.44		
Calculated	Cong_Sum	MG/KG	0.18		0.11	0.23	0.12	0.16	0.2		
Calculated	% of Total PCB (CALC)	Percent	14		13	11	15	13	14		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Quahogs Area 2 Station B Pre-Spawn											
Q2-Station B	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q2-Station B	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q2-Station B	Cl4-BZ#64	MG/KG	0.00026	0.00068	0.00027	0.00031	0.0	0.00024	0.00054	68/64	
Q2-Station B	Cl5-BZ#101/#84	MG/KG	0.0033	0.0051	0.0028	0.0033	0.0018	0.0028	0.00311	101/90 & 89/84	see value for 89/84 below
Q2-Station B	Cl5-BZ#83	MG/KG	0.0	0.00037	0.0	0.0	0.0	0.00026	0	83/125/112	
Q2-Station B	Cl5-BZ#87	MG/KG	0.00064	0.00082	0.00056	0.00062	0.0	0.00051	0.00042	87/111	
Q2-Station B	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00042	89/84	
Q2-Station B	Cl5-BZ#95	MG/KG	0.0011	0.002	0.001	0.0013	0.00052	0.00093	0.00125	121/95/88	
Q2-Station B	Cl6-BZ#130	MG/KG	0.00022	0.00036	0.0	0.0	0.0	0.0	0.00042	130/164	
Q2-Station B	Cl6-BZ#138/#163	MG/KG	0.0024	0.0037	0.002	0.0023	0.0013	0.0021	0.00206	138 & 163/160	sum of 138 and 163/160
Q2-Station B	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q2-Station B	Total PCB Congeners (CALC)	MG/KG	0.056	0.087	0.053	0.056	0.04	0.05	0.058		
Q2-Station B	Lipids	PERCENT	0.21	0.24	0.26	0.25	0.0	0.24	0.32		
Calculated	Cong_Sum	MG/KG	0.0079	0.013	0.0066	0.0079	0.0036	0.0069	0.0082		
Calculated	% of Total PCB (CALC)	Percent	14	15	13	14	9	14	14		
Quahogs Area 2 Station C Pre-Spawn											
Q2-Station C	Cl3-BZ#21/#33	MG/KG	0.0015	0.0016	0.0012	0.0015	0.00094	0.0011	0.0014	21/20 & 33	sum of 21/20 and 33
Q2-Station C	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0014	0.00064	0	73/46	
Q2-Station C	Cl4-BZ#64	MG/KG	0.0039	0.0038	0.0029	0.0034	0.0017	0.0023	0.00518	68/64	
Q2-Station C	Cl5-BZ#101/#84	MG/KG	0.024	0.02	0.013	0.019	0.011	0.013	0.0154	101/90 & 89/84	see value for 89/84 below
Q2-Station C	Cl5-BZ#83	MG/KG	0.0012	0.001	0.00067	0.00086	0.00067	0.00072	0.00075	83/125/112	
Q2-Station C	Cl5-BZ#87	MG/KG	0.0053	0.0041	0.0026	0.0036	0.0026	0.0028	0.00216	87/111	
Q2-Station C	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00242	89/84	
Q2-Station C	Cl5-BZ#95	MG/KG	0.011	0.0092	0.0065	0.009	0.005	0.0057	0.00824	121/95/88	
Q2-Station C	Cl6-BZ#130	MG/KG	0.0012	0.001	0.00049	0.00095	0.00052	0.00066	0.00165	130/164	
Q2-Station C	Cl6-BZ#138/#163	MG/KG	0.012	0.012	0.0064	0.01	0.0057	0.0075	0.00788	138 & 163/160	sum of 138 and 163/160
Q2-Station C	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q2-Station C	Total PCB Congeners (CALC)	MG/KG	0.38	0.36	0.25	0.32	0.19	0.23	0.29		
Q2-Station C	Lipids	PERCENT	0.25	0.34	0.32	0.26	0.0	0.23	0.4		
Calculated	Cong_Sum	MG/KG	0.061	0.053	0.034	0.048	0.03	0.034	0.045		
Calculated	% of Total PCB (CALC)	Percent	16	15	14	15	16	15	15		

