Lower Duwamish Waterway Group

Port of Seattle / City of Seattle / King County / The Boeing Company

YEAR 1 DATA PACKAGE

Enhanced Natural Recovery/Activated Carbon Pilot Study

Lower Duwamish Waterway

FINAL

Prepared for:

The U.S. Environmental Protection Agency
Region 10
Seattle, Washington

The Washington State Department of Ecology
Northwest Regional Office
Bellevue, Washington

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TABLE OF CONTENTS

Page

TABLES

FIGURES

ATTACHMENT

LDW ENR/AC PILOT STUDY – YEAR 1 DATA PACKAGE

Enhanced Natural Recovery/Activated Carbon Pilot Study
Lower Duwamish Waterway

1.0 INTRODUCTION

This memorandum transmits the validated Year 1 data for the Lower Duwamish Waterway (LDW) the Enhanced Natural Recovery Activated Carbon (ENR/AC) Pilot Study consistent with the Statement of Work for the Second Amendment to the Administrative Order on Consent. These data characterize the conditions one year after pilot study construction. Surface sediment and solid-phase microextraction (SPME) extract samples were collected from the scour, intertidal, and subtidal plots to determine concentrations of freely dissolved polychlorinated biphenyls (PCBs) in porewater, and PCBs, total organic carbon (TOC) content, activated carbon (AC) content, and grain size in bulk sediment.

Project description and objectives as well as sampling design, collection and handling methods, and analytical methods are detailed in the Quality Assurance Project Plan (QAPP; Amec Foster Wheeler et al., 2016) as amended by QAPP Addendum 1 (Amec Foster Wheeler et al., 2017a) and QAPP Addendum 3 (Amec Foster Wheeler et al., 2018)[1]. Supporting information such as chain of custody forms and data validation reports will be included in the Year 1 Monitoring Report, in accordance with the approved QAPP.

2.0 METHODS AND CHANGES FROM THE QAPP

All methods and procedures outlined in the QAPP, QAPP Addendum 1, and QAPP Addendum 3 were followed in the collection and analysis of the samples.

2.1 SAMPLING LOCATIONS

A global positioning system (GPS) was used to position the sampling vessel such that the GPS-receiver, mounted to the winch arm directly over the receiver, was within 1 to 2 meters of the proposed sampling location. As noted in the QAPP, locations were selected by dividing the subplot into six grid cells, which were further divided into 24 location cells, numbered 1 through 24. Three discrete samples were collected from each grid cell at location cells determined by a random

[1] QAPP Addendum 2 (Amec Foster Wheeler et al., 2017b addresses the bioaccumulation study part of the Pilot Study and is not applicable to this data.

number generator. These samples were identified as “A”, “B”, or “C” composites as discussed in Section 2.2.

All samples were collected within the target sampling area. The plot, subplot, treatment type, sample ID, grid cell, location cell, composite (A, B, or C) and coordinates for all discrete samples are summarized in Table 1. The actual sampling locations for the subtidal, scour, and intertidal plots are shown on Figures 1, 2, and 3, respectively, and are labeled with the location cell number. Samples collected for D and E composites shown on Figures 1 through 3 were archived.

2.2 SAMPLE COLLECTION AND COMPOSITING

Intertidal plot sediment samples were collected at low tide on foot using hand cores and scour plot sediment samples were collected by divers using hand cores. Sediment from the hand cores was placed in 2-gallon buckets and transferred to the materials testing laboratory, Materials Testing & Consulting, Inc. (MTC). At MTC, samples were dried and sieved with a 3/8” sieve and a #4 sieve to remove the gravel fraction prior to compositing. All fractions were weighed and then the fraction that passed the #4 sieve was retained for the composite.

Subtidal samples were collected using 0.2-square meter pneumatically-powered stainless-steel grab sampler deployed from the sampling vessel. After visual confirmation of acceptable recovery, the overlying water was removed and a sediment core was collected for *ex situ* SPME testing using a 2-inch-diameter core tube. An additional core was collected for compositing and analysis using a 3-inch-diameter aluminum core tube.

The subtidal samples and the fraction of the scour and intertidal samples that passed the #4 sieve were composited by the Wood team at MTC and placed in jars. To form the composite sample, the “A”, “B”, and “C” discrete samples from each subplot that had corresponding recovered/usable SPMEs were composited, resulting in three composite samples per subplot. A summary of the individual samples included in each composite is provided in Table 2. The A, B, or C composite designation of each of the discrete samples is also shown on Figures 1 through 3. Further detail is provided in the QAPP.

Samples were identified according to the QAPP with each sediment and SPME sample assigned a unique alphanumeric ID number consisting of seven to nine components identifying various aspects of the sample. For example, the components for sample ID LDW-Y1-SU-ENR-CA-S010 are as follows:

- LDW = Lower Duwamish Waterway

- Y1 = Year 1 Monitoring
- SU = subtidal (intertidal is IN and scour is SC)
- ENR = Enhanced natural recovery only (ENR+AC is enhanced natural recovery with activated carbon)
- CA = composite of “A” locations
- S010 = SPME fibers collected from 0 to 10 centimeters (CORE at the end of the sample ID indicates a composite of the sediment cores)

2.3 SAMPLE ANALYSIS

Composite samples were analyzed for PCBs by the U.S. Environmental Protection Agency (EPA) Method 1668C, TOC by EPA Method 9060, AC by Grossman and Ghosh (2009), and grain size by ASTM D422. SPME fibers were processed by the method based on the work of Conder et al. (2003), You et al. (2007), Yang et al. (2008), Lu et al. (2011), Oen et al. (2011), and Harwood et al. (2012), and analyzed for PCB congeners by EPA Method 1668C. The analytical schedule for each sample is shown in Table 3.

3.0 DATA QUALIFIERS

The laboratory results were validated by Sayler Data Solutions. The data validation qualifiers applied are defined in Table 4.

4.0 RESULTS

A summary of analytical results for the bulk sediment are provided in Tables 6 and 7 and PCB congener porewater concentrations are provided in Table 8. For intertidal and scour plot samples, which were sieved, the TOC, AC, and grain size results were corrected using the masses of the sieved fractions so that the result represents the complete sample, not the sieved sample.

