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August 13, 2021

VIA EMAIL AND PRIVATE CARRIER

Gary Schold, Project Manager
Land Restoration Program
Land and Materials Administration
Maryland Department of the Environment
1800 Washington Boulevard, Suite 625
Baltimore, Maryland 21230

Subject: Transmittal of *In situ* sediment treatment Year Three Monitoring Report
Lockheed Martin Corporation – Middle River Complex
2323 Eastern Boulevard, Middle River, Baltimore County, Maryland

Dear Mr. Schold:

For your review, please find enclosed two hard copies of the above-referenced document. This report documents the third year of monitoring sediment contaminant bioaccumulation in areas where *in situ* treatment was implemented in the waterways adjacent to the Middle River Complex at 2323 Eastern Boulevard in Middle River, Maryland.

We respectfully request MDE's review comments or approval by the end of first quarter, 2022.

Please let me know if you have any questions. My office phone is (301) 548-2209.

Sincerely,

Thomas D. Blackman
Project Lead, Environmental Remediation

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IN SITU SEDIMENT TREATMENT YEAR THREE MONITORING REPORT
MIDDLE RIVER COMPLEX
2323 EASTERN BOULEVARD
MIDDLE RIVER, MARYLAND

Prepared for:
Lockheed Martin Corporation

Prepared by:
Tetra Tech, Inc.

August 2021

Approved by:
Lockheed Martin, Inc.

Revision: 0

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ACRONYMS AND ABBREVIATIONS

BSAF	biota-sediment accumulation factor
C13	carbon-13
DI	deionized
kg	kilogram
L	liter
Lockheed Martin	Lockheed Martin Corporation
µg	microgram
µg/g	microgram(s) per gram
mg/kg	milligram(s) per kilogram
mL	milliliter
MRC	Middle River Complex
ng/g	nanogram(s) per gram
ng/kg	nanogram(s) per kilogram
ng/L	nanogram(s) per liter
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PE	polyethylene
pg/g	picogram per gram
pg/L	picogram per liter
PRC	performance reference-compound
RBDAA	Risk-Based Disposal Approval Application
RPD	relative percent difference
Tetra Tech	Tetra Tech, Inc.
USEPA	United States Environmental Protection Agency

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SECTION 1
INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this report documenting the third year (Year Three) of monitoring sediment contaminant bioaccumulation in areas where *in situ* treatment was implemented in the waterways adjacent to the Middle River Complex (MRC) at 2323 Eastern Boulevard in Middle River, Maryland (see Figure 1-1). This report provides monitoring data obtained for benthic (i.e., sediment dwelling) invertebrates, porewater, surface water, and sediment; these data were used to evaluate and assess reductions in the bioavailability of polychlorinated biphenyls (PCBs) in areas where *in situ* treatment was implemented in Dark Head Cove adjacent to MRC. This report is organized as follows:

Section 2—Site and Remediation Background: Presents site background information and summarizes remediation actions conducted related to the *in situ* treatment.

Section 3—Investigation Approach, Methodology, and Results: Presents the technical approach to the investigation and describes the field methodology and chemical analyses.

Section 4—Summary: Summarizes the sampling investigation and results.

Section 5—References: Cites references used in compiling this document.

Appendix A— Field Logs: Presents the sample collection field logs.

Appendix B— 28-Day Laboratory Bioaccumulation Report: Presents the summary report of the 28-day bioaccumulation tests as prepared by the Tetra Tech, Owings Mills Laboratory.

Appendix C— Laboratory Data Packages: Includes the Vista Analytical and Alpha Analytical laboratory data packages.

Appendix D— Data Validation Reports: Presents data validation reports for the analytical data packages.

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SECTION 2
SITE AND REMEDIATION BACKGROUND

Past manufacturing and operational activities at the Middle River Complex (MRC) have resulted in elevated levels of metals, polychlorinated biphenyls (PCBs), and polycyclic aromatic hydrocarbons (PAHs) in sediment of the adjacent water bodies (i.e., Cow Pen Creek and Dark Head Cove) (Tetra Tech, 2006, 2008, 2011, and 2012). Elevated PCB levels in Dark Head Cove are a potential source of contamination to the aquatic food chain, as PCBs bioaccumulate in exposed organisms. Several *in situ* technologies were evaluated to reduce the potential ecosystem/human health impacts associated with PCB-contaminated sediment. Laboratory treatability testing in 2014 evaluated several carbon and treatment amendments to assess their effectiveness for reducing PCB bioavailability, and to reduce PAH and cadmium concentrations detected in sediment. Baseline data were collected in 2016, and contaminant concentrations in invertebrate tissue, in sediment porewater, and in surface water above the sediment surface were documented in areas proposed for *in situ* treatment of surface sediment.

After dredging and removal of adjacent areas of sediment was completed in Dark Head Cove between October 28 and December 6, 2017, approximately 2,500 tons of AquaGate®+, with a 10% content of powdered activated carbon, was placed over 13.7 acres in Dark Head Cove to amend the top 6 inches of surface sediment and to meet the targeted five percent loading of activated carbon. Confirmation sampling verified the initial placement of *in situ* treatment material over the targeted area (Tetra Tech, 2018a). The first year (Year One) monitoring of the *in situ* treatment area was completed in 2018 (Tetra Tech, 2019).

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SECTION 3
INVESTIGATION APPROACH, METHODOLOGY, AND RESULTS

This report provides third year (Year Three) bulk sediment, sediment porewater data, surface water, and bioaccumulation data for benthic (i.e., sediment dwelling) invertebrates (specifically, a freshwater oligochaete, *Lumbriculus variegatus*). These data were collected to monitor reductions in polychlorinated biphenyl (PCB) bioavailability originating from sediment in water bodies adjacent to the Middle River Complex (MRC). *In situ* treatment with activated carbon was implemented to reduce PCB bioavailability in sediment. During this investigation, bulk sediment and sediment cores were collected, and sediment passive-porewater samplers were deployed at the same five locations in Dark Head Cove where pretreatment baseline and Year One data had been collected and *in situ* remediation had been completed (see Figure 3-1). The following subsections describe activities associated with bioaccumulation testing and porewater sampling. Sampling and testing followed the procedures detailed in the *Long-Term In Situ Bioaccumulation Monitoring Work Plan and Quality Assurance Project Plan* (Tetra Tech, 2018b).

3.1 SEDIMENT SAMPLING

On October 1, 2020, bulk sediment was collected at each of five sampling locations for use in the 28-day bioaccumulation tests, and sediment cores were advanced for chemical and physical characterization. The bioaccumulation testing is described below in Section 3.2.2, and monitoring locations are shown on Figure 3-1. Global positioning system coordinates were recorded at each sampling location (Table 3-1). Each bulk sediment sample was homogenized in the field after collection, and again at the laboratory, before obtaining subsample aliquots for the 28-day tests. Duplicate samples were also collected from the homogenized bulk sediment for PCB congener analysis at Vista Analytical using United States Environmental Protection Agency (USEPA) Method 1668C.

At each bioaccumulation sampling location, three cores were advanced to a depth of 1.5 feet to recover sufficient sediment to collect over the targeted depth of 12 inches. Each core was logged, and discrete samples were collected from each core, at intervals of zero to 2 inches, 2 to 4 inches, 4 to 6 inches, and 6 to 12 inches. Composite samples for each depth interval were made by combining discrete samples from each of the three cores at each sampled location. Core composite samples were analyzed for grain size, total organic carbon, and black carbon. Table 3-2 summarizes the sampling rationale and chemical analyses performed for the sampling program. Field logs are provided in Appendix A.

Water quality measurements were obtained during sample collection to support laboratory setup of the bioaccumulation tests. Surface water was also collected from the site for laboratory use during the 28-day bioaccumulation tests. Water quality parameter results are presented in Table 3-3.

3.2 BIOACCUMULATION TESTING

3.2.1 Four-Day Toxicity Screening Test

An initial four-day toxicity-screening test of control and test sediment was conducted to determine the survival of test benthic organisms (i.e., *Lumbriculus variegatus*) exposed to sediment from each sampling location. The screening tests entailed establishing a control sediment sample and five replicates for each sediment sampling location; each was then inoculated with 10 test organisms and subjected to light and temperature control per the 28-day test protocols. Results of the screening test after four days show survival of *L. variegatus* did not differ significantly from the control sample, suggesting that the site sediment samples were nontoxic. Details of the toxicity screening tests are in Appendix B.

3.2.2 28-Day Bioaccumulation Test Setup and Procedures

Twenty-eight-day bioaccumulation tests were conducted using the five replicate samples of each bulk-sediment sample. Tests were initially performed from October 14 to November 11, 2020. Water quality monitoring of the test systems indicated that the site water used for testing had higher measurements for alkalinity, hardness, and salinity than observed during the 2018 (Year One) tests. At the completion of initial testing on November 11, 2020, the freshwater worms had not

survived over the 28-day testing period. Therefore, the 28-day bioaccumulation tests were reconducted from November 17, 2020 to December 15, 2020; this testing period was within the recommended 56-day holding time for bioaccumulation tests. Surface water collected from Dark Head Cove for use in the laboratory bioaccumulation tests was diluted to a salinity of approximately 2 parts per thousand to reduce worm mortality in subsequent testing. At the completion of the second 28-day test, all test setups had recoverable worms for tissue analysis.

For each test, mesocosms (test beakers) were prepared by transferring 1.2 kilograms (kg) of sediment to a two-liter (L) beaker with one liter of overlying site (surface) water. After the sediment had settled in the test beakers and the water quality parameters had stabilized, 1.3 grams of test organisms (obtained from Aquatic Biosystems of Fort Collins, Colorado) was added to each test beaker. During the 28-day test period, 750 milliliters (mL) of the water overlying the sediment was exchanged twice daily in each test beaker. Details for the 28-day bioaccumulation tests are included in Appendix B.

At the beginning of testing, a polyethylene (PE) passive sampling strip, prepared as outlined in Section 3.3.1, was added to the sediment to measure the sediment porewater in each of the bioaccumulation test mesocosms. The strip remained in the sediment for the entire 28-day test duration. At the completion of the test, the PE strip was retrieved, rinsed with deionized (DI) water, and wiped with a clean paper towel to remove adhering sediment and debris. All cleaning was carefully performed to minimize/avoid tearing or ripping the PE sheets. The PE sampler sheets were individually packaged in sampling containers with 1 mL of DI water. The samples were shipped overnight to Alpha Analytical for analysis.

3.2.3 Bioaccumulation Tissue-Sampling and Analyses

At the end of the 28-day bioaccumulation tests, the test organisms were collected from each of the five replicates, placed in fresh site water collected from Dark Head Cove, and allowed to depurate (i.e., eliminate excess solids) for 24 hours before being sampled for analysis. The individual tissue samples from each replicate were submitted to Vista Analytical for analysis of 209 PCB congeners using USEPA Method 1668C (high-resolution gas chromatography/high-resolution mass spectrometry). Each tissue sample was also analyzed for lipid content using a method for low-volume samples.

3.3 SEDIMENT PASSIVE PORE-WATER SAMPLING AND ANALYSES

Passive porewater samplers were deployed directly into the sediment on October 1, 2020, to monitor Year Three (2020) conditions *in situ* at the same five monitoring locations in Dark Head Cove from which baseline (2016) and Year One (2018) sediment had been collected for the bioaccumulation tests; these sampling locations were also where *in situ* remediation was completed as part of the remedial action (Figure 3-1). The passive samplers were left in the sediment for 28 days and were retrieved on October 29, 2020. Sediment porewater samples were collected to compare current dissolved PCB concentrations in sediment porewater at Year Three (2020) to the pre-remediation baseline data (2016) and the Year One monitoring data (2018). Passive samplers were added to the laboratory bioaccumulation tests to measure sediment porewater concentrations for the 28-day study duration. The passive samplers for the bioaccumulation tests were prepared and cleaned using the procedures outlined below for media preparation and *in situ* passive samplers. Thus, a comparison of both an *in situ* and *ex situ* method is available using this approach. Sampling medium preparation, deployment, retrieval, and analysis are described in the sections below. Figure 3-2 shows the *in situ* passive samplers used in the study, both pre- and post-deployment.

3.3.1 Passive-Sampler Media Preparation

Pieces of 1-mil (26-micrometer)-thick PE measuring 8 inches by 4 inches were prepared and precleaned by Alpha Analytical for use in passive-sampler deployment and testing. The PE sheets were cleaned using methylene chloride, followed by methanol, and finally by DI water. The cleaned sampling medium was then prepared by spiking it with five carbon-13 (C13)-labeled PCB congeners as performance reference-compounds (PRCs): C13-PCB28, C13-PCB52, C13-PCB101, C13-PCB153, and C13-PCB159.

For verification and quality control, nine samples of prepared PE sheets were extracted and analyzed following the PRC spiking. The percent relative standard deviations for PRC concentrations on sampler media are shown in Table 3-4. The precision of the PRC-spiked PE sheets used for the sampling met the target criterion of 10%. The PE sheets were individually packed in clean sample jars with approximately 1 mL of DI water to keep the medium moist, and

then shipped on ice to Tetra Tech's Owings Mills laboratory for deployment at the site and for use in the 28-day bioaccumulation tests.

3.3.2 Dark Head Cove Sediment Passive-Porewater Sampling Deployment and Retrieval

Passive porewater samplers were deployed at the five locations across Dark Head Cove (Figure 3-1). Three replicate samplers were placed within the top 4 inches of sediment at each location. Each cleaned PE sheet (inoculated with PRCs) was attached to a stainless-steel frame with wire mesh tied over the top to keep the sampling medium in place across the frame. The passive samplers were mounted to a weighted support frame so that they would be held vertically for insertion into the sediment to a depth of four inches (Figure 3-2). The passive-sampling support frames, with attached samplers, were deployed from a boat, submerged, and placed in the sediment. At each passive-sampling location, another PE sheet was attached to the frame approximately 9 to 12 inches above its base; this was done to monitor the overlying water concentrations just above the sediment surface.

The passive porewater samplers were retrieved after 28 days, using the following steps: 1) the support block for the samplers was pulled up to the boat using the recovery line that had been run to secure tie-off locations along the shore, and samplers were inspected for integrity; 2) the passive samplers were removed from the support frames and cleaned in the field by rinsing with site water; and 3) the samplers were transported to Tetra Tech's Owings Mills laboratory for cleaning and then packaged for shipment to Alpha Analytical for PCB congener analysis. Passive samplers were not recovered from monitoring location 301. During the sampler retrieval, the lead-lined security rope was found severed between the shoreline and sampler. Attempts to locate the sampler in the deployment area were not successful.

The passive samplers were cleaned at Tetra Tech's Owings Mills laboratory by rinsing them with DI water, wiping them with a clean paper towel to remove adhering sediment and debris, and scrubbing them with dedicated clean brushes to remove any remaining material. All cleaning was carefully performed to avoid tearing/ripping the PE material. Sampler PE sheets were then individually packaged in the sampling containers in which they were delivered from the laboratory with 1 mL of DI water, and shipped overnight to the laboratory for analysis. One PE sheet was kept

as a field-blank/trip-blank sample and sealed for the duration of the monitoring period with ice to monitor the stability of the PRCs, as well as to monitor for any potential contamination from sample handling. The PE field-blank/trip-blank was submitted for analysis along with the field PE samples.

3.3.3 Passive Porewater Sample Analysis

The passive porewater samplers were analyzed at the Alpha Analytical laboratory for 209 PCB congeners using gas chromatography/low-resolution mass-spectrometry (USEPA Method 8270-SIM, modified). PCBs in the PE sheets were extracted with methylene chloride in clean jars/flasks for 24 hours using gentle agitation. Surrogate compounds were added to individual extraction vessels containing one PE sheet before adding solvent. A laboratory blank sample, along with a laboratory control spike sample and laboratory control spike duplicate sample, were analyzed with each batch of PE sheets. After extraction, the PE sheets were air dried and weighed, and the extract was analyzed; results were reported as micrograms (µg) of PCB congener per kilogram (kg) of PE. Sampling results were subsequently converted to porewater concentrations using the calculations described in Section 3.5.

3.4 DATA QUALITY OBJECTIVE AND DATA REVIEW

Benthic tissue data, bulk-sediment data, and sediment porewater data were collected during this investigation to compare Year Three (2020) results to baseline (2016) and Year One (2018) monitoring results. Samples were labeled as specified in the quality assurance project plan (Tetra Tech, 2016). Tissue, sediment, and porewater sampling results were reviewed and validated to identify any quality control or data usability issues. The analytical data were reviewed upon receipt for data completeness, laboratory and field-blank contamination, sample detection limits, and laboratory precision and accuracy. One of the field duplicate pairs (at location 301) for the bulk sediment total PCB analysis had an RPD of 189%. All PCB results for bulk sediment at location SD-301 were qualified as estimated. Collected and reported data for sediment sampling and tissue samples were 100% valid and usable.

Sediment and tissue samples were analyzed for PCB congeners using USEPA Method 1668C by Vista Analytical of El Dorado Hills, California. Sediment samples were analyzed for black carbon, total organic carbon, and grain size by Alpha Analytical of Mansfield, Massachusetts. Porewater

samples were also analyzed by Alpha Analytical using USEPA Method 8270D-SIM modified for analysis of all 209 PCB congeners. The laboratories reported all required sample and quality control data associated with these samples. The laboratory quality control results for method blanks, laboratory control samples, and sample surrogates were all found acceptable, and demonstrate that sample analysis procedures were in compliance and had produced usable data for project purposes. Laboratory data results are in Appendix C. Laboratory data validation reports are in Appendix D.

3.5 SAMPLING RESULTS

This section presents the results of the most current (Year Three) bioaccumulation sampling, conducted in 2020, to evaluate PCB bioaccumulation and porewater concentrations, and to compare these data to baseline conditions documented in 2016, before *in situ* treatment of sediment via the addition of activated carbon amendments, and to the Year One (2018) monitoring results.

Samples were collected as specified in Sections 3.1, 3.2, and 3.3. Bulk sediment and tissue samples were analyzed for total PCB congeners by USEPA Method 1668C, and sediment porewater and surface water from passive samplers were analyzed by modified method 8270D-SIM. Sediment samples were collected in duplicate from the homogenized bulk sediment for analysis. The collection of replicates for bioaccumulation testing and for porewater sampling provides multiple tests to more accurately quantify PCB bioavailability in site sediment.

3.5.1 Sediment Sampling Results

Results for bulk sediment samples are provided in Tables 3-5 and 3-6. Average PCB concentrations (of the original and duplicate samples) in bulk sediment range from 282 µg/kg (SD-301) to 1,700 µg/kg (SD-303).

Results for total organic carbon and black carbon for Year Three (2020) only are provided in Table 3-7, and on Figure 3-3 (baseline), Figure 3-4a (Year One [2018]), and Figure 3-4b (Year Three). The total organic carbon content in the core sediment-sampling intervals collected in 2020 ranges from 1.13% to 14.5%, while black-carbon content ranges from less than 0.01% to 1.52%.

3.5.2 Bioaccumulation Tissue Results

Tissue samples were collected from the laboratory 28-day bioaccumulation test for analysis of PCB congeners by USEPA Method 1668C and lipid content. The lipid-normalized PCB results are adjusted by dividing the PCB concentrations by the reported lipid content to provide PCB concentrations per gram of lipid. Lipid-normalized concentrations provide means to compare results if the PCB uptake is driven by test organism lipid content. Overall lipid content ranged from 0.4% to 1.4% (see Table 3-8).

Total PCB concentrations in individual tissue samples collected in 2020 ranged from 0.00159 micrograms per gram (µg/g) to 0.0162 µg/g wet weight. Figures 3-5 and 3-6 compare baseline (2016), Year One (2018), and Year Three (2020) wet weight- and lipid-normalized (respectively) bioaccumulation tissue concentrations. The control samples (those not exposed to contaminated sediment) had wet weight PCB concentrations of 0.00216 µg/g and 0.00229 µg/g. Benthic tissue sample results for Year Three (2020) are in Table 3-9.

3.5.3 Porewater and Surface-Water Sampling Results

Dissolved PCB concentrations in sediment porewater were determined from the PE sampler results using PRC recoveries. PRC recoveries indicate the degree to which the samplers equilibrated with the sediment porewater during the 28-day deployment, and are based on the relationship between porewater, the sampling medium, and the partition coefficient for each congener. Porewater concentrations for PCB congeners account for the fraction of equilibrium achieved and are estimated by correcting the sampler concentration and the state of equilibrium for each congener.

The water-PE exchange rate for PCB congeners is calculated based on the fraction of PRCs retained on the sampler, the length of exposure (28 days), and the PE-water partition coefficient for each PCB congener. The PE-water exchange rates are used to determine the exchange rate for each individual PCB congener by conducting a regression of equilibrium state to the congener partition coefficient. The exchange rates are then used to determine the contaminant concentrations in sediment porewater and overlying water, as shown in the equation below:

$$C_w = (C_{pe}/(1\text{-}Fr))/K_{pew}\ (ng/L)$$

where:

C_w = dissolved concentration in the porewater (nanograms per liter [ng/L])
C_{pe} = concentration in the PE sampler (nanograms per kilogram [ng/kg])
K_{pew} = polyethylene/water partition coefficient (kilograms per liter)
Fr = fraction retained

Year Three (2020) total dissolved PCB concentrations from individual samples collected at *in situ* sediment porewater monitoring locations range from 0.219 ng/L to 0.452 ng/L. Dissolved total PCB concentrations in near-sediment surface water samples range from 0.304 ng/L to 0.389 ng/L. PCB results for *in situ* porewater and near-sediment surface water samples are summarized in Table 3-10 and Figure 3-7. PCB results measured in the sediment porewater of study beakers (i.e., *ex situ*) during the bioaccumulation study ranged from 0.025 ng/L to 0.334 ng/L for the individual test setups; these results are summarized in Table 3-11 and Figure 3-8.

Table 3-12 contains average sediment porewater and near sediment surface water PCB concentrations measured at baseline (2016), Year One (2018), and Year Three (2020), and Table 3-13 includes average *ex situ* bioaccumulation test porewater PCB concentrations measured at baseline (2016), Year One (2018), and Year Three (2020). As shown in these tables, site-wide average PCB concentrations in *in situ* porewater (25.6 ng/L at baseline, 0.89 ng/L in 2018, and 0.37 ng/L in 2020) are similar to those detected in the *ex situ* bioaccumulation study (25.2 ng/L at baseline, 0.77 ng/L in 2018, and 0.13 ng/L in 2020). Average concentrations for total PCBs in surface water samples collected from near the sediment at the monitoring locations in Dark Head Cove went from 14.5 ng/L at baseline to 4.1 ng/L at Year One and 0.344 ng/L at Year Three. Tables 3-12 and 3-13 also show that significant reductions in average PCB concentrations have occurred from baseline (2016) conditions.

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SECTION 4
SUMMARY

4.1 OVERVIEW

Activated carbon was applied to the surface sediment across 13.7 acres of Dark Head Cove in 2017. In October 2020, sediment and sediment porewater samples were collected to assess the effectiveness of this *in situ* sediment treatment three years after application. In 2016, before activated carbon was applied to Dark Head Cove, baseline sampling for benthic organism bioaccumulation of polychlorinated biphenyls (PCBs) and measurement of sediment porewater PCB concentrations were completed (Tetra Tech, 2017). This section presents the evaluation of the third year (Year Three, 2020) data, as compared to the baseline (2016) and the Year One (2018) data and assesses the effectiveness of the *in situ* treatment.

4.2 COMPARISON BASELINE TO YEAR THREE

As shown in Table 4-1, location-specific average PCB concentrations (i.e., the average of the original and duplicate samples at each monitoring station) in bulk sediment samples in 2020 ranged from 0.27 milligram per kilogram (mg/kg) to 1.7 mg/kg, with an overall site average of 0.824 mg/kg. The relative percent differences (RPDs) between paired (original and duplicate) concentrations in 2020 (Year Three) in four of five pairs are less than 10% (locations 302, 303, 304, 305), while the one remaining set of duplicates (at location 301) had an RPD of 189% (see Table 4-1). The high variability at this site was attributed to matrix variability. Bulk sediment concentrations in Year One and Year Three are reduced at all five monitoring locations due to the addition of aggregate from the *in situ* amendment.

Significant reductions in average PCB concentrations in bioaccumulation tissues and sediment porewater have occurred from baseline (2016) conditions to Year Three (2020).

- Average total PCB concentration in *in situ* porewater went from 25.6 nanograms per liter (ng/L) at baseline to 0.373 ng/L in 2020 (see Table 3-12).

- Average concentrations for surface water samples collected approximately 1 foot above the sediment at the monitoring locations went from 14.5 ng/L at baseline to 4.1 ng/L at Year One and 0.344 ng/L at Year Three.
- Average concentrations in sediment porewater during bioaccumulation testing also reduced from baseline (25.2 ng/L) to 2020 (0.128 ng/L).

Overall percent reductions in concentrations in Year Three (2020), as compared to baseline (2016), are approximately 98.5% for *in situ* porewater (range of 96.5% to 99.5%), 99.5% for *ex situ* bioaccumulation study porewater (range of 98.7% to 99.8%; see Table 3-13), and approximately 97.5% for surface water (range of 97.0% to 98.5%; see Table 3-12).

Table 4-2 compares 28-day bioaccumulation test results at baseline (2016) to those obtained at Year Three (2020). Across the five locations, the overall average PCB concentration in benthic tissue samples in Year Three (2020) samples is 0.0052 microgram per gram (µg/g) wet weight, while the baseline concentration (2016) was 0.429 µg/g wet weight. This represents an average reduction of 98.7% (Table 4-2) on a wet weight basis from 2016 to 2020, with reductions at individual monitoring stations ranging from 93.9% to 99.6%. Likewise, the overall average PCB concentrations in 2020, normalized to lipid content, is 0.665 nanograms per gram (ng/g lipid), as compared to the baseline (2016) average of 111 ng/g, representing an overall reduction of 99.4% (individual station ranges between 98.6% and 99.8%).

Table 4-3 includes average biota-sediment accumulation factors (BSAFs) calculated for each sampling location. These accumulation factors can be used to estimate the potential for uptake of contaminants from sediment to biota. The biota-sediment accumulation factor is calculated by dividing the tissue concentration per weight lipid by the sediment concentration per weight organic carbon. Baseline (2016) values range from 1.27 to 2.14, with an average of 1.65 across the site, while Year Three (2020) values range from 0.0132 to 0.158, with an average of 0.0645 across the site. At Year One (2018), the BSAF values ranged from 0.082 to 0.317. The average percent reduction in the biota-sediment accumulation factor for Year Three, relative to baseline data, is 96.1%, with a range from 92.6% to 99.2% (Table 4-3).

4.3 DISCUSSION OF TRENDS

A comparison of Year Three (2020) to baseline (2016) monitoring data shows that *in situ* treatment of Dark Head Cove sediment is effectively reducing PCB concentrations in sediment porewater and in bioaccumulation tissue. As stated earlier, PCB concentrations have reduced by approximately 98.5% from baseline, in both *in situ* sediment porewater and bioaccumulation test *ex situ* porewater. Concentrations in bioaccumulation tissue have also markedly reduced (99%) from baseline. Reductions in tissue and pore water concentrations at Year Three are consistent and on average greater than observed at Year One demonstrating stability and potential continued effectiveness of the *in situ* sediment remedy. The remediation goal established for sediment porewater was an 80% reduction, while the remediation goal for invertebrate tissue was 70%. The reduction in the overall biota-sediment accumulation factor calculated for invertebrates is 96.1% (see Table 4-3). Therefore, remediation goals for both invertebrate bioaccumulation and sediment porewater (via *in situ* treatment with activated carbon) have been met based on the results of the most recent Year Three (2020) monitoring.

On August 29, 2016, the United States Environmental Protection Agency (USEPA) provided a conditional approval for the *in situ* treatment of PCB-contaminated sediment in Dark Head Cove for the Middle River Complex (USEPA, 2016). The Risk-Based Disposal Approval Application (RBDAA) established a goal for the *in situ* sediment treatment with activated carbon to reduce the bioavailability of PCBs in sediment to benthic organisms by at least 70% as measured in worm tissue and 80% as measured in pore water within five years after application. If monitoring results indicate that the *in situ* treatment has approximately achieved the goals of 70% reduction in bioaccumulation in benthic tissue and 80% in the pore water concentrations based on a weight of evidence, the *in situ* treatment's effectiveness will have been confirmed and the USEPA will be notified that the remedy is complete. Monitoring results in Year Three (2020) for the *in situ* sediment treatment demonstrate that the *in situ* sediment treatment has met the goals for reducing PCB bioavailability to benthic organisms, and the *in situ* sediment treatment remedy is complete. Based on the achievement of the *in situ* treatment goals, as demonstrated by Year Three (2020) results, Lockheed Martin requests that the USEPA's conditional approval for the RBDAA submitted on June 16, 2016 be converted to a final approval by USEPA.

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FIGURES

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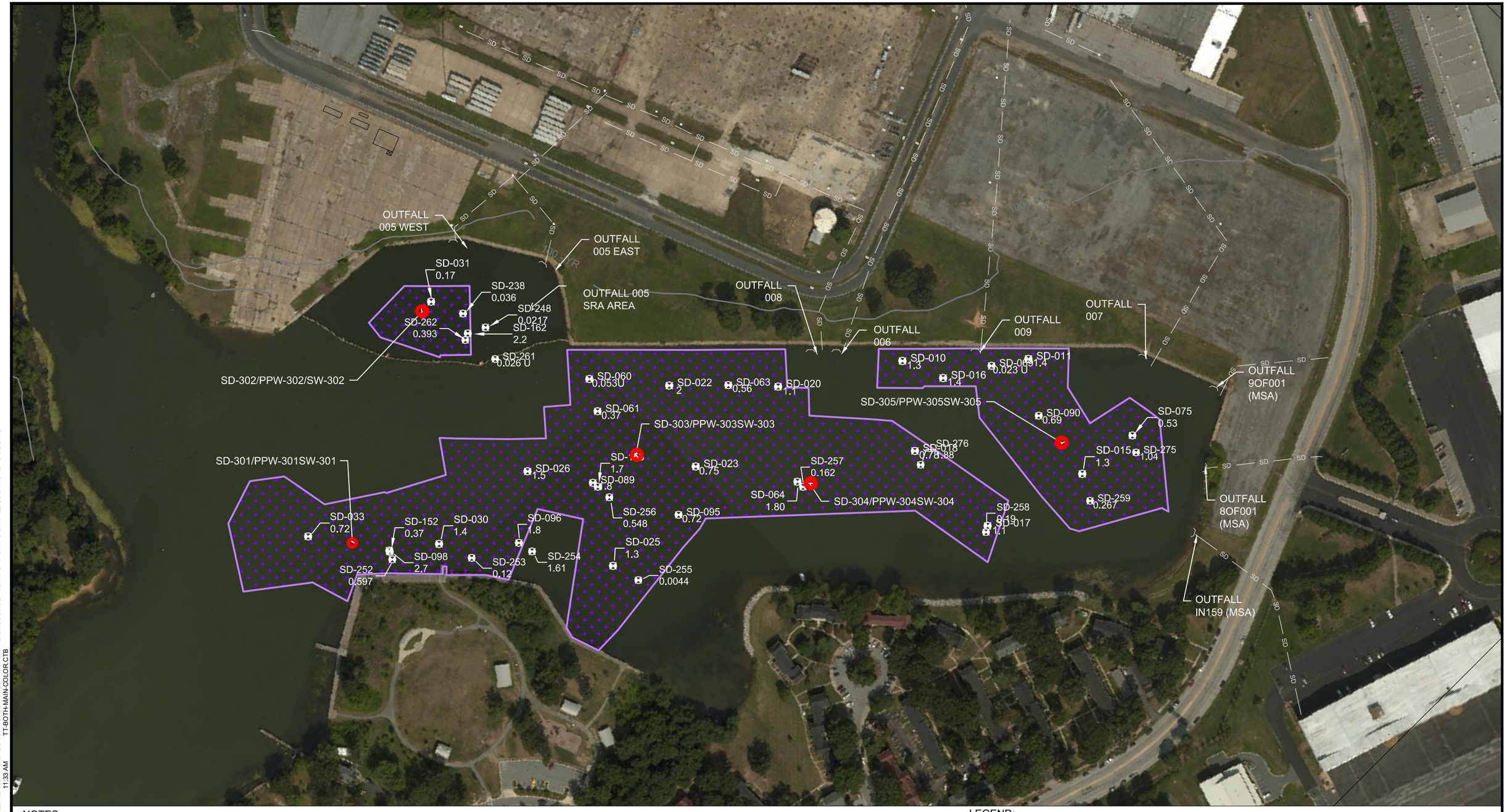
FIGURE 1-1
MIDDLE RIVER COMPLEX
LOCATION MAP

Lockheed Martin Middle River Complex
Middle River, Maryland

DATE:		DRAFTED BY:
5/29/2019	TETRA TECH	MJW



NOTES:

1. *IN SITU* TREATMENT AREA: 13.7 ACRES.
2. SEDIMENT SAMPLES PCB DATA COLLECTED JUNE 10-20, 2014.

LEGEND:

- STORM DRAIN OUTFALL
- *IN SITU* TREATMENT AREA
- STORM DRAIN SYSTEM
- BIOACCUMULATION MONITORING STATION
- SAMPLE ID PCB DATA (PPM)

TETRA TECH

0' 200' 400'

LOCKHEED MARTIN MIDDLE RIVER COMPLEX
MIDDLE RIVER, MD

FIGURE 3-1
IN SITU BIOACCUMULATION SAMPLE LOCATIONS

Z:\PROJECTS\LOCKHEED - MIDDLE RIVER COMPLEX\FULL REMEDY FIGURES CDM\.SHEET FILES\FIGURE 3-1 BIOACCUMULATION MONITORING SAMPLE LOCATIONS - DHC.DWG
PLOT DETAILS: REISTER, CAMERON June 5, 2019 11:33 AM TT-BOTH-MAIN-COLOR.CTB

Figure 3-2 Passive Porewater Sampler, Pre- and Post-Deployment

Passive sediment-samplers pre-deployment

Recovered passive sediment porewater samplers

Figure 3-3 Baseline Data—Total Organic Carbon, % Dry Weight (% dry wt)

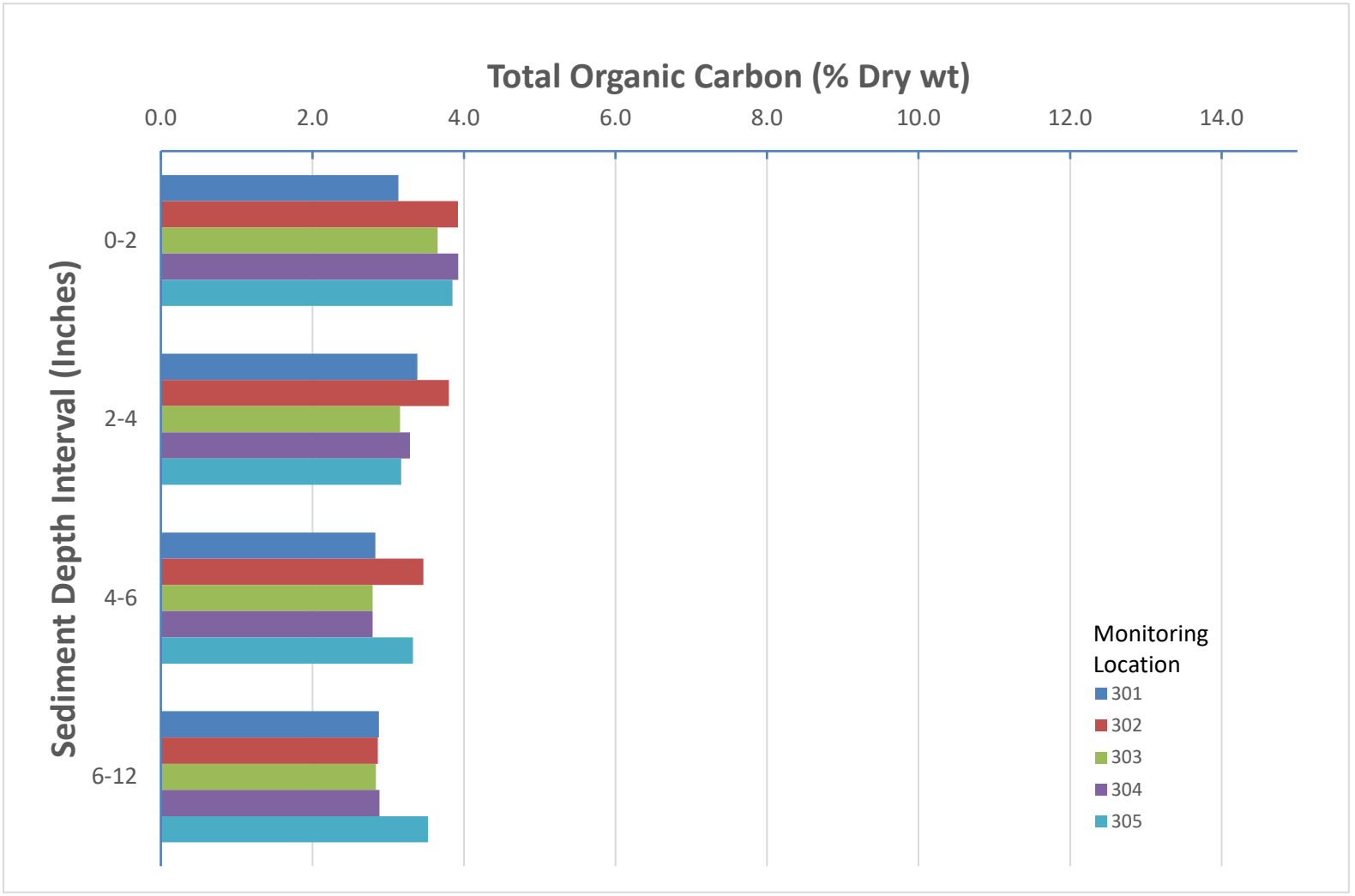


Figure 3-4a Year One Data—Total Organic Carbon, % Dry Weight (% dry wt)

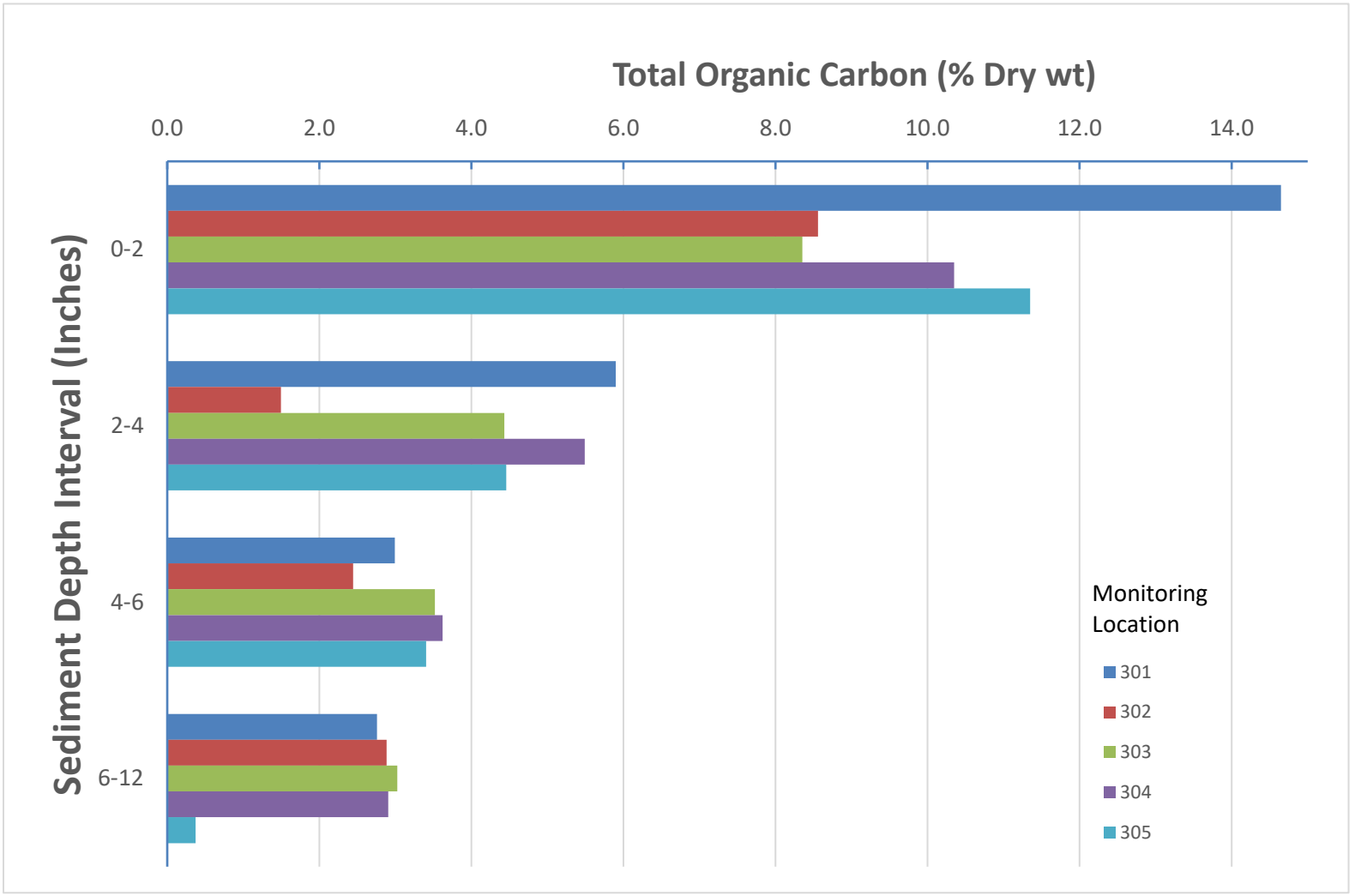


Figure 3-4b Year Three Data—Total Organic Carbon, % Dry Weight (% dry wt)