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Quahogs Area 2 Station D Pre-Spawn											
Q2-Station D	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q2-Station D	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q2-Station D	Cl4-BZ#64	MG/KG	0.00071	0.0011	0.00072	0.0012	0.00061	0.00066	0.00095	68/64	
Q2-Station D	Cl5-BZ#101/#84	MG/KG	0.0053	0.0055	0.0038	0.0066	0.0051	0.0041	0.00346	101/90 & 89/84	see value for 89/84 below
Q2-Station D	Cl5-BZ#83	MG/KG	0.00024	0.0	0.00029	0.00038	0.0	0.00025	0	83/125/112	
Q2-Station D	Cl5-BZ#87	MG/KG	0.0009	0.00093	0.00075	0.0013	0.0012	0.00081	0.00048	87/111	
Q2-Station D	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00042	89/84	
Q2-Station D	Cl5-BZ#95	MG/KG	0.0021	0.0025	0.0018	0.003	0.002	0.0016	0.00177	121/95/88	
Q2-Station D	Cl6-BZ#130	MG/KG	0.00025	0.00029	0.0	0.00035	0.0	0.00026	0.00049	130/164	
Q2-Station D	Cl6-BZ#138/#163	MG/KG	0.0029	0.0032	0.0021	0.0037	0.0031	0.0024	0.00224	138 & 163/160	sum of 138 and 163/160
Q2-Station D	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q2-Station D	Total PCB Congeners (CALC)	MG/KG	0.085	0.11	0.077	0.12	0.085	0.077	0.073		
Q2-Station D	Lipids	PERCENT	0.15	0.21	0.27	0.27	0.0	0.19	0.27		
Calculated	Cong_Sum	MG/KG	0.012	0.014	0.0095	0.016	0.012	0.01	0.0098		
Calculated	% of Total PCB (CALC)	Percent	15	12	12	14	14	13	13		
Quahogs Area 2 Station F Pre-Spawn											
Q2-Station F	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q2-Station F	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q2-Station F	Cl4-BZ#64	MG/KG	0.00055	0.00061	0.0007	0.00045	0.00046	0.00052	0.00084	68/64	
Q2-Station F	Cl5-BZ#101/#84	MG/KG	0.004	0.0038	0.0035	0.0034	0.0035	0.004	0.00301	101/90 & 89/84	see value for 89/84 below
Q2-Station F	Cl5-BZ#83	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	83/125/112	
Q2-Station F	Cl5-BZ#87	MG/KG	0.00072	0.00074	0.00065	0.00059	0.0007	0.00068	0	87/111	
Q2-Station F	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00046	89/84	
Q2-Station F	Cl5-BZ#95	MG/KG	0.0016	0.0016	0.0016	0.0015	0.0014	0.0014	0.00145	121/95/88	
Q2-Station F	Cl6-BZ#130	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	130/164	
Q2-Station F	Cl6-BZ#138/#163	MG/KG	0.0022	0.0022	0.002	0.0018	0.0024	0.0024	0.00158	138 & 163/160	sum of 138 and 163/160
Q2-Station F	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q2-Station F	Total PCB Congeners (CALC)	MG/KG	0.071	0.075	0.071	0.067	0.066	0.069	0.067		
Q2-Station F	Lipids	PERCENT	0.26	0.17	0.27	0.23	0.0	0.21	0.13		
Calculated	Cong_Sum	MG/KG	0.009	0.009	0.0084	0.0077	0.0085	0.009	0.0073		
Calculated	% of Total PCB (CALC)	Percent	13	12	12	12	13	13	11		