5.0 REFERENCES

AMEC Foster Wheeler, et al. (Amec Foster Wheeler; Dalton, Olmsted & Fuglevand, Inc.; Ramboll Environ; Floyd|Snider; and Geosyntec Consultants). 2016. Quality Assurance Project Plan, Enhanced Natural Recovery/Activated Carbon Pilot Study, Lower Duwamish Waterway. Lower Duwamish Waterway Group, Seattle, WA. February 22.

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Grossman, A., and Ghosh, U. 2009. Measurement of activated carbon and other black carbons in sediments. Chemosphere. 75:469-475.

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Lu et al. 2011. Predicting bioavailability of PAHs and PCBs with porewater concentrations measured by solid-phase microextraction fibers. Environ. Toxicol. Chem. 30: 1109-1116

Oen et al. 2011. In situ measurement of PCB pore water concentration profiles in activated carbon-amended sediment using passive samplers. Environ. Sci. Technol. 45: 4053-4059.

Yang et al. 2008. Experimental verification of a model describing solid phase microextraction (SPME) of freely dissolved organic pollutants in sediment porewater. Chemosphere 72: 1435-1440.

You et al. 2007. Desorption of hydrophobic compounds from laboratory-spiked sediments measured by Tenax absorbent and matrix solid-phase microextraction. Environ. Sci. Technol. 41: 5672-5678.

TABLES

Table 1
Sample Location Coordinates

Plot	Subplot	Treatment	Discrete Sediment Sample ID	Grid Cell	Location Cell	Composite	Easting	Northing
Subtidal	East Lane	ENR	LDW-Y1-SU-ENR-1-A-CORE	1	14	A	1267925.8	205616.5
			LDW-Y1-SU-ENR-1-B-CORE	1	17	B	1267937.5	205580.3
			LDW-Y1-SU-ENR-1-C-CORE	1	15	C	1267929.7	205604.4
			LDW-Y1-SU-ENR-1-D-CORE	1	16	D	1267933.6	205592.4
			LDW-Y1-SU-ENR-1-E-CORE	1	11	E	1267928.2	205577.3
			LDW-Y1-SU-ENR-2-A-CORE	2	19	A	1267954.7	205559.3
			LDW-Y1-SU-ENR-2-B-CORE	2	8	B	1267939.9	205541.2
			LDW-Y1-SU-ENR-2-C-CORE	2	10	C	1267947.7	205517.1
			LDW-Y1-SU-ENR-2-D-CORE	2	15	D	1267953.1	205532.2
			LDW-Y1-SU-ENR-2-E-CORE	2	7	E	1267936.0	205553.2
			LDW-Y1-SU-ENR-3-A-CORE	3	16	A	1267980.5	205447.8
			LDW-Y1-SU-ENR-3-B-CORE	3	20	B	1267982.0	205474.9
			LDW-Y1-SU-ENR-3-C-CORE	3	11	C	1267975.0	205432.7
			LDW-Y1-SU-ENR-3-D-CORE	3	15	D	1267976.6	205459.9
			LDW-Y1-SU-ENR-3-E-CORE	3	14	E	1267972.7	205471.9
			LDW-Y1-SU-ENR-4-A-CORE	4	11	A	1267998.5	205360.5
			LDW-Y1-SU-ENR-4-B-CORE	4	17	B	1268007.8	205363.5
			LDW-Y1-SU-ENR-4-C-CORE	4	13	C	1267992.2	205411.7
			LDW-Y1-SU-ENR-4-D-CORE	4	9	D	1267990.7	205384.6
			LDW-Y1-SU-ENR-4-E-CORE	4	24	E	1268021.0	205354.5
			LDW-Y1-SU-ENR-5-A-CORE	5	13	A	1268015.6	205339.4
			LDW-Y1-SU-ENR-5-B-CORE	5	7	B	1268006.3	205336.4
			LDW-Y1-SU-ENR-5-C-CORE	5	10	C	1268018.0	205300.2
			LDW-Y1-SU-ENR-5-D-CORE	5	22	D	1268036.7	205306.3
			LDW-Y1-SU-ENR-5-E-CORE	5	18	E	1268035.1	205279.2
			LDW-Y1-SU-ENR-6-A-CORE	6	11	A	1268045.3	205215.9
			LDW-Y1-SU-ENR-6-B-CORE	6	8	B	1268033.6	205252.0
			LDW-Y1-SU-ENR-6-C-CORE	6	4	C	1268032.1	205224.9
			LDW-Y1-SU-ENR-6-D-CORE	6	18	D	1268058.6	205206.9
			LDW-Y1-SU-ENR-6-E-CORE	6	20	E	1268052.3	205258.1

Table 1
Sample Location Coordinates

Plot	Subplot	Treatment	Discrete Sediment Sample ID	Grid Cell	Location Cell	Composite	Easting	Northing
Subtidal	West Lane	ENR+AC	LDW-Y1-SU-ENR+AC-1-A-CORE	1	23	A	1267895.3	205566.6
			LDW-Y1-SU-ENR+AC-1-B-CORE	1	11	B	1267876.6	205560.6
			LDW-Y1-SU-ENR+AC-1-C-CORE	1	9	C	1267868.8	205584.7
			LDW-Y1-SU-ENR+AC-1-D-CORE	1	14	D	1267874.2	205599.8
			LDW-Y1-SU-ENR+AC-1-E-CORE	1	1	E	1267851.6	205605.8
			LDW-Y1-SU-ENR+AC-2-A-CORE	2	10	A	1267896.1	205500.4
			LDW-Y1-SU-ENR+AC-2-B-CORE	2	20	B	1267907.0	205530.5
			LDW-Y1-SU-ENR+AC-2-C-CORE	2	9	C	1267892.2	205512.4
			LDW-Y1-SU-ENR+AC-2-D-CORE	2	17	D	1267909.3	205491.3
			LDW-Y1-SU-ENR+AC-2-E-CORE	2	13	E	1267893.7	205539.5
			LDW-Y1-SU-ENR+AC-3-A-CORE	3	17	A	1267932.8	205419.0
			LDW-Y1-SU-ENR+AC-3-B-CORE	3	19	B	1267926.5	205470.3
			LDW-Y1-SU-ENR+AC-3-C-CORE	3	21	C	1267934.3	205446.2
			LDW-Y1-SU-ENR+AC-3-D-CORE	3	22	D	1267938.2	205434.1
			LDW-Y1-SU-ENR+AC-3-E-CORE	3	12	E	1267927.3	205404.0
			LDW-Y1-SU-ENR+AC-4-A-CORE	4	11	A	1267946.9	205343.7
			LDW-Y1-SU-ENR+AC-4-B-CORE	4	18	B	1267960.1	205334.7
			LDW-Y1-SU-ENR+AC-4-C-CORE	4	16	C	1267952.3	205358.8
			LDW-Y1-SU-ENR+AC-4-D-CORE	4	3	D	1267929.7	205364.8
			LDW-Y1-SU-ENR+AC-4-E-CORE	4	23	E	1267965.5	205349.8
			LDW-Y1-SU-ENR+AC-5-A-CORE	5	17	A	1267979.6	205274.5
			LDW-Y1-SU-ENR+AC-5-B-CORE	5	10	B	1267966.4	205283.5
			LDW-Y1-SU-ENR+AC-5-C-CORE	5	3	C	1267953.2	205292.5
			LDW-Y1-SU-ENR+AC-5-D-CORE	5	13	D	1267964.0	205322.7
			LDW-Y1-SU-ENR+AC-5-E-CORE	5	14	E	1267967.9	205310.6
			LDW-Y1-SU-ENR+AC-6-A-CORE	6	12	A	1267997.6	205187.1
			LDW-Y1-SU-ENR+AC-6-B-CORE	6	15	B	1267995.2	205226.3
			LDW-Y1-SU-ENR+AC-6-C-CORE	6	21	C	1268004.6	205229.3
			LDW-Y1-SU-ENR+AC-6-D-CORE	6	4	D	1267980.5	205208.2
			LDW-Y1-SU-ENR+AC-6-E-CORE	6	22	E	1268008.5	205217.3