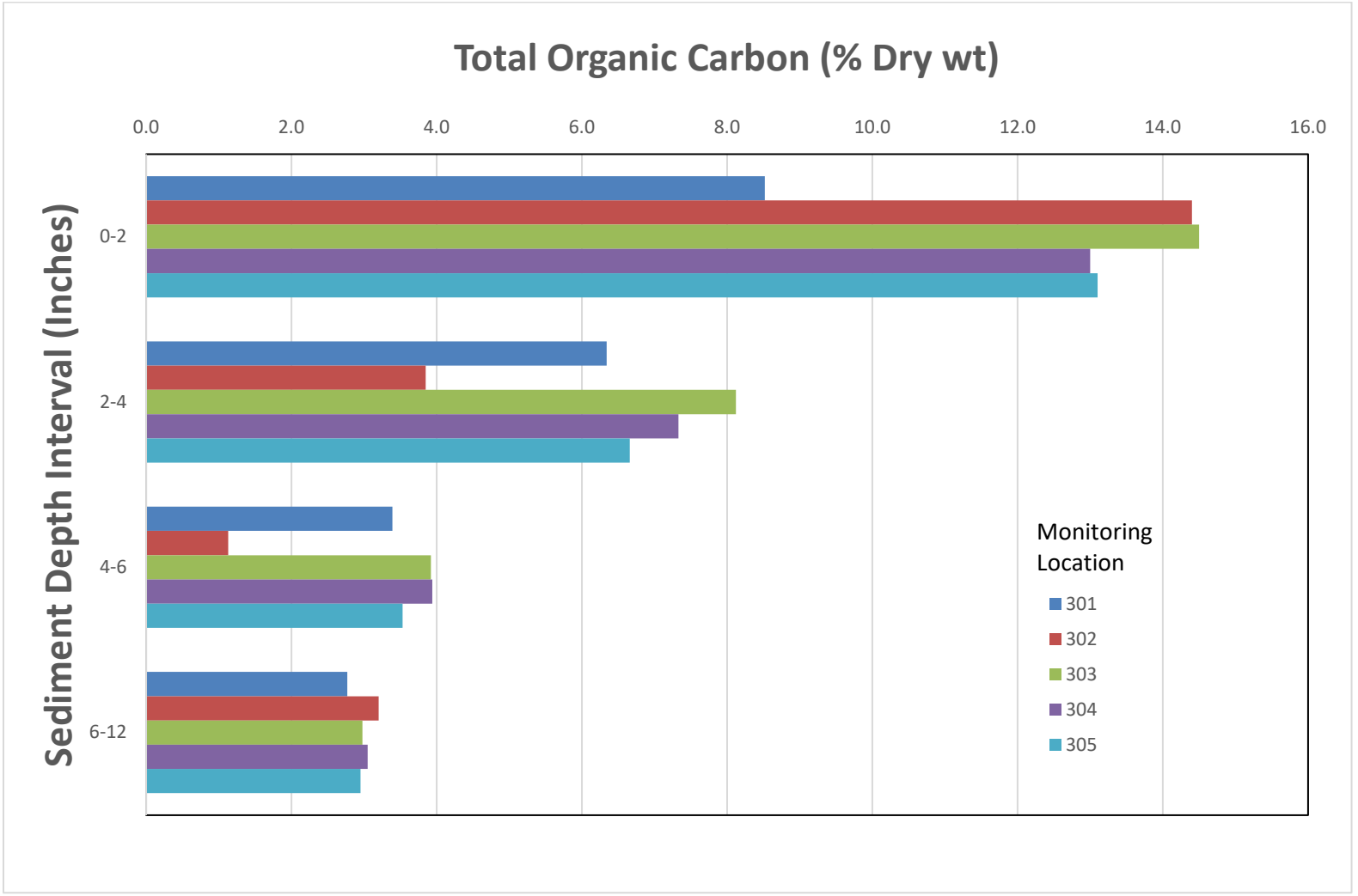
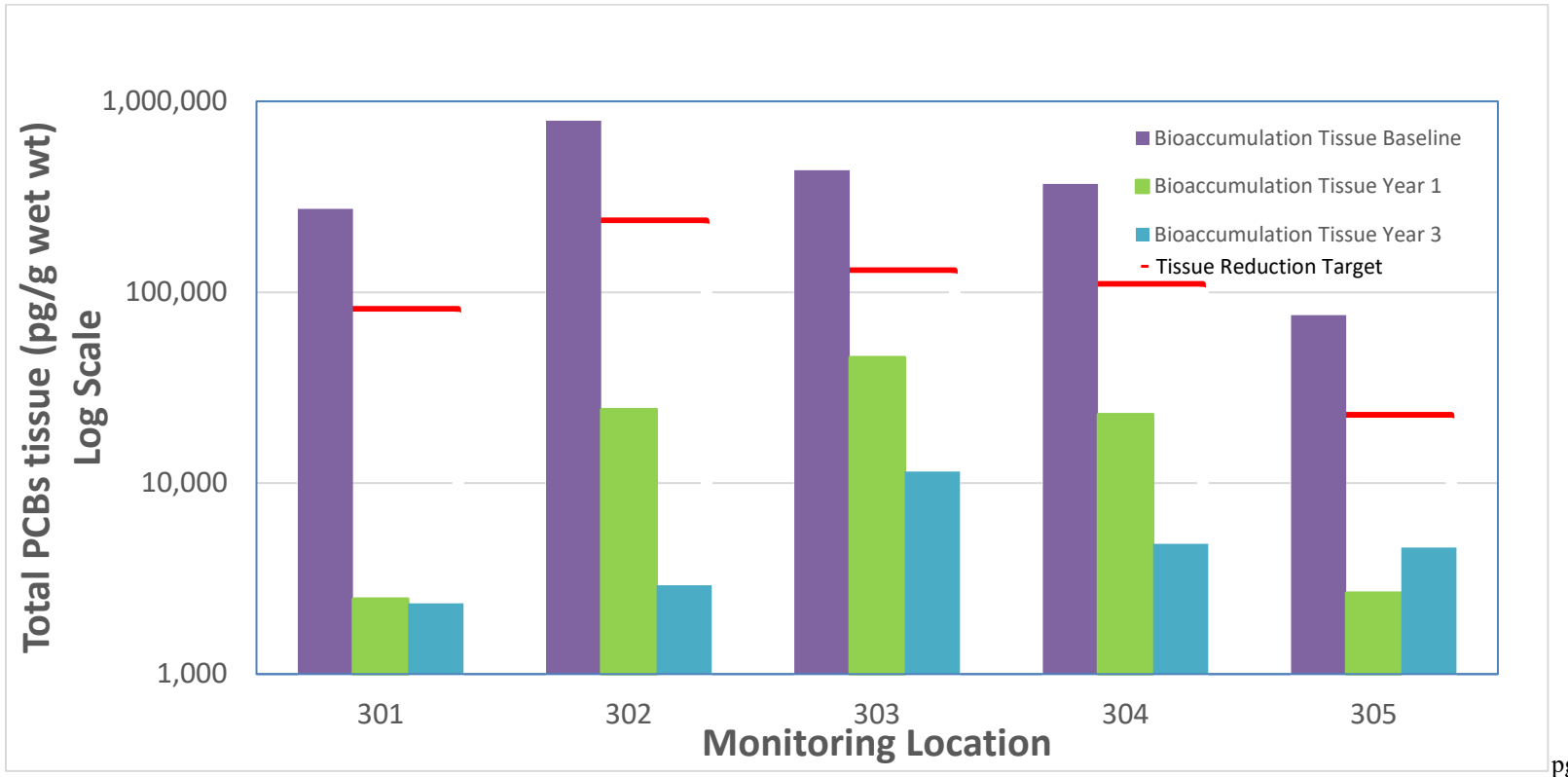
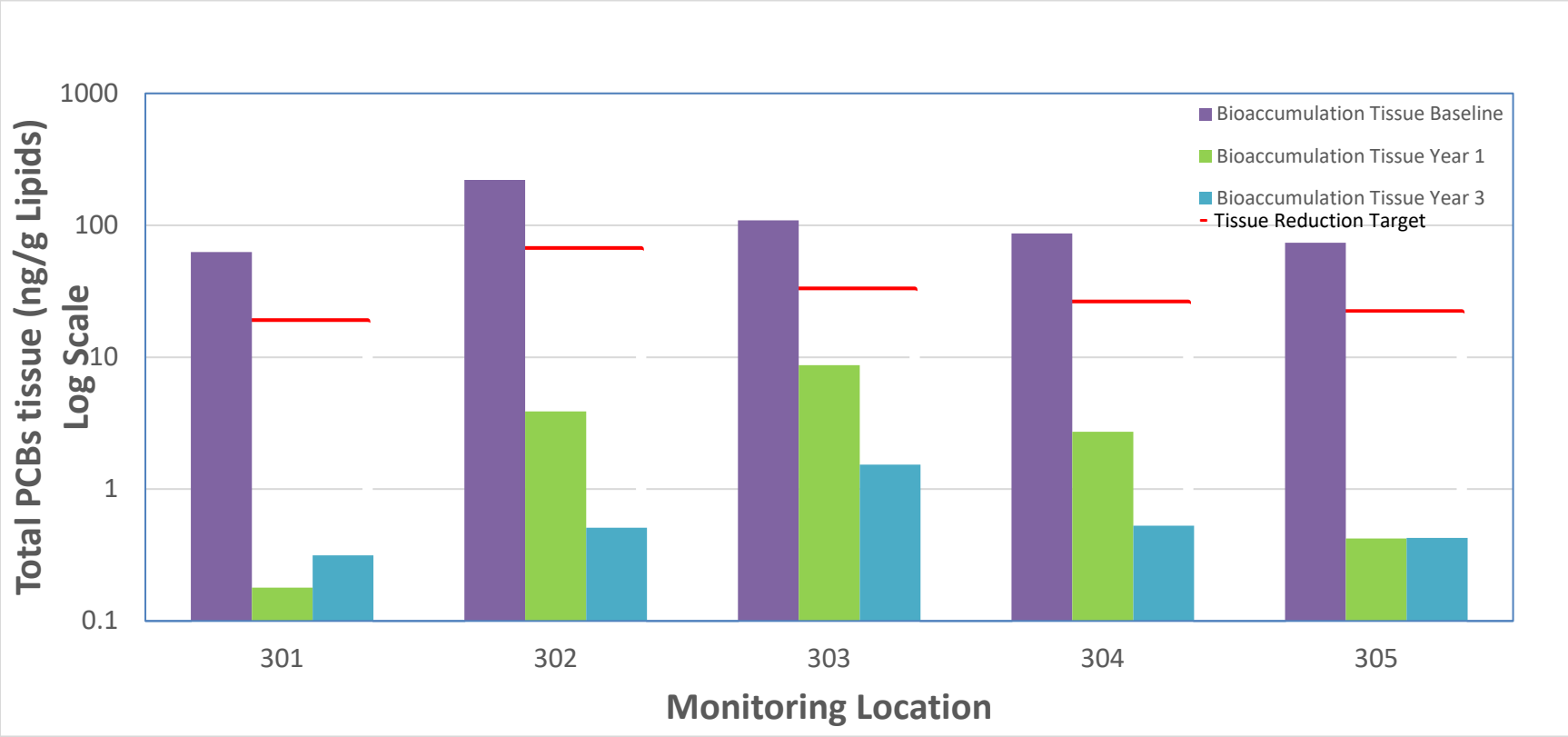


Figure 3-5 Bioaccumulation Tissue Concentrations—Total PCBs Wet Weight



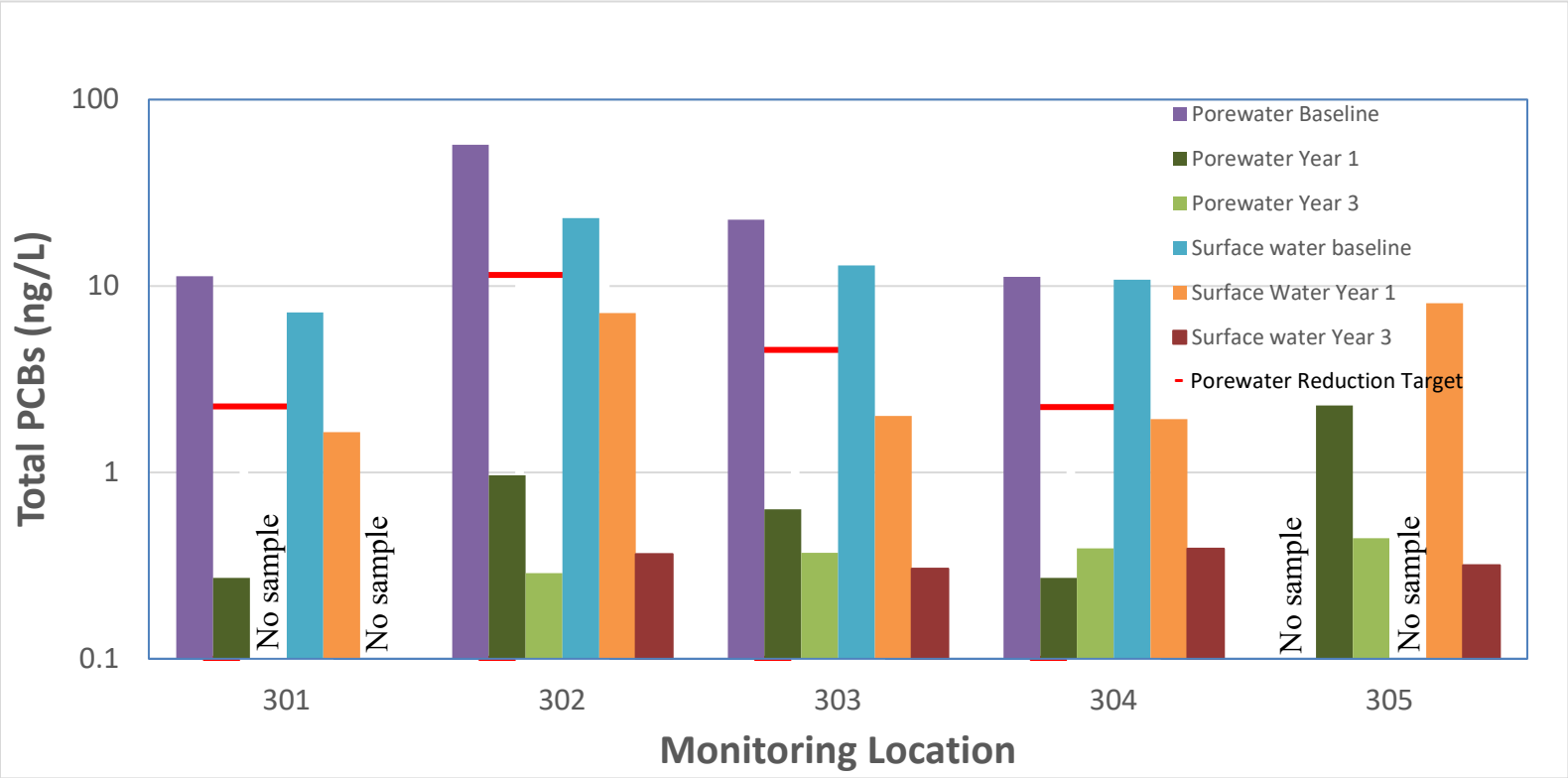
pg/g – picograms per gram

Figure 3-6 Bioaccumulation Tissue—Total PCBs Lipids



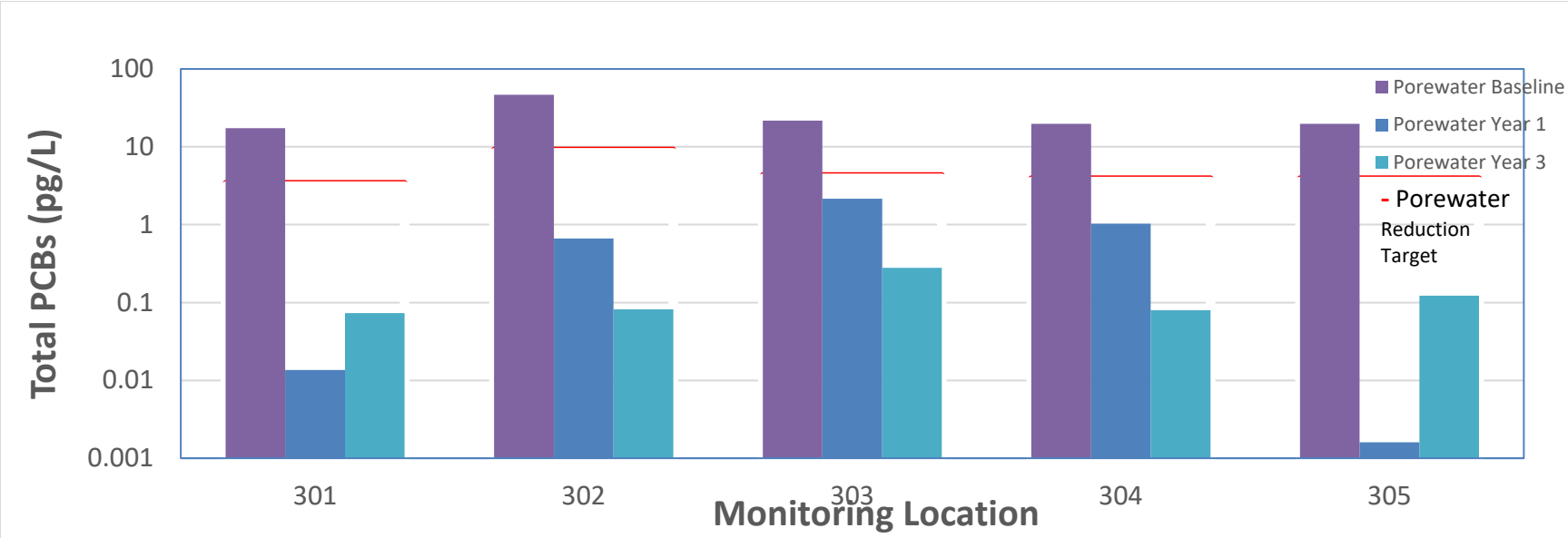
ng/g – nanograms per gram; PCBs – polychlorinated biphenyls

Figure 3-7 *In Situ* Porewater and Surface Water—Total PCBs



ng/L – nanograms per liter; PCBs – polychlorinated biphenyls

Figure 3-8 *Ex Situ* Porewater—Total PCBs



ng/L – nanograms per liter; PCBs – polychlorinated biphenyls; pg/L – picogram per liter

TABLES

Table 3-1

Bioaccumulation-Sampling Locations and Passive-Sampler Deployment and Retrieval Dates—Dark Head Cove, 2020

Lockheed Martin Middle River Complex, Middle River, Maryland

Location	Northing	Easting	Deployed	Retrieved	Samples
SD-301	604140.93	1474027.46	10/01/2020	Sample retrieval line severed (not recovered)	SD-301_BULK_A, SD-301_BULK_B, SD-301_ 0-2, SD-301_ 2-4, SD-301_ 4-6, SD-301_ 6-12, SD-301_SURFACE, 301-A, 301-B, 301-C, 301-D, 301-E
SD-302	604611.86	1473777.59	10/01/2020	10/29/2020	SD-302_BULK_A, SD-302-BULK_B, SD-302_ 0-2, SD-302_ 2-4, SD-302_ 4-6, SD-302_ 6-12, SD-302_SURFACE, SD-302_PORE(A), SD-302_PORE(B), SD-302_PORE(C), SD_302_Surface 302-A, 302-B, 302-C, 302-D, 302-E
SD-303	604723.86	1474312.22	10/01/2020	10/29/2020	SD-303_BULK_A, SD-303_BULK_B, SD-303_ 0-2, SD-303_ 2-4, SD-303_ 4-6, SD-303_ 6-12, SD-303_SURFACE, SD-303_PORE(A), SD-303_PORE(B), SD-303_PORE(C), SD_303_Surface 303-A, 303-B, 303-C, 303-D, 303-E
SD-304	604938.88	1474630.74	10/01/2020	10/29/2020	SD-304_BULK_A, SD-304_BULK_B, SD-304_ 0-2, SD-304_ 2-4, SD-304_ 4-6, SD-304_ 6-12, SD-304_SURFACE, SD-304_PORE(A), SD-304_PORE(B), SD-304_PORE(C), SD_304_Surface 304-A304-B304-C, 304-D, 304-E
SD-305	605375.29	1474941.46	10/01/2020	10/29/2020	SD-305_BULK_A, SD-305_BULK_B, SD-305_ 0-2, SD-305- 2-4, SD-305_ 4-6, SD-305_ 6-12, SD-305_SURFACE, SD-305_PORE(A), SD-305_PORE(B), SD-305_PORE(C), SD_305_Surface 305-A, 305-B, 305-C, 305-D, 305-E

Table 3-2

Bioaccumulation and Porewater Sampling and Chemical Analyses—Dark Head Cove, 2020

Lockheed Martin Middle River Complex, Middle River, Maryland

Media	Location	Sampling Depth and Collection Method	Sample Analyses and Methods	Rationale/Purpose
Sediment	Dark Head Cove *in situ* treatment area	Three cores to 18 inches at each of five sampling locations; sediment samples were collected from depth intervals of 0–2 inches, 2–4 inches, 4–6 inches, and 6–12 inches. At each sampling location, the intervals from the three cores were composited to make one sample per sample interval (four samples per sampling location were collected).	Laboratory analyses: TOC by USEPA Lloyd Kahn method (Kahn, 1988): grain size (ASTM D422); and black carbon (Grossman and Ghosh, 2009)	Area(s) with *in situ* treatment. Collection of bulk sediment samples for characterization to use with the baseline bioaccumulation study and the in situ porewater sampling.
Sediment	Dark Head Cove *in situ* treatment area	Bulk surface-sediment was collected using a petite Ponar grab-sampling device. A minimum of five liters of sediment was collected from each sampling location.	*Ex situ* bioaccumulation testing according to Tetra Tech SOP TT-BRF/TX-SOP-O-075. Laboratory analyses: PCBs congeners by GC/HRMS (USEPA Method 1668C); TOC by USEPA Lloyd Kahn method: black carbon (Grossman and Ghosh, 2009); grain size (ASTM D422); and moisture content (ASTM D2974-87)	Area(s) with *in situ* treatment. The bulk sediment samples were homogenized and split for replicate bioaccumulation testing at Tetra Tech's Owings Mill laboratory.
Tissue	Bioaccumulation test laboratory	Collected tissue samples from five bioaccumulation replicate mesocosms from each sampling location.	Laboratory analyses: PCB congeners by GC/HRMS (USEPA Method 1668C) Lipids by Tetra Tech SOP TT-BRF/TX-SOP-O-077	Benthic worm-tissue from the bioaccumulation mesocosms to determine the amount of PCBs taken up from site sediments.

ASTM = American Society for Testing and Materials
GC/HRMS = gas chromatograph/high-resolution mass spectrometry
GC/LRMS = gas chromatograph/low-resolution mass spectrometry
PCBs = polychlorinated biphenyls
PPW = passive porewater
SOP = standard operating procedure
TOC = total organic carbon
USEPA = United States Environmental Protection Agency

Table 3-2

Bioaccumulation and Porewater Sampling and Chemical Analyses—Dark Head Cove, 2020

Lockheed Martin Middle River Complex, Middle River, Maryland

Media	Location	Sampling Depth and Collection Method	Sample Analyses and Methods	Rationales/Purpose
Porewater	Bioaccumulation test laboratory	One passive sampler placed in the sediments for each of the bioaccumulation mesocosms.	Laboratory analyses: PCB congeners by GC/LRMS (USEPA SW846 Method 8270D-SIM)	Sediment porewater samples from the *ex situ* bioaccumulation mesocosms to measure the concentration of dissolved PCBs in the laboratory exposures.
Porewater	Dark Head Cove *in situ* treatment area	Three passive samplers were inserted at each of the five locations to approximately 4 inches below the mudline at each sampling location.	Laboratory analyses: PCB congeners by GC/LRMS (USEPA SW846 Method 8270D-SIM)	Area(s) with *in situ* treatment collocated in areas of the bulk sediment sampling for the sediment characterization and the *ex situ* laboratory bioaccumulation study.
Surface water	Dark Head Cove *in situ* treatment area	One passive sampler was deployed in the water column at each of the five locations at approximately 1 foot above the sediment mudline at each sampling location.	Laboratory analyses: PCB congeners by GC/LRMS (USEPA SW846 Method 8270D-SIM)	Surface water samplers collocated with the passive sediment samplers to collect dissolved-phase PCBs in the overlying surface water.

ASTM = American Society for Testing and Materials
GC/HRMS = gas chromatograph/high-resolution mass spectrometry
GC/LRMS = gas chromatograph/low-resolution mass spectrometry
PCBs = polychlorinated biphenyls
PPW = passive porewater
SOP = standard operating procedure
TOC = total organic carbon
USEPA = United States Environmental Protection Agency

Table 3-3

Water Quality Measurements—Dark Head Cove, 2020

Lockheed Martin Middle River Complex, Middle River, Maryland

Location	Temp (°C)	pH	ORP	Conductivity (ms/cm)	DO (mg/L)	Salinity (ppt)	Turbidity (NTU)
301	21.4	8.13	189	10.1	10.7	6.16	4.2
302	21.4	7.83	188	10.1	8.89	6.51	4.8
303	21.5	7.84	189	10.4	9.43	6.40	3.9
304	20.9	7.89	174	10.9	9.82	6.15	6.2
305	21.3	7.55	170	10.5	8.66	6.39	4.9

°C = degrees Celsius
DO = dissolved oxygen
ORP = oxidation reduction potential
ms/cm= millisiemens per centimeter
mg/L = milligram(s) per liter
NTU = nephelometric turbidity unit
ppt = part(s) per thousand

Table 3-4

Porewater-Sampler Performance Reference-Compounds

Quality Control Results—Dark Head Cove, 2020

Lockheed Martin Middle River Complex, Middle River, Maryland

Laboratory Preparation Batch	%RSD				
	PCB #28—C13	PCB #52—C13	PCB #101—C13	PCB #153—C13	PCB #159—C13
1	10.3 %	11.0 %	9.0 %	6.1 %	3.9 %

C13 = carbon-13
PCB = polychlorinated biphenyl
%RSD = percent relative standard deviation

Table 3-5
Surface Sediment PCB Results, HRMS---Dark Head Cove 2020

ANALYTE	SD-301-BULK_A		SD-301-BULK_B		SD-302-BULK_A		SD-302-BULK_B		SD-303-BULK_A		SD-303-BULK_B		SD-304-BULK_A		SD-304-BULK_B		SD-305-BULK_A		SD-305-BULK_B	
	ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg	
PCB-1	16.4	J	72.5	J	120	J	118	J	148	J	131	J	30.7	J	27.8	J	88.9	J	85	J
PCB-2	11.2	J	77.2	J	96.4	J	96.8	J	148	J	131	J	20	J	21.3	J	86.9	J	80.5	J
PCB-3	17.8	J	125	J	174	J	172	J	282	J	257	J	31.2	J	36.1	J	146	J	134	J
PCB-4/10	39.4	J	223	J	361	J	372	J	349	J	294	J	67.8	J	67.6	J	234	J	219	J
PCB-5/8	60.4	J	507	J	706	J	723	J	1100	J	986	J	111	J	134	J	612	J	560	J
PCB-6	25.7	J	207	J	285	J	287	J	411	J	358	J	44	J	50.9	J	230	J	214	J
PCB-7/9	< 9.96	UJ	68.3	J	89.5	J	93.8	J	132	J	115	J	< 9.63	UJ	15.4	J	75.4	J	68.8	J
PCB-11	58	J	726	J	863	J	849	J	912	J	765	J	86.7	J	125	J	885	J	800	J
PCB-12/13	41.6	J	556	J	729	J	700	J	1300	J	1180	J	78.4	J	119	J	611	J	578	J
PCB-14	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	7.13	J	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-15	60.1	J	839	J	1220	J	1180	J	1960	J	1770	J	112	J	191	J	1020	J	948	J
PCB-16/32	246	J	2930	J	7920	J	7900	J	10600	J	9630	J	699	J	958	J	4300	J	4020	J
PCB-17	59.3	J	665	J	1220	J	1200	J	1570	J	1430	J	126	J	179	J	899	J	837	J
PCB-18	73	J	812	J	1240	J	1240	J	1580	J	1430	J	139	J	189	J	974	J	920	J
PCB-19	51.5	J	384	J	979	J	972	J	944	J	838	J	113	J	128	J	478	J	444	J
PCB-20/21/33	77	J	1230	J	2130	J	2080	J	2740	J	2170	J	159	J	236	J	1370	J	1320	J
PCB-22	59.4	J	976	J	2210	J	2160	J	2630	J	2170	J	133	J	209	J	1050	J	1020	J
PCB-23	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-24/27	25.5	J	292	J	615	J	596	J	679	J	606	J	51.5	J	77.4	J	361	J	326	J
PCB-25	23.6	J	425	J	641	J	598	J	1070	J	923	J	55.6	J	82.9	J	477	J	477	J
PCB-26	33.4	J	595	J	842	J	784	J	1250	J	1080	J	72.1	J	106	J	616	J	608	J
PCB-28	149	J	2730	J	4190	J	3680	J	7070	J	5700	J	337	J	546	J	2980	J	2830	J
PCB-29	< 4.98	UJ	8.63	J	9.42	J	8.83	J	13.1	J	11.2	J	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-30	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-31	86.7	J	1510	J	2130	J	2260	J	3450	J	3240	J	202	J	291	J	1780	J	1780	J
PCB-34	6.66	J	84.1	J	182	J	179	J	267	J	218	J	17	J	23.7	J	103	J	110	J
PCB-35	10.7	J	246	J	291	J	277	J	469	J	430	J	18	J	43.1	J	258	J	244	J
PCB-36	< 4.98	UJ	6.88	J	< 4.96	UJ	< 4.96	UJ	12.7	J	12.8	J	< 4.81	UJ	< 4.96	UJ	13.5	J	< 4.98	UJ
PCB-37	41.5	J	903	J	1070	J	1040	J	1710	J	1560	J	66.4	J	145	J	958	J	902	J
PCB-38	37.3	J	806	J	1730	J	1780	J	2590	J	2490	J	114	J	226	J	1230	J	1170	J
PCB-39	< 4.98	UJ	14.9	J	17.8	J	17.4	J	29.1	J	29	J	< 4.81	UJ	< 4.96	UJ	17.9	J	17.7	J
PCB-40	5.96	J	90.1	J	< 4.96	UJ	96.1	J	119	J	122	J	< 4.81	UJ	< 4.96	UJ	102	J	94.2	J
PCB-41/64/71/72	149	J	3420	J	6220	J	6350	J	9620	J	9850	J	410	J	659	J	5030	J	4930	J
PCB-42/59	< 9.96	UJ	< 9.87	UJ	< 9.93	UJ	< 9.92	UJ	< 9.87	UJ	< 9.81	UJ	< 9.63	UJ	< 9.91	UJ	< 9.85	UJ	< 9.96	UJ
PCB-43/49	1050	J	24700	J	53100	J	54000	J	91600	J	79700	J	3570	J	6620	J	38800	J	36400	J
PCB-44	54.1	J	1050	J	1200	J	1180	J	1770	J	1610	J	106	J	173	J	1300	J	1200	J
PCB-45	< 4.98	UJ	99.9	J	109	J	109	J	166	J	143	J	13.2	J	17.7	J	129	J	115	J
PCB-46	23.5	J	322	J	734	J	749	J	1010	J	934	J	66.1	J	95.1	J	514	J	472	J
PCB-47	1610	J	42700	J	85400	J	85300	J	143000	J	129000	J	5410	J	10500	J	58500	J	56600	J
PCB-48/75	30.2	J	988	J	1450	J	1490	J	3100	J	2940	J	113	J	220	J	1110	J	1200	J
PCB-50	< 4.98	UJ	54.8	J	131	J	134	J	173	J	157	J	< 4.81	UJ	17.1	J	77	J	77.8	J
PCB-51	897	J	15400	J	47300	J	46200	J	65900	J	59800	J	3300	J	5630	J	26900	J	23400	J
PCB-52/69	410	J	9350	J	16900	J	16400	J	29900	J	26600	J	1340	J	2350	J	15100	J	13700	J
PCB-53	757	J	12200	J	32400	J	31200	J	43400	J	39200	J	2500	J	4210	J	19600	J	19600	J
PCB-54	199	J	2330	J	6820	J	6940	J	8920	J	8060	J	634	J	847	J	3760	J	3570	J
PCB-55	6.04	J	182	J	264	J	284	J	577	J	587	J	23.9	J	47	J	285	J	296	J
PCB-56/60	32.6	J	764	J	841	J	836	J	1220	J	1120	J	55.5	J	120	J	902	J	815	J
PCB-57	< 4.98	UJ	92.2	J	184	J	176	J	292	J	293	J	9.66	J	25.1	J	138	J	133	J
PCB-58	< 4.98	UJ	163	J	348	J	350	J	561	J	482	J	< 4.81	UJ	46.1	J	251	J	233	J
PCB-61/70	84.4	J	2200	J	2750	J	2660	J	4480	J	4010	J	177	J	381	J	3030	J	2780	J
PCB-62	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-63	< 4.98	UJ	88.6	J	143	J	144	J	212	J	193	J	< 4.81	UJ	17.4	J	128	J	127	J
PCB-65	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-66/76	83.8	J	2280	J	3430	J	3340	J	5700	J	5150	J	201	J	435	J	3360	J	3150	J
PCB-67	< 4.98	UJ	38.1	J	31.7	J	31.9	J	98.2	J	160	J	< 4.81	UJ	< 4.96	UJ	37.2	J	37.9	J
PCB-68	9.94	J	322	J	543	J	574	J	1030	J	980	J	32.3	J	63.2	J	463	J	447	J
PCB-73	42.3	J	1020	J	2170	J	2110	J	4000	J	3610	J	146	J	304	J	1690	J	1640	J
PCB-74	20	J	541	J	690	J	667	J	950	J	858	J	36.9	J	87	J	636	J	630	J
PCB-77	11.5	J	392	J	438	J	437	J	725	J	626	J	21.6	J	53.8	J	458	J	408	J
PCB-78	< 4.98	UJ	< 4.93	UJ	12.1	J	14.1	J	18.3	J	16.8	J	< 4.81	UJ	< 4.96	UJ	14.9	J	14.5	J
PCB-79	< 4.98	UJ	188	J	265	J	274	J	549	J	500	J	29.7	J	43.3	J	316	J	285	J
PCB-80	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ

Table 3-5
Surface Sediment PCB Results, HRMS---Dark Head Cove 2020

ANALYTE	SD-301-BULK_A		SD-301-BULK_B		SD-302-BULK_A		SD-302-BULK_B		SD-303-BULK_A		SD-303-BULK_B		SD-304-BULK_A		SD-304-BULK_B		SD-305-BULK_A		SD-305-BULK_B	
	ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg	
PCB-81	< 4.98	UJ	11.9	J	26.6	J	39.2	J	40.5	J	50.2	J	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	34.9	J
PCB-82	9.42	J	243	J	263	J	259	J	409	J	377	J	< 4.81	UJ	43.8	J	351	J	328	J
PCB-83	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-84/92	118	J	3860	J	5930	J	5990	J	10900	J	9930	J	404	J	1100	J	7720	J	6970	J
PCB-85/116	< 9.96	UJ	467	J	552	J	547	J	927	J	818	J	< 9.63	UJ	86.7	J	692	J	643	J
PCB-86	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-87/117/125	50.3	J	1680	J	2440	J	2540	J	3650	J	3220	J	160	J	497	J	2490	J	2250	J
PCB-88/91	205	J	6100	J	9310	J	10000	J	25700	J	24100	J	1040	J	1900	J	12600	J	11400	J
PCB-89	< 4.98	UJ	29.1	J	38.3	J	32.9	J	46	J	44.9	J	< 4.81	UJ	6.52	J	33.1	J	< 4.98	UJ
PCB-90/101	450	J	16500	J	26400	J	26700	J	49400	J	44800	J	1990	J	5910	J	30000	J	27200	J
PCB-93	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-94	20.1	J	615	J	1380	J	1550	J	2040	J	1900	J	89	J	169	J	1300	J	1240	J
PCB-95/98/102	388	J	10800	J	17300	J	17900	J	31600	J	29700	J	1410	J	3180	J	19800	J	17900	J
PCB-96	< 4.98	UJ	245	J	< 4.96	UJ	< 4.96	UJ	1070	J	1010	J	51.4	J	< 4.96	UJ	541	J	530	J
PCB-97	28.4	J	890	J	1100	J	1110	J	1910	J	1680	J	81.1	J	220	J	1370	J	1250	J
PCB-99	198	J	8030	J	12700	J	13000	J	31100	J	28100	J	1490	J	2170	J	16600	J	15200	J
PCB-100	188	J	6850	J	13700	J	14600	J	31100	J	28500	J	1120	J	2540	J	12700	J	12000	J
PCB-103	85.3	J	3110	J	6110	J	6250	J	12900	J	11600	J	448	J	1030	J	6070	J	5830	J
PCB-104	30.7	J	837	J	1920	J	1950	J	3710	J	3340	J	133	J	277	J	1370	J	1350	J
PCB-105	41.9	J	1670	J	2130	J	2130	J	3260	J	2870	J	117	J	437	J	2530	J	2180	J
PCB-106/118	141	J	5850	J	7980	J	7790	J	13300	J	12100	J	491	J	1890	J	9100	J	8100	J
PCB-107/109	14.6	J	624	J	811	J	819	J	1580	J	1490	J	91.1	J	141	J	1120	J	1010	J
PCB-108/112	< 9.96	UJ	157	J	186	J	191	J	306	J	282	J	15.7	J	33.5	J	246	J	244	J
PCB-110	253	J	8460	J	11500	J	11700	J	24100	J	22800	J	832	J	2600	J	14100	J	12900	J
PCB-111/115	< 9.96	UJ	49.7	J	59.3	J	75	J	155	J	124	J	< 9.63	UJ	< 9.91	UJ	129	J	89.2	J
PCB-113	< 4.98	UJ	58.9	J	146	J	< 4.96	UJ	250	J	680	J	12.5	J	24.7	J	232	J	152	J
PCB-114	< 4.98	UJ	60.7	J	61.8	J	89.4	J	196	J	90.2	J	< 4.81	UJ	12.6	J	73.8	J	55.1	J
PCB-119	45.1	J	1850	J	3280	J	3410	J	7710	J	7050	J	318	J	549	J	3720	J	3490	J
PCB-120	< 4.98	UJ	168	J	226	J	223	J	440	J	443	J	33.8	J	55.5	J	268	J	293	J
PCB-121	< 4.98	UJ	119	J	265	J	228	J	529	J	555	J	21.6	J	40.6	J	181	J	243	J
PCB-122	< 4.98	UJ	43.2	J	47.5	J	55.6	J	76.1	J	84.4	J	< 4.81	UJ	8.73	J	71.2	J	61.9	J
PCB-123	< 4.98	UJ	58.6	J	73.3	J	75	J	153	J	128	J	9.73	J	12.4	J	113	J	< 4.98	UJ
PCB-124	8.31	J	330	J	434	J	425	J	745	J	672	J	31.2	J	132	J	505	J	451	J
PCB-126	< 4.98	UJ	79.6	J	107	J	108	J	164	J	138	J	7.36	J	23.6	J	132	J	122	J
PCB-127	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-128/162	49.9	J	2170	J	3090	J	3210	J	5700	J	4800	J	319	J	1090	J	3790	J	3440	J
PCB-129	10.1	J	462	J	669	J	653	J	1100	J	959	J	67.5	J	266	J	757	J	717	J
PCB-130	32.2	J	1660	J	2360	J	2380	J	4510	J	4340	J	293	J	770	J	2850	J	2830	J
PCB-131/133	18.2	J	1060	J	1520	J	1560	J	3480	J	3240	J	229	J	438	J	2050	J	1890	J
PCB-132/161	166	J	6720	J	10400	J	10500	J	19300	J	16300	J	756	J	4070	J	13000	J	10900	J
PCB-134/143	31.5	J	1300	J	2010	J	2020	J	3450	J	3220	J	171	J	719	J	2310	J	2050	J
PCB-135	86.6	J	4100	J	5840	J	6080	J	12400	J	10600	J	539	J	2150	J	7610	J	6880	J
PCB-136	158	J	5930	J	8640	J	8620	J	18700	J	16500	J	805	J	2940	J	10500	J	9630	J
PCB-137	6.51	J	261	J	517	J	559	J	916	J	790	J	372	J	104	J	611	J	464	J
PCB-138/163/164	594	J	29000	J	44600	J	44200	J	78200	J	73900	J	5900	J	17900	J	50500	J	45600	J
PCB-139/149	664	J	31300	J	51600	J	50300	J	104000	J	90400	J	4810	J	16600	J	57400	J	50100	J
PCB-140	< 4.98	UJ	314	J	432	J	434	J	1330	J	1180	J	132	J	94.6	J	760	J	< 4.98	UJ
PCB-141	135	J	6850	J	11100	J	11500	J	18000	J	16100	J	1340	J	5250	J	11900	J	10800	J
PCB-142	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-144	< 4.98	UJ	1680	J	2500	J	2370	J	3930	J	3690	J	231	J	1140	J	2310	J	2350	J
PCB-145	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	5.25	J	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-146/165	118	J	7130	J	10300	J	10500	J	23100	J	20900	J	1650	J	3290	J	13900	J	12600	J
PCB-147	29.7	J	1620	J	2520	J	2650	J	6440	J	5490	J	1190	J	514	J	2980	J	2900	J
PCB-148	< 4.98	UJ	212	J	342	J	387	J	921	J	875	J	112	J	63.1	J	553	J	498	J
PCB-150	11.9	J	524	J	778	J	784	J	2550	J	2290	J	174	J	181	J	1070	J	1010	J
PCB-151	215	J	10200	J	14800	J	15300	J	29700	J	25600	J	1310	J	5940	J	16600	J	15900	J
PCB-152	< 4.98	UJ	112	J	232	J	262	J	423	J	368	J	75.6	J	33.8	J	229	J	221	J
PCB-153	722	J	42500	J	66900	J	71400	J	127000	J	118000	J	11900	J	23100	J	74000	J	69900	J
PCB-154	36.2	J	2260	J	3370	J	3370	J	10500	J	9080	J	1130	J	683	J	4660	J	4490	J
PCB-155	< 4.98	UJ	123	J	219	J	216	J	550	J	486	J	35.2	J	36.9	J	205	J	201	J
PCB-156	39.3	J	2100	J	3160	J	3290	J	5700	J	5040	J	913	J	1320	J	3630	J	3220	J
PCB-157	< 4.98	UJ	248	J	343	J	354	J	603	J	528	J	56	J	98.7	J	429	J	374	J