Prepared by: BJS/JAR 5/15/18
Notes Revised by: JAR 6/1/18

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Quahogs Area 2 Station G Pre-Spawn											
Q2-Station G	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q2-Station G	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q2-Station G	Cl4-BZ#64	MG/KG	0.00026	0.00054	0.0	0.00032	0.0	0.00023	0.00066	68/64	
Q2-Station G	Cl5-BZ#101/#84	MG/KG	0.0025	0.0056	0.002	0.003	0.0021	0.0029	0.00292	101/90 & 89/84	see value for 89/84 below
Q2-Station G	Cl5-BZ#83	MG/KG	0.0	0.00035	0.0	0.0	0.0	0.0	0	83/125/112	
Q2-Station G	Cl5-BZ#87	MG/KG	0.00045	0.001	0.0004	0.00056	0.0	0.00055	0.00046	87/111	
Q2-Station G	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00059	89/84	
Q2-Station G	Cl5-BZ#95	MG/KG	0.00095	0.0019	0.00078	0.0011	0.00072	0.00099	0.0015	121/95/88	
Q2-Station G	Cl6-BZ#130	MG/KG	0.0	0.00036	0.0	0.00027	0.0	0.00025	0.00043	130/164	
Q2-Station G	Cl6-BZ#138/#163	MG/KG	0.0018	0.0035	0.0013	0.0021	0.0014	0.0022	0.00178	138 & 163/160	sum of 138 and 163/160
Q2-Station G	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q2-Station G	Total PCB Congeners (CALC)	MG/KG	0.05	0.083	0.048	0.056	0.042	0.052	0.061		
Q2-Station G	Lipids	PERCENT	0.18	0.28	0.2	0.0	0.21	0.2	0.35		
Calculated	Cong_Sum	MG/KG	0.0059	0.013	0.0045	0.0074	0.0042	0.0071	0.0083		
Calculated	% of Total PCB (CALC)	Percent	12	16	9.4	13	10	14	14		
Quahogs Area 2 Station H Pre-Spawn											
Q2-Station H	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.00073	0.0	0.0	0.00045	0.00032	21/20 & 33	sum of 21/20 and 33
Q2-Station H	Cl4-BZ#46	MG/KG	0.0	0.0	0.00027	0.0	0.00052	0.0	0	73/46	
Q2-Station H	Cl4-BZ#64	MG/KG	0.00078	0.00083	0.0014	0.00091	0.00055	0.00088	0.00178	68/64	
Q2-Station H	Cl5-BZ#101/#84	MG/KG	0.0068	0.0062	0.0073	0.0066	0.005	0.0053	0.00639	101/90 & 89/84	see value for 89/84 below
Q2-Station H	Cl5-BZ#83	MG/KG	0.00043	0.00041	0.00044	0.0003	0.0	0.00035	0	83/125/112	
Q2-Station H	Cl5-BZ#87	MG/KG	0.0013	0.0012	0.0016	0.0013	0.0011	0.0011	0.00089	87/111	
Q2-Station H	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00099	89/84	
Q2-Station H	Cl5-BZ#95	MG/KG	0.0028	0.0026	0.0036	0.0027	0.0019	0.0022	0.00311	121/95/88	
Q2-Station H	Cl6-BZ#130	MG/KG	0.0004	0.00037	0.00033	0.00034	0.0	0.00033	0.00072	130/164	
Q2-Station H	Cl6-BZ#138/#163	MG/KG	0.0043	0.0042	0.0036	0.0036	0.0031	0.0032	0.00394	138 & 163/160	sum of 138 and 163/160
Q2-Station H	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q2-Station H	Total PCB Congeners (CALC)	MG/KG	0.1	0.11	0.14	0.11	0.083	0.094	0.12		
Q2-Station H	Lipids	PERCENT	0.15	0.35	0.23	0.27	0.19	0.21	0.29		
Calculated	Cong_Sum	MG/KG	0.017	0.016	0.019	0.016	0.012	0.014	0.018		
Calculated	% of Total PCB (CALC)	Percent	16	14	14	15	15	15	15		

Prepared by: BJS/JAR 5/15/18
Notes Revised by: JAR 6/1/18

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Quahogs Area 3 Station B Pre-Spawn											
Q3-Station B	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q3-Station B	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q3-Station B	Cl4-BZ#64	MG/KG	0.0	0.0004	0.00033	0.00023	0.0	0.0	0.00043	68/64	
Q3-Station B	Cl5-BZ#101/#84	MG/KG	0.0021	0.0045	0.0028	0.0031	0.0035	0.0022	0.00276	101/90 & 89/84	see value for 89/84 below
Q3-Station B	Cl5-BZ#83	MG/KG	0.0	0.00024	0.0	0.0	0.0	0.0	0	83/125/112	
Q3-Station B	Cl5-BZ#87	MG/KG	0.00041	0.00078	0.00052	0.00055	0.00081	0.00054	0	87/111	
Q3-Station B	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.0003	89/84	
Q3-Station B	Cl5-BZ#95	MG/KG	0.00072	0.0016	0.001	0.0011	0.0012	0.0008	0.00111	121/95/88	
Q3-Station B	Cl6-BZ#130	MG/KG	0.0	0.00036	0.0	0.0003	0.0	0.0	0	130/164	
Q3-Station B	Cl6-BZ#138/#163	MG/KG	0.0018	0.0036	0.002	0.0024	0.0027	0.0016	0.00205	138 & 163/160	sum of 138 and 163/160
Q3-Station B	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q3-Station B	Total PCB Congeners (CALC)	MG/KG	0.046	0.072	0.052	0.053	0.059	0.046	0.054		
Q3-Station B	Lipids	PERCENT	0.34	0.43	0.41	0.39	0.37	0.29	0.46		
Calculated	Cong_Sum	MG/KG	0.005	0.012	0.0067	0.0077	0.0082	0.0052	0.0067		
Calculated	% of Total PCB (CALC)	Percent	11	16	13	14	14	11	12		
Quahogs Area 3 Station D Pre-Spawn											
Q3-Station D	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q3-Station D	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q3-Station D	Cl4-BZ#64	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00041	68/64	
Q3-Station D	Cl5-BZ#101/#84	MG/KG	0.002	0.0021	0.0015	0.0016	0.0	0.0019	0.00188	101/90 & 89/84	see value for 89/84 below
Q3-Station D	Cl5-BZ#83	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	83/125/112	
Q3-Station D	Cl5-BZ#87	MG/KG	0.00025	0.00042	0.0	0.0	0.0	0.00045	0	87/111	
Q3-Station D	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00026	89/84	
Q3-Station D	Cl5-BZ#95	MG/KG	0.00061	0.00076	0.0006	0.00066	0.0	0.00051	0.00074	121/95/88	
Q3-Station D	Cl6-BZ#130	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	130/164	
Q3-Station D	Cl6-BZ#138/#163	MG/KG	0.0012	0.0016	0.0011	0.0013	0.0	0.0012	0.0011	138 & 163/160	sum of 138 and 163/160
Q3-Station D	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q3-Station D	Total PCB Congeners (CALC)	MG/KG	0.043	0.044	0.042	0.039	0.034	0.041	0.042		
Q3-Station D	Lipids	PERCENT	0.23	0.28	0.36	0.31	0.0	0.34	0.26		
Calculated	Cong_Sum	MG/KG	0.004	0.0049	0.0032	0.0036	0.0	0.004	0.0044		
Calculated	% of Total PCB (CALC)	Percent	9.4	11	7.7	9.1	0.0	9.9	10		