Table 1
Sample Location Coordinates

Plot	Subplot	Treatment	Discrete Sediment Sample ID	Grid Cell	Location Cell	Composite	Easting	Northing
Scour	Upstream	ENR	LDW-Y1-SC-ENR-1-A-CORE	1	19	A	1267005.1	211088.6
			LDW-Y1-SC-ENR-1-B-CORE	1	3	B	1266965.3	211078.0
			LDW-Y1-SC-ENR-1-C-CORE	1	17	C	1266981.3	211050.5
			LDW-Y1-SC-ENR-1-D-CORE	1	6	D	1266955.8	211046.9
			LDW-Y1-SC-ENR-1-E-CORE	1	21	E	1266998.8	211067.8
			LDW-Y1-SC-ENR-2-A-CORE	2	6	A	1266936.2	210982.4
			LDW-Y1-SC-ENR-2-B-CORE	2	16	B	1266965.1	210997.1
			LDW-Y1-SC-ENR-2-C-CORE	2	10	C	1266954.0	211000.5
			LDW-Y1-SC-ENR-2-D-CORE	2	18	D	1266958.6	210975.6
			LDW-Y1-SC-ENR-2-E-CORE	2	13	E	1266974.9	211029.5
			LDW-Y1-SC-ENR-3-A-CORE	3	3	A	1267009.9	211064.4
			LDW-Y1-SC-ENR-3-B-CORE	3	9	B	1267021.1	211061.0
			LDW-Y1-SC-ENR-3-C-CORE	3	17	C	1267026.0	211036.9
			LDW-Y1-SC-ENR-3-D-CORE	3	13	D	1267038.6	211078.4
			LDW-Y1-SC-ENR-3-E-CORE	3	15	E	1267032.3	211057.7
			LDW-Y1-SC-ENR-4-A-CORE	4	8	A	1267005.2	211008.5
			LDW-Y1-SC-ENR-4-B-CORE	4	2	B	1266994.0	211011.9
			LDW-Y1-SC-ENR-4-C-CORE	4	12	C	1266992.1	210965.4
			LDW-Y1-SC-ENR-4-D-CORE	4	18	D	1267003.2	210962.0
			LDW-Y1-SC-ENR-4-E-CORE	4	17	E	1267006.5	210972.8
			LDW-Y1-SC-ENR-5-A-CORE	5	24	A	1267078.6	211009.6
			LDW-Y1-SC-ENR-5-B-CORE	5	19	B	1267094.4	211061.5
			LDW-Y1-SC-ENR-5-C-CORE	5	8	C	1267068.9	211057.9
			LDW-Y1-SC-ENR-5-D-CORE	5	6	D	1267045.1	211019.7
			LDW-Y1-SC-ENR-5-E-CORE	5	15	E	1267076.9	211044.1
			LDW-Y1-SC-ENR-6-A-CORE	6	10	A	1267043.3	210973.4
			LDW-Y1-SC-ENR-6-B-CORE	6	13	B	1267064.2	211002.4
			LDW-Y1-SC-ENR-6-C-CORE	6	23	C	1267062.3	210955.9
			LDW-Y1-SC-ENR-6-D-CORE	6	24	D	1267059.0	210945.1
			LDW-Y1-SC-ENR-6-E-CORE	6	21	E	1267068.9	210977.4