Table 3-5
Surface Sediment PCB Results, HRMS---Dark Head Cove 2020

ANALYTE	SD-301-BULK_A		SD-301-BULK_B		SD-302-BULK_A		SD-302-BULK_B		SD-303-BULK_A		SD-303-BULK_B		SD-304-BULK_A		SD-304-BULK_B		SD-305-BULK_A		SD-305-BULK_B	
	ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg		ng/kg	
PCB-158/160	50.2	J	2460	J	3920	J	3910	J	6590	J	5750	J	602	J	1810	J	4300	J	3910	J
PCB-159	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-166	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	82.9	J	< 4.93	UJ	20.1	J
PCB-167	< 4.98	UJ	943	J	1400	J	1450	J	2580	J	2270	J	445	J	522	J	1670	J	1490	J
PCB-168	< 4.98	UJ	131	J	199	J	206	J	478	J	468	J	93.2	J	43.6	J	254	J	242	J
PCB-169	< 4.98	UJ	12.8	J	15	J	< 4.96	UJ	25	J	18.4	J	< 4.81	UJ	< 4.96	UJ	23.5	J	18.3	J
PCB-170	275	J	15600	J	25200	J	27400	J	52600	J	47600	J	17800	J	11500	J	31000	J	29600	J
PCB-171	77.4	J	4160	J	6500	J	6680	J	14600	J	12500	J	3790	J	3250	J	8020	J	7140	J
PCB-172	36	J	2470	J	3850	J	4000	J	8590	J	7310	J	2950	J	1830	J	4810	J	4280	J
PCB-173	< 4.98	UJ	281	J	438	J	444	J	888	J	748	J	241	J	231	J	525	J	466	J
PCB-174	272	J	14400	J	23500	J	25200	J	47100	J	44100	J	10900	J	11800	J	28200	J	24700	J
PCB-175	< 4.98	UJ	641	J	934	J	987	J	1570	J	1690	J	564	J	443	J	904	J	998	J
PCB-176	38.4	J	1980	J	3060	J	3160	J	6710	J	6030	J	1240	J	1480	J	3600	J	3220	J
PCB-177	190	J	10700	J	16000	J	16100	J	33900	J	31700	J	6960	J	7320	J	19900	J	17400	J
PCB-178	56.8	J	3590	J	5340	J	5540	J	11500	J	10300	J	2520	J	2150	J	6400	J	5920	J
PCB-179	123	J	6620	J	10100	J	10200	J	20600	J	18700	J	3340	J	4710	J	11600	J	10800	J
PCB-180	563	J	36200	J	57100	J	64700	J	122000	J	112000	J	46200	J	27400	J	71600	J	62400	J
PCB-181	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	78.3	J	< 4.96	UJ	< 4.93	UJ	72.2	J
PCB-182/187	317	J	20100	J	30200	J	31200	J	61900	J	60800	J	15500	J	12600	J	35600	J	33300	J
PCB-183	146	J	9050	J	13800	J	14400	J	29300	J	27000	J	9080	J	6510	J	15600	J	14800	J
PCB-184	< 4.98	UJ	25.4	J	35.3	J	36.4	J	105	J	96.7	J	15.9	J	7.89	J	45.8	J	45.5	J
PCB-185	26.4	J	1530	J	2360	J	2450	J	4780	J	4080	J	1360	J	1330	J	2910	J	2480	J
PCB-186	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-188	< 4.98	UJ	79	J	125	J	128	J	331	J	304	J	83.6	J	24.3	J	145	J	143	J
PCB-189	< 4.98	UJ	580	J	905	J	954	J	1960	J	1750	J	933	J	406	J	1090	J	1010	J
PCB-190	48.2	J	2990	J	4820	J	5020	J	9440	J	7930	J	3820	J	2330	J	5860	J	5060	J
PCB-191	< 4.98	UJ	522	J	864	J	909	J	1870	J	1640	J	735	J	450	J	1070	J	941	J
PCB-192	< 4.98	UJ	< 4.93	UJ	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	< 4.90	UJ	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	< 4.98	UJ
PCB-193	26.3	J	1680	J	2600	J	2700	J	4730	J	4140	J	2170	J	1270	J	3000	J	2690	J
PCB-194	126	J	8150	J	13100	J	13400	J	31100	J	28800	J	17400	J	5560	J	16200	J	14100	J
PCB-195	54.7	J	3400	J	5290	J	5300	J	12100	J	10800	J	6700	J	2480	J	6560	J	5550	J
PCB-196/203	129	J	7570	J	12300	J	12700	J	29700	J	27600	J	18500	J	6050	J	15400	J	13600	J
PCB-197	< 4.98	UJ	348	J	525	J	522	J	1430	J	1370	J	655	J	238	J	653	J	611	J
PCB-198	< 4.98	UJ	303	J	501	J	692	J	3150	J	1580	J	719	J	258	J	1070	J	618	J
PCB-199	111	J	6700	J	10400	J	10500	J	29600	J	25500	J	14000	J	4920	J	13000	J	11700	J
PCB-200	13.8	J	731	J	1200	J	1230	J	2730	J	2550	J	1700	J	645	J	1460	J	1300	J
PCB-201	< 4.98	UJ	1050	J	1700	J	1690	J	4240	J	4020	J	2000	J	742	J	2050	J	1880	J
PCB-202	19.9	J	1210	J	1820	J	1850	J	4480	J	4110	J	1900	J	776	J	2270	J	2040	J
PCB-204	< 4.98	UJ	6.87	J	< 4.96	UJ	< 4.96	UJ	< 4.94	UJ	15.3	J	< 4.81	UJ	< 4.96	UJ	< 4.93	UJ	9.7	J
PCB-205	7.11	J	395	J	613	J	625	J	1420	J	1240	J	869	J	274	J	761	J	652	J
PCB-206	35.5	J	2220	J	3220	J	3200	J	6790	J	6450	J	3550	J	1030	J	3570	J	3190	J
PCB-207	< 4.98	UJ	364	J	500	J	505	J	1070	J	1050	J	524	J	151	J	549	J	506	J
PCB-208	9.27	J	608	J	798	J	789	J	1430	J	1320	J	578	J	198	J	820	J	752	J
PCB-209	24	J	1540	J	1730	J	1660	J	2420	J	2100	J	160	J	211	J	1500	J	1380	J
Total monoCB	45.3	J	275	J	390	J	387	J	578	J	519	J	81.9	J	85.2	J	322	J	300	J
Total diCB	285	J	3130	J	4250	J	4210	J	6160	J	5470	J	499	J	702	J	3670	J	3390	J
Total triCB	981	J	14600	J	27400	J	26800	J	38700	J	34000	J	2300	J	3440	J	17900	J	17000	J
Total tetraCB	5480	J	121000	J	264000	J	262000	J	419000	J	377000	J	18200	J	33000	J	183000	J	172000	J
Total pentaCB	2270	J	79900	J	126000	J	130000	J	259000	J	239000	J	10400	J	25100	J	146000	J	133000	J
Total hexaCB	3170	J	163000	J	254000	J	258000	J	492000	J	443000	J	35600	J	91200	J	291000	J	265000	J
Total heptaCB	2190	J	133000	J	208000	J	222000	J	435000	J	400000	J	130000	J	97000	J	252000	J	227000	J
Total octaCB	462	J	29900	J	47600	J	48500	J	120000	J	108000	J	64500	J	21900	J	59400	J	52000	J
Total nonaCB	44.7	J	3190	J	4520	J	4490	J	9290	J	8820	J	4650	J	1380	J	4940	J	4440	J
DecaCB	24	J	1540	J	1730	J	1660	J	2420	J	2100	J	160	J	211	J	1500	J	1380	J
Total PCB	**14952**	**J**	**549535**	**J**	**937890**	**J**	**958047**	**J**	**1782148**	**J**	**1617909**	**J**	**266390.9**	**J**	**274018.2**	**J**	**959732**	**J**	**875510**	**J**

J = estimated result

UJ = non-detect result at an estimated detection limit

HRMS = high-resolution mass spectroscopy

PCB = polychlorinated biphenyl

ng/kg = nanogram per kilogram

Table 3-6

Sediment Total PCB Sample and Duplicate Results—Dark Head Cove, 2020

Location	Total PCBs (µg/kg)		
	Method 1668C	Method 1668C Dup	RPD
SD-301	14.95	549.5	189%
SD-302	937.9	958.0	2.1%
SD-303	1,782	1,618	9.7%
SD-304	266.4	274.0	2.8%
SD-305	959.7	875.5	9.2%

Dup = duplicate
PCB = polychlorinated biphenyl
RPD = relative percent difference
µg/kg = micrograms per kilogram

Table 3-7

Sediment Total Organic Carbon, Black Carbon, Percent Fines, and Percent Gravel Results—Dark Head Cove, 2020

Sample	Depth (inches)	Organic Carbon (%)	Black Carbon (%)	Percent Fines	Percent Gravel
SD-301_0-2	0-2	8.52	0.381	16.6	53.7
SD-301_2-4	2-4	6.34	0.059	15.8	40.3
SD-301_4-6	4-6	3.39	0.04	31.7	27.2
SD-301_6-12	6-12	2.77	0.067	37.3	35.9
SD-302_0-2	0-2	14.4	1.52	22.3	52.1
SD-302_2-4	2-4	3.85	0.03	20	30.1
SD-302_4-6	4-6	1.13	< 0.01	19.3	2.1
SD-302_6-12	6-12	3.20	0.023	41.2	6.4
SD-303_0-2	0-2	14.5	0.37	17.4	53.5
SD-303_2-4	2-4	8.12	0.09	11	44.6
SD-303_4-6	4-6	3.92	0.07	27.9	19.5
SD-303_6-12	6-12	2.98	0.027	24.8	30.2
SD-304_0-2	0-2	13.0	1.26	22.8	50.2
SD-304_2-4	2-4	7.33	0.19	17.1	40.6
SD-304_4-6	4-6	3.94	0.06	35.2	13.4
SD-304_6-12	6-12	3.05	0.036	56.1	9.2
SD-305_0-2	0-2	13.1	1.05	13.8	58.4
SD-305_2-4	2-4	6.66	0.15	15.5	41.6
SD-305_4-6	4-6	3.53	0.06	44.5	21.4
SD-305_6-12	6-12	2.95	0.081	46.4	17.7

Table 3-8

Tissue Lipid Results—Dark Head Cove, 2020

Sample	% Lipids
301A	1.03
301B	0.61
301C	0.86
301D	0.61
301E	0.73
302A	0.43
302B	1.04
302C	0.4
302D	0.51
302E	1.24
303A	0.68
303B	0.71
303C	1.26
303D	0.4
303E	1.26
304A	1.05
304B	1.05
304C	0.74
304D	0.88
304E	0.82
305A	1.01
305B	1.4
305C	1.06
305D	1.07
305E	0.99
Control A	0.57
Control B	0.6
Control C	0.67
Control D	0.63
Control E	0.46

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-301-A			TI-301-B			TI-301-C			TI-301-D			TI-301-E			TI-302-A			TI-302-B			TI-302-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
Percent lipids		1.03			0.61			0.86			0.61			0.73			0.43			1.04			0.4	
PCB-1	< 5.46	<1		< 12.9	<2		< 6.51	<1		< 5.95	<1		< 8.08	<1		< 5.91	<1		< 6.2	<1		< 5.13	<1	
PCB-2	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-3	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-4/10	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-5/8	11	1.1		< 12.9	<2	U	< 6.51	<1	U	18.6	3		43.3	5.9		31.1	7.2		15.4	1.5		13.8	3.5	
PCB-6	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-7/9	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-11	24.9	2.4		31.3	5.1		20.6	2.4		15.3	2.5		23.2	3.2		< 20.6	<5	U	< 16.2	<2	U	< 17.9	<4	U
PCB-12/13	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-14	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-15	5.53	0.54		< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	9.95	1.36		9.48	2.2		< 6.2	<1	U	6.31	1.58	
PCB-16/32	13	1.3		< 12.9	<2	U	< 6.51	<1	U	17.6	2.9		30	4.1		26.7	6.2		20.6	2		27.4	6.9	
PCB-17	6.33	0.61		< 12.9	<2	U	< 6.51	<1	U	8.79	1.44		17.9	2.5		15.2	3.5		8.41	0.81		8.43	2.11	
PCB-18	11.7	1.1		12.9	2.1		9.32	1.08		16.6	2.7		34.7	4.8		23.7	5.5		13.2	1.3		13.2	3.3	
PCB-19	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-20/21/33	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-22	6.08	0.59		< 12.9	<2	U	< 6.51	<1	U	7.07	1.16		10.6	1.5		< 5.91	<1	U	6.21	0.6		7.38	1.85	
PCB-23	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-24/27	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-25	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-26	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-28	15.8	1.5		< 12.9	<2	U	13.7	1.6		16.1	2.6		22.1	3		21.2	4.9		16.2	1.6		19.2	4.8	
PCB-29	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-30	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-31	12.2	1.2		< 12.9	<2	U	< 6.51	<1	U	12.7	2.1		19.8	2.7		17	4		10.7	1		12.8	3.2	
PCB-34	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-35	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-36	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-37	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-38	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-39	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-40	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-41/64/71/72	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-42/59	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-43/49	45.6	4.4		< 12.9	<2	U	78.4	9.1		54.9	9		29.3	4		35.7	8.3		83.1	8		116	29	
PCB-44	7.55	0.73		< 12.9	<2	U	8.56	1		7.28	1.19		< 8.08	<1	U	< 5.91	<1	U	6.81	0.65		< 5.13	<1	U
PCB-45	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-46	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-47	69	6.7		35.9	5.9		129	15		85.4	14		44	6		51.6	12		127	12		192	48	
PCB-48/75	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-50	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-51	20.6	2		< 12.9	<2	U	38.2	4.4		26.6	4.4		14.2	1.9		27.7	6.4		54.1	5.2		86	21.5	
PCB-52/69	19.9	1.9		< 12.9	<2	U	28.6	3.3		23.4	3.8		< 8.08	<1	U	15.3	3.6		29.4	2.8		38	9.5	
PCB-53	17.5	1.7		< 12.9	<2	U	29.4	3.4		21.6	3.5		< 8.08	<1	U	18.7	4.3		37.7	3.6		55.4	13.9	
PCB-54	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	8.16	0.78		13.4	3.4	
PCB-55	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-56/60	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-57	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-58	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-61/70	< 5.46	<1	U	< 12.9	<2	U	13.3	1.5		< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	12.5	3.1	
PCB-62	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-63	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-65	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-301-A			TI-301-B			TI-301-C			TI-301-D			TI-301-E			TI-302-A			TI-302-B			TI-302-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-66/76	< 5.46	<1	U	< 12.9	<2	U	13.1	1.5		12.1	2		< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	14.9	3.7	
PCB-67	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-68	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-73	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-74	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-77	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-78	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-79	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-80	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-81	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-82	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-83	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-84/92	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	12.2	2		< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	20.1	5	
PCB-85/116	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-86	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-87/117/125	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-88/91	< 5.46	<1	U	< 12.9	<2	U	20.8	2.4		17.6	2.9		< 8.08	<1	U	13.3	3.1		22.2	2.1		32.4	8.1	
PCB-89	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-90/101	33.3	3.2		< 12.9	<2	U	62.2	7.2		46.9	7.7		29.3	4		28.7	6.7		50.4	4.8		79.6	19.9	
PCB-93	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-94	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	6.71	1.68	
PCB-95/98/102	21	2		< 12.9	<2	U	34.9	4.1		30.1	4.9		< 8.08	<1	U	21.3	5		34.3	3.3		46.2	11.6	
PCB-96	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-97	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-99	< 5.46	<1	U	15	2.5		30.3	3.5		26.4	4.3		< 8.08	<1	U	19.1	4.4		< 6.2	<1	U	46.1	11.5	
PCB-100	14.2	1.4		< 12.9	<2	U	26.4	3.1		18.2	3		11.4	1.6		16	3.7		26.9	2.6		38.1	9.5	
PCB-103	< 5.46	<1	U	< 12.9	<2	U	11.2	1.3		7.44	1.22		< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	17.8	4.5	
PCB-104	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	6.08	1.52	
PCB-105	< 5.46	<1	U	< 12.9	<2	U	10.1	1.2		8.88	1.46		< 8.08	<1	U	< 5.91	<1	U	8.6	0.83		< 5.13	<1	U
PCB-106/118	22.1	2.1		< 12.9	<2	U	33.7	3.9		31.1	5.1		21.8	3		20.3	4.7		29.2	2.8		36	9	
PCB-107/109	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-108/112	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-110	26.3	2.6		18.3	3		36	4.2		32.6	5.3		19.9	2.7		19	4.4		32.8	3.2		40.6	10.2	
PCB-111/115	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-113	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-114	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-119	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	6.11	1		< 8.08	<1	U	< 5.91	<1	U	8.16	0.78		11.5	2.9	
PCB-120	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-121	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-122	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-123	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-124	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-126	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-127	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-128/162	11	1.1		< 12.9	<2	U	16.5	1.9		< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	13	1.3		16	4	
PCB-129	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-130	8.05	0.78		< 12.9	<2	U	10.8	1.3		10.9	1.8		< 8.08	<1	U	9.58	2.23		9.62	0.93		< 5.13	<1	U
PCB-131/133	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-132/161	21.3	2.1		< 12.9	<2	U	28.3	3.3		27.9	4.6		19.1	2.6		25.2	5.9		30.5	2.9		39.4	9.9	
PCB-134/143	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-135	< 5.46	<1	U	13.7	2.2		< 6.51	<1	U	20.4	3.3		14	1.9		16.9	3.9		21.2	2		27.2	6.8	
PCB-136	20.7	2		18.7	3.1		28.7	3.3		28.1	4.6		< 8.08	<1	U	< 5.91	<1	U	30.5	2.9		35.7	8.9	
PCB-137	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-138/163/164	119	12		88.5	14.5		168	20		148	24		115	16		136	32		157	15		198	50	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-301-A			TI-301-B			TI-301-C			TI-301-D			TI-301-E			TI-302-A			TI-302-B			TI-302-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-139/149	113	11		98.6	16.2		170	20		143	23		115	16		130	30		161	15		199	50	
PCB-140	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-141	11.9	1.2		< 12.9	<2	U	21.4	2.5		17.8	2.9		< 8.08	<1	U	7.86	1.83		17.4	1.7		25.9	6.5	
PCB-142	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-144	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-145	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-146/165	31	3		< 12.9	<2	U	43.6	5.1		35	5.7		31.5	4.3		35.9	8.3		36.9	3.5		50.9	12.7	
PCB-147	5.9	0.57		< 12.9	<2	U	< 6.51	<1	U	9.77	1.6		8.11	1.11		12.1	2.8		< 6.2	<1	U	< 5.13	<1	U
PCB-148	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-150	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-151	29.9	2.9		22.3	3.7		44.2	5.1		40.8	6.7		32.3	4.4		38.8	9		45.8	4.4		59.7	14.9	
PCB-152	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-153	130	13		102	17		200	23		160	26		126	17		141	33		179	17		247	62	
PCB-154	11.5	1.1		< 12.9	<2	U	17.3	2		14.5	2.4		12.4	1.7		15.5	3.6		16.1	1.5		22.1	5.5	
PCB-155	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-156	< 5.46	<1	U	< 12.9	<2	U	8.94	1.04		< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	8.92	0.86		11.7	2.9	
PCB-157	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-158/160	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	10.7	2.7	
PCB-159	9.13	0.89		< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-166	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-167	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-168	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-169	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-170	39.9	3.9		31	5.1		67.4	7.8		60.4	9.9		36.4	5		42.3	9.8		69.4	6.7		80	20	
PCB-171	< 5.46	<1	U	21.4	3.5		32.4	3.8		26	4.3		24	3.3		31.6	7.3		34.4	3.3		37.1	9.3	
PCB-172	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	8.64	0.83		< 5.13	<1	U
PCB-173	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-174	53.1	5.2		48.6	8		76.9	8.9		69.9	11.5		55.3	7.6		61	14.2		84.5	8.1		94.8	23.7	
PCB-175	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-176	19.8	1.9		21.7	3.6		22.2	2.6		23.5	3.9		< 8.08	<1	U	24.2	5.6		24.9	2.4		28.3	7.1	
PCB-177	84.5	8.2		86.1	14.1		116	13		104	17		96.2	13.2		105	24		113	11		125	31	
PCB-178	44.1	4.3		45.5	7.5		49.6	5.8		49.4	8.1		53.1	7.3		57.7	13.4		49.9	4.8		56.1	14	
PCB-179	65	6.3		64.7	10.6		80.9	9.4		77.3	12.7		76.6	10.5		81.1	18.9		85.1	8.2		92	23	
PCB-180	58	5.6		22.3	3.7		110	13		81.7	13.4		26.6	3.6		30	7		89.3	8.6		141	35	
PCB-181	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-182/186	260	25		256	42		317	37		301	49		294	40		340	79		320	31		339	85	
PCB-183	39.7	3.9		36.5	6		55.4	6.4		48.5	8		36.9	5.1		43.5	10.1		57.8	5.6		66.8	16.7	
PCB-184	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-185	8.75	0.85		< 12.9	<2	U	12.6	1.5		10.2	1.7		< 8.08	<1	U	< 5.91	<1	U	12.4	1.2		< 5.13	<1	U
PCB-186	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-188	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	6.06	1.41		< 6.2	<1	U	< 5.13	<1	U
PCB-189	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-190	19.4	1.9		< 12.9	<2	U	30.1	3.5		24.3	4		24	3.3		< 5.91	<1	U	27.8	2.7		30.9	7.7	
PCB-191	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-192	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-193	19.1	1.9		18.3	3		21.5	2.5		21.5	3.5		19.5	2.7		22.6	5.3		24.1	2.3		24.4	6.1	
PCB-194	21.5	2.1		13.6	2.2		31.6	3.7		25.4	4.2		< 8.08	<1	U	15.9	3.7		29.2	2.8		41.3	10.3	
PCB-195	39.8	3.9		42.1	6.9		47	5.5		45.2	7.4		46.5	6.4		42	9.8		49.1	4.7		52.4	13.1	
PCB-196/203	62.3	6		< 12.9	<2	U	82.4	9.6		87.1	14.3		74.8	10.2		73.5	17.1		84.4	8.1		95.1	23.8	
PCB-197	9.37	0.91		< 12.9	<2	U	< 6.51	<1	U	11.2	1.8		13.6	1.9		10.8	2.5		11.8	1.1		12.3	3.1	
PCB-198	< 5.46	<1	U	< 12.9	<2	U	8.62	1		6.21	1.02		< 8.08	<1	U	7.2	1.67		< 6.2	<1	U	< 5.13	<1	U
PCB-199	57.5	5.6		56.8	9.3		75.2	8.7		70.5	11.6		62.7	8.6		61.6	14.3		74.9	7.2		83.8	21	
PCB-200	11.2	1.1		< 12.9	<2	U	15.6	1.8		15.1	2.5		< 8.08	<1	U	< 5.91	<1	U	15.9	1.5		16.6	4.2	
PCB-201	35.5	3.4		36.5	6		40.3	4.7		41.1	6.7		46.1	6.3		42.6	9.9		42.1	4		42.2	10.6	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-301-A			TI-301-B			TI-301-C			TI-301-D			TI-301-E			TI-302-A			TI-302-B			TI-302-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-202	76.3	7.4		84.2	13.8		91.2	10.6		88.2	14.5		96	13.2		93.9	21.8		85	8.2		81.9	20.5	
PCB-204	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-205	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
PCB-206	33.5	3.3		41	6.7		42.3	4.9		41.5	6.8		44.3	6.1		42.6	9.9		41	3.9		40	10	
PCB-207	12.3	1.2		13.5	2.2		14.8	1.7		14.1	2.3		16.3	2.2		13.4	3.1		13.3	1.3		13.9	3.5	
PCB-208	62.5	6.1		76	12.5		71.3	8.3		74.4	12.2		83.7	11.5		78.7	18.3		69.5	6.7		72.3	18.1	
PCB-209	97.7	9.5		112	18		110	13		113	19		111	15		107	25		105	10		100	25	
Total monoCB	< 5.46	<1	U	< 12.9	<2	U	< 6.51	<1	U	< 5.95	<1	U	< 8.08	<1	U	< 5.91	<1	U	< 6.2	<1	U	< 5.13	<1	U
Total diCB	41.4	4		31.3	5.1		20.6	2.4		33.9	5.6		76.4	10.5		61.2	14.2		31.6	3		38.1	9.5	
Total triCB	65.2	6.3		12.9	2.1		23	2.7		78.8	12.9		135	18		104	24		75.4	7.3		88.4	22.1	
Total tetraCB	180	17		35.9	5.9		338	39		231	38		87.5	12		149	35		346	33		528	132	
Total pentaCB	117	11		33.3	5.5		266	31		237	39		82.4	11.3		138	32		212	20		381	95	
Total hexaCB	523	51		344	56		758	88		656	108		473	65		569	132		728	70		944	236	
Total heptaCB	712	69		652	107		992	115		898	147		743	102		845	197		1000	96		1120	280	
Total octaCB	313	30		233	38		392	46		390	64		340	47		347	81		392	38		426	107	
Total nonaCB	108	10		131	21		128	15		130	21		144	20		135	31		124	12		126	32	
DecaCB	97.7	9.5		112	18		110	13		113	19		111	15		107	25		105	10		100	25	
Total PCB	**2157.3**	**209**		**1585.4**	**260**		**3027.6**	**352**		**2767.7**	**454**		**2192.3**	**300**		**2455.2**	**571**		**3014**	**290**		**3751.5**	**938**	

PCB = polychlorinated biphenyls
pg/g = picogram per gram
µg/g = microgram per gram

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-302-D			TI-302-E			TI-303-A			TI-303-B			TI-303-C			TI-303-D			TI-303-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
Percent lipids		0.51			1.24			0.68			0.71			1.26			0.4			1.26	
PCB-1	< 5.63	<1		< 7.94	<1		< 10.6	<2		< 7.26	<1		< 8.05	<1		< 6.67	<2		< 13.8	<1	
PCB-2	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-3	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-4/10	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-5/8	18.5	3.6		< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-6	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-7/9	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-11	< 16.5	<3	U	< 18	<1	U	32.7	4.8		32.3	4.5		21.9	1.7		< 6.67	<2	U	< 13.8	<1	U
PCB-12/13	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-14	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-15	5.78	1.13		< 7.94	<1	U	< 10.6	<2	U	8.17	1.15		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-16/32	21.1	4.1		18.4	1.5		< 10.6	<2	U	32.4	4.6		16.2	1.3		18	4.5		29.5	2.3	
PCB-17	9.34	1.83		< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-18	17	3.3		10.6	0.9		< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	6.85	1.71		< 13.8	<1	U
PCB-19	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-20/21/33	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-22	7.79	1.53		< 7.94	<1	U	< 10.6	<2	U	11.1	1.6		< 8.05	<1	U	7.14	1.79		< 13.8	<1	U
PCB-23	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-24/27	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-25	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-26	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-28	18.9	3.7		15	1.2		14.6	2.1		21.3	3		12.1	1		15	3.8		25.6	2	
PCB-29	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-30	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-31	12.6	2.5		9.51	0.77		< 10.6	<2	U	14.5	2		< 8.05	<1	U	9.37	2.34		< 13.8	<1	U
PCB-34	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-35	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-36	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-37	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-38	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	9.07	1.28		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-39	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-40	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-41/64/71/72	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	43.2	6.1		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-42/59	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-43/49	65.2	12.8		64.6	5.2		94.7	13.9		241	34		108	9		109	27		214	17	
PCB-44	6.76	1.33		< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	7.63	1.91		< 13.8	<1	U
PCB-45	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-46	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-47	102	20		98.6	8		164	24		409	58		182	14		185	46		388	31	
PCB-48/75	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-50	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-51	45.8	9		48.7	3.9		76.2	11.2		166	23		80	6.3		< 6.67	<2	U	134	11	
PCB-52/69	23.9	4.7		24.8	2		35	5.1		79.3	11.2		35	2.8		39.7	9.9		66.2	5.3	
PCB-53	31.8	6.2		31.3	2.5		45.4	6.7		102	14		49.5	3.9		56.2	14.1		83.2	6.6	
PCB-54	7.46	1.46		8.27	0.67		< 10.6	<2	U	25.4	3.6		13.1	1		14.8	3.7		20.3	1.6	
PCB-55	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-56/60	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-57	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-58	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-61/70	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	17.5	2.5		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-62	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-63	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-65	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-302-D			TI-302-E			TI-303-A			TI-303-B			TI-303-C			TI-303-D			TI-303-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-66/76	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	19.7	2.8		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-67	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	20.9	1.7	
PCB-68	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-73	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	10.3	1.5		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-74	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-77	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-78	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-79	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-80	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-81	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-82	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-83	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-84/92	11.5	2.3		< 7.94	<1	U	26.1	3.8		43.5	6.1		22.1	1.8		22.5	5.6		77.4	6.1	
PCB-85/116	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-86	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-87/117/125	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-88/91	< 5.63	<1	U	< 7.94	<1	U	72.4	10.6		120	17		65.8	5.2		71.2	17.8		166	13	
PCB-89	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-90/101	47	9.2		46.3	3.7		101	15		198	28		100	7.9		102	26		324	26	
PCB-93	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-94	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	10.3	1.5		< 8.05	<1	U	< 6.67	<2	U	28.4	2.3	
PCB-95/98/102	29.8	5.8		26.3	2.1		72.5	10.7		123	17		67.7	5.4		74.9	18.7		131	10	
PCB-96	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-97	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-99	28.9	5.7		26.8	2.2		74.5	11		145	20		72.2	5.7		75.7	18.9		302	24	
PCB-100	24.1	4.7		20.3	1.6		80.6	11.9		153	22		84	6.7		88.9	22.2		704	56	
PCB-103	10	1.96		8.82	0.71		27.9	4.1		59.9	8.4		29	2.3		30	7.5		185	15	
PCB-104	< 5.63	<1	U	< 7.94	<1	U	13.8	2		< 7.26	<1	U	13.9	1.1		< 6.67	<2	U	65.6	5.2	
PCB-105	8.16	1.6		< 7.94	<1	U	12.6	1.9		18.6	2.6		11.5	0.9		12.5	3.1		19.9	1.6	
PCB-106/118	25.1	4.9		27.1	2.2		52.4	7.7		76.9	10.8		47.1	3.7		50.4	12.6		91.3	7.2	
PCB-107/109	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-108/112	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-110	27.9	5.5		28	2.3		55.4	8.1		94.1	13.3		54.4	4.3		57.5	14.4		100	7.9	
PCB-111/115	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-113	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-114	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-119	6.03	1.18		< 7.94	<1	U	22.1	3.3		36.2	5.1		18	1.4		< 6.67	<2	U	132	10	
PCB-120	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-121	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	22.9	1.8	
PCB-122	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-123	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-124	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-126	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-127	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-128/162	< 5.63	<1	U	< 7.94	<1	U	35	5.1		42.5	6		30.5	2.4		33.2	8.3		54	4.3	
PCB-129	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-130	9.75	1.91		10	0.81		39.1	5.8		43.7	6.2		< 8.05	<1	U	34.3	8.6		56.6	4.5	
PCB-131/133	< 5.63	<1	U	< 7.94	<1	U	27.5	4		28.7	4		21.6	1.7		24.3	6.1		47.1	3.7	
PCB-132/161	23.9	4.7		23.1	1.9		108	16		132	19		92.1	7.3		94.9	23.7		164	13	
PCB-134/143	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	24.2	3.4		16.2	1.3		< 6.67	<2	U	34.6	2.7	
PCB-135	< 5.63	<1	U	19.4	1.6		73.6	10.8		101	14		63.5	5		75.1	18.8		141	11	
PCB-136	25.3	5		20.3	1.6		115	17		160	23		108	9		120	30		183	15	
PCB-137	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-138/163/164	147	29		140	11		453	67		565	80		391	31		426	107		765	61	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-302-D			TI-302-E			TI-303-A			TI-303-B			TI-303-C			TI-303-D			TI-303-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-139/149	150	29		130	10		642	94		836	118		555	44		650	163		1090	87	
PCB-140	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	15.9	2.2		11.7	0.9		11.1	2.8		21.7	1.7	
PCB-141	13.9	2.7		14.4	1.2		15.9	2.3		56.1	7.9		18.9	1.5		20.2	5.1		77.3	6.1	
PCB-142	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-144	5.95	1.17		< 7.94	<1	U	< 10.6	<2	U	24.1	3.4		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-145	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-146/165	32.3	6.3		35.3	2.8		156	23		188	26		127	10		139	35		280	22	
PCB-147	13.7	2.7		12.2	1		53.6	7.9		71.2	10		44.3	3.5		53.9	13.5		150	12	
PCB-148	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	32	2.5	
PCB-150	< 5.63	<1	U	< 7.94	<1	U	26.6	3.9		< 7.26	<1	U	21.9	1.7		24.2	6.1		46.9	3.7	
PCB-151	44	8.6		< 7.94	<1	U	143	21		204	29		127	10		153	38		292	23	
PCB-152	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-153	159	31		166	13		682	100		882	124		579	46		607	152		1360	108	
PCB-154	14.3	2.8		< 7.94	<1	U	85.2	12.5		118	17		79.9	6.3		95.8	24		194	15	
PCB-155	< 5.63	<1	U	< 7.94	<1	U	12.1	1.8		11.8	1.7		8.68	0.69		9.64	2.41		< 13.8	<1	U
PCB-156	7.71	1.51		< 7.94	<1	U	20.9	3.1		32.6	4.6		< 8.05	<1	U	23.5	5.9		< 13.8	<1	U
PCB-157	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-158/160	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	27.9	3.9		< 8.05	<1	U	< 6.67	<2	U	42.4	3.4	
PCB-159	< 5.63	<1	U	13.5	1.1		< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-166	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-167	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	12.4	1.7		< 8.05	<1	U	7.04	1.76		18.3	1.5	
PCB-168	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-169	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-170	57.6	11.3		68.6	5.5		235	35		338	48		219	17		234	59		379	30	
PCB-171	30.6	6		32.3	2.6		168	25		183	26		144	11		164	41		208	17	
PCB-172	6.81	1.34		8.88	0.72		< 10.6	<2	U	43.3	6.1		26.1	2.1		25	6.3		48.7	3.9	
PCB-173	< 5.63	<1	U	< 7.94	<1	U	12.5	1.8		< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-174	74.4	14.6		78.3	6.3		330	49		439	62		301	24		334	84		504	40	
PCB-175	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	20.9	2.9		17.8	1.4		< 6.67	<2	U	< 13.8	<1	U
PCB-176	23.9	4.7		24.9	2		145	21		144	20		130	10		140	35		168	13	
PCB-177	103	20		109	9		574	84		588	83		474	38		526	132		656	52	
PCB-178	48.3	9.5		52.7	4.3		204	30		205	29		177	14		200	50		243	19	
PCB-179	77.9	15.3		82.1	6.6		435	64		456	64		375	30		422	106		504	40	
PCB-180	73.1	14.3		86.8	7		92.4	13.6		359	51		111	9		126	32		453	36	
PCB-181	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-182/186	301	59		300	24		1320	194		1340	189		1140	90		1230	308		1510	120	
PCB-183	48.5	9.5		57.1	4.6		234	34		288	41		208	17		239	60		337	27	
PCB-184	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-185	11.6	2.3		10.7	0.9		52.6	7.7		61.6	8.7		47.5	3.8		56.6	14.2		70.5	5.6	
PCB-186	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-188	< 5.63	<1	U	< 7.94	<1	U	13.8	2		12.8	1.8		11.5	0.9		< 6.67	<2	U	< 13.8	<1	U
PCB-189	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	16.3	2.3		10.5	0.8		< 6.67	<2	U	17.2	1.4	
PCB-190	24.9	4.9		28.8	2.3		113	17		128	18		103	8		110	28		148	12	
PCB-191	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	7.59	1.07		< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-192	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-193	20.8	4.1		21.4	1.7		69.3	10.2		79.3	11.2		64	5.1		70.7	17.7		95.2	7.6	
PCB-194	24.1	4.7		36	2.9		80.3	11.8		166	23		80.5	6.4		93.4	23.4		158	13	
PCB-195	41.9	8.2		50.2	4		243	36		291	41		258	20		256	64		304	24	
PCB-196/203	78.1	15.3		88.7	7.2		376	55		467	66		366	29		392	98		502	40	
PCB-197	12.1	2.4		11.4	0.9		< 10.6	<2	U	57.4	8.1		50.6	4		< 6.67	<2	U	62.7	5	
PCB-198	< 5.63	<1	U	< 7.94	<1	U	29.3	4.3		29.9	4.2		23.5	1.9		26.5	6.6		36.4	2.9	
PCB-199	< 5.63	<1	U	77.7	6.3		409	60		497	70		386	31		395	99		499	40	
PCB-200	13.3	2.6		< 7.94	<1	U	77.2	11.4		83	11.7		73.8	5.9		74.5	18.6		84.4	6.7	
PCB-201	40	7.8		43.8	3.5		160	24		167	24		152	12		149	37		171	14	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-302-D			TI-302-E			TI-303-A			TI-303-B			TI-303-C			TI-303-D			TI-303-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-202	76.5	15		89.4	7.2		225	33		215	30		200	16		218	55		236	19	
PCB-204	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
PCB-205	< 5.63	<1	U	< 7.94	<1	U	31	4.6		34.7	4.9		26.3	2.1		29.2	7.3		< 13.8	<1	U
PCB-206	38.2	7.5		41.8	3.4		130	19		146	21		117	9		127	32		140	11	
PCB-207	12	2.4		14	1.1		35.8	5.3		37.7	5.3		34.1	2.7		36.5	9.1		39.5	3.1	
PCB-208	67.5	13.2		76.2	6.1		113	17		110	15		106	8		116	29		109	9	
PCB-209	91.1	17.9		103	8		142	21		146	21		139	11		146	37		150	12	
Total monoCB	< 5.63	<1	U	< 7.94	<1	U	< 10.6	<2	U	< 7.26	<1	U	< 8.05	<1	U	< 6.67	<2	U	< 13.8	<1	U
Total diCB	40.8	8		18	1.5		< 32.7	<5	U	40.5	5.7		21.9	1.7		< 6.67	<2	U	< 13.8	<1	U
Total triCB	86.8	17		53.6	4.3		14.6	2.1		88.4	12.5		28.3	2.2		56.4	14.1		55.1	4.4	
Total tetraCB	283	55		276	22		415	61		1110	156		467	37		413	103		927	74	
Total pentaCB	219	43		184	15		611	90		1080	152		586	47		585	146		2350	186	
Total hexaCB	647	127		584	47		2690	396		3580	504		2290	182		2600	650		5040	400	
Total heptaCB	902	177		962	78		4000	588		4710	663		3560	283		3880	970		5340	424	
Total octaCB	286	56		397	32		1630	240		2010	283		1620	129		1630	408		2050	163	
Total nonaCB	118	23		132	11		278	41		294	41		257	20		279	70		288	23	
DecaCB	91.1	17.9		103	8		142	21		146	21		139	11		146	37		150	12	
Total PCB	**2673.7**	**524**		**2709.6**	**219**		**9780.6**	**1438**		**13058.9**	**1839**		**8969.2**	**712**		**9589.4**	**2397**		**16200.1**	**1286**	