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Notes Revised by: JAR 6/1/18

Location	Parameter	Year Units	2011	2012	2013	2014	2015	2016	2017	2017 Congeners	2017 Congeners Notes
Quahogs Area 3 Station I Pre-Spawn											
Q3-Station I	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q3-Station I	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q3-Station I	Cl4-BZ#64	MG/KG	0.0	0.00027	0.0003	0.0	0.0	0.00025	0	68/64	
Q3-Station I	Cl5-BZ#101/#84	MG/KG	0.0016	0.0024	0.0027	0.0024	0.002	0.0023	0.00208	101/90 & 89/84	see value for 89/84 below
Q3-Station I	Cl5-BZ#83	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	83/125/112	
Q3-Station I	Cl5-BZ#87	MG/KG	0.00033	0.00052	0.00049	0.00043	0.0	0.00058	0	87/111	
Q3-Station I	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0.00019	89/84	
Q3-Station I	Cl5-BZ#95	MG/KG	0.00049	0.00088	0.001	0.00076	0.00055	0.00076	0.0008	121/95/88	
Q3-Station I	Cl6-BZ#130	MG/KG	0.0	0.0	0.0	0.0	0.0	0.00024	0.00035	130/164	
Q3-Station I	Cl6-BZ#138/#163	MG/KG	0.0014	0.002	0.0018	0.0017	0.0015	0.0019	0.00179	138 & 163/160	sum of 138 and 163/160
Q3-Station I	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q3-Station I	Total PCB Congeners (CALC)	MG/KG	0.039	0.049	0.053	0.046	0.042	0.048	0.043		
Q3-Station I	Lipids	PERCENT	0.14	0.21	0.3	0.14	0.23	0.36	0.36		
Calculated	Cong_Sum	MG/KG	0.0037	0.0061	0.0064	0.0053	0.0041	0.006	0.0052		
Calculated	% of Total PCB (CALC)	Percent	9.7	12	12	11	9.7	12	12		
Quahogs Area 3 Station J Pre-Spawn											
Q3-Station J	Cl3-BZ#21/#33	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	21/20 & 33	sum of 21/20 and 33
Q3-Station J	Cl4-BZ#46	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	73/46	
Q3-Station J	Cl4-BZ#64	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	68/64	
Q3-Station J	Cl5-BZ#101/#84	MG/KG	0.0007	0.0018	0.0013	0.00093	0.0	0.00098	0.00072	101/90 & 89/84	see value for 89/84 below
Q3-Station J	Cl5-BZ#83	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	83/125/112	
Q3-Station J	Cl5-BZ#87	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	87/111	
Q3-Station J	Cl5-BZ#89	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	89/84	
Q3-Station J	Cl5-BZ#95	MG/KG	0.0	0.00058	0.00042	0.00035	0.0	0.0	0	121/95/88	
Q3-Station J	Cl6-BZ#130	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	130/164	
Q3-Station J	Cl6-BZ#138/#163	MG/KG	0.00047	0.0016	0.0011	0.00087	0.0	0.00078	0	138 & 163/160	sum of 138 and 163/160
Q3-Station J	Cl8-BZ#200	MG/KG	0.0	0.0	0.0	0.0	0.0	0.0	0	200/204	
Q3-Station J	Total PCB Congeners (CALC)	MG/KG	0.031	0.041	0.039	0.036	0.032	0.036	0.032		
Q3-Station J	Lipids	PERCENT	0.14	0.31	0.15	0.26	0.11	0.22	0.22		
Calculated	Cong_Sum	MG/KG	0.0012	0.0039	0.0028	0.0022	0.0	0.0018	0.00072		
Calculated	% of Total PCB (CALC)	Percent	3.8	9.6	7.2	6	0.0	5	2.3		

Notes:

0 zero denotes ND

Total PCB Congeners (CALC) = values represent the sum of all hits PLUS the sum of 0.5*RL for all non-detected congeners

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