Table 1
Sample Location Coordinates

Plot	Subplot	Treatment	Discrete Sediment Sample ID	Grid Cell	Location Cell	Composite	Easting	Northing
Scour	Downstream	ENR+AC	LDW-Y1-SC-ENR+AC-1-A-CORE	1	17	A	1267024.6	211193.0
			LDW-Y1-SC-ENR+AC-1-B-CORE	1	15	B	1267031.4	211215.4
			LDW-Y1-SC-ENR+AC-1-C-CORE	1	21	C	1267042.6	211212.0
			LDW-Y1-SC-ENR+AC-1-D-CORE	1	22	D	1267039.2	211200.8
			LDW-Y1-SC-ENR+AC-1-E-CORE	1	12	E	1267010.0	211185.2
			LDW-Y1-SC-ENR+AC-2-A-CORE	2	14	A	1267014.6	211160.0
			LDW-Y1-SC-ENR+AC-2-B-CORE	2	15	B	1267011.3	211149.3
			LDW-Y1-SC-ENR+AC-2-C-CORE	2	11	C	1266993.6	211131.1
			LDW-Y1-SC-ENR+AC-2-D-CORE	2	4	D	1266985.7	211145.3
			LDW-Y1-SC-ENR+AC-2-E-CORE	2	17	E	1267004.8	211127.7
			LDW-Y1-SC-ENR+AC-3-A-CORE	3	23	A	1267080.4	211176.0
			LDW-Y1-SC-ENR+AC-3-B-CORE	3	9	B	1267064.9	211205.2
			LDW-Y1-SC-ENR+AC-3-C-CORE	3	24	C	1267077.0	211164.9
			LDW-Y1-SC-ENR+AC-3-D-CORE	3	10	D	1267061.5	211194.0
			LDW-Y1-SC-ENR+AC-3-E-CORE	3	20	E	1267090.6	211209.6
			LDW-Y1-SC-ENR+AC-4-A-CORE	4	2	A	1267036.9	211153.3
			LDW-Y1-SC-ENR+AC-4-B-CORE	4	8	B	1267048.1	211149.9
			LDW-Y1-SC-ENR+AC-4-C-CORE	4	12	C	1267035.0	211106.7
			LDW-Y1-SC-ENR+AC-4-D-CORE	4	11	D	1267038.3	211117.5
			LDW-Y1-SC-ENR+AC-4-E-CORE	4	24	E	1267057.3	211099.9
			LDW-Y1-SC-ENR+AC-5-A-CORE	5	8	A	1267112.9	211202.8
			LDW-Y1-SC-ENR+AC-5-B-CORE	5	10	B	1267106.1	211180.5
			LDW-Y1-SC-ENR+AC-5-C-CORE	5	4	C	1267095.0	211183.8
			LDW-Y1-SC-ENR+AC-5-D-CORE	5	24	D	1267121.7	211151.3
			LDW-Y1-SC-ENR+AC-5-E-CORE	5	17	E	1267113.9	211165.9
			LDW-Y1-SC-ENR+AC-6-A-CORE	6	2	A	1267081.6	211139.7
			LDW-Y1-SC-ENR+AC-6-B-CORE	6	23	B	1267105.2	211097.2
			LDW-Y1-SC-ENR+AC-6-C-CORE	6	11	C	1267082.9	211103.9
			LDW-Y1-SC-ENR+AC-6-D-CORE	6	3	D	1267078.3	211128.9
			LDW-Y1-SC-ENR+AC-6-E-CORE	6	20	E	1267115.1	211129.5

Table 1
Sample Location Coordinates

Plot	Subplot	Treatment	Discrete Sediment Sample ID	Grid Cell	Location Cell	Composite	Easting	Northing
Intertidal	Upstream	ENR	LDW-Y1-IN-ENR-1-A-CORE	1	7	A	1276240.7	194161.8
			LDW-Y1-IN-ENR-1-B-CORE	1	24	B	1276276.5	194106.5
			LDW-Y1-IN-ENR-1-C-CORE	1	3	C	1276235.3	194135.1
			LDW-Y1-IN-ENR-1-D-CORE	1	20	D	1276265.4	194154.8
			LDW-Y1-IN-ENR-1-E-CORE	1	14	E	1276254.4	194152.2
			LDW-Y1-IN-ENR-2-A-CORE	2	16	A	1276276.6	194055.7
			LDW-Y1-IN-ENR-2-B-CORE	2	17	B	1276279.4	194043.7
			LDW-Y1-IN-ENR-2-C-CORE	2	6	C	1276260.3	194026.6
			LDW-Y1-IN-ENR-2-D-CORE	2	23	D	1276290.3	194046.2
			LDW-Y1-IN-ENR-2-E-CORE	2	9	E	1276262.9	194065.3
			LDW-Y1-IN-ENR-3-A-CORE	3	22	A	1276304.2	193985.9
			LDW-Y1-IN-ENR-3-B-CORE	3	13	B	1276285.0	194019.5
			LDW-Y1-IN-ENR-3-C-CORE	3	19	C	1276295.9	194022.1
			LDW-Y1-IN-ENR-3-D-CORE	3	24	D	1276309.8	193961.7
			LDW-Y1-IN-ENR-3-E-CORE	3	23	E	1276307.0	193973.8
			LDW-Y1-IN-ENR-4-A-CORE	4	9	A	1276290.0	194147.7
			LDW-Y1-IN-ENR-4-B-CORE	4	4	B	1276281.8	194133.2
			LDW-Y1-IN-ENR-4-C-CORE	4	13	C	1276295.4	194174.4
			LDW-Y1-IN-ENR-4-D-CORE	4	2	D	1276276.3	194157.3
			LDW-Y1-IN-ENR-4-E-CORE	4	3	E	1276279.1	194145.2
			LDW-Y1-IN-ENR-5-A-CORE	5	9	A	1276306.7	194075.3
			LDW-Y1-IN-ENR-5-B-CORE	5	23	B	1276334.1	194056.3
			LDW-Y1-IN-ENR-5-C-CORE	5	11	C	1276312.2	194051.2
			LDW-Y1-IN-ENR-5-D-CORE	5	14	D	1276314.8	194089.9
			LDW-Y1-IN-ENR-5-E-CORE	5	16	E	1276320.4	194065.8
			LDW-Y1-IN-ENR-6-A-CORE	6	17	A	1276339.8	193981.4
			LDW-Y1-IN-ENR-6-B-CORE	6	20	B	1276342.4	194020.1
			LDW-Y1-IN-ENR-6-C-CORE	6	10	C	1276326.1	193990.9
			LDW-Y1-IN-ENR-6-D-CORE	6	15	D	1276334.3	194005.5
			LDW-Y1-IN-ENR-6-E-CORE	6	11	E	1276328.9	193978.8