PCB = polychlorinate
pg/g = picogram per g
µg/g = microgram per

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-304-A			TI-304-B			TI-304-C			TI-304-D			TI-304-E			TI-305-A			TI-305-B			TI-305-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
Percent lipids		1.05			1.05			0.74			0.88			0.82			1.01			1.4			1.06	
PCB-1	< 8.6	<1		< 10.1	<1		< 5.05	<1		< 4.54	<1		< 10.7	<1		< 29.6	<3		< 9.7	<1		< 30.1	<3	
PCB-2	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-3	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-4/10	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-5/8	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-6	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-7/9	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-11	< 14.5	<1	U	< 20.9	<2	U	< 5.05	<1	U	< 18.1	<2	U	< 19.8	<2	U	50.5	5		< 9.7	<1	U	52	4.9	
PCB-12/13	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-14	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-15	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	6.78	0.77		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-16/32	22.5	2.1		22.3	2.1		< 5.05	<1	U	30.9	3.5		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-17	< 8.6	<1	U	< 10.1	<1	U	5.12	0.69		7	0.8		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-18	< 8.6	<1	U	10.3	1		7.85	1.06		10.5	1.2		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-19	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-20/21/33	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	16.1	1.8		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-22	9	0.86		< 10.1	<1	U	6.39	0.86		13.6	1.5		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-23	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-24/27	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-25	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-26	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-28	25.1	2.4		22.6	2.2		13.8	1.9		27.6	3.1		20.6	2.5		< 29.6	<3	U	< 9.7	<1	U	37.5	3.5	
PCB-29	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-30	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-31	17.6	1.7		12.9	1.2		11.5	1.6		15.8	1.8		13.6	1.7		< 29.6	<3	U	14.1	1		< 30.1	<3	U
PCB-34	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-35	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-36	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-37	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-38	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	9.83	1.12		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-39	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-40	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-41/64/71/72	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	48.8	5.5		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-42/59	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-43/49	147	14		140	13		45.1	6.1		284	32		84.2	10.3		213	21		90.9	6.5		176	17	
PCB-44	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	8.37	0.95		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-45	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-46	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-47	234	22		230	22		69.6	9.4		464	53		137	17		332	33		137	10		272	26	
PCB-48/75	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	11.4	1.3		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-50	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-51	82.6	7.9		86.3	8.2		27.2	3.7		217	25		< 10.7	<1	U	127	13		53.5	3.8		92.8	8.8	
PCB-52/69	49.9	4.8		50.9	4.8		17	2.3		94.2	10.7		< 10.7	<1	U	87.6	8.7		31.9	2.3		65.7	6.2	
PCB-53	54.9	5.2		60.2	5.7		17.8	2.4		145	16		37.8	4.6		79.5	7.9		42.3	3		< 30.1	<3	U
PCB-54	12	1.1		11.7	1.1		< 5.05	<1	U	39.8	4.5		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-55	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-56/60	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-57	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-58	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-61/70	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	18.3	2.1		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-62	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-63	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-65	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-304-A			TI-304-B			TI-304-C			TI-304-D			TI-304-E			TI-305-A			TI-305-B			TI-305-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-66/76	17.8	1.7		< 10.1	<1	U	< 5.05	<1	U	21.5	2.4		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-67	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-68	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-73	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	13.2	1.5		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-74	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	5.91	0.67		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-77	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-78	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-79	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-80	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-81	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-82	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-83	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-84/92	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	41.3	4.7		< 10.7	<1	U	< 29.6	<3	U	27.7	2		< 30.1	<3	U
PCB-85/116	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-86	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-87/117/125	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	21.1	2.4		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-88/91	44.4	4.2		48.4	4.6		17.2	2.3		115	13		31.7	3.9		67	6.6		38	2.7		< 30.1	<3	U
PCB-89	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-90/101	100	9.5		104	10		35.9	4.9		184	21		63.7	7.8		151	15		86.5	6.2		151	14	
PCB-93	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-94	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	8.51	0.97		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-95/98/102	66.5	6.3		60.8	5.8		21.2	2.9		107	12		45.3	5.5		94.4	9.3		55.9	4		< 30.1	<3	U
PCB-96	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	7.08	0.8		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-97	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	8.99	1.02		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-99	62.7	6		60.4	5.8		23.2	3.1		117	13		42.4	5.2		104	10		57.8	4.1		93.1	8.8	
PCB-100	52.8	5		46.6	4.4		16.4	2.2		132	15		34.3	4.2		< 29.6	<3	U	31.6	2.3		63.9	6	
PCB-103	20.4	1.9		< 10.1	<1	U	7.5	1.01		57.3	6.5		13.2	1.6		< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-104	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	17.4	2		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-105	12.9	1.2		12	1.1		5.93	0.8		16.3	1.9		11.1	1.4		< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-106/118	49.4	4.7		< 10.1	<1	U	17.9	2.4		67.8	7.7		34.5	4.2		79.3	7.9		49.1	3.5		< 30.1	<3	U
PCB-107/109	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-108/112	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-110	62.1	5.9		56.1	5.3		19.3	2.6		86.3	9.8		38.5	4.7		88.3	8.7		57.6	4.1		82.3	7.8	
PCB-111/115	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-113	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-114	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-119	< 8.6	<1	U	16.5	1.6		< 5.05	<1	U	50.5	5.7		< 10.7	<1	U	< 29.6	<3	U	12.2	0.9		< 30.1	<3	U
PCB-120	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-121	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-122	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-123	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-124	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-126	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-127	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-128/162	25.2	2.4		< 10.1	<1	U	10.5	1.4		29.6	3.4		< 10.7	<1	U	< 29.6	<3	U	22.8	1.6		< 30.1	<3	U
PCB-129	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	5.52	0.63		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-130	24	2.3		19.3	1.8		< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	17.1	1.2		< 30.1	<3	U
PCB-131/133	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	18.9	2.1		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-132/161	65.3	6.2		52.9	5		21.2	2.9		78.4	8.9		41.2	5		< 29.6	<3	U	38	2.7		64.1	6	
PCB-134/143	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	15.4	1.8		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-135	42.8	4.1		35.2	3.4		< 5.05	<1	U	59.6	6.8		27.4	3.3		71.6	7.1		31.5	2.3		38.7	3.7	
PCB-136	52.7	5		< 10.1	<1	U	22.2	3		83.6	9.5		38.1	4.6		80.3	8		39.7	2.8		53.8	5.1	
PCB-137	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-138/163/164	347	33		237	23		110	15		428	49		199	24		405	40		209	15		326	31	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-304-A			TI-304-B			TI-304-C			TI-304-D			TI-304-E			TI-305-A			TI-305-B			TI-305-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-139/149	316	30		271	26		131	18		474	54		213	26		414	41		221	16		333	31	
PCB-140	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-141	52.4	5		39.7	3.8		10.4	1.4		70.4	8		20.4	2.5		53.3	5.3		29.3	2.1		52.9	5	
PCB-142	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-144	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	16.2	1.8		< 10.7	<1	U	< 29.6	<3	U	14	1		< 30.1	<3	U
PCB-145	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-146/165	78.9	7.5		61.4	5.8		28.8	3.9		108	12		54.1	6.6		119	12		57.7	4.1		87.9	8.3	
PCB-147	19.4	1.8		< 10.1	<1	U	8.21	1.11		72.1	8.2		15.4	1.9		30.4	3		15	1.1		< 30.1	<3	U
PCB-148	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-150	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	15.2	1.7		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-151	93.2	8.9		77.7	7.4		< 5.05	<1	U	129	15		57.7	7		116	11		< 9.7	<1	U	94.9	9	
PCB-152	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-153	401	38		317	30		154	21		608	69		265	32		518	51		258	18		434	41	
PCB-154	31.9	3		28	2.7		14.6	2		64.9	7.4		25.4	3.1		< 29.6	<3	U	< 9.7	<1	U	51	4.8	
PCB-155	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-156	19	1.8		13.8	1.3		6.11	0.83		30	3.4		< 10.7	<1	U	< 29.6	<3	U	10.7	0.8		< 30.1	<3	U
PCB-157	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-158/160	22.9	2.2		< 10.1	<1	U	< 5.05	<1	U	31.5	3.6		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-159	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-166	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-167	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	13.8	1.6		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-168	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-169	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-170	168	16		132	13		54.5	7.4		272	31		95.4	11.6		210	21		87.1	6.2		175	17	
PCB-171	64.8	6.2		49.6	4.7		29.3	4		84.4	9.6		48.3	5.9		80.5	8		44.5	3.2		< 30.1	<3	U
PCB-172	26	2.5		16.5	1.6		7.72	1.04		41.4	4.7		< 10.7	<1	U	41.6	4.1		14.3	1		< 30.1	<3	U
PCB-173	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	6.77	0.77		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-174	182	17		144	14		68	9.2		255	29		112	14		250	25		116	8		192	18	
PCB-175	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	13.7	1.6		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-176	42.9	4.1		< 10.1	<1	U	21.2	2.9		55.8	6.3		35	4.3		< 29.6	<3	U	27.3	2		< 30.1	<3	U
PCB-177	196	19		160	15		94.5	12.8		244	28		160	20		259	26		141	10		227	21	
PCB-178	< 8.6	<1	U	66.1	6.3		41.5	5.6		97.3	11.1		66.7	8.1		125	12		57.6	4.1		91.1	8.6	
PCB-179	133	13		114	11		69.9	9.4		174	20		109	13		193	19		95.8	6.8		144	14	
PCB-180	293	28		210	20		56.9	7.7		546	62		106	13		420	42		162	12		349	33	
PCB-181	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-182/186	471	45		357	34		243	33		609	69		406	50		670	66		345	25		550	52	
PCB-183	111	11		90	8.6		45.5	6.1		174	20		78.7	9.6		162	16		73	5.2		128	12	
PCB-184	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-185	23.7	2.3		< 10.1	<1	U	10.6	1.4		30.6	3.5		16.6	2		< 29.6	<3	U	16.3	1.2		30.1	2.8	
PCB-186	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-188	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	5.09	0.58		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-189	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	12.4	1.4		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-190	50.8	4.8		39.3	3.7		21.9	3		72.1	8.2		< 10.7	<1	U	73.2	7.2		30.1	2.2		58.8	5.5	
PCB-191	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	9.79	1.11		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-192	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-193	34	3.2		29.2	2.8		15.1	2		47.2	5.4		29.4	3.6		42.7	4.2		23.3	1.7		37.5	3.5	
PCB-194	81.8	7.8		< 10.1	<1	U	23.4	3.2		157	18		40.6	5		159	16		45.8	3.3		98.9	9.3	
PCB-195	75.1	7.2		65.9	6.3		38.7	5.2		103	12		64.4	7.9		111	11		< 9.7	<1	U	87.9	8.3	
PCB-196/203	139	13		118	11		69.6	9.4		224	25		106	13		244	24		89.2	6.4		177	17	
PCB-197	< 8.6	<1	U	< 10.1	<1	U	8.88	1.2		< 4.54	<1	U	14.3	1.7		< 29.6	<3	U	12	0.9		< 30.1	<3	U
PCB-198	10.9	1		< 10.1	<1	U	< 5.05	<1	U	12.6	1.4		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-199	131	12		105	10		59.8	8.1		208	24		97.5	11.9		221	22		74.9	5.4		140	13	
PCB-200	21.5	2		< 10.1	<1	U	< 5.05	<1	U	29.2	3.3		19.2	2.3		38.6	3.8		15.4	1.1		< 30.1	<3	U
PCB-201	48.3	4.6		44.6	4.2		< 5.05	<1	U	61.2	7		< 10.7	<1	U	77.1	7.6		< 9.7	<1	U	70.1	6.6	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-304-A			TI-304-B			TI-304-C			TI-304-D			TI-304-E			TI-305-A			TI-305-B			TI-305-C		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-202	92.5	8.8		81	7.7		59.6	8.1		101	11		111	14		157	16		81.8	5.8		139	13	
PCB-204	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-205	11.5	1.1		< 10.1	<1	U	< 5.05	<1	U	13.7	1.6		< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
PCB-206	50	4.8		47.4	4.5		29.8	4		70.4	8		47.2	5.8		89.9	8.9		< 9.7	<1	U	65	6.1	
PCB-207	13.6	1.3		15.7	1.5		< 5.05	<1	U	16.2	1.8		15.1	1.8		< 29.6	<3	U	12.9	0.9		< 30.1	<3	U
PCB-208	67.5	6.4		60.9	5.8		40.7	5.5		69.8	7.9		85.6	10.4		105	10		63.7	4.6		105	10	
PCB-209	96.2	9.2		79.5	7.6		59.3	8		96.1	10.9		114	14		138	14		87.4	6.2		148	14	
Total monoCB	< 8.6	<1	U	< 10.1	<1	U	< 5.05	<1	U	< 4.54	<1	U	< 10.7	<1	U	< 29.6	<3	U	< 9.7	<1	U	< 30.1	<3	U
Total diCB	< 14.5	<1	U	< 20.9	<2	U	< 5.05	<1	U	6.8	0.77		19.8	2.4		50.5	5		< 9.7	<1	U	52	4.9	
Total triCB	74.2	7.1		68.2	6.5		44.6	6		131	15		< 34.1	<4	U	< 29.6	#VALUE!	#####	14.1	1		37.5	3.5	
Total tetraCB	598	57		579	55		177	24		1370	156		259	32		839	83		356	25		607	57	
Total pentaCB	472	45		405	39		165	22		1040	118		315	38		584	58		417	30		391	37	
Total hexaCB	1590	151		1150	110		516	70		2350	267		956	117		1810	179		964	69		1540	145	
Total heptaCB	1800	171		1410	134		780	105		2750	313		1260	154		2530	250		1230	88		1980	186	
Total octaCB	611	58		415	40		260	35		909	103		453	55		1010	100		319	23		713	67	
Total nonaCB	131	12		124	12		70.5	9.5		156	18		148	18		195	19		76.6	5.5		170	16	
DecaCB	96.2	9.2		79.5	7.6		59.3	8		96.1	10.9		114	14		138	14		87.4	6.2		148	14	
Total PCB	**5372.4**	**512**		**4230.7**	**403**		**2072.4**	**280**		**8808.9**	**1001**		**3524.8**	**430**		**7156.5**	**709**		**3464.1**	**247**		**5638.5**	**532**	

PCB = polychlorinate
pg/g = picogram per g
µg/g = microgram per

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-305-D			TI-305-E			CONTROL-A			CONTROL-B			CONTROL-C			CONTROL-D			CONTROL-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
Percent lipids		1.07			0.99			0.57			0.6			0.67			0.63			0.46	
PCB-1	< 13.5	<1		< 16.4	<2		< 4.45	<1		< 5.49	<1		< 6.56	<1		< 7.65	<1		< 5.49	<1	
PCB-2	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-3	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-4/10	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-5/8	< 13.5	<1	U	< 16.4	<2	U	10.2	1.8		11.6	1.9		13.5	2		< 7.65	<1	U	15.8	3.4	
PCB-6	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-7/9	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-11	29.4	2.7		37.6	3.8		47.4	8.3		46.8	7.8		45.3	6.8		54.7	8.7		45.1	9.8	
PCB-12/13	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-14	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-15	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	5.99	1.3	
PCB-16/32	< 13.5	<1	U	< 16.4	<2	U	10.1	1.8		15.3	2.6		14.9	2.2		< 7.65	<1	U	14.8	3.2	
PCB-17	< 13.5	<1	U	< 16.4	<2	U	6.95	1.22		9.05	1.51		11.2	1.7		9.26	1.47		10.8	2.3	
PCB-18	< 13.5	<1	U	< 16.4	<2	U	10.4	1.8		12.1	2		15.5	2.3		13.1	2.1		17	3.7	
PCB-19	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-20/21/33	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-22	< 13.5	<1	U	< 16.4	<2	U	4.83	0.85		< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	6.43	1.4	
PCB-23	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-24/27	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-25	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-26	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-28	22.4	2.1		< 16.4	<2	U	11.9	2.1		15.6	2.6		< 6.56	<1	U	13.4	2.1		16.1	3.5	
PCB-29	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-30	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-31	17.4	1.6		< 16.4	<2	U	9.03	1.58		10.6	1.8		10.7	1.6		< 7.65	<1	U	13.7	3	
PCB-34	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-35	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-36	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-37	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-38	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-39	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-40	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-41/64/71/72	< 13.5	<1	U	< 16.4	<2	U	25.1	4.4		29.5	4.9		33.2	5		31.1	4.9		30.5	6.6	
PCB-42/59	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-43/49	118	11		50	5.1		33.5	5.9		46.9	7.8		45.2	6.7		41.1	6.5		45.4	9.9	
PCB-44	< 13.5	<1	U	< 16.4	<2	U	13.1	2.3		16.8	2.8		< 6.56	<1	U	< 7.65	<1	U	17.3	3.8	
PCB-45	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-46	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-47	184	17		86.1	8.7		21	3.7		36.5	6.1		27.6	4.1		24.1	3.8		25.8	5.6	
PCB-48/75	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-50	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-51	< 13.5	<1	U	32.3	3.3		< 4.45	<1	U	9.09	1.52		< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-52/69	45.2	4.2		< 16.4	<2	U	26.5	4.6		32.7	5.5		33.3	5		29.4	4.7		30.9	6.7	
PCB-53	47	4.4		21.4	2.2		< 4.45	<1	U	8.51	1.42		< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-54	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-55	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-56/60	< 13.5	<1	U	< 16.4	<2	U	9.83	1.72		< 5.49	<1	U	13.1	2		< 7.65	<1	U	11.8	2.6	
PCB-57	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-58	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-61/70	< 13.5	<1	U	< 16.4	<2	U	17.1	3		17.3	2.9		21.7	3.2		20.7	3.3		21.8	4.7	
PCB-62	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-63	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-65	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-305-D			TI-305-E			CONTROL-A			CONTROL-B			CONTROL-C			CONTROL-D			CONTROL-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-66/76	< 13.5	<1	U	< 16.4	<2	U	18.5	3.2		19	3.2		22.2	3.3		18.2	2.9		19.7	4.3	
PCB-67	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-68	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-73	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-74	< 13.5	<1	U	< 16.4	<2	U	9.42	1.65		8.06	1.34		10.7	1.6		< 7.65	<1	U	9.26	2.01	
PCB-77	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-78	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-79	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-80	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-81	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-82	< 13.5	<1	U	< 16.4	<2	U	5.01	0.88		< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	5.53	1.2	
PCB-83	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-84/92	< 13.5	<1	U	< 16.4	<2	U	28.8	5.1		29.4	4.9		34.8	5.2		33.8	5.4		33.9	7.4	
PCB-85/116	< 13.5	<1	U	< 16.4	<2	U	9.56	1.68		< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-86	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-87/117/125	< 13.5	<1	U	< 16.4	<2	U	15.2	2.7		< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-88/91	45.6	4.3		< 16.4	<2	U	26.2	4.6		33.1	5.5		35.6	5.3		31.3	5		33	7.2	
PCB-89	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-90/101	101	9		51.5	5.2		116	20		114	19		123	18		115	18		119	26	
PCB-93	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-94	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-95/98/102	61	5.7		< 16.4	<2	U	53.7	9.4		54.6	9.1		63.1	9.4		58.8	9.3		58.8	12.8	
PCB-96	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-97	< 13.5	<1	U	< 16.4	<2	U	28.4	5		29.1	4.9		< 6.56	<1	U	29.4	4.7		28.9	6.3	
PCB-99	70.5	6.6		30.4	3.1		95.1	16.7		95.6	15.9		106	16		96.9	15.4		92.1	20	
PCB-100	< 13.5	<1	U	19.3	1.9		< 4.45	<1	U	6.38	1.06		< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-103	< 13.5	<1	U	< 16.4	<2	U	5.14	0.9		6.3	1.05		< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-104	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-105	< 13.5	<1	U	< 16.4	<2	U	17	3		16.4	2.7		16.8	2.5		15.7	2.5		17.4	3.8	
PCB-106/118	53	5		< 16.4	<2	U	65	11.4		57.7	9.6		66.1	9.9		65.6	10.4		64.5	14	
PCB-107/109	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-108/112	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-110	60	5.6		33.6	3.4		69.5	12.2		63.1	10.5		70.1	10.5		69.8	11.1		69	15	
PCB-111/115	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-113	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-114	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-119	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	5.52	0.92		< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-120	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-121	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-122	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-123	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-124	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-126	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-127	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-128/162	< 13.5	<1	U	< 16.4	<2	U	17.2	3		16.6	2.8		18.1	2.7		18.4	2.9		16.5	3.6	
PCB-129	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-130	20.2	1.9		< 16.4	<2	U	11.6	2		8.18	1.36		< 6.56	<1	U	< 7.65	<1	U	10.1	2.2	
PCB-131/133	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-132/161	44.9	4.2		< 16.4	<2	U	14.8	2.6		12.7	2.1		17.4	2.6		15.9	2.5		18.3	4	
PCB-134/143	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-135	35.4	3.3		20.8	2.1		< 4.45	<1	U	16.8	2.8		20.8	3.1		17.6	2.8		16.5	3.6	
PCB-136	47.1	4.4		26.9	2.7		19	3.3		< 5.49	<1	U	22.1	3.3		< 7.65	<1	U	20.5	4.5	
PCB-137	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-138/163/164	258	24		141	14		152	27		121	20		146	22		146	23		144	31	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-305-D			TI-305-E			CONTROL-A			CONTROL-B			CONTROL-C			CONTROL-D			CONTROL-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-139/149	273	26		148	15		152	27		146	24		151	23		152	24		139	30	
PCB-140	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-141	31.1	2.9		< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-142	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-144	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-145	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-146/165	75.2	7		38.6	3.9		49.1	8.6		42.9	7.2		48.3	7.2		47.6	7.6		46.6	10.1	
PCB-147	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	10.3	1.7		< 6.56	<1	U	< 7.65	<1	U	10	2.17	
PCB-148	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-150	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	5.56	0.93		7.64	1.14		< 7.65	<1	U	< 5.49	<1	U
PCB-151	78.4	7.3		43.4	4.4		35.8	6.3		26.2	4.4		28.3	4.2		31.2	5		28.4	6.2	
PCB-152	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-153	341	32		171	17		180	32		165	28		190	28		182	29		183	40	
PCB-154	< 13.5	<1	U	16.4	1.7		24.8	4.4		26.3	4.4		26.6	4		23.7	3.8		21.9	4.8	
PCB-155	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	8.78	1.31		< 7.65	<1	U	< 5.49	<1	U
PCB-156	15.5	1.4		< 16.4	<2	U	5.7	1		5.8	0.97		< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-157	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-158/160	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-159	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	5.64	0.94		< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-166	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-167	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-168	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-169	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-170	108	10		61.1	6.2		16.2	2.8		15.3	2.6		18	2.7		18.2	2.9		17.2	3.7	
PCB-171	50.5	4.7		< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	7.61	1.14		< 7.65	<1	U	7.35	1.6	
PCB-172	13.8	1.3		< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-173	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-174	137	13		74.9	7.6		11.9	2.1		9.56	1.59		< 6.56	<1	U	12	1.9		15.4	3.3	
PCB-175	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-176	36.1	3.4		< 16.4	<2	U	5.84	1.02		< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	5.55	1.21	
PCB-177	166	16		113	11		34.7	6.1		26.8	4.5		30.5	4.6		31.6	5		29.9	6.5	
PCB-178	73.7	6.9		50.4	5.1		21.4	3.8		19.6	3.3		24.2	3.6		20.9	3.3		21	4.6	
PCB-179	122	11		77.7	7.8		27.3	4.8		23	3.8		< 6.56	<1	U	30.2	4.8		< 5.49	<1	U
PCB-180	180	17		73.5	7.4		< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	5.99	1.3	
PCB-181	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-182/186	446	42		302	31		159	28		133	22		163	24		163	26		155	34	
PCB-183	89.4	8.4		49.1	5		11.1	1.9		< 5.49	<1	U	11.7	1.7		13.5	2.1		< 5.49	<1	U
PCB-184	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-185	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-186	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-188	< 13.5	<1	U	< 16.4	<2	U	12.3	2.2		12.3	2.1		13.6	2		13.6	2.2		11.3	2.5	
PCB-189	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-190	42	3.9		25.4	2.6		7.71	1.35		< 5.49	<1	U	< 6.56	<1	U	8.88	1.41		7	1.52	
PCB-191	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-192	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-193	27.8	2.6		20.2	2		8.93	1.57		8.08	1.35		10.8	1.6		11	1.7		< 5.49	<1	U
PCB-194	57.3	5.4		28.4	2.9		< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	6.96	1.51	
PCB-195	60.1	5.6		41.8	4.2		8.19	1.44		< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	8.05	1.75	
PCB-196/203	122	11		69.9	7.1		21.4	3.8		21.6	3.6		26.1	3.9		< 7.65	<1	U	24.3	5.3	
PCB-197	< 13.5	<1	U	< 16.4	<2	U	7.79	1.37		6.59	1.1		< 6.56	<1	U	< 7.65	<1	U	6.8	1.48	
PCB-198	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-199	110	10		63.8	6.4		34.1	6		34.8	5.8		43.3	6.5		36.6	5.8		37.5	8.2	
PCB-200	20.9	2		< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-201	55.1	5.1		47.1	4.8		25.8	4.5		27.3	4.6		29.8	4.4		25.6	4.1		25.7	5.6	

Table 3-9
Benthic Worm Tissue PCB Results, 28-Day Bioaccumulation Test---Dark Head Cove 2020

Sample	TI-305-D			TI-305-E			CONTROL-A			CONTROL-B			CONTROL-C			CONTROL-D			CONTROL-E		
Analyte	pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids		pg/g wet wt	µg/g lipids	
PCB-202	110	10		81.6	8.2		47	8.2		48.5	8.1		51.2	7.6		47.7	7.6		45.8	10	
PCB-204	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-205	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
PCB-206	50.4	4.7		35.2	3.6		59.9	10.5		61.5	10.3		67.5	10.1		55.3	8.8		59.2	12.9	
PCB-207	16.6	1.6		< 16.4	<2	U	16.3	2.9		18.7	3.1		< 6.56	<1	U	15.6	2.5		< 5.49	<1	U
PCB-208	87.2	8.1		71.3	7.2		84.9	14.9		84.7	14.1		94.7	14.1		86.1	13.7		80.9	17.6	
PCB-209	121	11		91	9.2		150	26		160	27		182	27		159	25		152	33	
Total monoCB	< 13.5	<1	U	< 16.4	<2	U	< 4.45	<1	U	< 5.49	<1	U	< 6.56	<1	U	< 7.65	<1	U	< 5.49	<1	U
Total diCB	29.4	2.7		37.6	3.8		57.6	10.1		58.5	9.8		58.8	8.8		54.7	8.7		66.9	14.5	
Total triCB	39.7	3.7		< 16.4	<2	U	53.2	9.3		62.6	10.4		52.3	7.8		35.8	5.7		78.9	17.2	
Total tetraCB	394	37		190	19		174	31		224	37		207	31		165	26		213	46	
Total pentaCB	392	37		135	14		535	94		511	85		516	77		517	82		522	113	
Total hexaCB	1220	114		606	61		662	116		609	102		685	102		635	101		656	143	
Total heptaCB	1490	139		848	86		316	55		248	41		279	42		323	51		276	60	
Total octaCB	536	50		333	34		144	25		139	23		150	22		110	17		155	34	
Total nonaCB	154	14		106	11		161	28		165	28		162	24		157	25		140	30	
DecaCB	121	11		91	9.2		150	26		160	27		182	27		159	25		152	33	
Total PCB	**4376.1**	**409**		**2346.6**	**237**		**2252.8**	**395**		**2177.1**	**363**		**2292.1**	**342**		**2156.5**	**342**		**2259.8**	**491**	

PCB = polychlorinate
pg/g = picogram per g
µg/g = microgram per

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-302-A					PPW-302-B					PPW-302-C					PPW-303-A				
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**
2-Chlorobiphenyl	2051-60-7	4.46	4.093	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	0%	<1.52	U			0%	<1.41	U			0%	<1.45	U			0%	<1.41	U		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	1%	<1.52	U			1%	<1.41	U			1%	<1.45	U			1%	<1.41	U		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	4%	<0.760	U			4%	<0.705	U			4%	<0.724	U			4%	<0.704	U		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	3%	<0.760	U			3%	<0.705	U			3%	<0.724	U			3%	<0.704	U		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	9%	<0.760	U			9%	<0.705	U			9%	<0.724	U			9%	<0.704	U		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	9%	<0.760	U			9%	<0.705	U			9%	<0.724	U			9%	<0.704	U		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	9%	<0.760	U			9%	<0.705	U			9%	<0.724	U			9%	<0.704	U		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	5%	<0.760	U			5%	<0.705	U			5%	<0.724	U			5%	<0.704	U		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	9%	<0.760	U			9%	<0.705	U			9%	<0.724	U			9%	<0.704	U		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	0%	<0.760	U			0%	<0.705	U			0%	<0.724	U			0%	<0.704	U		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	5%	<0.760	U			5%	<0.705	U			5%	<0.724	U			5%	<0.704	U		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	9%	<0.760	U			9%	<0.705	U			9%	<0.724	U			9%	<0.704	U		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	19%	<0.760	U			19%	<0.705	U			19%	<0.724	U			19%	<0.704	U		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	22%	<0.760	U			22%	<0.705	U			22%	<0.724	U			22%	<0.704	U		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	19%	<0.760	U			19%	<0.705	U			19%	<0.724	U			19%	<0.704	U		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	15%	<0.760	U			15%	<0.705	U			15%	<0.724	U			15%	<0.704	U		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	23%	<0.760	U			23%	<0.705	U			23%	<0.724	U			23%	<0.704	U		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	9%	<0.760	U			9%	<0.705	U			9%	<0.724	U			9%	<0.704	U		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	11%	<0.760	U			11%	<0.705	U			11%	<0.724	U			11%	<0.704	U		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	15%	<0.760	U			15%	<0.705	U			15%	<0.724	U			15%	<0.704	U		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	14%	<0.760	U			14%	<0.705	U			14%	<0.724	U			14%	<0.704	U		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	14%	<0.760	U			14%	<0.705	U			14%	<0.724	U			14%	<0.704	U		
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	1%	<0.760	U			1%	<0.705	U			1%	<0.724	U			1%	<0.704	U		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	21%	2.98		3.8	0.01052	21%	5.03		6.3	0.01776	21%	2.66		3.4	0.00939	21%	4.93		6.2	0.01740
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	16%	<0.760	U			16%	<0.705	U			16%	<0.724	U			16%	<0.704	U		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	21%	2.26		2.8	0.00798	21%	3.09		3.9	0.01091	21%	2.04		2.6	0.00720	21%	3.34		4.2	0.01179
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	7%	<0.760	U			7%	<0.705	U			7%	<0.724	U			7%	<0.704	U		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	7%	3.11		3.3	0.01594	7%	4.32		4.6	0.02214	7%	2.63		2.8	0.01348	7%	4.28		4.6	0.02193
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	20%	1.24		1.5	0.00445	20%	1.83		2.3	0.00657	20%	1.03		1.3	0.00370	20%	1.84		2.3	0.00660
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	6%	2.5		2.7	0.01304	6%	3.71		4.0	0.01935	6%	2.27		2.4	0.01184	6%	3.39		3.6	0.01768
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	0%	0.719	J	0.7	0.00947	0%	1.06		1.1	0.01396	0%	0.71	J	0.7	0.00935	0%	0.972		1.0	0.01280
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	37%	<0.760	U			37%	<0.705	U			37%	<0.724	U			37%	<0.704	U		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	37%	<0.760	U			37%	<0.705	U			37%	<0.724	U			37%	<0.704	U		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	41%	<0.760	U			41%	<0.705	U			41%	<0.724	U			41%	<0.704	U		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	27%	<0.760	U			27%	<0.705	U			27%	<0.724	U			27%	<0.704	U		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	37%	<0.760	U			37%	<0.705	U			37%	<0.724	U			37%	<0.704	U		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	32%	<0.760	U			32%	<0.705	U			32%	<0.724	U			32%	<0.704	U		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	41%	<0.760	U			41%	<0.705	U			41%	<0.724	U			41%	<0.704	U		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	26%	<2.28	U			26%	<2.12	U			26%	<2.17	U			26%	<2.11	U		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	42%	<0.760	U			42%	<0.705	U			42%	<0.724	U			42%	<0.704	U		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	41%	<1.52	U			41%	<1.41	U			41%	<1.45	U			41%	<1.41	U		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	36%	<1.52	U			36%	<1.41	U			36%	<1.45	U			36%	<1.41	U		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	32%	<0.760	U			32%	<0.705	U			32%	<0.724	U			32%	<0.704	U		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	42%	<0.760	U			42%	<0.705	U			42%	<0.724	U			42%	<0.704	U		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	29%	<0.760	U			29%	0.496	J	0.7	0.00142	29%	<0.724	U			29%	0.417	J	0.6	0.00120
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	46%	<0.760	U			46%	<0.705	U			46%	<0.724	U			46%	<0.704	U		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	17%	<1.52	U			17%	<1.41	U			17%	<1.45	U			17%	<1.41	U		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	42%	<0.760	U			42%	<0.705	U			42%	<0.724	U			42%	<0.704	U		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	38%	<0.760	U			38%	<0.705	U			38%	<0.724	U			38%	<0.704	U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-302-A				PPW-302-B				PPW-302-C				PPW-303-A			
Congener	CAS	Log Kow	Log KPE-D*	% Retained	ng/g	ng/g corrected	ng/L	% Retained	ng/g	ng/g corrected	ng/L	% Retained	ng/g	ng/g corrected	ng/L	% Retained	ng/g	ng/g corrected	ng/L
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	52%	<0.760 UJ			52%	<0.705 UJ			52%	<0.724 UJ			52%	<0.704 UJ		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	52%	<0.760 U			52%	<0.705 U			52%	<0.724 U			52%	<0.704 U		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	56%	<0.760 U			56%	<0.705 U			56%	<0.724 U			56%	<0.704 U		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	60%	<0.760 U			60%	<0.705 U			60%	<0.724 U			60%	<0.704 U		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	52%	<0.760 U			52%	<0.705 U			52%	<0.724 U			52%	<0.704 U		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	44%	1.37	2.5	0.00275	44%	1.64	2.9	0.00329	44%	<0.724 U			44%	1.74	3.1	0.00349
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	53%	2.47	5.3	0.00419	53%	3.62	7.7	0.00614	53%	2.1	4.5	0.00356	53%	3.12	6.6	0.00529
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	40%	<0.760 U			40%	0.422 J	0.7	0.00093	40%	<0.724 U			40%	0.423 J	0.7	0.00093
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	44%	0.53 J	0.9	0.00108	44%	0.897	1.6	0.00182	44%	0.622 J	1.1	0.00126	44%	0.632 J	1.1	0.00128
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	18%	0.421 J	0.5	0.00159	18%	0.612 J	0.7	0.00231	18%	<0.724 U			18%	0.606 J	0.7	0.00228
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	70%	<0.760 U			70%	<0.705 U			70%	<0.724 U			70%	<0.704 U		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	70%	<0.760 U			70%	<0.705 U			70%	<0.724 U			70%	<0.704 U		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.52 U			75%	<1.41 U			75%	<1.45 U			75%	<1.41 U		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	74%	<0.760 UJ			74%	<0.705 UJ			74%	<0.724 UJ			74%	<0.704 UJ		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	60%	0.862	2.1	0.00131	60%	1.34	3.3	0.00204	60%	0.835	2.1	0.00127	60%	1.23	3.1	0.00187
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	64%	<0.760 U			64%	<0.705 U			64%	<0.724 U			64%	<0.704 U		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	70%	<0.760 U			70%	<0.705 U			70%	<0.724 U			70%	<0.704 U		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	60%	<0.760 U			60%	<0.705 U			60%	<0.724 U			60%	<0.704 U		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	50%	<0.760 U			50%	<0.705 U			50%	<0.724 U			50%	<0.704 U		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	59%	<0.760 U			59%	<0.705 U			59%	<0.724 U			59%	<0.704 U		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	76%	<0.760 U			76%	0.509 J	2.1	0.00069	76%	<0.724 U			76%	0.438 J	1.8	0.00060
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	66%	<0.760 U			66%	0.405 J	1.2	0.00057	66%	<0.724 U			66%	<0.704 U		
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	79%	<0.760 U			79%	<0.705 U			79%	<0.724 U			79%	<0.704 U		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	47%	1.91 J	3.6	0.00360	47%	2.63	5.0	0.00495	47%	1.7 J	3.2	0.00320	47%	2.15	4.1	0.00405
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	70%	<0.760 U			70%	<0.705 U			70%	<0.724 U			70%	<0.704 U		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.760 U			75%	<0.705 U			75%	<0.724 U			75%	<0.704 U		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	85%	<0.760 U			85%	<0.705 U			85%	<0.724 U			85%	<0.704 U		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	89%	<0.760 U			89%	<0.705 U			89%	<0.724 U			89%	<0.704 U		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	42%	<0.760 U			42%	<0.705 U			42%	<0.724 U			42%	<0.704 U		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	55%	<2.28 U			55%	<2.12 U			55%	<2.17 U			55%	<2.11 U		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	49%	<0.760 U			49%	<0.705 U			49%	<0.724 U			49%	<0.704 U		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	52%	<1.52 U			52%	<1.41 U			52%	<1.45 U			52%	<1.41 U		
2,2',3,4,5'-Pentachlorobiphenyl	38380-02-	6.525	6.26125	63%	<1.52 U			63%	<1.41 U			63%	<1.45 U			63%	<1.41 U		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	33%	<1.52 U			33%	<1.41 U			33%	<1.45 U			33%	<1.41 U		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	38%	1.22	2.0	0.00280	38%	1.54	2.5	0.00354	38%	0.926	1.5	0.00213	38%	1.66	2.7	0.00382
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	52%	0.681 J	1.4	0.00118	52%	0.464 J	1.0	0.00080	52%	0.462 J	1.0	0.00080	52%	<0.704 U		
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	32%	<0.760 U			32%	<0.705 U			32%	<0.724 U			32%	<0.704 U		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	38%	<0.760 U			38%	<0.705 U			38%	<0.724 U			38%	<0.704 U		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	12%	<0.760 U			12%	<0.705 U			12%	<0.724 U			12%	<0.704 U		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	48%	<0.760 U			48%	<0.705 U			48%	<0.724 U			48%	<0.704 U		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	38%	<0.760 U			38%	<0.705 U			38%	<0.724 U			38%	<0.704 U		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	54%	0.919	2.0	0.00153	54%	1.28	2.8	0.00212	54%	0.768	1.7	0.00127	54%	1.22	2.7	0.00202
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	76%	0.511 J	2.1	0.00069	76%	0.642 J	2.7	0.00087	76%	0.443 J	1.8	0.00060	76%	0.556 J	2.3	0.00076
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	84%	<1.52 U			84%	0.81 J	5.2	0.00122	84%	<1.45 U			84%	0.71 J	4.6	0.00107
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	87%	<1.52 U			87%	<1.41 U			87%	<1.45 U			87%	<1.41 U		
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	66%	<0.760 U			66%	<0.705 U			66%	<0.724 U			66%	<0.704 U		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	66%	1.57	4.6	0.00222	66%	2.34	6.9	0.00331	66%	1.38	4.1	0.00195	66%	2.07	6.1	0.00293
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	83%	<0.760 U			83%	<0.705 U			83%	<0.724 U			83%	<0.704 UJ		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	64%	<0.760 U			64%	<0.705 U			64%	<0.724 U			64%	<0.704 U		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	70%	0.843	2.8	0.00116	70%	1.55	5.1	0.00213	70%	0.952	3.2	0.00131	70%	1.12	3.7	0.00154
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	44%	1.31	2.3	0.00266	44%	1.83	3.2	0.00372	44%	1.32	2.3	0.00268	44%	1.68	3.0	0.00342
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	82%	<0.760 U			82%	<0.705 U			82%	<0.724 U			82%	<0.704 U		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	82%	2.23	12.1	0.00318	82%	3.51	19.1	0.00501	82%	1.92	10.4	0.00274	82%	3.02	16.4	0.00431
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	72%	<0.760 U			72%	<0.705 U			72%	<0.724 U			72%	<0.704 U		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	81%	1.05	5.5	0.00148	81%	1.4	7.4	0.00198	81%	0.769	4.0	0.00109	81%	1.18	6.2	0.00167
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	62%	<0.760 U			62%	<0.705 U			62%	<0.724 U			62%	<0.704 U		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	69%	<1.52 U			69%	<1.41 U			69%	<1.45 U			69%	<1.41 U		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	72%	<0.760 U			72%	0.557 J	2.0	0.00076	72%	<0.724 U			72%	0.544 J	1.9	0.00074
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	46%	<0.760 U			46%	<0.705 U			46%	<0.724 U			46%	<0.704 U		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	85%	1.11	7.6	0.00172	85%	1.71	11.7	0.00265	85%	0.843	5.8	0.00131	85%	1.2	8.2	0.00186
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	71%	5.42	18.5	0.00741	71%	9.37	32.0	0.01281	71%	5.78	19.7	0.00790	71%	8.08	27.6	0.01105
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.760 U			75%	<0.705 U			75%	<0.724 U			75%	<0.704 U		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	50%	<0.760 U			50%	<0.705 U			50%	<0.724 U			50%	<0.704 U		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	70%	1.7	5.6	0.00234	70%	3.49	11.6	0.00479	70%	1.76	5.8	0.00242	70%	2.41	8.0	0.00331
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	44%	<0.760 U			44%	<0.705 U			44%	<0.724 U			44%	<0.704 U		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	87%	4.89	38.3	0.00807	87%	7.55	59.1	0.01246	87%	4.47	35.0	0.00738	87%	6.51	51.0	0.01074
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	77%	<0.760 U			77%	0.491 J	2.2	0.00067	77%	0.406 J	1.8	0.00055	77%	0.452 J	2.0	0.00062
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	55%	<0.760 U			55%	<0.705 U			55%	<0.724 U			55%	<0.704 U		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	99%	<0.760 U			99%	<0.705 U			99%	<0.724 U			99%	<0.704 U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-302-A					PPW-302-B					PPW-302-C					PPW-303-A				
Congener	CAS	Log Kow	Log KPE-D*	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	97%	<0.760	U			97%	<0.705	U			97%	<0.724	U			97%	<0.704	U		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	90%	1.21	J	11.8	0.00225	90%	1.64		15.9	0.00305	90%	0.823	J	8.0	0.00153	90%	1.34	J	13.0	0.00249
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	95%	<0.760	U			95%	<0.705	U			95%	<0.724	U			95%	<0.704	U		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	88%	<0.760	U			88%	<0.705	U			88%	<0.724	U			88%	<0.704	U		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	99%	1.59		159.0	0.01438	99%	1.97		197.0	0.01782	99%	1.2		120.0	0.01086	99%	1.83		183.0	0.01656
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	99%	0.755	J	79.4	0.01058	99%	1.1		115.7	0.01542	99%	<0.724	U			99%	0.923		97.1	0.01294
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	99%	<0.760	U			99%	0.676	J	67.6	0.00529	99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,5,5',6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	93%	<0.760	U			93%	<0.705	U			93%	<0.724	U			93%	<0.704	U		
2,2',3,3',4,5,6,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	99%	2.03		213.6	0.02845	99%	3.02		317.8	0.04233	99%	1.97		206.3	0.02761	99%	2.5		263.1	0.03504
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	77%	0.596	J	2.6	0.00081	77%	0.797		3.5	0.00109	77%	<0.724	U			77%	0.579	J	2.5	0.00079
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	97%	1.18		41.9	0.00600	97%	2.1		74.5	0.01067	97%	1.24		44.0	0.00630	97%	1.91		67.8	0.00971
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	99%	<0.760	U			99%	0.602	J	60.2	0.00746	99%	0.687	J	68.7	0.00851	99%	0.882		88.2	0.01093
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	1.49		6.1	0.00202	75%	1.68		6.8	0.00228	75%	1.12		4.6	0.00152	75%	1.72		7.0	0.00233
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	99%	2.56		256.0	0.01863	99%	4.39		439.0	0.03195	99%	2.51		251.0	0.01827	99%	3.45		345.0	0.02511
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	99%	<1.52	U			99%	<1.41	U			99%	<1.45	U			99%	<1.41	U		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	99%	1.15		115.0	0.01232	99%	1.96		196.0	0.02100	99%	0.933		93.3	0.01000	99%	1.64		164.0	0.01757
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	83%	<0.760	U			83%	<0.705	U			83%	<0.724	U			83%	<0.704	U		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	73%	<0.760	U			73%	<0.705	U			73%	<0.724	U			73%	<0.704	U		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	99%	2.56		256.0	0.02949	99%	3.92		392.0	0.04516	99%	2.37		237.0	0.02731	99%	3.97		397.0	0.04574
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	81%	<0.760	U			81%	<0.705	U			81%	<0.724	U			81%	<0.704	U		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	99%	<0.760	U			99%	0.43	J	43.0	0.00246	99%	<0.724	U			99%	0.478	J	47.8	0.00273
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	99%	0.567	J	56.7	0.00142	99%	0.812		81.2	0.00204	99%	<0.724	U			99%	0.888		88.8	0.00223
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	99%	<0.760	U			99%	0.624	J	62.4	0.00225	99%	0.391	J	39.1	0.00141	99%	0.654	J	65.4	0.00236
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	99%	0.822		82.2	0.00744	99%	1.09		109.0	0.00986	99%	0.648	J	64.8	0.00586	99%	0.974		97.4	0.00881
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	99%	<0.760	U			99%	0.388	J	38.8	0.00377	99%	<0.724	U			99%	0.366	J	36.6	0.00356
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	99%	<0.760	U			99%	<0.705	U			99%	0.43	J	43.0	0.00155	99%	0.547	J	54.7	0.00197
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	99%	<1.52	U			99%	<1.41	U			99%	<1.45	U			99%	<1.41	U		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.760	U			99%	<0.705	U			99%	<0.724	U			99%	<0.704	U		

J = estimated result
U = non-detect
K_{ow} = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
ng/g = nanogram per gram
ng/L = nanogram per liter

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-303-B					PPW-303-C					PPW-304-A					PPW-304-B				
Congener	CAS	Log Kow	Log KPE-D*	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L
2-Chlorobiphenyl	2051-60-7	4.46	4.093	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	0%	<1.48	U			0%	<1.41	U			0%	<1.49	U			0%	<1.38	U		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	1%	<1.48	U			1%	<1.41	U			1%	<1.49	U			1%	<1.38	U		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	4%	<0.742	U			4%	<0.703	U			4%	<0.743	U			4%	<0.688	U		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	3%	<0.742	U			3%	<0.703	U			3%	<0.743	U			3%	<0.688	U		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	9%	<0.742	U			9%	<0.703	U			9%	<0.743	U			9%	<0.688	U		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	9%	<0.742	U			9%	<0.703	U			9%	<0.743	U			9%	<0.688	U		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	9%	<0.742	U			9%	<0.703	U			9%	<0.743	U			9%	<0.688	U		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	5%	<0.742	U			5%	<0.703	U			5%	<0.743	U			5%	<0.688	U		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	0%	<0.742	U			0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	9%	<0.742	U			9%	<0.703	U			9%	<0.743	U			9%	<0.688	U		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	0%	0.475	J	0.5	0.00359	0%	<0.703	U			0%	<0.743	U			0%	<0.688	U		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	5%	<0.742	U			5%	<0.703	U			5%	<0.743	U			5%	<0.688	U		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	9%	<0.742	U			9%	<0.703	U			9%	<0.743	U			9%	<0.688	U		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	19%	<0.742	U			19%	<0.703	U			19%	<0.743	U			19%	<0.688	U		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	22%	<0.742	U			22%	<0.703	U			22%	<0.743	U			22%	<0.688	U		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	19%	<0.742	U			19%	<0.703	U			19%	<0.743	U			19%	<0.688	U		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	15%	<0.742	U			15%	<0.703	U			15%	<0.743	U			15%	<0.688	U		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	23%	<0.742	U			23%	<0.703	U			23%	<0.743	U			23%	<0.688	U		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	9%	<0.742	U			9%	<0.703	U			9%	<0.743	U			9%	<0.688	U		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	11%	<0.742	U			11%	<0.703	U			11%	<0.743	U			11%	<0.688	U		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	15%	<0.742	U			15%	<0.703	U			15%	<0.743	U			15%	<0.688	U		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	14%	<0.742	U			14%	<0.703	U			14%	<0.743	U			14%	<0.688	U		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	14%	<0.742	U			14%	<0.703	U			14%	<0.743	U			14%	0.35	J	0.4	0.00146
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	1%	<0.742	U			1%	<0.703	U			1%	<0.743	U			1%	<0.688	U		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	21%	7.04		8.9	0.02485	21%	4.58		5.8	0.01617	21%	5.22		6.6	0.01843	21%	5.67		7.1	0.02002
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	16%	<0.742	U			16%	<0.703	U			16%	<0.743	U			16%	<0.688	U		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	21%	4.96		6.2	0.01751	21%	2.96		3.7	0.01045	21%	3.41		4.3	0.01204	21%	3.97		5.0	0.01401
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	7%	<0.742	U			7%	<0.703	U			7%	<0.743	U			7%	<0.688	U		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	7%	5.96		6.4	0.03054	7%	4.24		4.6	0.02173	7%	3.96		4.3	0.02029	7%	4.72		5.1	0.02419
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	20%	2.59		3.2	0.00929	20%	1.36		1.7	0.00488	20%	1.88		2.3	0.00675	20%	2.27		2.8	0.00815
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	6%	5.01		5.3	0.02613	6%	3.02		3.2	0.01575	6%	3.4		3.6	0.01773	6%	3.92		4.2	0.02044
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	0%	1.33		1.3	0.01751	0%	0.923		0.9	0.01215	0%	0.916		0.9	0.01206	0%	1.01		1.0	0.01330
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	37%	<0.742	U			37%	<0.703	U			37%	<0.743	U			37%	<0.688	U		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	37%	<0.742	U			37%	<0.703	U			37%	<0.743	U			37%	<0.688	U		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	41%	<0.742	U			41%	<0.703	U			41%	<0.743	U			41%	<0.688	U		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	27%	<0.742	U			27%	<0.703	U			27%	<0.743	U			27%	<0.688	U		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	37%	<0.742	U			37%	<0.703	U			37%	<0.743	U			37%	<0.688	U		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	32%	<0.742	U			32%	<0.703	U			32%	<0.743	U			32%	<0.688	U		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	41%	<0.742	U			41%	<0.703	U			41%	<0.743	U			41%	<0.688	U		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	26%	<2.22	U			26%	<2.11	U			26%	<2.23	U			26%	<2.06	U		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	42%	<0.742	U			42%	<0.703	U			42%	<0.743	U			42%	<0.688	U		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	41%	<1.48	U			41%	<1.41	U			41%	<1.49	U			41%	<1.38	U		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	36%	<1.48	U			36%	<1.41	U			36%	<1.49	U			36%	<1.38	U		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	32%	<0.742	U			32%	<0.703	U			32%	<0.743	U			32%	<0.688	U		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	42%	<0.742	U			42%	<0.703	U			42%	<0.743	U			42%	<0.688	U		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	29%	0.691	J	1.0	0.00198	29%	0.425	J	0.6	0.00122	29%	0.528	J	0.7	0.00152	29%	0.626	J	0.9	0.00180
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	46%	<0.742	U			46%	<0.703	U			46%	<0.743	U			46%	<0.688	U		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	17%	<1.48	U			17%	<1.41	U			17%	<1.49	U			17%	<1.38	U		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	42%	<0.742	U			42%	<0.703	U			42%	<0.743	U			42%	<0.688	U		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	38%	<0.742	U			38%	<0.703	U			38%	<0.743	U			38%	<0.688	U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-303-B					PPW-303-C					PPW-304-A					PPW-304-B				
Congener	CAS	Log Kow	Log KPE-D*	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	52%	<0.742	UJ			52%	<0.703	UJ			52%	<0.743	UJ			52%	<0.688	UJ		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	52%	<0.742	U			52%	<0.703	U			52%	<0.743	U			52%	<0.688	U		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	56%	<0.742	U			56%	<0.703	U			56%	<0.743	U			56%	<0.688	U		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	60%	<0.742	U			60%	<0.703	U			60%	<0.743	U			60%	<0.688	U		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	52%	<0.742	U			52%	<0.703	U			52%	<0.743	U			52%	<0.688	U		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	44%	2.11		3.8	0.00423	44%	1.79		3.2	0.00359	44%	1.83		3.3	0.00367	44%	1.82		3.3	0.00365
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	53%	3.83		8.1	0.00649	53%	2.67		5.7	0.00453	53%	3.23		6.9	0.00548	53%	4.11		8.7	0.00697
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	40%	0.562	J	0.9	0.00124	40%	<0.703	U			40%	0.529	J	0.9	0.00117	40%	0.483	J	0.8	0.00106
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	44%	1.24		2.2	0.00252	44%	0.719		1.3	0.00146	44%	0.847		1.5	0.00172	44%	0.982		1.7	0.00200
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	18%	0.702	J	0.9	0.00265	18%	0.712		0.9	0.00268	18%	0.587	J	0.7	0.00221	18%	0.368	J	0.4	0.00139
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	70%	<0.742	U			70%	<0.703	U			70%	<0.743	U			70%	<0.688	U		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	70%	<0.742	U			70%	<0.703	U			70%	<0.743	U			70%	<0.688	U		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.48	U			75%	<1.41	U			75%	<1.49	UJ			75%	<1.38	U		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	74%	<0.742	UJ			74%	<0.703	UJ			74%	<0.743	UJ			74%	<0.688	UJ		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	60%	1.5		3.7	0.00228	60%	1.06		2.6	0.00161	60%	1.26		3.1	0.00192	60%	1.55		3.9	0.00236
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	64%	<0.742	U			64%	<0.703	U			64%	<0.743	U			64%	<0.688	U		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	70%	<0.742	U			70%	<0.703	U			70%	<0.743	U			70%	<0.688	U		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	60%	<0.742	U			60%	<0.703	U			60%	<0.743	U			60%	<0.688	U		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	50%	<0.742	U			50%	<0.703	U			50%	<0.743	U			50%	<0.688	U		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	59%	<0.742	U			59%	<0.703	U			59%	<0.743	U			59%	<0.688	U		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	76%	0.662	J	2.8	0.00090	76%	0.374	J	1.6	0.00051	76%	0.656	J	2.7	0.00089	76%	0.564	J	2.4	0.00077
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	66%	0.427	J	1.3	0.00060	66%	<0.703	U			66%	<0.743	U			66%	0.438	J	1.3	0.00062
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	79%	<0.742	U			79%	<0.703	U			79%	<0.743	U			79%	<0.688	U		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	47%	3.21		6.1	0.00605	47%	2.06	J	3.9	0.00388	47%	2.65		5.0	0.00499	47%	2.8		5.3	0.00527
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	70%	<0.742	U			70%	<0.703	U			70%	<0.743	U			70%	<0.688	U		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.742	U			75%	<0.703	U			75%	<0.743	U			75%	<0.688	U		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	85%	<0.742	U			85%	<0.703	U			85%	<0.743	U			85%	<0.688	U		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	89%	<0.742	U			89%	<0.703	U			89%	<0.743	U			89%	<0.688	U		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	42%	<0.742	U			42%	<0.703	U			42%	<0.743	U			42%	<0.688	U		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	55%	<2.22	U			55%	<2.11	U			55%	<2.23	U			55%	<2.06	U		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	49%	<0.742	U			49%	<0.703	U			49%	<0.743	U			49%	<0.688	U		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	52%	<1.48	U			52%	<1.41	U			52%	<1.49	U			52%	<1.38	U		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	63%	<1.48	U			63%	<1.41	U			63%	<1.49	U			63%	<1.38	U		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	33%	<1.48	U			33%	<1.41	U			33%	<1.49	U			33%	<1.38	U		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	38%	2.02		3.3	0.00464	38%	1.5		2.4	0.00345	38%	1.53		2.5	0.00352	38%	1.7		2.7	0.00391
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	52%	<0.742	U			52%	0.575	J	1.2	0.00100	52%	0.668	J	1.4	0.00116	52%	0.602	J	1.2	0.00104
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	32%	<0.742	U			32%	<0.703	U			32%	<0.743	U			32%	<0.688	U		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	38%	<0.742	U			38%	<0.703	U			38%	<0.743	U			38%	<0.688	U		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	12%	<0.742	U			12%	<0.703	U			12%	<0.743	U			12%	<0.688	U		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	48%	<0.742	U			48%	<0.703	U			48%	<0.743	U			48%	<0.688	U		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	38%	<0.742	U			38%	<0.703	U			38%	<0.743	U			38%	<0.688	U		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	54%	1.81		4.0	0.00300	54%	1.06		2.3	0.00176	54%	1.29		2.8	0.00214	54%	1.66		3.6	0.00275
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	76%	0.61	J	2.5	0.00083	76%	0.57	J	2.4	0.00077	76%	0.688	J	2.9	0.00093	76%	0.646	J	2.7	0.00088
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	84%	<1.48	U			84%	<1.41	U			84%	<1.49	U			84%	<1.38	U		
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	87%	0.892	J	6.7	0.00144	87%	<1.41	U			87%	0.806	J	6.0	0.00130	87%	<1.38	U		
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	66%	<0.742	U			66%	<0.703	U			66%	<0.743	U			66%	<0.688	U		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	66%	2.78		8.2	0.00393	66%	1.78		5.2	0.00252	66%	2.16		6.4	0.00305	66%	2.17		6.4	0.00307
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	83%	<0.742	UJ			83%	<0.703	UJ			83%	<0.743	UJ			83%	<0.688	UJ		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	64%	<0.742	U			64%	<0.703	U			64%	0.438	J	1.2	0.00063	64%	<0.688	U		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	70%	1.66		5.5	0.00228	70%	1.18		3.9	0.00162	70%	1.69		5.6	0.00232	70%	1.5		5.0	0.00206
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	44%	2.05		3.6	0.00417	44%	1.59		2.8	0.00323	44%	1.87		3.3	0.00380	44%	2.02		3.6	0.00411
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	82%	<0.742	U			82%	<0.703	U			82%	<0.743	U			82%	<0.688	U		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	82%	3.28		17.8	0.00468	82%	2.55		13.9	0.00364	82%	3.24		17.6	0.00462	82%	3.46		18.8	0.00493
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	72%	<0.742	U			72%	<0.703	U			72%	<0.743	U			72%	<0.688	U		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	81%	1.33		7.0	0.00188	81%	0.928		4.9	0.00131	81%	1.3		6.8	0.00184	81%	1.2		6.3	0.00170
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	62%	<0.742	U			62%	<0.703	U			62%	<0.743	U			62%	<0.688	U		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	69%	<1.48	U			69%	<1.41	U			69%	<1.49	U			69%	<1.38	U		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	72%	0.375	J	1.3	0.00051	72%	<0.703	U			72%	0.461	J	1.6	0.00063	72%	0.447	J	1.6	0.00061
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	46%	<0.742	U			46%	<0.703	U			46%	<0.743	U			46%	<0.688	U		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	85%	1.64		11.2	0.00254	85%	1.11		7.6	0.00172	85%	1.42		9.7	0.00220	85%	1.59		10.9	0.00246
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	71%	10.4		35.5	0.01422	71%	7.28		24.9	0.00995	71%	9.13		31.2	0.01248	71%	9.12		31.2	0.01247
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.742	U			75%	<0.703	U			75%	<0.743	U			75%	<0.688	U		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	50%	<0.742	U			50%	<0.703	U			50%	<0.743	U			50%	<0.688	U		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	70%	3.22		10.7	0.00442	70%	2.35		7.8	0.00323	70%	2.95		9.8	0.00405	70%	2.62		8.7	0.00360
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	44%	<0.742	U			44%	<0.703	U			44%	<0.743	U			44%	<0.688	U		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	87%	7.82		61.2	0.01291	87%	5.76		45.1	0.00951	87%	7.26		56.8	0.01198	87%	7.02		54.9	0.01159
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	77%	0.786		3.5	0.00107	77%	0.577	J	2.5	0.00079	77%	0.641	J	2.8	0.00088	77%	0.613	J	2.7	0.00084
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	55%	<0.742	U			55%	<0.703	U			55%	<0.743	U			55%	<0.688	U		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-303-B					PPW-303-C					PPW-304-A					PPW-304-B				
Congener	CAS	Log Kow	Log KPE-D*	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L	% Retained	ng/g		ng/g corrected	ng/L
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	97%	<0.742	U			97%	<0.703	U			97%	<0.743	U			97%	<0.688	U		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	90%	1.95		19.0	0.00363	90%	1.2	J	11.7	0.00223	90%	1.46	J	14.2	0.00272	90%	1.54		15.0	0.00287
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	95%	<0.742	U			95%	<0.703	U			95%	<0.743	U			95%	<0.688	U		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	88%	<0.742	U			88%	<0.703	U			88%	<0.743	U			88%	<0.688	U		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	99%	1.86		186.0	0.01683	99%	1.48		148.0	0.01339	99%	2.05		205.0	0.01855	99%	1.74		174.0	0.01574
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	99%	0.99		104.2	0.01388	99%	0.788		82.9	0.01104	99%	0.809		85.1	0.01134	99%	0.701		73.8	0.00982
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	99%	0.611	J	61.1	0.00478	99%	<0.703	U			99%	0.513	J	51.3	0.00401	99%	<0.688	U		
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	93%	<0.742	U			93%	<0.703	U			93%	<0.743	U			93%	<0.688	U		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	99%	2.57		270.4	0.03602	99%	2.28		239.9	0.03196	99%	2.51		264.1	0.03518	99%	2.37		249.4	0.03322
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	77%	0.711	J	3.1	0.00097	77%	0.671	J	3.0	0.00092	77%	0.727	J	3.2	0.00099	77%	0.507	J	2.2	0.00069
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	97%	1.8		63.9	0.00915	97%	1.66		58.9	0.00844	97%	1.92		68.1	0.00976	97%	1.7		60.3	0.00864
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	99%	0.878		87.8	0.01088	99%	0.918		91.8	0.01137	99%	1.04		104.0	0.01288	99%	0.745		74.5	0.00923
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	1.72		7.0	0.00233	75%	1.52		6.2	0.00206	75%	1.93		7.8	0.00262	75%	1.57		6.4	0.00213
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	99%	3.86		386.0	0.02809	99%	3.04		304.0	0.02212	99%	3.72		372.0	0.02707	99%	3.66		366.0	0.02664
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	99%	<1.48	U			99%	<1.41	U			99%	<1.49	U			99%	<1.38	U		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	99%	1.92		192.0	0.02057	99%	1.32		132.0	0.01414	99%	1.86		186.0	0.01993	99%	1.56		156.0	0.01672
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	83%	<0.742	U			83%	<0.703	U			83%	<0.743	U			83%	<0.688	U		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	73%	<0.742	U			73%	<0.703	U			73%	<0.743	U			73%	<0.688	U		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	99%	4.42		442.0	0.05092	99%	3.25		325.0	0.03744	99%	3.77		377.0	0.04344	99%	3.66		366.0	0.04217
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	81%	<0.742	U			81%	<0.703	U			81%	<0.743	U			81%	<0.688	U		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	0.406	J	40.6	0.00232
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	99%	0.981		98.1	0.00246	99%	0.53	J	53.0	0.00133	99%	0.883		88.3	0.00222	99%	<0.688	U		
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	99%	0.743		74.3	0.00333	99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	99%	0.639	J	63.9	0.00231	99%	<0.703	U			99%	0.522	J	52.2	0.00188	99%	0.471	J	47.1	0.00170
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	99%	1.05		105.0	0.00950	99%	0.851		85.1	0.00770	99%	1.13		113.0	0.01022	99%	0.775		77.5	0.00701
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	99%	<0.742	U			99%	0.363	J	36.3	0.00353	99%	<0.743	U			99%	<0.688	U		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	99%	0.512	J	51.2	0.00185	99%	<0.703	U			99%	0.494	J	49.4	0.00178	99%	0.604	J	60.4	0.00218
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	99%	<1.48	U			99%	<1.41	U			99%	<1.49	U			99%	<1.38	U		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.742	U			99%	<0.703	U			99%	<0.743	U			99%	<0.688	U		

J = estimated result
U = non-detect
K_{ow} = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
ng/g = nanogram per gram
ng/L = nanogram per liter

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-304-C					PPW-305-A					PPW-305-B					PPW-305-C				
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**
2-Chlorobiphenyl	2051-60-7	4.46	4.093	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	0%	<1.43	U			0%	<1.47	U			0%	<1.64	U			0%	<1.55	U		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	1%	<1.43	U			1%	<1.47	U			1%	<1.64	U			1%	<1.55	U		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	4%	<0.715	U			4%	<0.736	U			4%	<0.818	U			4%	<0.775	U		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	3%	<0.715	U			3%	<0.736	U			3%	<0.818	U			3%	<0.775	U		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	9%	<0.715	U			9%	<0.736	U			9%	<0.818	U			9%	<0.775	U		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	9%	<0.715	U			9%	<0.736	U			9%	<0.818	U			9%	<0.775	U		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	9%	<0.715	U			9%	<0.736	U			9%	<0.818	U			9%	<0.775	U		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	5%	<0.715	U			5%	<0.736	U			5%	<0.818	U			5%	<0.775	U		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	9%	<0.715	U			9%	<0.736	U			9%	<0.818	U			9%	<0.775	U		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	0%	<0.715	U			0%	<0.736	U			0%	<0.818	U			0%	<0.775	U		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	5%	<0.715	U			5%	<0.736	U			5%	<0.818	U			5%	<0.775	U		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	9%	<0.715	U			9%	<0.736	U			9%	<0.818	U			9%	<0.775	U		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	19%	<0.715	U			19%	<0.736	U			19%	<0.818	U			19%	<0.775	U		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	22%	<0.715	U			22%	<0.736	U			22%	<0.818	U			22%	<0.775	U		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	19%	<0.715	U			19%	<0.736	U			19%	<0.818	U			19%	<0.775	U		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	15%	<0.715	U			15%	<0.736	U			15%	<0.818	U			15%	<0.775	U		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	23%	<0.715	U			23%	<0.736	U			23%	<0.818	U			23%	<0.775	U		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	9%	<0.715	U			9%	<0.736	U			9%	<0.818	U			9%	<0.775	U		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	11%	<0.715	U			11%	<0.736	U			11%	<0.818	U			11%	<0.775	U		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	15%	<0.715	U			15%	<0.736	U			15%	<0.818	U			15%	<0.775	U		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	14%	<0.715	U			14%	<0.736	U			14%	<0.818	U			14%	<0.775	U		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	14%	<0.715	U			14%	<0.736	U			14%	<0.818	U			14%	<0.775	U		
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	1%	<0.715	U			1%	<0.736	U			1%	<0.818	U			1%	<0.775	U		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	21%	5.3		6.7	0.01871	21%	4.88		6.1	0.01723	21%	4.9		6.2	0.01730	21%	5.03		6.3	0.01776
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	16%	<0.715	U			16%	<0.736	U			16%	<0.818	U			16%	<0.775	U		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	21%	3.7		4.7	0.01306	21%	3.6		4.5	0.01271	21%	3.52		4.4	0.01243	21%	3.52		4.4	0.01243
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	7%	<0.715	U			7%	<0.736	U			7%	<0.818	U			7%	<0.775	U		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	7%	4.2		4.5	0.02152	7%	3.93		4.2	0.02014	7%	4.19		4.5	0.02147	7%	3.84		4.1	0.01968
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	20%	2.07		2.6	0.00743	20%	1.93		2.4	0.00693	20%	1.89		2.4	0.00678	20%	1.94		2.4	0.00696
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	6%	3.41		3.6	0.01778	6%	3.47		3.7	0.01810	6%	3.01		3.2	0.01570	6%	3.13		3.3	0.01632
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	0%	0.992		1.0	0.01306	0%	0.894		0.9	0.01177	0%	0.908		0.9	0.01196	0%	0.97		1.0	0.01277
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	37%	<0.715	U			37%	<0.736	U			37%	<0.818	U			37%	<0.775	U		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	37%	<0.715	U			37%	<0.736	U			37%	<0.818	U			37%	<0.775	U		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	41%	<0.715	U			41%	<0.736	U			41%	<0.818	U			41%	<0.775	U		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	27%	<0.715	U			27%	<0.736	U			27%	<0.818	U			27%	<0.775	U		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	37%	<0.715	U			37%	<0.736	U			37%	<0.818	U			37%	<0.775	U		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	32%	<0.715	U			32%	<0.736	U			32%	<0.818	U			32%	<0.775	U		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	41%	<0.715	U			41%	<0.736	U			41%	<0.818	U			41%	<0.775	U		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	26%	<2.14	U			26%	<2.21	U			26%	<2.45	U			26%	<2.32	U		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	42%	<0.715	U			42%	<0.736	U			42%	<0.818	U			42%	<0.775	U		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	41%	<1.43	U			41%	<1.47	U			41%	<1.64	U			41%	<1.55	U		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	36%	<1.43	U			36%	<1.47	U			36%	<1.64	U			36%	<1.55	U		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	32%	<0.715	U			32%	<0.736	U			32%	<0.818	U			32%	<0.775	U		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	42%	<0.715	U			42%	<0.736	U			42%	<0.818	U			42%	<0.775	U		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	29%	0.54	J	0.8	0.00155	29%	0.604	J	0.8	0.00173	29%	0.609	J	0.9	0.00175	29%	0.558	J	0.8	0.00160
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	46%	<0.715	U			46%	<0.736	U			46%	<0.818	U			46%	<0.775	U		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	17%	<1.43	U			17%	<1.47	U			17%	<1.64	U			17%	<1.55	U		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	42%	<0.715	U			42%	<0.736	U			42%	<0.818	U			42%	<0.775	U		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	38%	<0.715	U			38%	<0.736	U			38%	<0.818	U			38%	<0.775	U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-304-C				PPW-305-A				PPW-305-B				PPW-305-C			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	52%	<0.715 UJ			52%	<0.736 UJ			52%	<0.818 UJ			52%	<0.775 UJ		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	52%	<0.715 U			52%	<0.736 U			52%	<0.818 U			52%	<0.775 U		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	56%	<0.715 U			56%	<0.736 U			56%	<0.818 U			56%	<0.775 U		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	60%	<0.715 U			60%	<0.736 U			60%	<0.818 U			60%	<0.775 U		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	52%	<0.715 U			52%	<0.736 U			52%	<0.818 U			52%	<0.775 U		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	44%	1.95	3.5	0.00391	44%	1.66	3.0	0.00333	44%	1.84	3.3	0.00369	44%	1.85	3.3	0.00371
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	53%	3.42	7.3	0.00580	53%	4.15	8.8	0.00704	53%	3.78	8.0	0.00641	53%	4	8.5	0.00678
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	40%	<0.715 U			40%	0.423 J	0.7	0.00093	40%	0.501 J	0.8	0.00110	40%	0.586 J	1.0	0.00129
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	44%	1.12	2.0	0.00228	44%	0.993	1.8	0.00202	44%	1.06	1.9	0.00215	44%	0.823	1.5	0.00167
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	18%	0.473 J	0.6	0.00178	18%	0.558 J	0.7	0.00210	18%	0.528 J	0.6	0.00199	18%	0.528 J	0.6	0.00199
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	70%	<0.715 U			70%	<0.736 U			70%	<0.818 U			70%	<0.775 U		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	70%	<0.715 U			70%	<0.736 U			70%	<0.818 U			70%	<0.775 U		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.43 U			75%	<1.47 UJ			75%	<1.64 UJ			75%	<1.55 UJ		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	74%	<0.715 UJ			74%	<0.736 UJ			74%	<0.818 UJ			74%	<0.775 UJ		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	60%	1.38	3.4	0.00210	60%	1.54	3.8	0.00234	60%	1.45	3.6	0.00221	60%	1.61	4.0	0.00245
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	64%	<0.715 U			64%	<0.736 U			64%	<0.818 U			64%	<0.775 U		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	70%	<0.715 U			70%	<0.736 U			70%	<0.818 U			70%	<0.775 U		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	60%	<0.715 U			60%	<0.736 U			60%	<0.818 U			60%	<0.775 U		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	50%	<0.715 U			50%	<0.736 U			50%	<0.818 U			50%	<0.775 U		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	59%	<0.715 U			59%	<0.736 U			59%	<0.818 U			59%	<0.775 U		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	76%	0.519 J	2.2	0.00071	76%	0.63 J	2.6	0.00086	76%	0.54 J	2.3	0.00073	76%	0.688 J	2.9	0.00093
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	66%	<0.715 U			66%	0.558 J	1.6	0.00079	66%	<0.818 U			66%	<0.775 U		
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	79%	<0.715 U			79%	<0.736 U			79%	<0.818 U			79%	<0.775 U		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	47%	2.75	5.2	0.00518	47%	3.11	5.9	0.00586	47%	3.04	5.8	0.00573	47%	3.03	5.8	0.00571
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	70%	<0.715 U			70%	<0.736 U			70%	<0.818 U			70%	<0.775 U		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.715 U			75%	<0.736 U			75%	<0.818 U			75%	<0.775 U		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	85%	<0.715 U			85%	<0.736 U			85%	<0.818 U			85%	<0.775 U		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	89%	<0.715 U			89%	<0.736 U			89%	<0.818 U			89%	<0.775 U		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	42%	<0.715 U			42%	<0.736 U			42%	<0.818 U			42%	<0.775 U		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	55%	<2.14 U			55%	<2.21 U			55%	<2.45 U			55%	<2.32 U		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	49%	<0.715 U			49%	<0.736 U			49%	<0.818 U			49%	<0.775 U		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	52%	<1.43 U			52%	<1.47 U			52%	<1.64 U			52%	<1.55 U		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	63%	<1.43 U			63%	<1.47 U			63%	<1.64 U			63%	<1.55 U		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	33%	<1.43 U			33%	<1.47 U			33%	<1.64 U			33%	<1.55 U		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	38%	1.69	2.7	0.00388	38%	1.97	3.2	0.00453	38%	2.26	3.6	0.00519	38%	1.92	3.1	0.00441
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	52%	0.934	1.9	0.00162	52%	0.876	1.8	0.00152	52%	0.88	1.8	0.00153	52%	<0.775 U		
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	32%	<0.715 U			32%	<0.736 U			32%	<0.818 U			32%	<0.775 U		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	38%	<0.715 U			38%	<0.736 U			38%	0.612 J	1.0	0.00141	38%	<0.775 U		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	12%	<0.715 U			12%	<0.736 U			12%	<0.818 U			12%	<0.775 U		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	48%	<0.715 U			48%	0.473 J	0.9	0.00088	48%	<0.818 U			48%	<0.775 U		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	38%	<0.715 U			38%	<0.736 U			38%	<0.818 U			38%	<0.775 U		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	54%	1.43	3.1	0.00237	54%	1.59	3.5	0.00264	54%	1.54	3.4	0.00256	54%	1.48	3.2	0.00246
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	76%	0.552 J	2.3	0.00075	76%	0.649 J	2.7	0.00088	76%	0.656 J	2.7	0.00089	76%	0.846	3.5	0.00115
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	84%	0.754 J	4.8	0.00114	84%	0.894 J	5.7	0.00135	84%	<1.64 U			84%	0.824 J	5.3	0.00124
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	87%	0.901 J	6.7	0.00145	87%	0.841 J	6.3	0.00136	87%	1.12 J	8.4	0.00181	87%	0.913 J	6.8	0.00147
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	66%	<0.715 U			66%	<0.736 U			66%	<0.818 U			66%	<0.775 U		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	66%	2.36	7.0	0.00334	66%	2.92	8.6	0.00413	66%	3.23	9.5	0.00457	66%	3.01	8.9	0.00425
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	83%	<0.715 UJ			83%	<0.736 UJ			83%	<0.818 UJ			83%	<0.775 UJ		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	64%	0.498 J	1.4	0.00072	64%	0.635 J	1.8	0.00091	64%	0.643 J	1.8	0.00093	64%	<0.775 U		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	70%	1.52	5.0	0.00209	70%	1.55	5.1	0.00213	70%	1.64	5.4	0.00225	70%	1.78	5.9	0.00245
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	44%	2.09	3.7	0.00425	44%	2.14	3.8	0.00435	44%	2.43	4.3	0.00494	44%	2.34	4.2	0.00476
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	82%	<0.715 U			82%	<0.736 U			82%	<0.818 U			82%	<0.775 U		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	82%	3.85	20.9	0.00549	82%	3.91	21.3	0.00558	82%	3.88	21.1	0.00553	82%	3.64	19.8	0.00519
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	72%	<0.715 U			72%	<0.736 U			72%	<0.818 U			72%	<0.775 U		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	81%	1.68	8.8	0.00237	81%	1.67	8.8	0.00236	81%	1.5	7.9	0.00212	81%	1.34	7.1	0.00189
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	62%	<0.715 U			62%	<0.736 U			62%	<0.818 U			62%	<0.775 U		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	69%	<1.43 U			69%	<1.47 U			69%	<1.64 U			69%	<1.55 U		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	72%	0.579 J	2.0	0.00079	72%	0.602 J	2.1	0.00082	72%	0.671 J	2.4	0.00091	72%	0.601 J	2.1	0.00082
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	46%	<0.715 U			46%	<0.736 U			46%	<0.818 U			46%	<0.775 U		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	85%	1.72	11.7	0.00266	85%	1.77	12.1	0.00274	85%	1.77	12.1	0.00274	85%	1.81	12.4	0.00280
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	71%	10.6	36.2	0.01449	71%	10.5	35.9	0.01435	71%	11.1	37.9	0.01518	71%	11.3	38.6	0.01545
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.715 U			75%	<0.736 U			75%	<0.818 U			75%	<0.775 U		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	50%	<0.715 U			50%	<0.736 U			50%	<0.818 U			50%	<0.775 U		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	70%	3.29	10.9	0.00452	70%	3.49	11.6	0.00479	70%	3.33	11.0	0.00457	70%	3.76	12.4	0.00517
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	44%	<0.715 U			44%	<0.736 U			44%	<0.818 U			44%	<0.775 U		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	87%	8.8	68.9	0.01452	87%	9.08	71.1	0.01499	87%	8.81	69.0	0.01454	87%	9.22	72.2	0.01522
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	77%	0.622 J	2.7	0.00085	77%	0.644 J	2.8	0.00088	77%	0.748 J	3.3	0.00102	77%	0.768 J	3.4	0.00105
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	55%	<0.715 U			55%	<0.736 U			55%	<0.818 U			55%	<0.775 U		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				PPW-304-C				PPW-305-A				PPW-305-B				PPW-305-C			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**	**ng/g corrected**	**ng/L**
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	97%	<0.715 U			97%	<0.736 U			97%	<0.818 U			97%	<0.775 U		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	90%	1.69	16.4	0.00314	90%	1.61	15.7	0.00300	90%	2.01	19.5	0.00374	90%	1.94	18.9	0.00361
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	95%	<0.715 U			95%	<0.736 U			95%	<0.818 U			95%	<0.775 U		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	88%	<0.715 U			88%	<0.736 U			88%	<0.818 U			88%	<0.775 U		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	99%	2.21	221.0	0.01999	99%	2.16	216.0	0.01954	99%	2.06	206.0	0.01864	99%	2.48	248.0	0.02244
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	99%	0.982	103.3	0.01376	99%	1.16	122.1	0.01626	99%	1.11	116.8	0.01556	99%	1.03	108.4	0.01444
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	99%	<0.715 U			99%	0.477 J	47.7	0.00373	99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	93%	<0.715 U			93%	<0.736 U			93%	<0.818 U			93%	<0.775 U		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	99%	3.17	333.6	0.04443	99%	3.5	368.3	0.04905	99%	3.29	346.2	0.04611	99%	3.72	391.4	0.05214
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	77%	0.603 J	2.7	0.00082	77%	0.95	4.2	0.00130	77%	1.12	4.9	0.00153	77%	0.848	3.7	0.00116
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	97%	2.41	85.5	0.01225	97%	2.23	79.1	0.01133	97%	2.54	90.1	0.01291	97%	2.55	90.5	0.01296
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	99%	1.37	137.0	0.01697	99%	1.36	136.0	0.01685	99%	1.02	102.0	0.01264	99%	0.913	91.3	0.01131
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	2.2	8.9	0.00298	75%	2.17	8.8	0.00294	75%	2.48	10.1	0.00336	75%	2.34	9.5	0.00317
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	99%	4.15	415.0	0.03020	99%	4.32	432.0	0.03144	99%	4.4	440.0	0.03202	99%	4.87	487.0	0.03544
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	99%	<1.43 U			99%	<1.47 U			99%	<1.64 U			99%	<1.55 U		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	99%	2.26	226.0	0.02422	99%	2.32	232.0	0.02486	99%	2.26	226.0	0.02422	99%	1.86	186.0	0.01993
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	83%	<0.715 U			83%	<0.736 U			83%	<0.818 U			83%	<0.775 U		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	99%	0.586 J	61.7	0.00821	99%	<0.736 U			99%	0.453 J	47.7	0.00635	99%	0.432 J	45.5	0.00605
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	73%	<0.715 U			73%	<0.736 U			73%	<0.818 U			73%	<0.775 U		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	99%	4.63	463.0	0.05334	99%	4.99	499.0	0.05749	99%	4.66	466.0	0.05369	99%	4.93	493.0	0.05680
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	81%	<0.715 U			81%	<0.736 U			81%	<0.818 U			81%	<0.775 U		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	99%	0.489 J	48.9	0.00279	99%	0.415 J	41.5	0.00237	99%	0.483 J	48.3	0.00276	99%	0.604 J	60.4	0.00345
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	99%	1.02	102.0	0.00256	99%	1.1	110.0	0.00276	99%	0.972	97.2	0.00244	99%	1.11	111.0	0.00279
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	99%	0.455 J	45.5	0.00204	99%	0.555 J	55.5	0.00249	99%	<0.818 U			99%	0.459 J	45.9	0.00206
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	99%	0.502 J	50.2	0.00181	99%	0.54 J	54.0	0.00195	99%	0.609 J	60.9	0.00220	99%	0.542 J	54.2	0.00196
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	99%	0.789	78.9	0.00714	99%	1.38	138.0	0.01248	99%	1.05	105.0	0.00950	99%	1.3	130.0	0.01176
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	99%	0.512 J	51.2	0.00498	99%	0.381 J	38.1	0.00371	99%	<0.818 U			99%	<0.775 U		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	99%	0.601 J	60.1	0.00217	99%	0.965	96.5	0.00348	99%	0.604 J	60.4	0.00218	99%	0.728 J	72.8	0.00263
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	99%	<1.43 U			99%	<1.47 U			99%	<1.64 U			99%	<1.55 U		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.715 U			99%	<0.736 U			99%	<0.818 U			99%	<0.775 U		