Table 1
Sample Location Coordinates

Plot	Subplot	Treatment	Discrete Sediment Sample ID	Grid Cell	Location Cell	Composite	Easting	Northing
Intertidal	Downstream	ENR+AC	LDW-Y1-IN-ENR+AC-1-A-CORE	1	9	A	1276174.5	194449.3
			LDW-Y1-IN-ENR+AC-1-B-CORE	1	20	B	1276193.8	194465.8
			LDW-Y1-IN-ENR+AC-1-C-CORE	1	17	C	1276190.7	194429.0
			LDW-Y1-IN-ENR+AC-1-D-CORE	1	5	D	1276168.9	194423.9
			LDW-Y1-IN-ENR+AC-1-E-CORE	1	23	E	1276201.7	194431.5
			LDW-Y1-IN-ENR+AC-2-A-CORE	2	5	A	1276184.7	194355.3
			LDW-Y1-IN-ENR+AC-2-B-CORE	2	18	B	1276209.2	194348.9
			LDW-Y1-IN-ENR+AC-2-C-CORE	2	22	C	1276214.8	194374.3
			LDW-Y1-IN-ENR+AC-2-D-CORE	2	19	D	1276206.9	194408.6
			LDW-Y1-IN-ENR+AC-2-E-CORE	2	21	E	1276212.2	194385.8
			LDW-Y1-IN-ENR+AC-3-A-CORE	3	9	A	1276206.1	194312.1
			LDW-Y1-IN-ENR+AC-3-B-CORE	3	3	B	1276195.2	194309.6
			LDW-Y1-IN-ENR+AC-3-C-CORE	3	10	C	1276208.8	194300.7
			LDW-Y1-IN-ENR+AC-3-D-CORE	3	23	D	1276233.3	194294.3
			LDW-Y1-IN-ENR+AC-3-E-CORE	3	6	E	1276203.1	194275.3
			LDW-Y1-IN-ENR+AC-4-A-CORE	4	20	A	1276237.5	194475.9
			LDW-Y1-IN-ENR+AC-4-B-CORE	4	15	B	1276229.2	194461.9
			LDW-Y1-IN-ENR+AC-4-C-CORE	4	19	C	1276234.9	194487.3
			LDW-Y1-IN-ENR+AC-4-D-CORE	4	14	D	1276226.6	194473.4
			LDW-Y1-IN-ENR+AC-4-E-CORE	4	5	E	1276212.6	194434.0
			LDW-Y1-IN-ENR+AC-5-A-CORE	5	22	A	1276258.6	194384.4
			LDW-Y1-IN-ENR+AC-5-B-CORE	5	15	B	1276245.0	194393.3
			LDW-Y1-IN-ENR+AC-5-C-CORE	5	9	C	1276234.1	194390.8
			LDW-Y1-IN-ENR+AC-5-D-CORE	5	8	D	1276231.4	194402.2
			LDW-Y1-IN-ENR+AC-5-E-CORE	5	19	E	1276250.7	194418.7
			LDW-Y1-IN-ENR+AC-6-A-CORE	6	2	A	1276236.3	194331.1
			LDW-Y1-IN-ENR+AC-6-B-CORE	6	9	B	1276249.9	194322.2
			LDW-Y1-IN-ENR+AC-6-C-CORE	6	8	C	1276247.2	194333.6
			LDW-Y1-IN-ENR+AC-6-D-CORE	6	18	D	1276268.7	194290.4
			LDW-Y1-IN-ENR+AC-6-E-CORE	6	5	E	1276244.2	194296.8

Notes:

1. Locations were selected by dividing the subplot into a 4-by-6 grid, numbering the grid cells 1 through 24, and then using a random number generator to select the location of each sample. The GPS coordinates of the center of the selected cell are presented in the database expressed as Northings and Eastings in state plane coordinates according to the procedures in Section 3.0 of the QAPP.
2. Coordinates for center of location cell in Washington State Plane North.

Abbreviations:

ENR = Enhanced natural recovery
ENR+AC = Enhanced natural recovery amended with activated carbon
GPS = Global positioning system
QAPP = Quality assurance project plan

Table 2
Composite Formation

Plot	Subplot	Grid Cell	Location Cell	Composite	Discrete SPME Sample ID	Composite SPME Sample ID & Vial ID	Discrete Sediment Sample ID	Composite Sediment Sample ID
Subtidal	ENR	1	14	A	LDW-Y1-SU-ENR-1-A-S010-SPME	LDW-Y1-SU-ENR-CA-S010	LDW-Y1-SU-ENR-1-A-CORE	LDW-Y1-SU-ENR-CA-CORE
Subtidal	ENR	2	19	A	LDW-Y1-SU-ENR-2-A-S010-SPME		LDW-Y1-SU-ENR-2-A-CORE	
Subtidal	ENR	3	16	A	LDW-Y1-SU-ENR-3-A-S010-SPME		LDW-Y1-SU-ENR-3-A-CORE	
Subtidal	ENR	4	11	A	LDW-Y1-SU-ENR-4-A-S010-SPME		LDW-Y1-SU-ENR-4-A-CORE	
Subtidal	ENR	5	13	A	LDW-Y1-SU-ENR-5-A-S010-SPME		LDW-Y1-SU-ENR-5-A-CORE	
Subtidal	ENR	6	11	A	LDW-Y1-SU-ENR-6-A-S010-SPME		LDW-Y1-SU-ENR-6-A-CORE	
Subtidal	ENR	1	17	B	LDW-Y1-SU-ENR-1-B-S010-SPME	LDW-Y1-SU-ENR-CB-S010	LDW-Y1-SU-ENR-1-B-CORE	LDW-Y1-SU-ENR-CB-CORE
Subtidal	ENR	2	8	B	LDW-Y1-SU-ENR-2-B-S010-SPME		LDW-Y1-SU-ENR-2-B-CORE	
Subtidal	ENR	3	20	B	LDW-Y1-SU-ENR-3-B-S010-SPME		LDW-Y1-SU-ENR-3-B-CORE	
Subtidal	ENR	4	17	B	LDW-Y1-SU-ENR-4-B-S010-SPME		LDW-Y1-SU-ENR-4-B-CORE	
Subtidal	ENR	5	7	B	LDW-Y1-SU-ENR-5-B-S010-SPME		LDW-Y1-SU-ENR-5-B-CORE	
Subtidal	ENR	6	8	B	LDW-Y1-SU-ENR-6-B-S010-SPME		LDW-Y1-SU-ENR-6-B-CORE	
Subtidal	ENR	1	15	C	LDW-Y1-SU-ENR-1-C-S010-SPME	LDW-Y1-SU-ENR-CC-S010	LDW-Y1-SU-ENR-1-C-CORE	LDW-Y1-SU-ENR-CC-CORE
Subtidal	ENR	2	10	C	LDW-Y1-SU-ENR-2-C-S010-SPME		LDW-Y1-SU-ENR-2-C-CORE	
Subtidal	ENR	3	11	C	LDW-Y1-SU-ENR-3-C-S010-SPME		LDW-Y1-SU-ENR-3-C-CORE	
Subtidal	ENR	4	13	C	LDW-Y1-SU-ENR-4-C-S010-SPME		LDW-Y1-SU-ENR-4-C-CORE	
Subtidal	ENR	5	10	C	LDW-Y1-SU-ENR-5-C-S010-SPME		LDW-Y1-SU-ENR-5-C-CORE	
Subtidal	ENR	6	4	C	LDW-Y1-SU-ENR-6-C-S010-SPME		LDW-Y1-SU-ENR-6-C-CORE	
Subtidal	ENR+AC	1	23	A	LDW-Y1-SU-ENR+AC-1-A-S010-SPME	LDW-Y1-SU-ENR+AC-CA-S010	LDW-Y1-SU-ENR+AC-1-A-CORE	LDW-Y1-SU-ENR+AC-CA-CORE
Subtidal	ENR+AC	2	10	A	LDW-Y1-SU-ENR+AC-2-A-S010-SPME		LDW-Y1-SU-ENR+AC-2-A-CORE	
Subtidal	ENR+AC	3	17	A	LDW-Y1-SU-ENR+AC-3-A-S010-SPME		LDW-Y1-SU-ENR+AC-3-A-CORE	
Subtidal	ENR+AC	4	11	A	LDW-Y1-SU-ENR+AC-4-A-S010-SPME		LDW-Y1-SU-ENR+AC-4-A-CORE	
Subtidal	ENR+AC	5	17	A	LDW-Y1-SU-ENR+AC-5-A-S010-SPME		LDW-Y1-SU-ENR+AC-5-A-CORE	
Subtidal	ENR+AC	6	12	A	LDW-Y1-SU-ENR+AC-6-A-S010-SPME		LDW-Y1-SU-ENR+AC-6-A-CORE	
Subtidal	ENR+AC	1	11	B	LDW-Y1-SU-ENR+AC-1-B-S010-SPME	LDW-Y1-SU-ENR+AC-CB-S010	LDW-Y1-SU-ENR+AC-1-B-CORE	LDW-Y1-SU-ENR+AC-CB-CORE
Subtidal	ENR+AC	2	20	B	LDW-Y1-SU-ENR+AC-2-B-S010-SPME		LDW-Y1-SU-ENR+AC-2-B-CORE	
Subtidal	ENR+AC	3	19	B	LDW-Y1-SU-ENR+AC-3-B-S010-SPME		LDW-Y1-SU-ENR+AC-3-B-CORE	
Subtidal	ENR+AC	4	18	B	LDW-Y1-SU-ENR+AC-4-B-S010-SPME		LDW-Y1-SU-ENR+AC-4-B-CORE	
Subtidal	ENR+AC	5	10	B	LDW-Y1-SU-ENR+AC-5-B-S010-SPME		LDW-Y1-SU-ENR+AC-5-B-CORE	
Subtidal	ENR+AC	6	15	B	LDW-Y1-SU-ENR+AC-6-B-S010-SPME		LDW-Y1-SU-ENR+AC-6-B-CORE	
Subtidal	ENR+AC	1	9	C	LDW-Y1-SU-ENR+AC-1-C-S010-SPME	LDW-Y1-SU-ENR+AC-CC-S010	LDW-Y1-SU-ENR+AC-1-C-CORE	LDW-Y1-SU-ENR+AC-CC-CORE
Subtidal	ENR+AC	2	9	C	LDW-Y1-SU-ENR+AC-2-C-S010-SPME		LDW-Y1-SU-ENR+AC-2-C-CORE	
Subtidal	ENR+AC	3	21	C	LDW-Y1-SU-ENR+AC-3-C-S010-SPME		LDW-Y1-SU-ENR+AC-3-C-CORE	
Subtidal	ENR+AC	4	16	C	LDW-Y1-SU-ENR+AC-4-C-S010-SPME		LDW-Y1-SU-ENR+AC-4-C-CORE	
Subtidal	ENR+AC	5	3	C	LDW-Y1-SU-ENR+AC-5-C-S010-SPME		LDW-Y1-SU-ENR+AC-5-C-CORE	
Subtidal	ENR+AC	6	21	C	LDW-Y1-SU-ENR+AC-6-C-S010-SPME		LDW-Y1-SU-ENR+AC-6-C-CORE	
Scour	ENR	1	19	A	SPME not recovered/usable	LDW-Y1-SC-ENR-CA-S010	Core not included in composite	LDW-Y1-SC-ENR-CA-CORE
Scour	ENR	2	6	A	LDW-Y1-SC-ENR-2-A-S010-SPME		LDW-Y1-SC-ENR-2-A-CORE	
Scour	ENR	3	3	A	LDW-Y1-SC-ENR-3-A-S010-SPME		LDW-Y1-SC-ENR-3-A-CORE	
Scour	ENR	4	8	A	LDW-Y1-SC-ENR-4-A-S010-SPME		LDW-Y1-SC-ENR-4-A-CORE	
Scour	ENR	5	24	A	LDW-Y1-SC-ENR-5-A-S010-SPME		LDW-Y1-SC-ENR-5-A-CORE	
Scour	ENR	6	10	A	LDW-Y1-SC-ENR-6-A-S010-SPME		LDW-Y1-SC-ENR-6-A-CORE	
Scour	ENR	1	3	B	LDW-Y1-SC-ENR-1-B-S010-SPME	LDW-Y1-SC-ENR-CB-S010	LDW-Y1-SC-ENR-1-B-CORE	LDW-Y1-SC-ENR-CB-CORE
Scour	ENR	2	16	B	LDW-Y1-SC-ENR-2-B-S010-SPME		LDW-Y1-SC-ENR-2-B-CORE	
Scour	ENR	3	9	B	LDW-Y1-SC-ENR-3-B-S010-SPME		LDW-Y1-SC-ENR-3-B-CORE	
Scour	ENR	4	2	B	LDW-Y1-SC-ENR-4-B-S010-SPME		LDW-Y1-SC-ENR-4-B-CORE	
Scour	ENR	5	19	B	SPME not recovered/usable		Core not included in composite	
Scour	ENR	6	13	B	LDW-Y1-SC-ENR-6-B-S010-SPME		LDW-Y1-SC-ENR-6-B-CORE	