J = estimated result
U = non-detect
K_{ow} = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
ng/g = nanogram per gram
ng/L = nanogram per liter

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				SW-302					SW-303					SW-304					SW-305				
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**
2-Chlorobiphenyl	2051-60-7	4.46	4.093	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	0%	0.602	J	0.6	0.00669	0%	0.566	J	0.6	0.00629	0%	<0.705	U			0%	<0.725	U		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	0%	<1.30	U			0%	<1.61	U			0%	<1.41	U			0%	<1.45	U		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	1%	<1.30	U			1%	<1.61	U			1%	<1.41	U			1%	<1.45	U		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	4%	<0.652	U			4%	<0.806	U			4%	<0.705	U			4%	<0.725	U		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	3%	<0.652	U			3%	<0.806	U			3%	<0.705	U			3%	<0.725	U		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	9%	<0.652	U			9%	<0.806	U			9%	<0.705	U			9%	<0.725	U		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	9%	<0.652	U			9%	<0.806	U			9%	<0.705	U			9%	<0.725	U		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	9%	0.515	J	0.6	0.00246	9%	<0.806	U			9%	<0.705	U			9%	<0.725	U		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	5%	<0.652	U			5%	<0.806	U			5%	<0.705	U			5%	<0.725	U		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	<0.725	U		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	9%	0.46	J	0.5	0.00220	9%	<0.806	U			9%	<0.705	U			9%	<0.725	U		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	0%	<0.652	U			0%	<0.806	U			0%	<0.705	U			0%	0.486	J	0.5	0.00367
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	5%	<0.652	U			5%	<0.806	U			5%	<0.705	U			5%	<0.725	U		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	9%	<0.652	U			9%	<0.806	U			9%	<0.705	U			9%	<0.725	U		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	19%	<0.652	U			19%	<0.806	U			19%	<0.705	U			19%	<0.725	U		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	22%	<0.652	U			22%	<0.806	U			22%	<0.705	U			22%	<0.725	U		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	19%	<0.652	U			19%	<0.806	U			19%	<0.705	U			19%	<0.725	U		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	15%	<0.652	U			15%	<0.806	U			15%	<0.705	U			15%	<0.725	U		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	23%	<0.652	U			23%	<0.806	U			23%	<0.705	U			23%	<0.725	U		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	9%	<0.652	U			9%	<0.806	U			9%	<0.705	U			9%	<0.725	U		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	11%	<0.652	U			11%	<0.806	U			11%	<0.705	U			11%	<0.725	U		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	15%	<0.652	U			15%	<0.806	U			15%	<0.705	U			15%	<0.725	U		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	14%	<0.652	U			14%	<0.806	U			14%	<0.705	U			14%	<0.725	U		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	14%	0.523	J	0.6	0.00218	14%	0.5	J	0.6	0.00208	14%	0.396	J	0.5	0.00165	14%	0.434	J	0.5	0.00181
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	1%	<0.652	U			1%	<0.806	U			1%	<0.705	U			1%	<0.725	U		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	21%	5.74		7.2	0.02026	21%	7.37		9.3	0.02602	21%	5.55		7.0	0.01959	21%	6.16		7.8	0.02175
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	16%	<0.652	U			16%	<0.806	U			16%	<0.705	U			16%	<0.725	U		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	21%	4.18		5.3	0.01476	21%	5.34		6.7	0.01885	21%	4.2		5.3	0.01483	21%	4.28		5.4	0.01511
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	7%	<0.652	U			7%	<0.806	U			7%	<0.705	U			7%	<0.725	U		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	7%	3.77		4.1	0.01932	7%	5.28		5.7	0.02706	7%	4.26		4.6	0.02183	7%	4.39		4.7	0.02250
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	20%	2.48		3.1	0.00890	20%	3.06		3.8	0.01098	20%	2.47		3.1	0.00886	20%	2.59		3.2	0.00929
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	6%	4.3		4.6	0.02243	6%	5.17		5.5	0.02696	6%	4.31		4.6	0.02248	6%	4.19		4.5	0.02185
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	0%	0.888		0.9	0.01169	0%	1.11		1.1	0.01462	0%	0.91		0.9	0.01198	0%	1.06		1.1	0.01396
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	37%	<0.652	U			37%	<0.806	U			37%	<0.705	U			37%	<0.725	U		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	37%	<0.652	U			37%	<0.806	U			37%	<0.705	U			37%	<0.725	U		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	41%	<0.652	U			41%	<0.806	U			41%	<0.705	U			41%	<0.725	U		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	27%	<0.652	U			27%	<0.806	U			27%	<0.705	U			27%	<0.725	U		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	37%	<0.652	U			37%	<0.806	U			37%	<0.705	U			37%	<0.725	U		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	32%	<0.652	U			32%	<0.806	U			32%	<0.705	U			32%	<0.725	U		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	41%	<0.652	U			41%	<0.806	U			41%	<0.705	U			41%	<0.725	U		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	26%	<1.96	U			26%	<2.42	U			26%	<2.12	U			26%	<2.18	U		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	42%	<0.652	U			42%	<0.806	U			42%	<0.705	U			42%	<0.725	U		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	41%	<1.30	U			41%	<1.61	U			41%	<1.41	U			41%	<1.45	U		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	36%	<1.30	U			36%	<1.61	U			36%	<1.41	U			36%	<1.45	U		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	32%	<0.652	U			32%	<0.806	U			32%	<0.705	U			32%	<0.725	U		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	42%	0.424	J	0.7	0.00089	42%	0.429	J	0.7	0.00090	42%	0.398	J	0.7	0.00083	42%	<0.725	U		
2,3',4,6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	29%	0.65	J	0.9	0.00187	29%	0.715	J	1.0	0.00205	29%	0.647	J	0.9	0.00186	29%	0.722	J	1.0	0.00206
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	46%	<0.652	U			46%	<0.806	U			46%	<0.705	U			46%	<0.725	U		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	17%	<1.30	U			17%	<1.61	U			17%	<1.41	U			17%	<1.45	U		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	42%	<0.652	U			42%	<0.806	U			42%	<0.705	U			42%	<0.725	U		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	38%	<0.652	U			38%	<0.806	U			38%	<0.705	U			38%	<0.725	U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				SW-302					SW-303					SW-304					SW-305				
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	52%	<0.652	UJ			52%	<0.806	UJ			52%	<0.705	UJ			52%	<0.725	UJ		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	52%	<0.652	U			52%	<0.806	U			52%	<0.705	U			52%	<0.725	U		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	56%	<0.652	U			56%	<0.806	U			56%	<0.705	U			56%	<0.725	U		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	60%	<0.652	U			60%	<0.806	U			60%	<0.705	U			60%	<0.725	U		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	52%	<0.652	U			52%	<0.806	U			52%	<0.705	U			52%	<0.725	U		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	44%	1.4		2.5	0.00281	44%	1.79		3.2	0.00359	44%	1.76		3.2	0.00353	44%	1.52		2.7	0.00305
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	53%	3.75		8.0	0.00636	53%	4.34		9.2	0.00736	53%	3.88		8.3	0.00658	53%	4.14		8.8	0.00702
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	40%	<0.652	U			40%	0.601	J	1.0	0.00132	40%	<0.705	U			40%	<0.725	U		
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	44%	0.722		1.3	0.00147	44%	0.799	J	1.4	0.00162	44%	1.01		1.8	0.00205	44%	0.702	J	1.2	0.00143
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	18%	0.433	J	0.5	0.00163	18%	0.461	J	0.6	0.00174	18%	0.41	J	0.5	0.00155	18%	<0.725	U		
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	70%	<0.652	U			70%	<0.806	U			70%	<0.705	U			70%	<0.725	U		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	70%	<0.652	U			70%	<0.806	U			70%	<0.705	U			70%	<0.725	U		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.30	U			75%	<1.61	U			75%	<1.41	U			75%	<1.45	UJ		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	74%	<0.652	UJ			74%	<0.806	UJ			74%	<0.705	UJ			74%	<0.725	UJ		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	60%	1.71		4.3	0.00260	60%	2.02		5.0	0.00307	60%	1.7		4.2	0.00259	60%	1.51		3.8	0.00230
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	64%	<0.652	U			64%	<0.806	U			64%	<0.705	U			64%	<0.725	U		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	70%	<0.652	U			70%	<0.806	U			70%	<0.705	U			70%	<0.725	U		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	60%	<0.652	U			60%	<0.806	U			60%	<0.705	U			60%	<0.725	U		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	50%	<0.652	U			50%	<0.806	U			50%	<0.705	U			50%	<0.725	U		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	59%	<0.652	U			59%	<0.806	U			59%	<0.705	U			59%	<0.725	U		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	76%	0.712		3.0	0.00097	76%	0.825		3.4	0.00112	76%	0.604	J	2.5	0.00082	76%	0.606	J	2.5	0.00082
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	66%	0.455	J	1.3	0.00064	66%	0.49	J	1.4	0.00069	66%	0.498	J	1.5	0.00070	66%	0.415	J	1.2	0.00059
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	79%	<0.652	U			79%	<0.806	U			79%	<0.705	U			79%	<0.725	U		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	47%	2.73		5.2	0.00514	47%	3.16		6.0	0.00595	47%	2.73		5.2	0.00514	47%	3.17		6.0	0.00597
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	70%	<0.652	U			70%	<0.806	U			70%	<0.705	U			70%	<0.725	U		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.652	U			75%	<0.806	U			75%	<0.705	U			75%	<0.725	U		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	85%	<0.652	U			85%	<0.806	U			85%	<0.705	U			85%	<0.725	U		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	89%	<0.652	U			89%	<0.806	U			89%	<0.705	U			89%	<0.725	U		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	42%	<0.652	U			42%	<0.806	U			42%	<0.705	U			42%	<0.725	U		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	55%	<1.96	U			55%	<2.42	U			55%	<2.12	U			55%	<2.18	U		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	49%	<0.652	U			49%	<0.806	U			49%	<0.705	U			49%	<0.725	U		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	52%	<1.30	U			52%	<1.61	U			52%	<1.41	U			52%	<1.45	U		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	63%	<1.30	U			63%	<1.61	U			63%	<1.41	U			63%	<1.45	U		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	33%	<1.30	U			33%	<1.61	U			33%	<1.41	U			33%	<1.45	U		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	38%	1.66		2.7	0.00382	38%	1.75		2.8	0.00402	38%	1.64		2.6	0.00377	38%	1.75		2.8	0.00402
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	52%	0.901		1.9	0.00156	52%	0.714	J	1.5	0.00124	52%	0.81		1.7	0.00140	52%	0.86		1.8	0.00149
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	32%	<0.652	U			32%	<0.806	U			32%	<0.705	U			32%	<0.725	U		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	38%	<0.652	U			38%	0.404	J	0.7	0.00093	38%	<0.705	U			38%	<0.725	U		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	12%	<0.652	U			12%	<0.806	U			12%	<0.705	U			12%	<0.725	U		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	48%	<0.652	U			48%	<0.806	U			48%	<0.705	U			48%	<0.725	U		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	38%	<0.652	U			38%	<0.806	U			38%	<0.705	U			38%	<0.725	U		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	54%	1.46		3.2	0.00242	54%	1.86		4.1	0.00309	54%	1.57		3.4	0.00261	54%	1.68		3.7	0.00279
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	76%	0.693		2.9	0.00094	76%	0.686	J	2.9	0.00093	76%	0.505	J	2.1	0.00069	76%	<0.725	U		
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	84%	0.69	J	4.4	0.00104	84%	<1.61	U			84%	<1.41	U			84%	<1.45	U		
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	87%	<1.30	U			87%	<1.61	U			87%	<1.41	U			87%	0.947	J	7.1	0.00153
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	66%	<0.652	U			66%	<0.806	U			66%	<0.705	U			66%	<0.725	U		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	66%	1.85		5.5	0.00261	66%	2.54		7.5	0.00359	66%	2.22		6.5	0.00314	66%	2.41		7.1	0.00341
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	83%	<0.652	UJ			83%	<0.806	UJ			83%	<0.705	UJ			83%	<0.725	UJ		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	64%	<0.652	U			64%	<0.806	U			64%	<0.705	U			64%	<0.725	U		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	70%	1.15		3.8	0.00158	70%	1.45		4.8	0.00199	70%	1.35		4.5	0.00185	70%	1.46		4.8	0.00201
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	44%	1.37		2.4	0.00279	44%	1.68		3.0	0.00342	44%	1.45		2.6	0.00295	44%	1.74		3.1	0.00354
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	82%	<0.652	U			82%	<0.806	U			82%	<0.705	U			82%	<0.725	U		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	82%	3.1		16.9	0.00442	82%	3.76		20.5	0.00536	82%	2.96		16.1	0.00422	82%	3.18		17.3	0.00454
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	72%	<0.652	U			72%	<0.806	U			72%	<0.705	U			72%	<0.725	U		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	81%	0.998		5.3	0.00141	81%	1.44		7.6	0.00204	81%	1.21		6.4	0.00171	81%	1.34		7.1	0.00189
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	62%	<0.652	U			62%	<0.806	U			62%	<0.705	U			62%	<0.725	U		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	69%	<1.30	U			69%	<1.61	U			69%	<1.41	U			69%	<1.45	U		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	72%	<0.652	U			72%	<0.806	U			72%	0.591	J	2.1	0.00080	72%	0.567	J	2.0	0.00077
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	46%	<0.652	U			46%	<0.806	U			46%	<0.705	U			46%	<0.725	U		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	85%	1.51		10.3	0.00234	85%	1.56		10.7	0.00242	85%	1.56		10.7	0.00242	85%	1.67		11.4	0.00259
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	71%	8.02		27.4	0.01096	71%	9.84		33.6	0.01345	71%	8.44		28.8	0.01154	71%	8.88		30.3	0.01214
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.652	U			75%	<0.806	U			75%	<0.705	U			75%	<0.725	U		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	50%	<0.652	U			50%	<0.806	U			50%	<0.705	U			50%	<0.725	U		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	70%	2.34		7.7	0.00321	70%	3.22		10.7	0.00442	70%	2.96		9.8	0.00407	70%	2.93		9.7	0.00403
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	44%	<0.652	U			44%	<0.806	U			44%	<0.705	U			44%	<0.725	U		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	87%	6.99		54.7	0.01154	87%	8.65		67.7	0.01428	87%	6.95		54.4	0.01147	87%	7.82		61.2	0.01291
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	77%	0.59	J	2.6	0.00081	77%	0.616	J	2.7	0.00084	77%	0.468	J	2.1	0.00064	77%	0.585	J	2.6	0.00080
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	55%	<0.652	U			55%	<0.806	U			55%	<0.705	U			55%	<0.725	U		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		

Table 3-10
Sediment *In Situ* Porewater and Surface Water PCB Results---Dark Head Cove, 2020

				SW-302					SW-303					SW-304					SW-305				
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**	**% Retained**	**ng/g**		**ng/g corrected**	**ng/L**
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	97%	<0.652	U			97%	<0.806	U			97%	<0.705	U			97%	<0.725	U		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	90%	1.21	J	11.8	0.00225	90%	1.57	J	15.3	0.00292	90%	1.33	J	12.9	0.00247	90%	1.49		14.5	0.00277
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	95%	<0.652	U			95%	<0.806	U			95%	<0.705	U			95%	<0.725	U		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	88%	<0.652	U			88%	<0.806	U			88%	<0.705	U			88%	<0.725	U		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	99%	1.21		121.0	0.01095	99%	1.73		173.0	0.01565	99%	1.52		152.0	0.01375	99%	1.82		182.0	0.01647
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	99%	<0.652	U			99%	0.654	J	68.8	0.00917	99%	<0.705	U			99%	0.708	J	74.5	0.00992
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	0.547	J	54.7	0.00428
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	93%	<0.652	U			93%	<0.806	U			93%	<0.705	U			93%	<0.725	U		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	99%	1.61		169.4	0.02257	99%	2.17		228.3	0.03041	99%	1.78		187.3	0.02495	99%	1.95		205.2	0.02733
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	77%	0.499	J	2.2	0.00068	77%	0.72	J	3.2	0.00098	77%	0.451	J	2.0	0.00062	77%	0.62	J	2.7	0.00085
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	97%	1.32		46.8	0.00671	97%	1.59		56.4	0.00808	97%	1.42		50.4	0.00722	97%	1.93		68.5	0.00981
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	99%	0.485	J	48.5	0.00601	99%	<0.806	U			99%	0.831		83.1	0.01029	99%	0.842		84.2	0.01043
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	1.24		5.0	0.00168	75%	1.48		6.0	0.00201	75%	1.29		5.2	0.00175	75%	1.76		7.2	0.00239
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	99%	2.5		250.0	0.01819	99%	3.07		307.0	0.02234	99%	2.83		283.0	0.02060	99%	3.06		306.0	0.02227
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	99%	<1.30	U			99%	<1.61	U			99%	<1.41	U			99%	<1.45	U		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	99%	1.15		115.0	0.01232	99%	1.87		187.0	0.02004	99%	1.37		137.0	0.01468	99%	1.46		146.0	0.01564
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	83%	<0.652	U			83%	<0.806	U			83%	<0.705	U			83%	<0.725	U		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	73%	<0.652	U			73%	<0.806	U			73%	<0.705	U			73%	<0.725	U		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	99%	2.62		262.0	0.03019	99%	3.49		349.0	0.04021	99%	3.1		310.0	0.03572	99%	3.38		338.0	0.03894
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	81%	<0.652	U			81%	<0.806	U			81%	<0.705	U			81%	<0.725	U		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	99%	<0.652	U			99%	0.799	J	79.9	0.00288	99%	<0.705	U			99%	0.502	J	50.2	0.00181
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	99%	0.706		70.6	0.00639	99%	0.949		94.9	0.00859	99%	0.636	J	63.6	0.00575	99%	1.01		101.0	0.00914
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	99%	<0.652	U			99%	0.414	J	41.4	0.00149	99%	<0.705	U			99%	0.437	J	43.7	0.00158
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	99%	<1.30	U			99%	<1.61	U			99%	<1.41	U			99%	<1.45	U		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.652	U			99%	<0.806	U			99%	<0.705	U			99%	<0.725	U		

J = estimated result
U = non-detect
K_{ow} = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
ng/g = nanogram per gram
ng/L = nanogram per liter

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW01-A				PPW01-B				PPW01-C				PPW01-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2-Chlorobiphenyl	2051-60-7	4.46	4.093	0%	<0.712			8%	<0.720			8%	<0.776			8%	<0.662		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	15%	<0.712			15%	<0.720			15%	<0.776			15%	<0.662		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	15%	<0.712			15%	<0.720			15%	<0.776			15%	<0.662		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	32%	<0.712			32%	<0.720			32%	<0.776			32%	<0.662		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	30%	<0.712			30%	<0.720			30%	<0.776			30%	<0.662		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	33%	<0.712			33%	<0.720			33%	<0.776			33%	<0.662		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	32%	<0.712			32%	<0.720			32%	<0.776			32%	<0.662		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	33%	<0.712			33%	<0.720			33%	<0.776			33%	<0.662		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	16%	<1.42			16%	<1.44			16%	<1.55			16%	<1.32		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	23%	<0.712			23%	<0.720			23%	<0.776			23%	<0.662		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	26%	<0.712			26%	<0.720			26%	<0.776			26%	<0.662		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	26%	<0.712			26%	<0.720			26%	<0.776			26%	<0.662		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	26%	<0.712			26%	<0.720			26%	<0.776			26%	<0.662		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	26%	<0.712			26%	<0.720			26%	<0.776			26%	<0.662		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	29%	<0.712			29%	<0.720			29%	<0.776			29%	<0.662		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	31%	<0.712			31%	<0.720			31%	<0.776			31%	<0.662		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	31%	<0.712			31%	<0.720			31%	<0.776			31%	<0.662		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	25%	<0.712			25%	<0.720			25%	<0.776			25%	<0.662		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	40%	<1.42			40%	<1.44			40%	<1.55			40%	<1.32		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	41%	<0.712			41%	<0.720			41%	<0.776			41%	<0.662		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	41%	<0.712			41%	<0.720			41%	<0.776			41%	<0.662		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	34%	<0.712			34%	<0.720			34%	<0.776			34%	<0.662		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	44%	<0.712			44%	<0.720			44%	<0.776			44%	<0.662		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	43%	<0.712			43%	<0.720			43%	<0.776			43%	<0.662		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	37%	<0.712			37%	<0.720			37%	<0.776			37%	<0.662		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	44%	<0.712			44%	<0.720			44%	<0.776			44%	<0.662		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	42%	<0.712			42%	<0.720			42%	<0.776			42%	<0.662		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	37%	<0.712			37%	<0.720			37%	<0.776			37%	<0.662		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	44%	<0.712			44%	<0.720			44%	<0.776			44%	<0.662		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	37%	<0.712			37%	<0.720			37%	<0.776			37%	<0.662		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	42%	<0.712			42%	<0.720			42%	<0.776			42%	<0.662		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	43%	<0.712			43%	<0.720			43%	<0.776			43%	<0.662		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	48%	<0.712			48%	<0.720			48%	<0.776			48%	<0.662		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	50%	<0.712			50%	<0.720			50%	<0.776			50%	<0.662		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	48%	<0.712			48%	<0.720			48%	<0.776			48%	<0.662		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	46%	<0.712			46%	<0.720			46%	<0.776			46%	<0.662		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	50%	<0.712			50%	<0.720			50%	<0.776			50%	<0.662		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	43%	<0.712			43%	<0.720			43%	<0.776			43%	<0.662		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	44%	<0.712			44%	<0.720			44%	<0.776			44%	<0.662		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	46%	<0.712			46%	<0.720			46%	<0.776			46%	<0.662		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	46%	<0.712			46%	<0.720			46%	<0.776			46%	<0.662		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	46%	<0.712			46%	<0.720			46%	<0.776			46%	<0.662		
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	40%	<0.712			40%	<0.720			40%	<0.776			40%	<0.662		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	49%	1.15	2.26	0.00633	49%	1.01	1.98	0.00556	49%	0.978	1.92	0.00538	49%	1.11	2.18	0.00611
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	47%	<0.712			47%	<0.720			47%	<0.776			47%	<0.662		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	49%	0.633	1.24	0.00348	49%	0.53	1.04	0.00292	49%	0.531	1.04	0.00292	49%	0.678	1.33	0.00373
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	43%	<0.712			43%	<0.720			43%	<0.776			43%	<0.662		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	43%	0.754	1.31	0.00626	43%	0.622	1.08	0.00517	43%	0.573	1.00	0.00476	43%	0.683	1.19	0.00567
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	49%	<0.712			49%	<0.720			49%	<0.776			49%	<0.662		
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	42%	0.536	0.93	0.00454	42%	0.472	0.82	0.00400	42%	0.393	0.68	0.00333	42%	0.45	0.78	0.00381
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	30%	<0.712			30%	<0.720			30%	<0.776			30%	<0.662		
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	57%	<0.712			57%	<0.720			57%	<0.776			57%	<0.662		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	57%	<0.712			57%	<0.720			57%	<0.776			57%	<0.662		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	59%	<0.712			59%	<0.720			59%	<0.776			59%	<0.662		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	52%	<0.712			52%	<0.720			52%	<0.776			52%	<0.662		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	57%	<0.712			57%	<0.720			57%	<0.776			57%	<0.662		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	55%	<0.712			55%	<0.720			55%	<0.776			55%	<0.662		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	59%	<0.712			59%	<0.720			59%	<0.776			59%	<0.662		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	52%	<2.14			52%	<2.16			52%	<2.33			52%	<1.98		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	59%	<0.712			59%	<0.720			59%	<0.776			59%	<0.662		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	59%	<1.42			59%	<1.44			59%	<1.55			59%	<1.32		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	57%	<1.42			57%	<1.44			57%	<1.55			57%	<1.32		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	55%	<0.712			55%	<0.720			55%	<0.776			55%	<0.662		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	59%	<0.712			59%	<0.720			59%	<0.776			59%	<0.662		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	53%	<0.712			53%	<0.720			53%	<0.776			53%	<0.662		
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	61%	<0.712			61%	<0.720			61%	<0.776			61%	<0.662		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	47%	<1.42			47%	<1.44			47%	<1.55			47%	<1.32		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	59%	<0.712			59%	<0.720			59%	<0.776			59%	<0.662		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	57%	<0.712			57%	<0.720			57%	<0.776			57%	<0.662		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW01-A				PPW01-B				PPW01-C				PPW01-D			
Congener	CAS	Log Kow	Log KPE-D*	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	64%	<0.712			64%	<0.720			64%	<0.776			64%	<0.662		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	64%	<0.712			64%	<0.720			64%	<0.776			64%	<0.662		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	66%	<0.712			66%	<0.720			66%	<0.776			66%	<0.662		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	68%	<0.712			68%	<0.720			68%	<0.776			68%	<0.662		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	64%	<0.712			64%	<0.720			64%	<0.776			64%	<0.662		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	60%	0.675	1.70	0.00190	60%	0.518	1.31	0.00146	60%	0.553	1.39	0.00156	60%	0.527	1.33	0.00149
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	64%	0.815	2.29	0.00183	64%	0.77	2.17	0.00173	64%	0.914	2.57	0.00205	64%	0.867	2.44	0.00194
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	58%	<0.712			58%	<0.720			58%	<0.776			58%	<0.662		
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	60%	<0.712			60%	<0.720			60%	<0.776			60%	<0.662		
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	48%	<0.712			48%	<0.720			48%	<0.776			48%	<0.662		
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	73%	<0.712			73%	<0.720			73%	<0.776			73%	<0.662		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	72%	<0.712			72%	<0.720			72%	<0.776			72%	<0.662		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.42			75%	<1.44			75%	<1.55			75%	<1.32		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	75%	<0.712			75%	<0.720			75%	<0.776			75%	<0.662		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	68%	<0.712			68%	<0.720			68%	<0.776			68%	<0.662		
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	69%	<0.712			69%	<0.720			69%	<0.776			69%	<0.662		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	73%	<0.712			73%	<0.720			73%	<0.776			73%	<0.662		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	68%	<0.712			68%	<0.720			68%	<0.776			68%	<0.662		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	63%	<0.712			63%	<0.720			63%	<0.776			63%	<0.662		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	67%	<0.712			67%	<0.720			67%	<0.776			67%	<0.662		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	75%	<0.712			75%	<0.720			75%	<0.776			75%	<0.662		
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	71%	<0.712			71%	<0.720			71%	<0.776			71%	<0.662		
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	77%	<0.712			77%	<0.720			77%	<0.776			77%	<0.662		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	62%	<2.14			62%	<2.16			62%	<2.33			62%	<1.98		
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	72%	<0.712			72%	<0.720			72%	<0.776			72%	<0.662		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.712			75%	<0.720			75%	<0.776			75%	<0.662		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	80%	<0.712			80%	<0.720			80%	<0.776			80%	<0.662		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	82%	<0.712			82%	<0.720			82%	<0.776			82%	<0.662		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	59%	<0.712			59%	<0.720			59%	<0.776			59%	<0.662		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	66%	<2.14			66%	<2.16			66%	<2.33			66%	<1.98		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	62%	<0.712			62%	<0.720			62%	<0.776			62%	<0.662		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	64%	<1.42			64%	<1.44			64%	<1.55			64%	<1.32		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	69%	<1.42			69%	<1.44			69%	<1.55			69%	<1.32		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	55%	<1.42			55%	<1.44			55%	<1.55			55%	<1.32		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	57%	0.47	1.10	0.00157	57%	0.386	0.91	0.00129	57%	0.433	1.02	0.00145	57%	0.352	0.83	0.00118
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	64%	<0.712			64%	<0.720			64%	<0.776			64%	<0.662		
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	55%	<0.712			55%	<0.720			55%	<0.776			55%	<0.662		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	57%	<0.712			57%	<0.720			57%	<0.776			57%	<0.662		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	45%	<0.712			45%	<0.720			45%	<0.776			45%	<0.662		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	62%	<0.712			62%	<0.720			62%	<0.776			62%	<0.662		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	57%	<0.712			57%	<0.720			57%	<0.776			57%	<0.662		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	65%	0.486	1.39	0.00106	65%	0.397	1.14	0.00086	65%	0.486	1.39	0.00106	65%	0.392	1.12	0.00085
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	75%	<0.712			75%	<0.720			75%	<0.776			75%	<0.662		
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	79%	<1.42			79%	<1.44			79%	<1.55			79%	<1.32		
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	80%	<1.42			80%	<1.44			80%	<1.55			80%	<1.32		
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	71%	<0.712			71%	<0.720			71%	<0.776			71%	<0.662		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	71%	0.684	2.33	0.00112	71%	0.485	1.65	0.00079	71%	0.576	1.96	0.00094	71%	0.576	1.96	0.00094
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	79%	<0.712			79%	<0.720			79%	<0.776			79%	<0.662		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	70%	<0.712			70%	<0.720			70%	<0.776			70%	<0.662		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	72%	<0.712			72%	<0.720			72%	<0.776			72%	<0.662		
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	60%	0.727	1.82	0.00208	60%	0.602	1.51	0.00172	60%	0.692	1.73	0.00198	60%	0.47	1.18	0.00135
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	78%	<0.712			78%	<0.720			78%	<0.776			78%	<0.662		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	78%	0.916	4.18	0.00109	78%	0.721	3.29	0.00086	78%	0.809	3.69	0.00097	78%	0.793	3.62	0.00095
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	73%	<0.712			73%	<0.720			73%	<0.776			73%	<0.662		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	78%	0.427	1.92	0.00052	78%	<0.720			78%	<0.776			78%	<0.662		
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	69%	<0.712			69%	<0.720			69%	<0.776			69%	<0.662		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	72%	<1.42			72%	<1.44			72%	<1.55			72%	<1.32		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	73%	<0.712			73%	<0.720			73%	<0.776			73%	<0.662		
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	61%	<0.712			61%	<0.720			61%	<0.776			61%	<0.662		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	80%	0.393	1.95	0.00044	80%	0.371	1.84	0.00042	80%	0.402	1.99	0.00045	80%	<0.662		
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	73%	2.05	7.56	0.00303	73%	1.9	7.01	0.00281	73%	2.01	7.42	0.00297	73%	2.02	7.45	0.00298
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.712			75%	<0.720			75%	<0.776			75%	<0.662		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	63%	<0.712			63%	<0.720			63%	<0.776			63%	<0.662		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	72%	0.759	2.76	0.00114	72%	0.632	2.29	0.00095	72%	0.593	2.15	0.00089	72%	0.618	2.24	0.00093
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	60%	<0.712			60%	<0.720			60%	<0.776			60%	<0.662		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	81%	1.74	9.0	0.00190	81%	1.59	8.3	0.00174	81%	1.76	9.1	0.00193	81%	1.61	8.4	0.00176
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	76%	<0.712			76%	<0.720			76%	<0.776			76%	<0.662		
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	66%	<0.712			66%	<0.720			66%	<0.776			66%	<0.662		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	88%	<0.712			88%	<0.720			99%	<0.776			88%	<0.662		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW01-A				PPW01-B				PPW01-C				PPW01-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	88%	<0.712			88%	<0.720			99%	<0.776			88%	<0.662		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	90%	<0.712			90%	<0.720			99%	<0.776			99%	<0.662		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	85%	<0.712			85%	<0.720			99%	<0.776			85%	<0.662		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	90%	<0.712			90%	<0.720			99%	<0.776			99%	<0.662		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	82%	<1.42			82%	<1.44			82%	<1.55			82%	<1.32		
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	85%	<0.712			85%	<0.720			85%	<0.776			85%	<0.662		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	81%	<0.712			81%	<0.720			81%	<0.776			81%	<0.662		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	91%	<0.712			91%	<0.720			99%	<0.776			99%	<0.662		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	86%	<0.712			86%	<0.720			99%	<0.776			86%	<0.662		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	96%	<0.712			96%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	91%	0.664	7.5	0.00067	91%	0.803	9.0	0.00082	99%	0.483	48.3	0.00437	99%	0.594	59.4	0.00537
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	86%	<0.712			86%	<0.720			99%	<0.776			86%	<0.662		
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	93%	<0.712			93%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	84%	<0.712			84%	<0.720			84%	<0.776			84%	<0.662		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	86%	0.792	5.81	0.00077	86%	0.776	5.69	0.00076	99%	0.905	90.50	0.01205	86%	0.734	5.38	0.00072
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	76%	<0.712			76%	<0.720			76%	<0.776			76%	<0.662		
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	85%	0.526	3.62	0.00052	85%	0.557	3.83	0.00055	99%	0.545	54.50	0.00781	85%	0.598	4.12	0.00059
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	87%	<0.712			87%	<0.720			99%	<0.776			87%	<0.662		
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	0.581	2.33	0.00078	75%	0.564	2.27	0.00076	75%	0.669	2.69	0.00090	75%	0.548	2.20	0.00074
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	94%	1.06	17	0.00124	94%	0.805	13	0.00094	99%	1.02	102	0.00742	99%	0.962	96	0.00700
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	86%	<0.712			86%	<0.720			99%	<0.776			86%	<0.662		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	89%	<1.42			89%	<1.44			99%	<1.55			89%	<1.32		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	89%	0.643	5.86	0.00063	89%	0.644	5.87	0.00063	99%	0.747	74.70	0.00800	89%	0.529	4.82	0.00052
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	79%	<0.712			79%	<0.720			79%	<0.776			79%	<0.662		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	86%	<0.712			86%	<0.720			99%	<0.776			86%	<0.662		
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	74%	<0.712			74%	<0.720			74%	<0.776			74%	<0.662		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	88%	1.25	11	0.00121	88%	1.1	9	0.00107	99%	1.2	120	0.01383	88%	0.958	8	0.00093
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	78%	<0.712			78%	<0.720			78%	<0.776			78%	<0.662		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	99%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	97%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	98%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	98%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	107%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	100%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	102%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	92%	<0.712			92%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	101%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	101%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	91%	0.366	4.1	0.00037	91%	0.433	4.9	0.00044	99%	0.424	42.4	0.00384	99%	<0.662		
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	90%	<0.712			90%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	102%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	91%	<1.42			91%	<1.44			99%	<1.55			99%	<1.32		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	99%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	99%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.712			99%	<0.720			99%	<0.776			99%	<0.662		

Kow = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
µg/g = microgram per gram
µg/L = microgram per liter