Table 2
Composite Formation

Plot	Subplot	Grid Cell	Location Cell	Composite	Discrete SPME Sample ID	Composite SPME Sample ID & Vial ID	Discrete Sediment Sample ID	Composite Sediment Sample ID
Scour	ENR	1	17	C	LDW-Y1-SC-ENR-1-C-S010-SPME	LDW-Y1-SC-ENR-CC-S010	LDW-Y1-SC-ENR-1-C-CORE	LDW-Y1-SC-ENR-CC-CORE
Scour	ENR	2	10	C	LDW-Y1-SC-ENR-2-C-S010-SPME		LDW-Y1-SC-ENR-2-C-CORE	
Scour	ENR	3	17	C	LDW-Y1-SC-ENR-3-C-S010-SPME		LDW-Y1-SC-ENR-3-C-CORE	
Scour	ENR	4	12	C	LDW-Y1-SC-ENR-4-C-S010-SPME		LDW-Y1-SC-ENR-4-C-CORE	
Scour	ENR	5	8	C	LDW-Y1-SC-ENR-5-C-S010-SPME		LDW-Y1-SC-ENR-5-C-CORE	
Scour	ENR	6	23	C	LDW-Y1-SC-ENR-6-C-S010-SPME		LDW-Y1-SC-ENR-6-C-CORE	
Scour	ENR+AC	1	17	A	LDW-Y1-SC-ENR+AC-1-A-S010-SPME	LDW-Y1-SC-ENR+AC-CA-S010	LDW-Y1-SC-ENR+AC-1-A-CORE	LDW-Y1-SC-ENR+AC-CA-CORE
Scour	ENR+AC	2	14	A	SPME not recovered/usable		Core not included in composite	
Scour	ENR+AC	3	23	A	LDW-Y1-SC-ENR+AC-3-A-S010-SPME		LDW-Y1-SC-ENR+AC-3-A-CORE	
Scour	ENR+AC	4	2	A	LDW-Y1-SC-ENR+AC-4-A-S010-SPME		LDW-Y1-SC-ENR+AC-4-A-CORE	
Scour	ENR+AC	5	8	A	LDW-Y1-SC-ENR+AC-5-A-S010-SPME		LDW-Y1-SC-ENR+AC-5-A-CORE	
Scour	ENR+AC	6	2	A	SPME not recovered/usable		Core not included in composite	
Scour	ENR+AC	1	15	B	LDW-Y1-SC-ENR+AC-1-B-S010-SPME	LDW-Y1-SC-ENR+AC-CB-S010	LDW-Y1-SC-ENR+AC-1-B-CORE	LDW-Y1-SC-ENR+AC-CB-CORE
Scour	ENR+AC	2	15	B	LDW-Y1-SC-ENR+AC-2-B-S010-SPME		LDW-Y1-SC-ENR+AC-2-B-CORE	
Scour	ENR+AC	3	9	B	LDW-Y1-SC-ENR+AC-3-B-S010-SPME		LDW-Y1-SC-ENR+AC-3-B-CORE	
Scour	ENR+AC	4	8	B	SPME not recovered/usable		Core not included in composite	
Scour	ENR+AC	5	10	B	LDW-Y1-SC-ENR+AC-5-B-S010-SPME		LDW-Y1-SC-ENR+AC-5-B-CORE	
Scour	ENR+AC	6	23	B	LDW-Y1-SC-ENR+AC-6-B-S010-SPME		LDW-Y1-SC-ENR+AC-6-B-CORE	
Scour	ENR+AC	1	21	C	LDW-Y1-SC-ENR+AC-1-C-S010-SPME	LDW-Y1-SC-ENR+AC-CC-S010	LDW-Y1-SC-ENR+AC-1-C-CORE	LDW-Y1-SC-ENR+AC-CC-CORE
Scour	ENR+AC	2	11	C	LDW-Y1-SC-ENR+AC-2-C-S010-SPME		LDW-Y1-SC-ENR+AC-2-C-CORE	
Scour	ENR+AC	3	24	C	SPME not recovered/usable		Core not included in composite	
Scour	ENR+AC	4	12	C	LDW-Y1-SC-ENR+AC-4-C-S010-SPME		LDW-Y1-SC-ENR+AC-4-C-CORE	
Scour	ENR+AC	5	4	C	SPME not recovered/usable		Core not included in composite	
Scour	ENR+AC	6	11	C	LDW-Y1-SC-ENR+AC-6-C-S010-SPME		LDW-Y1-SC-ENR+AC-6-C-CORE	
Intertidal	ENR	1	7	A	SPME not recovered/usable	LDW-Y1-IN-ENR-CA-S010	Core not included in composite	LDW-Y1-IN-ENR-CA-CORE
Intertidal	ENR	2	16	A	SPME not recovered/usable		Core not included in composite	
Intertidal	ENR	3	22	A	LDW-Y1-IN-ENR-3-A-S010-SPME		LDW-Y1-IN-ENR-3-A-CORE	
Intertidal	ENR	4	9	A	LDW-Y1-IN-ENR-4-A-S010-SPME		LDW-Y1-IN-ENR-4-A-CORE	
Intertidal	ENR	5	9	A	LDW-Y1-IN-ENR-5-A-S010-SPME		LDW-Y1-IN-ENR-5-A-CORE	
Intertidal	ENR	6	17	A	LDW-Y1-IN-ENR-6-A-S010-SPME		LDW-Y1-IN-ENR-6-A-CORE	
Intertidal	ENR	1	24	B	LDW-Y1-IN-ENR-1-B-S010-SPME	LDW-Y1-IN-ENR-CB-S010	LDW-Y1-IN-ENR-1-B-CORE	LDW-Y1-IN-ENR-CB-CORE
Intertidal	ENR	2	17	B	LDW-Y1-IN-ENR-2-B-S010-SPME		LDW-Y1-IN-ENR-2-B-CORE	
Intertidal	ENR	3	13	B	LDW-Y1-IN-ENR-3-B-S010-SPME		LDW-Y1-IN-ENR-3-B-CORE	
Intertidal	ENR	4	4	B	LDW-Y1-IN-ENR-4-B-S010-SPME		LDW-Y1-IN-ENR-4-B-CORE	
Intertidal	ENR	5	23	B	LDW-Y1-IN-ENR-5-B-S010-SPME		LDW-Y1-IN-ENR-5-B-CORE	
Intertidal	ENR	6	20	B	LDW-Y1-IN-ENR-6-B-S010-SPME		LDW-Y1-IN-ENR-6-B-CORE	
Intertidal	ENR	1	3	C	LDW-Y1-IN-ENR-1-C-S010-SPME	LDW-Y1-IN-ENR-CC-S010	LDW-Y1-IN-ENR-1-C-CORE	LDW-Y1-IN-ENR-CC-CORE
Intertidal	ENR	2	6	C	LDW-Y1-IN-ENR-2-C-S010-SPME		LDW-Y1-IN-ENR-2-C-CORE	
Intertidal	ENR	3	19	C	LDW-Y1-IN-ENR-3-C-S010-SPME		LDW-Y1-IN-ENR-3-C-CORE	
Intertidal	ENR	4	13	C	SPME not recovered/usable		Core not included in composite	
Intertidal	ENR	5	11	C	LDW-Y1-IN-ENR-5-C-S010-SPME		LDW-Y1-IN-ENR-5-C-CORE	
Intertidal	ENR	6	10	C	LDW-Y1-IN-ENR-6-C-S010-SPME		LDW-Y1-IN-ENR-6-C-CORE	
Intertidal	ENR+AC	1	9	A	LDW-Y1-IN-ENR+AC-1-A-S010-SPME	LDW-Y1-IN-ENR+AC-CA-S010	LDW-Y1-IN-ENR+AC-1-A-CORE	LDW-Y1-IN-ENR+AC-CA-CORE
Intertidal	ENR+AC	2	5	A	LDW-Y1-IN-ENR+AC-2-A-S010-SPME		LDW-Y1-IN-ENR+AC-2-A-CORE	
Intertidal	ENR+AC	3	9	A	LDW-Y1-IN-ENR+AC-3-A-S010-SPME		LDW-Y1-IN-ENR+AC-3-A-CORE	
Intertidal	ENR+AC	4	20	A	LDW-Y1-IN-ENR+AC-4-A-S010-SPME		LDW-Y1-IN-ENR+AC-4-A-CORE	
Intertidal	ENR+AC	5	22	A	LDW-Y1-IN-ENR+AC-5-A-S010-SPME		LDW-Y1-IN-ENR+AC-5-A-CORE	
Intertidal	ENR+AC	6	2	A	LDW-Y1-IN-ENR+AC-6-A-S010-SPME		LDW-Y1-IN-ENR+AC-6-A-CORE	