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW02-A				PPW02-B				PPW02-C				PPW02-D			
Congener	CAS	Log Kow	Log KPE-D*	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L
2-Chlorobiphenyl	2051-60-7	4.46	4.093	8%	<0.650			8%	<0.711			8%	<0.689			8%	<0.622		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	15%	<0.650			15%	<0.711			15%	<0.689			15%	<0.622		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	15%	<0.650			15%	<0.711			15%	<0.689			15%	<0.622		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	32%	<0.650			32%	<0.711			32%	<0.689			32%	<0.622		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	30%	<0.650			30%	<0.711			30%	<0.689			30%	<0.622		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	33%	<0.650			33%	<0.711			33%	<0.689			33%	<0.622		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	32%	<0.650			32%	<0.711			32%	<0.689			32%	<0.622		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	33%	<0.650			33%	<0.711			33%	<0.689			33%	<0.622		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	16%	<1.30			16%	<1.42			16%	<1.38			16%	<1.24		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	23%	<0.650			23%	<0.711			23%	<0.689			23%	<0.622		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	26%	<0.650			26%	<0.711			26%	<0.689			26%	<0.622		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	26%	<0.650			26%	<0.711			26%	<0.689			26%	<0.622		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	26%	<0.650			26%	<0.711			26%	<0.689			26%	<0.622		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	26%	<0.650			26%	<0.711			26%	<0.689			26%	<0.622		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	29%	<0.650			29%	<0.711			29%	<0.689			29%	<0.622		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	31%	<0.650			31%	<0.711			31%	<0.689			31%	<0.622		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	31%	<0.650			31%	<0.711			31%	<0.689			31%	<0.622		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	25%	<0.650			25%	<0.711			25%	<0.689			25%	<0.622		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	40%	<1.30			40%	<1.42			40%	<1.38			40%	<1.24		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	41%	<0.650			41%	<0.711			41%	<0.689			41%	<0.622		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	41%	<0.650			41%	<0.711			41%	<0.689			41%	<0.622		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	34%	<0.650			34%	<0.711			34%	<0.689			34%	<0.622		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	44%	<0.650			44%	<0.711			44%	<0.689			44%	<0.622		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	43%	<0.650			43%	<0.711			43%	<0.689			43%	<0.622		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	37%	<0.650			37%	<0.711			37%	<0.689			37%	<0.622		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	44%	<0.650			44%	<0.711			44%	<0.689			44%	<0.622		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	42%	<0.650			42%	<0.711			42%	<0.689			42%	<0.622		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	37%	<0.650			37%	<0.711			37%	<0.689			37%	<0.622		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	44%	<0.650			44%	<0.711			44%	<0.689			44%	<0.622		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	37%	<0.650			37%	<0.711			37%	<0.689			37%	<0.622		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	42%	<0.650			42%	<0.711			42%	<0.689			42%	<0.622		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	43%	<0.650			43%	<0.711			43%	<0.689			43%	<0.622		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	48%	<0.650			48%	<0.711			48%	<0.689			48%	<0.622		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	50%	<0.650			50%	<0.711			50%	<0.689			50%	<0.622		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	48%	<0.650			48%	<0.711			48%	<0.689			48%	<0.622		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	46%	<0.650			46%	<0.711			46%	<0.689			46%	<0.622		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	50%	<0.650			50%	<0.711			50%	<0.689			50%	<0.622		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	43%	<0.650			43%	<0.711			43%	<0.689			43%	<0.622		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	44%	<0.650			44%	<0.711			44%	<0.689			44%	<0.622		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	46%	<0.650			46%	<0.711			46%	<0.689			46%	<0.622		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	46%	<0.650			46%	<0.711			46%	<0.689			46%	<0.622		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	46%	<0.650			46%	<0.711			46%	<0.689			46%	<0.622		
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	40%	<0.650			40%	<0.711			40%	<0.689			40%	<0.622		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	49%	1.93	3.79	0.01062	49%	1.78	3.50	0.00979	49%	1.56	3.06	0.00858	49%	2.04	4.01	0.01123
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	47%	<0.650			47%	<0.711			47%	<0.689			47%	<0.622		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	49%	1.06	2.08	0.00583	49%	1.02	2.00	0.00561	49%	0.809	1.59	0.00445	49%	1.03	2.02	0.00567
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	43%	<0.650			43%	<0.711			43%	<0.689			43%	<0.622		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	43%	1.65	2.87	0.01370	43%	1.51	2.63	0.01254	43%	1.22	2.12	0.01013	43%	1.52	2.65	0.01262
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	49%	0.364	0.71	0.00204	49%	0.462	0.90	0.00259	49%	<0.689			49%	0.345	0.67	0.00193
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	42%	0.948	1.64	0.00802	42%	1.03	1.78	0.00872	42%	0.916	1.59	0.00775	42%	0.829	1.44	0.00702
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	30%	0.384	0.55	0.00724	30%	0.401	0.57	0.00756	30%	<0.689			30%	0.321	0.46	0.00605
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	57%	<0.650			57%	<0.711			57%	<0.689			57%	<0.622		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	57%	<0.650			57%	<0.711			57%	<0.689			57%	<0.622		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	59%	<0.650			59%	<0.711			59%	<0.689			59%	<0.622		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	52%	<0.650			52%	<0.711			52%	<0.689			52%	<0.622		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	57%	<0.650			57%	<0.711			57%	<0.689			57%	<0.622		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	55%	<0.650			55%	<0.711			55%	<0.689			55%	<0.622		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	59%	<0.650			59%	<0.711			59%	<0.689			59%	<0.622		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	52%	<1.95			52%	<2.13			52%	<2.07			52%	<1.87		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	59%	<0.650			59%	<0.711			59%	<0.689			59%	<0.622		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	59%	<1.30			59%	<1.42			59%	<1.38			59%	<1.24		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	57%	<1.30			57%	<1.42			57%	<1.38			57%	<1.24		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	55%	<0.650			55%	<0.711			55%	<0.689			55%	<0.622		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	59%	<0.650			59%	<0.711			59%	<0.689			59%	<0.622		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	53%	<0.650			53%	<0.711			53%	<0.689			53%	<0.622		
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	61%	<0.650			61%	<0.711			61%	<0.689			61%	<0.622		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	47%	<1.30			47%	<1.42			47%	<1.38			47%	<1.24		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	59%	<0.650			59%	<0.711			59%	<0.689			59%	<0.622		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	57%	<0.650			57%	<0.711			57%	<0.689			57%	<0.622		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW02-A				PPW02-B				PPW02-C				PPW02-D			
Congener	CAS	Log Kow	Log KPE-D*	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	64%	<0.650			64%	<0.711			64%	<0.689			64%	<0.622		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	64%	<0.650			64%	<0.711			64%	<0.689			64%	<0.622		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	66%	<0.650			66%	<0.711			66%	<0.689			66%	<0.622		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	68%	<0.650			68%	<0.711			68%	<0.689			68%	<0.622		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	64%	<0.650			64%	<0.711			64%	<0.689			64%	<0.622		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	60%	1.02	2.57	0.00287	60%	0.879	2.22	0.00248	60%	0.909	2.29	0.00256	60%	0.87	2.19	0.00245
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	64%	1.13	3.18	0.00253	64%	1.25	3.52	0.00280	64%	0.904	2.54	0.00203	64%	1.02	2.87	0.00229
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	58%	<0.650			58%	<0.711			58%	<0.689			58%	<0.622		
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	60%	0.384	0.96	0.00110	60%	0.357	0.89	0.00102	60%	0.378	0.95	0.00108	60%	<0.622		
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	48%	<0.650			48%	<0.711			48%	<0.689			48%	<0.622		
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	73%	<0.650			73%	<0.711			73%	<0.689			73%	<0.622		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	72%	<0.650			72%	<0.711			72%	<0.689			72%	<0.622		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.30			75%	<1.42			75%	<1.38			75%	<1.24		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	75%	<0.650			75%	<0.711			75%	<0.689			75%	<0.622		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	68%	<0.650			68%	0.41	1.27	0.00078	68%	0.355	1.10	0.00067	68%	<0.622		
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	69%	<0.650			69%	<0.711			69%	<0.689			69%	<0.622		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	73%	<0.650			73%	<0.711			73%	<0.689			73%	<0.622		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	68%	<0.650			68%	<0.711			68%	<0.689			68%	<0.622		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	63%	<0.650			63%	<0.711			63%	<0.689			63%	<0.622		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	67%	<0.650			67%	<0.711			67%	<0.689			67%	<0.622		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	75%	<0.650			75%	<0.711			75%	<0.689			75%	<0.622		
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	71%	<0.650			71%	<0.711			71%	<0.689			71%	<0.622		
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	77%	<0.650			77%	<0.711			77%	<0.689			77%	<0.622		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	62%	<1.95			62%	<2.13			62%	<2.07			62%	<1.87		
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	72%	<0.650			72%	<0.711			72%	<0.689			72%	<0.622		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.650			75%	<0.711			75%	<0.689			75%	<0.622		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	80%	<0.650			80%	<0.711			80%	<0.689			80%	<0.622		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	82%	<0.650			82%	<0.711			82%	<0.689			82%	<0.622		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	59%	<0.650			59%	<0.711			59%	<0.689			59%	<0.622		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	66%	<1.95			66%	<2.13			66%	<2.07			66%	<1.87		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	62%	<0.650			62%	<0.711			62%	<0.689			62%	<0.622		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	64%	<1.30			64%	<1.42			64%	<1.38			64%	<1.24		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	69%	<1.30			69%	<1.42			69%	<1.38			69%	<1.24		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	55%	<1.30			55%	<1.42			55%	<1.38			55%	<1.24		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	57%	0.839	1.97	0.00280	57%	0.804	1.89	0.00268	57%	0.452	1.06	0.00151	57%	0.712	1.67	0.00238
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	64%	<0.650			64%	<0.711			64%	<0.689			64%	<0.622		
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	55%	<0.650			55%	<0.711			55%	<0.689			55%	<0.622		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	57%	<0.650			57%	<0.711			57%	<0.689			57%	<0.622		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	45%	<0.650			45%	<0.711			45%	<0.689			45%	<0.622		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	62%	<0.650			62%	<0.711			62%	<0.689			62%	<0.622		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	57%	<0.650			57%	<0.711			57%	<0.689			57%	<0.622		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	65%	1	2.86	0.00217	65%	0.687	1.97	0.00149	65%	0.62	1.77	0.00135	65%	0.637	1.82	0.00138
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	75%	0.329	1.34	0.00044	75%	<0.711			75%	<0.689			75%	<0.622		
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	79%	<1.30			79%	<1.42			79%	<1.38			79%	<1.24		
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	80%	<1.30			80%	<1.42			80%	<1.38			80%	<1.24		
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	71%	<0.650			71%	<0.711			71%	<0.689			71%	<0.622		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	71%	0.799	2.72	0.00131	71%	0.654	2.23	0.00107	71%	0.813	2.77	0.00133	71%	0.64	2.18	0.00105
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	79%	<0.650			79%	<0.711			79%	<0.689			79%	<0.622		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	70%	<0.650			70%	<0.711			70%	<0.689			70%	<0.622		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	72%	0.355	1.29	0.00053	72%	0.431	1.56	0.00065	72%	0.518	1.88	0.00078	72%	0.51	1.85	0.00077
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	60%	0.812	2.03	0.00233	60%	0.855	2.14	0.00245	60%	0.72	1.80	0.00206	60%	0.632	1.58	0.00181
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	78%	<0.650			78%	<0.711			78%	<0.689			78%	<0.622		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	78%	1.46	6.66	0.00175	78%	0.932	4.25	0.00111	78%	1.07	4.88	0.00128	78%	0.946	4.31	0.00113
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	73%	<0.650			73%	<0.711			73%	<0.689			73%	<0.622		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	78%	0.658	2.96	0.00080	78%	<0.711			78%	0.422	1.90	0.00051	78%	0.49	2.20	0.00059
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	69%	<0.650			69%	<0.711			69%	<0.689			69%	<0.622		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	72%	<1.30			72%	<1.42			72%	<1.38			72%	<1.24		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	73%	<0.650			73%	<0.711			73%	<0.689			73%	<0.622		
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	61%	<0.650			61%	<0.711			61%	<0.689			61%	<0.622		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	80%	0.51	2.53	0.00057	80%	0.398	1.98	0.00045	80%	0.466	2.31	0.00052	80%	0.404	2.00	0.00045
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	73%	3.41	12.58	0.00503	73%	2.44	9.00	0.00360	73%	2.86	10.55	0.00422	73%	2.63	9.70	0.00388
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.650			75%	<0.711			75%	<0.689			75%	<0.622		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	63%	<0.650			63%	<0.711			63%	<0.689			63%	<0.622		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	72%	1.25	4.54	0.00188	72%	0.896	3.25	0.00135	72%	0.98	3.56	0.00148	72%	0.87	3.16	0.00131
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	60%	<0.650			60%	<0.711			60%	<0.689			60%	<0.622		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	81%	3.37	17.5	0.00369	81%	2.15	11.2	0.00235	81%	2.23	11.6	0.00244	81%	2.09	10.8	0.00229
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	76%	0.328	1.37	0.00042	76%	<0.711			76%	<0.689			76%	<0.622		
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	66%	<0.650			66%	<0.711			66%	<0.689			66%	<0.622		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	88%	<0.650			88%	<0.711			88%	<0.689			88%	<0.622		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW02-A				PPW02-B				PPW02-C				PPW02-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	88%	<0.650			88%	<0.711			88%	<0.689			88%	<0.622		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	90%	<0.650			90%	<0.711			90%	<0.689			90%	<0.622		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	85%	<0.650			85%	<0.711			85%	<0.689			85%	<0.622		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	90%	<0.650			90%	<0.711			90%	<0.689			90%	<0.622		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	82%	0.663	3.67	0.00070	82%	<1.42			82%	<1.38			82%	<1.24		
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	85%	<0.650			85%	<0.711			85%	<0.689			85%	<0.622		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	81%	<0.650			81%	<0.711			81%	<0.689			81%	<0.622		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	91%	<0.650			91%	<0.711			99%	<0.689			91%	<0.622		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	86%	<0.650			86%	<0.711			86%	<0.689			86%	<0.622		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	96%	<0.650			96%	<0.711			99%	<0.689			96%	<0.622		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	91%	1.32	14.8	0.00134	91%	0.519	5.8	0.00053	99%	0.868	86.8	0.00785	91%	0.553	6.2	0.00056
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	86%	0.658	4.82	0.00064	86%	0.413	3.03	0.00040	86%	0.366	2.68	0.00036	86%	0.356	2.61	0.00035
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	93%	0.423	5.93	0.00046	93%	<0.711			99%	<0.689			93%	<0.622		
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	84%	<0.650			84%	<0.711			84%	<0.689			84%	<0.622		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	86%	1.51	11.07	0.00147	86%	0.945	6.93	0.00092	86%	1.09	7.99	0.00106	86%	0.845	6.19	0.00083
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	76%	<0.650			76%	<0.711			76%	0.391	1.63	0.00051	76%	<0.622		
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	85%	1.06	7.30	0.00104	85%	0.66	4.54	0.00065	85%	0.609	4.19	0.00060	85%	0.759	5.22	0.00075
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	87%	0.459	3.60	0.00045	87%	0.448	3.51	0.00044	87%	<0.689			87%	<0.622		
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	1.06	4.26	0.00142	75%	0.639	2.57	0.00086	75%	0.752	3.02	0.00101	75%	0.733	2.95	0.00098
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	94%	2.59	41	0.00302	94%	0.969	16	0.00113	99%	1.37	137	0.00997	94%	1.1	18	0.00128
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	86%	<0.650			86%	<0.711			86%	<0.689			86%	<0.622		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	89%	<1.30			89%	<1.42			89%	<1.38			89%	<1.24		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	89%	1.14	10.38	0.00111	89%	0.701	6.38	0.00068	89%	0.694	6.32	0.00068	89%	0.667	6.08	0.00065
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	79%	<0.650			79%	<0.711			79%	<0.689			79%	<0.622		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	86%	<0.650			86%	<0.711			86%	<0.689			86%	<0.622		
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	74%	<0.650			74%	<0.711			74%	<0.689			74%	<0.622		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	88%	2.25	19	0.00218	88%	1.1	9	0.00107	88%	1.19	10	0.00116	88%	1.19	10	0.00116
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	78%	<0.650			78%	<0.711			78%	<0.689			78%	<0.622		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	104%	<0.650			104%	<0.711			99%	<0.689			104%	<0.622		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	97%	0.336	10.23	0.00058	97%	<0.711			99%	<0.689			97%	<0.622		
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.650			99%	<0.711			99%	<0.689			99%	<0.622		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	98%	<0.650			98%	<0.711			99%	<0.689			98%	<0.622		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	98%	<0.650			98%	<0.711			99%	<0.689			98%	<0.622		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	107%	0.598	-8.83	-0.00022	99%	0.48	48.00	0.00121	99%	<0.689			107%	<0.622		
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	100%	0.345	105.54	0.00474	100%	<0.711			99%	<0.689			100%	<0.622		
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	102%	0.515	-22.04	-0.00080	102%	<0.711			99%	<0.689			102%	<0.622		
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	92%	<0.650			92%	<0.711			99%	<0.689			92%	<0.622		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	101%	<0.650			101%	<0.711			99%	<0.689			101%	<0.622		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	101%	<0.650			101%	<0.711			99%	<0.689			101%	<0.622		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	91%	0.871	9.8	0.00088	91%	0.519	5.8	0.00053	99%	0.5	50.0	0.00452	91%	0.35	3.9	0.00036
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	90%	<0.650			90%	<0.711			90%	<0.689			90%	<0.622		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	102%	0.464	-19.86	-0.00072	102%	<0.711			99%	<0.689			102%	<0.622		
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	91%	<1.30			91%	<1.42			91%	<1.38			91%	<1.24		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	113%	<0.650			99%	<0.711			99%	<0.689			113%	<0.622		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	115%	<0.650			99%	<0.711			99%	<0.689			115%	<0.622		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	105%	<0.650			99%	<0.711			99%	<0.689			105%	<0.622		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	104%	<0.650			104%	<0.711			99%	<0.689			104%	<0.622		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	118%	<0.650			99%	<0.711			99%	<0.689			118%	<0.622		

Kow = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
µg/g = microgram per gram
µg/L = microgram per liter

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW03-A				PPW03-B				PPW03-C				PPW03-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2-Chlorobiphenyl	2051-60-7	4.46	4.093	8%	<0.709			8%	<0.679			8%	<0.682			8%	<0.651		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	15%	<0.709			15%	<0.679			15%	<0.682			15%	<0.651		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	15%	<0.709			15%	<0.679			15%	<0.682			15%	<0.651		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	32%	<0.709			32%	<0.679			32%	<0.682			32%	<0.651		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	30%	<0.709			30%	<0.679			30%	<0.682			30%	<0.651		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	33%	<0.709			33%	<0.679			33%	<0.682			33%	<0.651		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	32%	<0.709			32%	<0.679			32%	<0.682			32%	<0.651		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	33%	<0.709			33%	<0.679			33%	<0.682			33%	<0.651		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	16%	<1.42			16%	<1.36			16%	<1.36			16%	<1.30		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	23%	<0.709			23%	<0.679			23%	<0.682			23%	<0.651		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	26%	<0.709			26%	<0.679			26%	<0.682			26%	<0.651		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	26%	<0.709			26%	<0.679			26%	<0.682			26%	<0.651		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	26%	<0.709			26%	<0.679			26%	<0.682			26%	<0.651		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	26%	<0.709			26%	<0.679			26%	<0.682			26%	<0.651		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	29%	<0.709			29%	<0.679			29%	<0.682			29%	<0.651		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	31%	<0.709			31%	<0.679			31%	<0.682			31%	<0.651		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	31%	<0.709			31%	<0.679			31%	<0.682			31%	<0.651		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	25%	<0.709			25%	<0.679			25%	<0.682			25%	<0.651		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	40%	<1.42			40%	<1.36			40%	<1.36			40%	<1.30		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	41%	<0.709			41%	<0.679			41%	<0.682			41%	<0.651		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	41%	<0.709			41%	<0.679			41%	<0.682			41%	<0.651		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	34%	<0.709			34%	<0.679			34%	<0.682			34%	<0.651		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	44%	<0.709			44%	<0.679			44%	<0.682			44%	<0.651		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	43%	<0.709			43%	<0.679			43%	<0.682			43%	<0.651		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	37%	<0.709			37%	<0.679			37%	<0.682			37%	<0.651		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	44%	<0.709			44%	<0.679			44%	<0.682			44%	<0.651		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	42%	<0.709			42%	<0.679			42%	<0.682			42%	<0.651		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	37%	<0.709			37%	<0.679			37%	<0.682			37%	<0.651		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	44%	<0.709			44%	<0.679			44%	<0.682			44%	<0.651		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	37%	<0.709			37%	<0.679			37%	<0.682			37%	<0.651		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	42%	<0.709			42%	<0.679			42%	<0.682			42%	<0.651		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	43%	<0.709			43%	<0.679			43%	<0.682			43%	<0.651		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	48%	<0.709			48%	<0.679			48%	<0.682			48%	<0.651		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	50%	<0.709			50%	<0.679			50%	<0.682			50%	<0.651		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	48%	<0.709			48%	<0.679			48%	<0.682			48%	<0.651		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	46%	<0.709			46%	<0.679			46%	<0.682			46%	<0.651		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	50%	<0.709			50%	<0.679			50%	<0.682			50%	<0.651		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	43%	<0.709			43%	<0.679			43%	<0.682			43%	<0.651		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	44%	<0.709			44%	<0.679			44%	<0.682			44%	<0.651		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	46%	<0.709			46%	<0.679			46%	<0.682			46%	<0.651		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	46%	<0.709			46%	<0.679			46%	<0.682			46%	<0.651		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	46%	<0.709			46%	<0.679			46%	<0.682			46%	<0.651		
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	40%	<0.709			40%	<0.679			40%	<0.682			40%	<0.651		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	49%	7.17	14.08	0.03945	49%	6.86	13.47	0.03775	49%	7.71	15.14	0.04243	49%	5.52	10.84	0.03037
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	47%	<0.709			47%	<0.679			47%	<0.682			47%	<0.651		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	49%	3.76	7.38	0.02069	49%	3.97	7.80	0.02185	49%	4.35	8.54	0.02394	49%	3.13	6.15	0.01722
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	43%	<0.709			43%	<0.679			43%	<0.682			43%	<0.651		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	43%	4.36	7.59	0.03621	43%	4.08	7.10	0.03388	43%	4.8	8.36	0.03986	43%	3.41	5.94	0.02832
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	49%	1.33	2.60	0.00745	49%	1.22	2.38	0.00684	49%	1.52	2.97	0.00852	49%	1.17	2.28	0.00656
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	42%	2.49	4.31	0.02108	42%	2.31	4.00	0.01955	42%	2.69	4.66	0.02277	42%	2.06	3.57	0.01744
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	30%	0.734	1.05	0.01383	30%	0.733	1.05	0.01382	30%	0.906	1.30	0.01708	30%	0.605	0.87	0.01140
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	57%	<0.709			57%	<0.679			57%	<0.682			57%	<0.651		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	57%	<0.709			57%	<0.679			57%	<0.682			57%	<0.651		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	59%	<0.709			59%	<0.679			59%	<0.682			59%	<0.651		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	52%	<0.709			52%	<0.679			52%	<0.682			52%	<0.651		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	57%	<0.709			57%	<0.679			57%	<0.682			57%	<0.651		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	55%	<0.709			55%	<0.679			55%	<0.682			55%	<0.651		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	59%	<0.709			59%	<0.679			59%	<0.682			59%	<0.651		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	52%	<2.13			52%	<2.04			52%	<2.05			52%	<1.95		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	59%	<0.709			59%	<0.679			59%	<0.682			59%	<0.651		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	59%	<1.42			59%	<1.36			59%	<1.36			59%	<1.30		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	57%	<1.42			57%	<1.36			57%	<1.36			57%	<1.30		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	55%	<0.709			55%	<0.679			55%	<0.682			55%	<0.651		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	59%	<0.709			59%	<0.679			59%	<0.682			59%	<0.651		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	53%	0.417	0.89	0.00181	53%	0.356	0.76	0.00155	53%	0.439	0.93	0.00191	53%	<0.651		
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	61%	<0.709			61%	<0.679			61%	<0.682			61%	<0.651		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	47%	<1.42			47%	<1.36			47%	<1.36			47%	<1.30		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	59%	<0.709			59%	<0.679			59%	<0.682			59%	<0.651		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	57%	<0.709			57%	<0.679			57%	<0.682			57%	<0.651		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW03-A				PPW03-B				PPW03-C				PPW03-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	64%	<0.709			64%	<0.679			64%	<0.682			64%	<0.651		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	64%	<0.709			64%	<0.679			64%	<0.682			64%	<0.651		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	66%	<0.709			66%	<0.679			66%	<0.682			66%	<0.651		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	68%	<0.709			68%	<0.679			68%	<0.682			68%	<0.651		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	64%	<0.709			64%	<0.679			64%	<0.682			64%	<0.651		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	60%	3.06	7.71	0.00862	60%	3.56	8.97	0.01003	60%	3.42	8.62	0.00964	60%	2.27	5.72	0.00640
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	64%	3.43	9.65	0.00769	64%	4.09	11.51	0.00917	64%	3.84	10.81	0.00861	64%	2.97	8.36	0.00666
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	58%	0.532	1.27	0.00169	58%	0.637	1.53	0.00202	58%	0.492	1.18	0.00156	58%	<0.651		
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	60%	1.12	2.80	0.00321	60%	1.27	3.18	0.00364	60%	1.53	3.83	0.00438	60%	1.04	2.60	0.00298
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	48%	0.678	1.30	0.00402	48%	0.771	1.48	0.00457	48%	0.759	1.46	0.00450	48%	0.497	0.95	0.00294
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	73%	<0.709			73%	<0.679			73%	<0.682			73%	<0.651		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	72%	<0.709			72%	<0.679			72%	<0.682			72%	<0.651		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.42			75%	<1.36			75%	<1.36			75%	<1.30		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	75%	<0.709			75%	<0.679			75%	<0.682			75%	<0.651		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	68%	1.31	4.06	0.00248	68%	1.36	4.21	0.00257	68%	1.29	4.00	0.00244	68%	1.02	3.16	0.00193
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	69%	<0.709			69%	<0.679			69%	<0.682			69%	<0.651		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	73%	<0.709			73%	0.568	2.08	0.00084	73%	<0.682			73%	<0.651		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	68%	<0.709			68%	<0.679			68%	<0.682			68%	<0.651		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	63%	<0.709			63%	<0.679			63%	<0.682			63%	<0.651		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	67%	<0.709			67%	<0.679			67%	<0.682			67%	<0.651		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	75%	0.563	2.29	0.00075	75%	0.654	2.66	0.00087	75%	0.587	2.39	0.00078	75%	0.329	1.34	0.00044
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	71%	0.54	1.84	0.00088	71%	0.696	2.37	0.00114	71%	0.645	2.20	0.00106	71%	0.454	1.55	0.00074
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	77%	<0.709			77%	<0.679			77%	<0.682			77%	<0.651		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	62%	2.26	5.92	0.00586	62%	2.42	6.33	0.00628	62%	2.31	6.05	0.00599	62%	1.64	4.29	0.00425
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	72%	<0.709			72%	<0.679			72%	<0.682			72%	<0.651		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.709			75%	<0.679			75%	<0.682			75%	<0.651		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	80%	<0.709			80%	<0.679			80%	<0.682			80%	<0.651		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	82%	<0.709			82%	<0.679			82%	<0.682			82%	<0.651		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	59%	<0.709			59%	<0.679			59%	<0.682			59%	<0.651		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	66%	<2.13			66%	<2.04			66%	<2.05			66%	<1.95		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	62%	<0.709			62%	<0.679			62%	<0.682			62%	<0.651		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	64%	<1.42			64%	<1.36			64%	<1.36			64%	<1.30		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	69%	<1.42			69%	<1.36			69%	<1.36			69%	<1.30		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	55%	<1.42			55%	<1.36			55%	<1.36			55%	<1.30		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	57%	2.46	5.77	0.00822	57%	2.82	6.61	0.00942	57%	2.7	6.33	0.00902	57%	1.99	4.67	0.00665
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	64%	0.587	1.62	0.00136	64%	0.692	1.92	0.00160	64%	0.648	1.79	0.00150	64%	0.456	1.26	0.00106
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	55%	<0.709			55%	<0.679			55%	<0.682			55%	<0.651		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	57%	<0.709			57%	<0.679			57%	<0.682			57%	<0.651		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	45%	<0.709			45%	<0.679			45%	<0.682			45%	<0.651		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	62%	<0.709			62%	<0.679			62%	<0.682			62%	<0.651		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	57%	<0.709			57%	<0.679			57%	<0.682			57%	<0.651		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	65%	2.33	6.67	0.00506	65%	2.57	7.35	0.00559	65%	2.54	7.27	0.00552	65%	1.64	4.69	0.00356
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	75%	0.795	3.23	0.00105	75%	0.74	3.01	0.00098	75%	0.638	2.59	0.00085	75%	0.387	1.57	0.00051
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	79%	<1.42			79%	0.9	4.37	0.00103	79%	<1.36			79%	<1.30		
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	80%	1.06	5.42	0.00117	80%	1.27	6.49	0.00140	80%	1.12	5.73	0.00124	80%	0.8	4.09	0.00088
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	71%	<0.709			71%	<0.679			71%	<0.682			71%	<0.651		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	71%	2.36	8.05	0.00386	71%	2.9	9.89	0.00474	71%	2.62	8.93	0.00429	71%	1.8	6.14	0.00294
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	79%	<0.709			79%	<0.679			79%	<0.682			79%	<0.651		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	70%	<0.709			70%	0.41	1.36	0.00070	70%	0.462	1.53	0.00079	70%	<0.651		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	72%	1.31	4.76	0.00197	72%	1.86	6.75	0.00280	72%	1.56	5.66	0.00235	72%	1.11	4.03	0.00167
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	60%	2.46	6.15	0.00705	60%	3.06	7.65	0.00877	60%	2.59	6.48	0.00742	60%	1.84	4.60	0.00527
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	78%	<0.709			78%	<0.679			78%	<0.682			78%	<0.651		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	78%	3.88	17.69	0.00464	78%	4.55	20.75	0.00544	78%	3.62	16.51	0.00433	78%	2.43	11.08	0.00290
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	73%	<0.709			73%	<0.679			73%	<0.682			73%	<0.651		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	78%	1.34	6.03	0.00162	78%	1.75	7.87	0.00211	78%	1.42	6.39	0.00172	78%	1.11	4.99	0.00134
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	69%	<0.709			69%	<0.679			69%	<0.682			69%	<0.651		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	72%	<1.42			72%	<1.36			72%	<1.36			72%	<1.30		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	73%	0.482	1.81	0.00070	73%	0.644	2.42	0.00093	73%	0.497	1.86	0.00072	73%	0.398	1.49	0.00058
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	61%	<0.709			61%	<0.679			61%	<0.682			61%	<0.651		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	80%	1.86	9.23	0.00209	80%	2.45	12.16	0.00276	80%	2.04	10.12	0.00230	80%	1.25	6.20	0.00141
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	73%	11.6	42.80	0.01713	73%	14.2	52.39	0.02096	73%	12.1	44.64	0.01786	73%	8.21	30.29	0.01212
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.709			75%	<0.679			75%	<0.682			75%	<0.651		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	63%	0.462	1.25	0.00112	63%	0.532	1.44	0.00129	63%	0.492	1.33	0.00120	63%	<0.651		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	72%	3.08	11.18	0.00464	72%	3.58	12.99	0.00539	72%	3.37	12.23	0.00508	72%	2.02	7.33	0.00304
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	60%	<0.709			60%	<0.679			60%	<0.682			60%	<0.651		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	81%	9.01	46.8	0.00986	81%	11.5	59.7	0.01259	81%	9.17	47.6	0.01004	81%	6.3	32.7	0.00690
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	76%	1.19	4.96	0.00154	76%	1.46	6.08	0.00189	76%	1.23	5.13	0.00159	76%	0.873	3.64	0.00113
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	66%	<0.709			66%	<0.679			66%	<0.682			66%	<0.651		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	88%	<0.709			88%	<0.679			88%	0.345	2.98	0.00034	88%	<0.651		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW03-A				PPW03-B				PPW03-C				PPW03-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	88%	<0.709			88%	<0.679			88%	<0.682			88%	<0.651		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	90%	<0.709			90%	<0.679			90%	<0.682			90%	<0.651		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	85%	<0.709			85%	<0.679			85%	<0.682			85%	<0.651		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	90%	<0.709			90%	<0.679			90%	<0.682			90%	<0.651		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	82%	1.43	7.91	0.00151	82%	1.55	8.57	0.00164	82%	1.39	7.69	0.00147	82%	0.898	4.97	0.00095
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	85%	<0.709			85%	<0.679			85%	<0.682			85%	<0.651		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	81%	<0.709			81%	<0.679			81%	<0.682			81%	<0.651		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	91%	<0.709			91%	<0.679			91%	<0.682			91%	<0.651		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	86%	<0.709			86%	<0.679			86%	<0.682			86%	<0.651		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	96%	<0.709			96%	<0.679			96%	<0.682			96%	<0.651		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	91%	2.68	30.1	0.00272	91%	3.68	41.3	0.00374	91%	3.21	36.0	0.00326	91%	1.88	21.1	0.00191
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	86%	1.36	9.97	0.00133	86%	1.66	12.17	0.00162	86%	1.37	10.04	0.00134	86%	0.834	6.11	0.00081
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	93%	0.612	8.58	0.00067	93%	0.862	12.09	0.00095	93%	0.764	10.71	0.00084	93%	0.435	6.10	0.00048
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	84%	<0.709			84%	<0.679			84%	<0.682			84%	<0.651		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	86%	3.77	27.63	0.00368	86%	4.78	35.04	0.00467	86%	3.85	28.22	0.00376	86%	2.6	19.06	0.00254
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	76%	1.04	4.33	0.00135	76%	1.39	5.79	0.00180	76%	0.96	4.00	0.00124	76%	0.691	2.88	0.00089
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	85%	2.65	18.24	0.00261	85%	3.68	25.33	0.00363	85%	2.84	19.55	0.00280	85%	1.9	13.08	0.00187
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	87%	1.15	9.02	0.00112	87%	1.51	11.84	0.00147	87%	1.3	10.19	0.00126	87%	0.864	6.77	0.00084
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	2.6	10.45	0.00349	75%	3.52	14.14	0.00472	75%	2.92	11.73	0.00392	75%	1.94	7.80	0.00260
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	94%	5.2	83	0.00606	94%	6.81	109	0.00794	94%	5.57	89	0.00649	94%	3.76	60	0.00438
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	86%	<0.709			86%	<0.679			86%	<0.682			86%	<0.651		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	89%	<1.42			89%	<1.36			89%	<1.36			89%	<1.30		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	89%	2.67	24.32	0.00261	89%	3.24	29.51	0.00316	89%	2.7	24.59	0.00264	89%	1.79	16.30	0.00175
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	79%	<0.709			79%	<0.679			79%	<0.682			79%	<0.651		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	86%	0.448	3.28	0.00044	86%	0.483	3.54	0.00047	86%	0.482	3.53	0.00047	86%	0.42	3.08	0.00041
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	74%	<0.709			74%	<0.679			74%	<0.682			74%	<0.651		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	88%	5.45	46	0.00529	88%	7.44	63	0.00722	88%	5.47	46	0.00531	88%	3.54	30	0.00344
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	78%	<0.709			78%	<0.679			78%	<0.682			78%	<0.651		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	104%	<0.709			99%	<0.679			99%	<0.682			99%	<0.651		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	97%	0.587	17.86	0.00102	97%	0.694	21.12	0.00121	97%	0.518	15.76	0.00090	97%	0.328	9.98	0.00057
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.709			99%	<0.679			99%	<0.682			99%	<0.651		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	98%	<0.709			98%	<0.679			99%	<0.682			98%	<0.651		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	98%	<0.709			98%	0.4	26.48	0.00131	99%	<0.682			98%	<0.651		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	107%	1.09	-16.09	-0.00040	99%	1.61	161.00	0.00404	99%	1.36	136.00	0.00342	99%	0.716	71.60	0.00180
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	100%	0.693	212.00	0.00951	99%	0.857	85.70	0.00385	99%	0.712	71.20	0.00320	100%	0.41	125.43	0.00563
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	102%	1.04	-44.52	-0.00161	99%	1.33	133.00	0.00480	99%	0.918	91.80	0.00331	99%	0.595	59.50	0.00215
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	92%	<0.709			92%	<0.679			92%	<0.682			92%	<0.651		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	101%	<0.709			99%	<0.679			99%	<0.682			99%	<0.651		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	101%	<0.709			99%	0.394	39.40	0.00153	99%	<0.682			99%	<0.651		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	91%	1.61	18.1	0.00164	91%	2.05	23.0	0.00208	91%	1.76	19.8	0.00179	91%	1.03	11.6	0.00105
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	90%	0.55	5.61	0.00055	90%	0.646	6.59	0.00064	90%	0.608	6.21	0.00060	90%	<0.651		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	102%	0.77	-32.96	-0.00119	99%	0.927	92.70	0.00335	99%	0.77	77.00	0.00278	99%	0.433	43.30	0.00156
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	91%	<1.42			91%	0.758	7.98	0.00076	91%	<1.36			91%	<1.30		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.709			99%	<0.679			99%	<0.682			99%	<0.651		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.709			99%	0.551	55.10	0.00069	99%	<0.682			99%	<0.651		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	105%	<0.709			99%	<0.679			99%	<0.682			99%	<0.651		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	104%	<0.709			99%	<0.679			99%	<0.682			99%	<0.651		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.709			99%	<0.679			99%	<0.682			99%	<0.651		

Kow = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
µg/g = microgram per gram
µg/L = microgram per liter

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW04-A				PPW04-B				PPW04-C				PPW04-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2-Chlorobiphenyl	2051-60-7	4.46	4.093	8%	<0.694			8%	<0.662			8%	<0.741			8%	<0.690		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	15%	<0.694			15%	<0.662			15%	<0.741			15%	<0.690		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	15%	<0.694			15%	<0.662			15%	<0.741			15%	<0.690		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	32%	<0.694			32%	<0.662			32%	<0.741			32%	<0.690		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	30%	<0.694			30%	<0.662			30%	<0.741			30%	<0.690		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	33%	<0.694			33%	<0.662			33%	<0.741			33%	<0.690		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	32%	<0.694			32%	<0.662			32%	<0.741			32%	<0.690		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	33%	<0.694			33%	<0.662			33%	<0.741			33%	<0.690		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	16%	<1.39			16%	<1.32			16%	<1.48			16%	<1.38		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	23%	<0.694			23%	<0.662			23%	<0.741			23%	<0.690		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	26%	<0.694			26%	<0.662			26%	<0.741			26%	<0.690		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	26%	<0.694			26%	<0.662			26%	<0.741			26%	<0.690		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	26%	<0.694			26%	<0.662			26%	<0.741			26%	<0.690		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	26%	<0.694			26%	<0.662			26%	<0.741			26%	<0.690		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	29%	<0.694			29%	<0.662			29%	<0.741			29%	<0.690		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	31%	<0.694			31%	<0.662			31%	<0.741			31%	<0.690		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	31%	<0.694			31%	<0.662			31%	<0.741			31%	<0.690		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	25%	<0.694			25%	<0.662			25%	<0.741			25%	<0.690		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	40%	<1.39			40%	<1.32			40%	<1.48			40%	<1.38		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	41%	<0.694			41%	<0.662			41%	<0.741			41%	<0.690		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	41%	<0.694			41%	<0.662			41%	<0.741			41%	<0.690		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	34%	<0.694			34%	<0.662			34%	<0.741			34%	<0.690		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	44%	<0.694			44%	<0.662			44%	<0.741			44%	<0.690		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	43%	<0.694			43%	<0.662			43%	<0.741			43%	<0.690		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	37%	<0.694			37%	<0.662			37%	<0.741			37%	<0.690		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	44%	<0.694			44%	<0.662			44%	<0.741			44%	<0.690		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	42%	<0.694			42%	<0.662			42%	<0.741			42%	<0.690		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	37%	<0.694			37%	<0.662			37%	<0.741			37%	<0.690		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	44%	<0.694			44%	<0.662			44%	<0.741			44%	<0.690		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	37%	<0.694			37%	<0.662			37%	<0.741			37%	<0.690		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	42%	<0.694			42%	<0.662			42%	<0.741			42%	<0.690		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	43%	<0.694			43%	<0.662			43%	<0.741			43%	<0.690		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	48%	<0.694			48%	<0.662			48%	<0.741			48%	<0.690		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	50%	<0.694			50%	<0.662			50%	<0.741			50%	<0.690		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	48%	<0.694			48%	<0.662			48%	<0.741			48%	<0.690		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	46%	<0.694			46%	<0.662			46%	<0.741			46%	<0.690		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	50%	<0.694			50%	<0.662			50%	<0.741			50%	<0.690		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	43%	<0.694			43%	<0.662			43%	<0.741			43%	<0.690		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	44%	<0.694			44%	<0.662			44%	<0.741			44%	<0.690		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	46%	<0.694			46%	<0.662			46%	<0.741			46%	<0.690		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	46%	<0.694			46%	<0.662			46%	<0.741			46%	<0.690		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	46%	<0.694			46%	<0.662			46%	<0.741			46%	<0.690		
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	40%	<0.694			40%	<0.662			40%	<0.741			40%	<0.690		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	49%	0.726	1.43	0.00399	49%	0.697	1.37	0.00384	49%	0.836	1.64	0.00460	49%	0.614	1.21	0.00338
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	47%	<0.694			47%	<0.662			47%	<0.741			47%	<0.690		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	49%	0.468	0.92	0.00258	49%	<0.662			49%	0.428	0.84	0.00236	49%	0.396	0.78	0.00218
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	43%	<0.694			43%	<0.662			43%	<0.741			43%	<0.690		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	43%	<0.694			43%	0.336	0.59	0.00279	43%	0.381	0.66	0.00316	43%	<0.690		
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	49%	<0.694			49%	<0.662			49%	<0.741			49%	<0.690		
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	42%	<0.694			42%	<0.662			42%	<0.741			42%	<0.690		
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	30%	<0.694			30%	<0.662			30%	<0.741			30%	<0.690		
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	57%	<0.694			57%	<0.662			57%	<0.741			57%	<0.690		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	57%	<0.694			57%	<0.662			57%	<0.741			57%	<0.690		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	59%	<0.694			59%	<0.662			59%	<0.741			59%	<0.690		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	52%	<0.694			52%	<0.662			52%	<0.741			52%	<0.690		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	57%	<0.694			57%	<0.662			57%	<0.741			57%	<0.690		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	55%	<0.694			55%	<0.662			55%	<0.741			55%	<0.690		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	59%	<0.694			59%	<0.662			59%	<0.741			59%	<0.690		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	52%	<2.08			52%	<1.98			52%	<2.22			52%	<2.07		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	59%	<0.694			59%	<0.662			59%	<0.741			59%	<0.690		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	59%	<1.39			59%	<1.32			59%	<1.48			59%	<1.38		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	57%	<1.39			57%	<1.32			57%	<1.48			57%	<1.38		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	55%	<0.694			55%	<0.662			55%	<0.741			55%	<0.690		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	59%	<0.694			59%	<0.662			59%	<0.741			59%	<0.690		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	53%	<0.694			53%	<0.662			53%	<0.741			53%	<0.690		
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	61%	<0.694			61%	<0.662			61%	<0.741			61%	<0.690		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	47%	<1.39			47%	<1.32			47%	<1.48			47%	<1.38		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	59%	<0.694			59%	<0.662			59%	<0.741			59%	<0.690		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	57%	<0.694			57%	<0.662			57%	<0.741			57%	<0.690		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW04-A				PPW04-B				PPW04-C				PPW04-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	64%	<0.694			64%	<0.662			64%	<0.741			64%	<0.690		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	64%	<0.694			64%	<0.662			64%	<0.741			64%	<0.690		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	66%	<0.694			66%	<0.662			66%	<0.741			66%	<0.690		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	68%	<0.694			68%	<0.662			68%	<0.741			68%	<0.690		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	64%	<0.694			64%	<0.662			64%	<0.741			64%	<0.690		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	60%	0.531	1.34	0.00150	60%	0.549	1.38	0.00155	60%	0.59	1.49	0.00166	60%	0.609	1.53	0.00172
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	64%	0.753	2.12	0.00169	64%	<1.32			64%	<1.48			64%	<1.38		
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	58%	<0.694			58%	<0.662			58%	<0.741			58%	<0.690		
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	60%	<0.694			60%	<0.662			60%	<0.741			60%	<0.690		
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	48%	<0.694			48%	<0.662			48%	<0.741			48%	<0.690		
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	73%	<0.694			73%	<0.662			73%	<0.741			73%	<0.690		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	72%	<0.694			72%	<0.662			72%	<0.741			72%	<0.690		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.39			75%	<1.32			75%	<1.48			75%	<1.38		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	75%	<0.694			75%	<0.662			75%	<0.741			75%	<0.690		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	68%	<0.694			68%	<0.662			68%	0.404	1.25	0.00076	68%	<0.690		
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	69%	<0.694			69%	<0.662			69%	<0.741			69%	<0.690		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	73%	<0.694			73%	<0.662			73%	<0.741			73%	<0.690		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	68%	<0.694			68%	<0.662			68%	<0.741			68%	<0.690		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	63%	<0.694			63%	<0.662			63%	<0.741			63%	<0.690		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	67%	<0.694			67%	<0.662			67%	<0.741			67%	<0.690		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	75%	<0.694			75%	<0.662			75%	<0.741			75%	<0.690		
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	71%	<0.694			71%	<0.662			71%	<0.741			71%	<0.690		
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	77%	<0.694			77%	<0.662			77%	<0.741			77%	<0.690		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	62%	<2.08			62%	<1.98			62%	<2.22			62%	<2.07		
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	72%	<0.694			72%	<0.662			72%	<0.741			72%	<0.690		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.694			75%	<0.662			75%	<0.741			75%	<0.690		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	80%	<0.694			80%	<0.662			80%	<0.741			80%	<0.690		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	82%	<0.694			82%	<0.662			82%	<0.741			82%	<0.690		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	59%	<0.694			59%	<0.662			59%	<0.741			59%	<0.690		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	66%	<2.08			66%	<1.98			66%	<2.22			66%	<2.07		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	62%	<0.694			62%	<0.662			62%	<0.741			62%	<0.690		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	64%	<1.39			64%	<1.32			64%	<1.48			64%	<1.38		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	69%	<1.39			69%	<1.32			69%	<1.48			69%	<1.38		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	55%	<1.39			55%	<1.32			55%	<1.48			55%	<1.38		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	57%	<0.694			57%	<0.662			57%	0.476	1.12	0.00159	57%	<0.690		
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	64%	<0.694			64%	<0.662			64%	<0.741			64%	<0.690		
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	55%	<0.694			55%	<0.662			55%	<0.741			55%	<0.690		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	57%	<0.694			57%	<0.662			57%	<0.741			57%	<0.690		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	45%	<0.694			45%	<0.662			45%	<0.741			45%	<0.690		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	62%	<0.694			62%	<0.662			62%	<0.741			62%	<0.690		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	57%	<0.694			57%	<0.662			57%	<0.741			57%	<0.690		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	65%	<0.694			65%	0.349	1.00	0.00076	65%	0.499	1.43	0.00108	65%	0.369	1.06	0.00080
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	75%	<0.694			75%	<0.662			75%	<0.741			75%	<0.690		
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	79%	<1.39			79%	<1.32			79%	<1.48			79%	<1.38		
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	80%	<1.39			80%	<1.32			80%	<1.48			80%	<1.38		
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	71%	<0.694			71%	<0.662			71%	<0.741			71%	<0.690		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	71%	0.373	1.27	0.00061	71%	0.417	1.42	0.00068	71%	0.587	2.00	0.00096	71%	0.552	1.88	0.00090
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	79%	<0.694			79%	<0.662			79%	<0.741			79%	<0.690		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	70%	<0.694			70%	<0.662			70%	<0.741			70%	<0.690		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	72%	<0.694			72%	<0.662			72%	0.446	1.62	0.00067	72%	<0.690		
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	60%	0.406	1.02	0.00116	60%	0.539	1.35	0.00154	60%	0.529	1.32	0.00152	60%	0.547	1.37	0.00157
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	78%	<0.694			78%	<0.662			78%	<0.741			78%	<0.690		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	78%	0.58	2.65	0.00069	78%	0.738	3.37	0.00088	78%	0.942	4.30	0.00113	78%	0.918	4.19	0.00110
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	73%	<0.694			73%	<0.662			73%	<0.741			73%	<0.690		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	78%	<0.694			78%	<0.662			78%	0.437	1.97	0.00053	78%	0.542	2.44	0.00065
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	69%	<0.694			69%	<0.662			69%	<0.741			69%	<0.690		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	72%	<1.39			72%	<1.32			72%	<1.48			72%	<1.38		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	73%	<0.694			73%	<0.662			73%	<0.741			73%	<0.690		
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	61%	<0.694			61%	<0.662			61%	<0.741			61%	<0.690		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	80%	<0.694			80%	0.359	1.78	0.00040	80%	0.526	2.61	0.00059	80%	0.498	2.47	0.00056
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	73%	1.55	5.72	0.00229	73%	2.09	7.71	0.00309	73%	2.28	8.41	0.00337	73%	2.24	8.26	0.00331
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.694			75%	<0.662			75%	<0.741			75%	<0.690		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	63%	<0.694			63%	<0.662			63%	<0.741			63%	<0.690		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	72%	0.42	1.52	0.00063	72%	0.488	1.77	0.00074	72%	0.72	2.61	0.00108	72%	0.555	2.01	0.00084
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	60%	<0.694			60%	<0.662			60%	<0.741			60%	<0.690		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	81%	1.68	8.7	0.00184	81%	1.81	9.4	0.00198	81%	2.17	11.3	0.00238	81%	2.37	12.3	0.00259
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	76%	<0.694			76%	<0.662			76%	<0.741			76%	<0.690		
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	66%	<0.694			66%	<0.662			66%	<0.741			66%	<0.690		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	88%	<0.694			88%	<0.662			88%	<0.741			99%	<0.690		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW04-A				PPW04-B				PPW04-C				PPW04-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	88%	<0.694			88%	<0.662			88%	<0.741			99%	<0.690		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	90%	<0.694			90%	<0.662			90%	<0.741			99%	<0.690		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	85%	<0.694			85%	<0.662			85%	<0.741			85%	<0.690		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	90%	<0.694			90%	<0.662			90%	<0.741			99%	<0.690		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	82%	<1.39			82%	<1.32			82%	<1.48			82%	<1.38		
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	85%	<0.694			85%	<0.662			85%	<0.741			85%	<0.690		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	81%	<0.694			81%	<0.662			81%	<0.741			81%	<0.690		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	99%	<0.694			91%	<0.662			91%	<0.741			99%	<0.690		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	86%	<0.694			86%	<0.662			86%	<0.741			86%	<0.690		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	99%	<0.694			96%	<0.662			96%	<0.741			99%	<0.690		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	99%	0.698	69.8	0.00631	91%	0.746	8.4	0.00076	91%	0.824	9.3	0.00084	99%	1.37	137.0	0.01239
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	86%	<0.694			86%	<0.662			86%	<0.741			86%	0.574	4.21	0.00056
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	99%	<0.694			93%	<0.662			93%	<0.741			99%	0.508	50.80	0.00398
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	84%	<0.694			84%	<0.662			84%	<0.741			84%	<0.690		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	86%	0.813	5.96	0.00079	86%	0.938	6.88	0.00092	86%	0.889	6.52	0.00087	86%	1.38	10.12	0.00135
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	76%	<0.694			76%	<0.662			76%	<0.741			76%	<0.690		
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	85%	0.588	4.05	0.00058	85%	0.638	4.39	0.00063	85%	0.585	4.03	0.00058	85%	1.19	8.19	0.00117
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	87%	<0.694			87%	<0.662			87%	<0.741			99%	0.4	40.00	0.00496
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	0.462	1.86	0.00062	75%	0.582	2.34	0.00078	75%	0.655	2.63	0.00088	75%	0.839	3.37	0.00113
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	99%	0.989	99	0.00720	94%	1.23	20	0.00143	94%	1.26	20	0.00147	99%	2.25	225	0.01638
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	86%	<0.694			86%	<0.662			86%	<0.741			86%	<0.690		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	89%	<1.39			89%	<1.32			89%	<1.48			99%	<1.38		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	89%	0.504	4.59	0.00049	89%	0.683	6.22	0.00067	89%	0.837	7.62	0.00082	99%	1.05	105.00	0.01125
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	79%	<0.694			79%	<0.662			79%	<0.741			79%	<0.690		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	86%	<0.694			86%	<0.662			86%	<0.741			86%	<0.690		
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	74%	<0.694			74%	<0.662			74%	<0.741			74%	<0.690		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	88%	0.916	8	0.00089	88%	1.29	11	0.00125	88%	1.32	11	0.00128	99%	1.83	183	0.02108
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	78%	<0.694			78%	<0.662			78%	<0.741			78%	<0.690		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	99%	<0.694			104%	<0.662			99%	<0.741			99%	0.456	45.60	0.00142
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	99%	<0.694			97%	<0.662			97%	<0.741			99%	0.494	49.40	0.00282
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.694			99%	<0.662			99%	<0.741			99%	<0.690		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	99%	<0.694			98%	<0.662			98%	<0.741			99%	<0.690		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	99%	<0.694			98%	<0.662			98%	<0.741			99%	<0.690		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	99%	0.408	40.80	0.00102	107%	0.398	-5.87	-0.00015	99%	0.514	51.40	0.00129	99%	0.838	83.80	0.00210
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	99%	<0.694			100%	<0.662			99%	<0.741			99%	0.469	46.90	0.00210
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	99%	<0.694			102%	<0.662			99%	0.476	47.60	0.00172	99%	0.538	53.80	0.00194
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	99%	<0.694			92%	<0.662			92%	<0.741			99%	<0.690		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	99%	<0.694			101%	<0.662			99%	<0.741			99%	<0.690		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	99%	<0.694			101%	<0.662			99%	<0.741			99%	<0.690		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	99%	<0.694			91%	0.43	4.8	0.00044	91%	0.486	5.5	0.00049	99%	0.844	84.4	0.00764
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	90%	<0.694			90%	<0.662			90%	<0.741			99%	<0.690		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	99%	<0.694			102%	<0.662			99%	<0.741			99%	0.542	54.20	0.00196
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	91%	<1.39			91%	<1.32			91%	<1.48			99%	<1.38		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.694			113%	<0.662			99%	<0.741			99%	<0.690		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.694			115%	<0.662			99%	<0.741			99%	<0.690		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	99%	<0.694			105%	<0.662			99%	<0.741			99%	<0.690		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	99%	<0.694			104%	<0.662			99%	<0.741			99%	<0.690		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.694			118%	<0.662			99%	<0.741			99%	<0.690		

Kow = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
µg/g = microgram per gram
µg/L = microgram per liter

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW05-A				PPW05-B				PPW05-C				PPW05-D			
Congener	**CAS**	**Log Kow**	**Log KPE-D***	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**	**% Retained**	**µg/g**	**µg/g corrected**	**µg/L**
2-Chlorobiphenyl	2051-60-7	4.46	4.093	8%	<0.640			0%	<0.652			8%	<0.654			8%	<0.715		
3-Chlorobiphenyl	2051-61-8	4.69	4.3345	15%	<0.640			0%	<0.652			15%	<0.654			15%	<0.715		
4-Chlorobiphenyl	2051-62-9	4.69	4.3345	15%	<0.640			0%	<0.652			15%	<0.654			15%	<0.715		
3,3'-Dichlorobiphenyl	2050-67-1	5.28	4.954	32%	<0.640			32%	<0.652			32%	<0.654			32%	<0.715		
3,4-Dichlorobiphenyl	2974-92-7	5.22	4.891	30%	<0.640			30%	<0.652			30%	<0.654			30%	<0.715		
3,4'-Dichlorobiphenyl	2974-90-5	5.29	4.9645	33%	<0.640			33%	<0.652			33%	<0.654			33%	<0.715		
3,5-Dichlorobiphenyl	34883-41-5	5.28	4.954	32%	<0.640			32%	<0.652			32%	<0.654			32%	<0.715		
4,4'-Dichlorobiphenyl	2050-68-2	5.3	4.975	33%	<0.640			33%	<0.652			33%	<0.654			33%	<0.715		
2,2'-Dichlorobiphenyl	13029-08-8	4.745	4.39225	16%	<1.28			16%	<1.30			16%	<1.31			16%	<1.43		
2,3-Dichlorobiphenyl	16605-91-7	4.97	4.6285	23%	<0.640			23%	<0.652			23%	<0.654			23%	<0.715		
2,3'-Dichlorobiphenyl	25569-80-6	5.06	4.723	26%	<0.640			26%	<0.652			26%	<0.654			26%	<0.715		
2,4-Dichlorobiphenyl	33284-50-3	5.07	4.7335	26%	<0.640			26%	<0.652			26%	<0.654			26%	<0.715		
2,4'-Dichlorobiphenyl	34883-43-7	5.07	4.7335	26%	<0.640			26%	<0.652			26%	<0.654			26%	<0.715		
2,5-Dichlorobiphenyl	34883-39-1	5.06	4.723	26%	<0.640			26%	<0.652			26%	<0.654			26%	<0.715		
2,2',3-Trichlorobiphenyl	38444-78-9	5.16	4.828	29%	<0.640			29%	<0.652			29%	<0.654			29%	<0.715		
2,2',4-Trichlorobiphenyl	37680-66-3	5.25	4.9225	31%	<0.640			31%	<0.652			31%	<0.654			31%	<0.715		
2,2',5-Trichlorobiphenyl	37680-65-2	5.24	4.912	31%	<0.640			31%	<0.652			31%	<0.654			31%	<0.715		
2,2',6-Trichlorobiphenyl	38444-73-4	5.02	4.681	25%	<0.640			25%	<0.652			25%	<0.654			25%	<0.715		
2,3,3'-Trichlorobiphenyl	38444-84-7	5.54	5.227	40%	<1.28			40%	<1.30			40%	<1.31			40%	<1.43		
2,3,4'-Trichlorobiphenyl	38444-85-8	5.58	5.269	41%	<0.640			41%	<0.652			41%	<0.654			41%	<0.715		
2,3,5-Trichlorobiphenyl	55720-44-0	5.57	5.2585	41%	<0.640			41%	<0.652			41%	<0.654			41%	<0.715		
2,3,6-Trichlorobiphenyl	55702-45-9	5.35	5.0275	34%	<0.640			34%	<0.652			34%	<0.654			34%	<0.715		
2,3',4-Trichlorobiphenyl	55712-37-3	5.67	5.3635	44%	<0.640			44%	<0.652			44%	<0.654			44%	<0.715		
2,3',5-Trichlorobiphenyl	38444-81-4	5.66	5.353	43%	<0.640			43%	<0.652			43%	<0.654			43%	<0.715		
2,3',6-Trichlorobiphenyl	38444-76-7	5.44	5.122	37%	<0.640			37%	<0.652			37%	<0.654			37%	<0.715		
2,4,4'-Trichlorobiphenyl	7012-37-5	5.67	5.3635	44%	<0.640			44%	<0.652			44%	<0.654			44%	<0.715		
2,4,5-Trichlorobiphenyl	15862-07-4	5.6	5.29	42%	<0.640			42%	<0.652			42%	<0.654			42%	<0.715		
2,4,6-Trichlorobiphenyl	35693-92-6	5.44	5.122	37%	<0.640			37%	<0.652			37%	<0.654			37%	<0.715		
2,4',5,-Trichlorobiphenyl	16606-02-3	5.67	5.3635	44%	<0.640			44%	<0.652			44%	<0.654			44%	<0.715		
2,4',6-Trichlorobiphenyl	38444-77-8	5.44	5.122	37%	<0.640			37%	<0.652			37%	<0.654			37%	<0.715		
2,3',4'-Trichlorobiphenyl	38444-86-9	5.6	5.29	42%	<0.640			42%	<0.652			42%	<0.654			42%	<0.715		
2,3',5'-Trichlorobiphenyl	37680-68-5	5.66	5.353	43%	<0.640			43%	<0.652			43%	<0.654			43%	<0.715		
3,3',4-Trichlorobiphenyl	37680-69-6	5.82	5.521	48%	<0.640			48%	<0.652			48%	<0.654			48%	<0.715		
3,3',5-Trichlorobiphenyl	38444-87-0	5.88	5.584	50%	<0.640			50%	<0.652			50%	<0.654			50%	<0.715		
3,4,4'-Trichlorobiphenyl	38444-90-5	5.83	5.5315	48%	<0.640			48%	<0.652			48%	<0.654			48%	<0.715		
3,4,5-Trichlorobiphenyl	53555-66-1	5.76	5.458	46%	<0.640			46%	<0.652			46%	<0.654			46%	<0.715		
3,4',5-Trichlorobiphenyl	38444-88-1	5.89	5.5945	50%	<0.640			50%	<0.652			50%	<0.654			50%	<0.715		
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	5.66	5.353	43%	<0.640			43%	<0.652			43%	<0.654			43%	<0.715		
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	5.69	5.3845	44%	<0.640			44%	<0.652			44%	<0.654			44%	<0.715		
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	5.76	5.458	46%	<0.640			46%	<0.652			46%	<0.654			46%	<0.715		
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	5.75	5.4475	46%	<0.640			46%	<0.652			46%	<0.654			46%	<0.715		
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	5.75	5.4475	46%	<0.640			46%	<0.652			46%	<0.654			46%	<0.715		
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	5.53	5.2165	40%	<0.640			40%	<0.652			40%	<0.654			40%	<0.715		
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	5.85	5.5525	49%	0.966	1.90	0.00532	49%	0.7	1.37	0.00385	49%	0.908	1.78	0.00500	49%	0.969	1.90	0.00533
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	5.78	5.479	47%	<0.640			47%	<0.652			47%	<0.654			47%	<0.715		
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	5.85	5.5525	49%	0.526	1.03	0.00289	49%	0.369	0.72	0.00203	49%	0.459	0.90	0.00253	49%	0.499	0.98	0.00275
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	5.63	5.3215	43%	<0.640			43%	<0.652			43%	<0.654			43%	<0.715		
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	5.63	5.3215	43%	0.558	0.97	0.00463	43%	0.362	0.63	0.00301	43%	0.565	0.98	0.00469	43%	0.515	0.90	0.00428
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	5.84	5.542	49%	<0.640			49%	<0.652			49%	<0.654			49%	<0.715		
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	5.62	5.311	42%	0.393	0.68	0.00333	42%	<0.652			42%	0.368	0.64	0.00311	42%	<0.715		
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	5.21	4.8805	30%	<0.640			30%	<0.652			30%	<0.654			30%	<0.715		
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	6.11	5.8255	57%	<0.640			57%	<0.652			57%	<0.654			57%	<0.715		
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	6.11	5.8255	57%	<0.640			57%	<0.652			57%	<0.654			57%	<0.715		
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	6.17	5.8885	59%	<0.640			59%	<0.652			59%	<0.654			59%	<0.715		
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	5.95	5.6575	52%	<0.640			52%	<0.652			52%	<0.654			52%	<0.715		
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	6.11	5.8255	57%	<0.640			57%	<0.652			57%	<0.654			57%	<0.715		
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	6.04	5.752	55%	<0.640			55%	<0.652			55%	<0.654			55%	<0.715		
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	6.17	5.8885	59%	<0.640			59%	<0.652			59%	<0.654			59%	<0.715		
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	5.933	5.64	52%	<1.92			52%	<1.96			52%	<1.96			52%	<2.14		
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	6.2	5.92	59%	<0.640			59%	<0.652			59%	<0.654			59%	<0.715		
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	6.185	5.90425	59%	<1.28			59%	<1.30			59%	<1.31			59%	<1.43		
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	6.105	5.82025	57%	<1.28			57%	<1.30			57%	<1.31			57%	<1.43		
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	6.04	5.752	55%	<0.640			55%	<0.652			55%	<0.654			55%	<0.715		
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	6.2	5.92	59%	<0.640			59%	<0.652			59%	<0.654			59%	<0.715		
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	5.98	5.689	53%	<0.640			53%	<0.652			53%	<0.654			53%	<0.715		
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	6.26	5.983	61%	<0.640			61%	<0.652			61%	<0.654			61%	<0.715		
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	5.785	5.48425	47%	<1.28			47%	<1.30			47%	<1.31			47%	<1.43		
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	6.2	5.92	59%	<0.640			59%	<0.652			59%	<0.654			59%	<0.715		
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	6.13	5.8465	57%	<0.640			57%	<0.652			57%	<0.654			57%	<0.715		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW05-A				PPW05-B				PPW05-C				PPW05-D			
Congener	CAS	Log Kow	Log KPE-D*	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	6.36	6.088	64%	<0.640			64%	<0.652			64%	<0.654			64%	<0.715		
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	6.35	6.0775	64%	<0.640			64%	<0.652			64%	<0.654			64%	<0.715		
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	6.42	6.151	66%	<0.640			66%	<0.652			66%	<0.654			66%	<0.715		
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	6.48	6.214	68%	<0.640			68%	<0.652			68%	<0.654			68%	<0.715		
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	6.36	6.088	64%	<0.640			64%	<0.652			64%	<0.654			64%	<0.715		
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	6.23	5.9515	60%	0.59	1.49	0.00166	60%	0.528	1.33	0.00149	60%	0.544	1.37	0.00153	60%	0.645	1.63	0.00182
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	6.37	6.0985	64%	0.847	2.38	0.00190	64%	<1.30			64%	0.846	2.38	0.00190	64%	0.719	2.02	0.00161
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	6.16	5.878	58%	<0.640			58%	<0.652			58%	<0.654			58%	<0.715		
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	6.22	5.941	60%	<0.640			60%	<0.652			60%	<0.654			60%	<0.715		
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	5.81	5.5105	48%	<0.640			48%	<0.652			48%	<0.654			48%	<0.715		
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	6.65	6.3925	73%	<0.640			73%	<0.652			73%	<0.654			73%	<0.715		
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	6.64	6.382	72%	<0.640			72%	<0.652			72%	<0.654			72%	<0.715		
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	6.725	6.47125	75%	<1.28			75%	<1.30			75%	<1.31			75%	<1.43		
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	6.71	6.4555	75%	<0.640			75%	<0.652			75%	<0.654			75%	<0.715		
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	6.48	6.214	68%	<0.640			68%	<0.652			68%	<0.654			68%	<0.715		
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	6.54	6.277	69%	<0.640			69%	<0.652			69%	<0.654			69%	<0.715		
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	6.65	6.3925	73%	<0.640			73%	<0.652			73%	<0.654			73%	<0.715		
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	6.49	6.2245	68%	<0.640			68%	<0.652			68%	<0.654			68%	<0.715		
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	6.33	6.0565	63%	<0.640			63%	<0.652			63%	<0.654			63%	<0.715		
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	6.46	6.193	67%	<0.640			67%	<0.652			67%	<0.654			67%	<0.715		
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	6.74	6.487	75%	<0.640			75%	<0.652			75%	<0.654			75%	<0.715		
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	6.58	6.319	71%	<0.640			71%	<0.652			71%	<0.654			71%	<0.715		
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	6.79	6.5395	77%	<0.640			77%	<0.652			77%	<0.654			77%	<0.715		
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	6.28	6.004	62%	<1.92			62%	<1.96			62%	<1.96			62%	<2.14		
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	6.64	6.382	72%	<0.640			72%	<0.652			72%	<0.654			72%	<0.715		
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	6.73	6.4765	75%	<0.640			75%	<0.652			75%	<0.654			75%	<0.715		
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	6.89	6.6445	80%	<0.640			80%	<0.652			80%	<0.654			80%	<0.715		
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	6.95	6.7075	82%	<0.640			82%	<0.652			82%	<0.654			82%	<0.715		
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	6.2	5.92	59%	<0.640			59%	<0.652			59%	<0.654			59%	<0.715		
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	6.407	6.137	66%	<1.92			66%	<1.96			66%	<1.96			66%	<2.14		
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	6.3	6.025	62%	<0.640			62%	<0.652			62%	<0.654			62%	<0.715		
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	6.355	6.08275	64%	<1.28			64%	<1.30			64%	<1.31			64%	<1.43		
2,2',3,4,5'-Pentachlorobiphenyl	38380–02-	6.525	6.26125	69%	<1.28			69%	<1.30			69%	<1.31			69%	<1.43		
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	6.055	5.76775	55%	<1.28			55%	<1.30			55%	<1.31			55%	<1.43		
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	6.13	5.8465	57%	0.468	1.10	0.00156	57%	0.398	0.93	0.00133	57%	0.412	0.97	0.00138	57%	0.409	0.96	0.00137
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	6.35	6.0775	64%	<0.640			64%	<0.652			64%	<0.654			64%	<0.715		
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	6.04	5.752	55%	<0.640			55%	<0.652			55%	<0.654			55%	<0.715		
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	6.13	5.8465	57%	<0.640			57%	<0.652			57%	<0.654			57%	<0.715		
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	5.71	5.4055	45%	<0.640			45%	<0.652			45%	<0.654			45%	<0.715		
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	6.29	6.0145	62%	<0.640			62%	<0.652			62%	<0.654			62%	<0.715		
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	6.13	5.8465	57%	<0.640			57%	<0.652			57%	<0.654			57%	<0.715		
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	6.39	6.1195	65%	0.441	1.26	0.00096	65%	0.386	1.10	0.00084	65%	0.616	1.76	0.00134	65%	0.563	1.61	0.00122
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	6.74	6.487	75%	<0.640			75%	<0.652			75%	<0.654			75%	<0.715		
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	6.875	6.62875	79%	<1.28			79%	<1.30			79%	<1.31			79%	<1.43		
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	6.91	6.6655	80%	<1.28			80%	<1.30			80%	<1.31			80%	<1.43		
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	6.58	6.319	71%	<0.640			71%	<0.652			71%	<0.654			71%	<0.715		
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	6.58	6.319	71%	0.664	2.26	0.00109	71%	0.451	1.54	0.00074	71%	0.578	1.97	0.00095	71%	0.576	1.96	0.00094
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	6.86	6.613	79%	<0.640			79%	<0.652			79%	<0.654			79%	<0.715		
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	6.55	6.2875	70%	<0.640			70%	<0.652			70%	<0.654			70%	<0.715		
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	6.64	6.382	72%	0.347	1.26	0.00052	72%	<0.652			72%	<0.654			72%	<0.715		
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	6.22	5.941	60%	0.601	1.50	0.00172	60%	0.492	1.23	0.00141	60%	0.589	1.47	0.00169	60%	0.598	1.50	0.00171
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	6.83	6.5815	78%	<0.640			78%	<0.652			78%	<0.654			78%	<0.715		
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	6.83	6.5815	78%	0.822	3.75	0.00098	78%	0.644	2.94	0.00077	78%	0.807	3.68	0.00096	78%	0.748	3.41	0.00089
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	6.67	6.4135	73%	<0.640			73%	<0.652			73%	<0.654			73%	<0.715		
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	6.82	6.571	78%	0.362	1.63	0.00044	78%	<0.652			78%	0.343	1.54	0.00041	78%	<0.715		
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	6.51	6.2455	69%	<0.640			69%	<0.652			69%	<0.654			69%	<0.715		
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	6.635	6.37675	72%	<1.28			72%	<1.30			72%	<1.31			72%	<1.43		
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	6.67	6.4135	73%	<0.640			73%	<0.652			73%	<0.654			73%	<0.715		
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	6.25	5.9725	61%	<0.640			61%	<0.652			61%	<0.654			61%	<0.715		
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	6.89	6.6445	80%	0.448	2.22	0.00050	80%	0.383	1.90	0.00043	80%	0.379	1.88	0.00043	80%	0.46	2.28	0.00052
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	6.655	6.39775	73%	2.28	8.41	0.00337	73%	2.04	7.53	0.00301	73%	2.5	9.22	0.00369	73%	2.57	9.48	0.00379
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	6.73	6.4765	75%	<0.640			75%	<0.652			75%	<0.654			75%	<0.715		
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	6.32	6.046	63%	<0.640			63%	<0.652			63%	<0.654			63%	<0.715		
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	6.64	6.382	72%	0.578	2.10	0.00087	72%	0.566	2.05	0.00085	72%	0.704	2.56	0.00106	72%	0.762	2.77	0.00115
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	6.22	5.941	60%	<0.640			60%	<0.652			60%	<0.654			60%	<0.715		
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	6.92	6.676	81%	1.98	10.3	0.00217	81%	1.76	9.1	0.00193	81%	2.05	10.6	0.00224	81%	1.93	10.0	0.00211
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	6.76	6.508	76%	0.373	1.55	0.00048	76%	<0.652			76%	<0.654			76%	<0.715		
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	6.41	6.1405	66%	<0.640			66%	<0.652			66%	<0.654			66%	<0.715		
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	7.18	6.949	99%	<0.640			88%	<0.652			99%	<0.654			99%	<0.715		

Table 3-11
Sediment Bioaccumulation Test Porewater PCB Results---Dark Head Cove, 2020

				PPW05-A				PPW05-B				PPW05-C				PPW05-D			
Congener	CAS	Log Kow	Log KPE-D*	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L	% Retained	µg/g	µg/g corrected	µg/L
2,3,3',4,4',5'-Hexachlorobiphenyl	68782-90-7	7.18	6.949	99%	<0.640			88%	<0.652			99%	<0.654			99%	<0.715		
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	7.24	7.012	99%	<0.640			90%	<0.652			99%	<0.654			99%	<0.715		
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	7.08	6.844	85%	<0.640			85%	<0.652			99%	<0.654			85%	<0.715		
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	7.24	7.012	99%	<0.640			90%	<0.652			99%	<0.654			99%	<0.715		
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	6.96	6.718	82%	<1.28			82%	<1.30			99%	<1.31			82%	<1.43		
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	7.05	6.8125	85%	<0.640			85%	<0.652			99%	<0.654			85%	<0.715		
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	6.93	6.6865	81%	<0.640			81%	<0.652			81%	<0.654			81%	<0.715		
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	7.27	7.0435	99%	<0.640			91%	<0.652			99%	<0.654			99%	<0.715		
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	7.11	6.8755	86%	<0.640			86%	<0.652			99%	<0.654			86%	<0.715		
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	7.42	7.201	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	7.27	7.0435	99%	0.813	81.3	0.00736	91%	0.645	7.2	0.00066	99%	0.828	82.8	0.00749	99%	0.803	80.3	0.00726
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	7.11	6.8755	86%	0.458	3.36	0.00045	86%	<0.652			99%	0.357	35.70	0.00476	86%	<0.715		
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	7.33	7.1065	99%	<0.640			93%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	7.02	6.781	84%	<0.640			84%	<0.652			99%	<0.654			84%	<0.715		
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	7.11	6.8755	86%	0.913	6.69	0.00089	86%	0.765	5.61	0.00075	99%	0.98	98.00	0.01305	86%	0.893	6.55	0.00087
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	6.76	6.508	76%	<0.640			76%	<0.652			76%	<0.654			76%	<0.715		
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	7.08	6.844	85%	0.738	5.08	0.00073	85%	0.694	4.78	0.00068	99%	0.796	79.60	0.01140	85%	0.622	4.28	0.00061
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	7.14	6.907	99%	0.373	37.30	0.00462	87%	<0.652			99%	<0.654			87%	<0.715		
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	6.73	6.4765	75%	0.715	2.87	0.00096	75%	0.536	2.15	0.00072	75%	0.667	2.68	0.00089	75%	0.726	2.92	0.00097
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	7.36	7.138	99%	1.38	138	0.01004	94%	1.16	19	0.00135	99%	1.29	129	0.00939	99%	1.42	142	0.01033
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	7.11	6.8755	86%	<0.640			86%	<0.652			99%	<0.654			86%	<0.715		
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	7.185	6.95425	99%	<1.28			89%	<1.30			99%	<1.31			99%	<1.43		
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	7.2	6.97	99%	0.701	70.10	0.00751	89%	0.724	6.59	0.00071	99%	0.62	62.00	0.00664	99%	0.649	64.90	0.00695
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	6.85	6.6025	79%	<0.640			79%	<0.652			79%	<0.654			79%	<0.715		
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	7.11	6.8755	86%	<0.640			86%	<0.652			99%	<0.654			86%	<0.715		
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	6.69	6.4345	74%	<0.640			74%	<0.652			74%	<0.654			74%	<0.715		
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	7.17	6.9385	99%	1.25	125	0.01440	88%	1.24	10	0.00120	99%	1.41	141	0.01624	99%	1.46	146	0.01682
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	6.82	6.571	78%	<0.640			78%	<0.652			78%	<0.654			78%	<0.715		
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	7.71	7.5055	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	7.46	7.243	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	7.55	7.3375	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	7.52	7.306	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	7.52	7.306	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	7.8	7.6	99%	0.571	57.10	0.00143	99%	0.438	43.80	0.00110	99%	0.382	38.20	0.00096	99%	<0.715		
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	7.56	7.348	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	7.65	7.4425	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	7.3	7.075	99%	<0.640			92%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	7.62	7.411	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	7.62	7.411	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	7.27	7.0435	99%	0.452	45.2	0.00409	91%	0.415	4.7	0.00042	99%	0.497	49.7	0.00450	99%	0.364	36.4	0.00329
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	7.24	7.012	99%	<0.640			90%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	7.65	7.4425	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	7.25	7.0225	99%	<1.28			91%	<1.30			99%	<1.31			99%	<1.43		
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	8	7.81	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	8.09	7.9045	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	7.74	7.537	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	7.71	7.5055	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	8.18	7.999	99%	<0.640			99%	<0.652			99%	<0.654			99%	<0.715		

Kow = octanol water partition coefficient
KPE-D = polyethylene water partition coefficient
µg/g = microgram per gram
µg/L = microgram per liter

Table 3-12

Average Sediment Porewater and Surface Water Concentrations (Measured) at Baseline, Year One, and Year Three

Dark Head Cove

Monitoring Location	301	302	303	304	305	Overall Site-wide Average
***In Situ* Porewater Total PCB**						
Baseline (ng/L)	11.3 (1.2)	57.2 (4.03)	22.7 (4.8)	11.2 (1.51)	Not recovered	25.6
Year 1 (ng/L)	0.271 (0.15)	0.965 (0.645)	0.635 (0.16)	0.282 (0.0254)	2.29 (1.48)	0.89
% Reduction Baseline to Year 1	97.6	98.3	97.2	97.5	Not calculated	96.5
Year 3 (ng/L)	Not recovered	0.288 (0.096)	0.370 (0.063)	0.391 (0.039)	0.444 (0.0093)	0.373
% Reduction Baseline to Year 3	Not calculated	99.5	98.4	96.5	Not calculated	98.5
Surface Water						
Baseline (ng/L)	7.2	23.1	12.9	10.8	Not recovered	13.5
Year 1 (ng/L)	1.6	7.1	2.0	1.9	8.1	4.1
% Reduction Baseline to Year 1	77.8	69.7	84.5	85.4	Not calculated	69.6
Year 3 (ng/L)	Not recovered	0.304	0.389	0.318	0.365	0.344
% Reduction Baseline to Year 3	Not calculated	98.7	97.0	97.1	Not calculated	97.5

Total PCB Concentrations for detected congeners (standard deviation of three replicates)

NA = not applicable
ng/L = nanogram(s) per kilogram
PCB = polychlorinated biphenyl

Location 305: sediment pore water and surface water samplers were not recovered in the baseline sampling event.
Location 301: sediment pore water and surface water samplers were not recovered in the Year 3 Monitoring event.
*Site-wide average % reductions are calculated using the difference baseline average, Year 1 and Year 3 average PCB concentrations and are not an average of the % reduction values calculated for each station (i.e., are not an average of % reduction column).

Table 3-13

Average *Ex situ* Bioaccumulation Test Porewater Concentrations (Measured) at Baseline, Year One, and Year Three — Dark Head Cove

Monitoring Location	301	302	303	304	305	Overall Site-Wide Average
Baseline Total PCB (ng/L)	17.3 (5.48)	46.5 (16.1)	21.7 (3.69)	19.8 (10.5)	20.7 (10.1)	25.2
Year 1 Total PCB (ng/L)	0.014 (0.009)	0.66 (0.843)	2.16 (1.3)	1.03 (1.27)	0.0016 (0.00073)	0.77
% Reduction Baseline to Year 1	99.9	98.6	90.0	94.8	99.9	96.9
Year 3 Total PCB (ng/L)	0.073 (0.033)	0.082 (0.025)	0.28 (0.060)	0.080 (0.098)	0.12 (0.080)	0.128
% Reduction Baseline to Year 3	99.6	99.8	98.7	99.6	99.4	99.5

Total PCB Concentrations for detected congeners (standard deviation of four replicates)

ng/L = nanogram(s) per liter
PCB = polychlorinated biphenyl
*Site-wide average % reductions are calculated using the difference baseline average, Year 1, and Year 3 average PCB concentrations and are not an average of the % reduction values calculated for each station (i.e., are not an average of % reduction column).

Table 4-1

Total PCB Concentrations in Sediment at Baseline, Year One, and Year Three—Dark Head Cove

Location	301	302	303	304	305	Site-wide
Baseline (2016)						
Sample)	1.65	6.56	2.72	2.45	1.92	3.06
Duplicate	0.501	5.46	2.78	0.259	1.17	2.03
Average	1.08	6.01	2.75	1.36	1.55	2.55
RPD	107	18	2	162	49	40
Year 1 (2018)						
Sample	0.143	1.16	1.33	1.04	0.157	0.766
Duplicate	0.149	0.281	1.65	1.25	0.153	0.697
Average	0.146	0.721	1.49	1.15	0.155	0.731
RPD	4.1	122	22	18	2.6	9.5
Year 3 (2020)						
Sample	0.015	0.938	1.78	0.266	0.960	0.792
Duplicate	0.550	0.958	1.62	0.274	0.876	0.855
Average	0.282	0.948	1.70	0.270	0.918	0.824
RPD	189	2.1	9.7	2.8	9.2	35.1

Total PCB concentrations for detected congeners.
All concentrations are in milligram(s) per kilogram (mg/kg).

PCB = polychlorinated biphenyl
RPD = relative percent difference

Table 4-2

Total PCB Concentrations in Benthic Tissue at Baseline, Year One, and Year Three—Dark Head Cove

Location	301	302	303	304	305	Site-wide
Tissue Total PCB (µg/g wet wt)						
Baseline (2016)	0.273 (0.0573)	0.793 (0.21)	0.435 (0.0596)	0.369 (0.0951)	0.276 (0.076)	0.429 (0.222)
Year 1 (2018)	0.00249 (0.00246)	0.0244 (0.0139)	0.0457 (0.0349)	0.0229 (0.004)	0.00267 (0.002)	0.0196 (0.0226)
% Reduction Baseline to Year 1	99.0%	96.9%	89.5%	93.8%	96.4%	95.0%
Year 3 (2020)	0.00235 (0.00057)	0.00292 (0.00051)	0.01185 (0.00306)	0.00482 (0.0025)	0.0046 (0.0019)	0.00524 (0.0038)
% Reduction Baseline to Year 3	99.1%	99.6%	97.4%	98.7%	96.9%	98.7%
Lipids-normalized Total PCB (µg/g lipids)						
Baseline (2016)	62.8 (14.3)	221 (45.4)	109 (29.4)	86.8 (26.5)	73.6 (30.5)	111 (64.9)
Year 1 (2018)	0.153 (0.064)	3.88 (2.64)	8.68 (7.26)	2.72 (0.741)	0.422 (0.372)	2.17 (4.47)
% Reduction Baseline to Year 1	99.7%	98.2%	92.0%	96.9%	99.4%	97.1%
Year 3 (2020)	0.315 (0.0938)	0.508 (0.283)	1.55 (0.63)	0.527 (0.28)	0.427 (0.20)	0.665 (0.56)
% Reduction Baseline to Year 3	99.5%	99.8%	98.6%	99.4%	99.4%	99.4%

Total PCB Concentrations for detected congeners (standard deviation of five replicates)

µg/g = microgram(s) per gram
PCB = polychlorinated biphenyl

Table 4-3

Baseline, Year One, and Year Three Biota-Sediment Accumulation Factors—Dark Head Cove

Location	Baseline BSAF (average)	Baseline Standard Deviation	Year 1 BSAF (average)	Year 1 standard deviation	% Reduction Baseline to Year 1	Year 3 BSAF (average)	Year 3 Standard Deviation	% Reduction Baseline to Year 3
SD-301	1.82	0.42	0.082	0.034	95.5%	0.0132	0.002	99.2%
SD-302	1.37	0.28	0.224	0.152	83.6%	0.0346	0.019	97.5%
SD-303	1.27	0.34	0.317	0.265	75.0%	0.081	0.033	93.6%
SD-304	2.14	0.65	0.154	0.042	92.8%	0.158	0.084	92.6%
SD-305	1.64	0.68	0.174	0.154	89.4%	0.0361	0.199	97.8%
Site-wide	1.65	0.56	0.263	0.162	84.1%	0.0645	0.179	96.1%

BSAF = biota-sediment accumulation factor

APPENDICES

Appendices are available upon request.

Appendix A— Field Logs

Appendix B— 28-Day Laboratory Bioaccumulation Report

Appendix C— Laboratory Data Packages

Appendix D— Data Validation Reports