Table 2
Composite Formation

Plot	Subplot	Grid Cell	Location Cell	Composite	Discrete SPME Sample ID	Composite SPME Sample ID & Vial ID	Discrete Sediment Sample ID	Composite Sediment Sample ID
Intertidal	ENR+AC	1	20	B	LDW-Y1-IN-ENR+AC-1-B-S010-SPME	LDW-Y1-IN-ENR+AC-CB-S010	LDW-Y1-IN-ENR+AC-1-B-CORE	LDW-Y1-IN-ENR+AC-CB-CORE
Intertidal	ENR+AC	2	18	B	LDW-Y1-IN-ENR+AC-2-B-S010-SPME		LDW-Y1-IN-ENR+AC-2-B-CORE	
Intertidal	ENR+AC	3	3	B	LDW-Y1-IN-ENR+AC-3-B-S010-SPME		LDW-Y1-IN-ENR+AC-3-B-CORE	
Intertidal	ENR+AC	4	15	B	LDW-Y1-IN-ENR+AC-4-B-S010-SPME		LDW-Y1-IN-ENR+AC-4-B-CORE	
Intertidal	ENR+AC	5	15	B	LDW-Y1-IN-ENR+AC-5-B-S010-SPME		LDW-Y1-IN-ENR+AC-5-B-CORE	
Intertidal	ENR+AC	6	9	B	LDW-Y1-IN-ENR+AC-6-B-S010-SPME		LDW-Y1-IN-ENR+AC-6-B-CORE	
Intertidal	ENR+AC	1	17	C	LDW-Y1-IN-ENR+AC-1-C-S010-SPME	LDW-Y1-IN-ENR+AC-CC-S010	LDW-Y1-IN-ENR+AC-1-C-CORE	LDW-Y1-IN-ENR+AC-CC-CORE
Intertidal	ENR+AC	2	22	C	LDW-Y1-IN-ENR+AC-2-C-S010-SPME		LDW-Y1-IN-ENR+AC-2-C-CORE	
Intertidal	ENR+AC	3	10	C	LDW-Y1-IN-ENR+AC-3-C-S010-SPME		LDW-Y1-IN-ENR+AC-3-C-CORE	
Intertidal	ENR+AC	4	19	C	LDW-Y1-IN-ENR+AC-4-C-S010-SPME		LDW-Y1-IN-ENR+AC-4-C-CORE	
Intertidal	ENR+AC	5	9	C	LDW-Y1-IN-ENR+AC-5-C-S010-SPME		LDW-Y1-IN-ENR+AC-5-C-CORE	
Intertidal	ENR+AC	6	8	C	LDW-Y1-IN-ENR+AC-6-C-S010-SPME		LDW-Y1-IN-ENR+AC-6-C-CORE	

Abbreviations:
ENR = Enhanced natural recovery
ENR+AC = Enhanced natural recovery amended with activated carbon
ID = Identification
SPME = Solid-phase microextraction

Table 3
Analytical Schedule

Sample ID	Pre-Analytical Laboratory Submission Sieving (3/8" and #4 Sieve)	PCBs EPA 1668C	TOC EPA 9060	Activated Carbon Grossman and Ghosh (2009)	Grain Size ASTM D422
Surface Sediment Composites					
LDW-Y1-SU-ENR-CA-CORE		X	X	X	X
LDW-Y1-SU-ENR-CB-CORE		X	X	X	X
LDW-Y1-SU-ENR-CC-CORE		X	X	X	X
LDW-Y1-SU-ENR+AC-CA-CORE		X	X	X	X
LDW-Y1-SU-ENR+AC-CB-CORE		X	X	X	X
LDW-Y1-SU-ENR+AC-CC-CORE		X	X	X	X
LDW-Y1-SC-ENR-CA-CORE		X	X	X	X
LDW-Y1-SC-ENR-CB-CORE		X	X	X	X
LDW-Y1-SC-ENR-CC-CORE		X	X	X	X
LDW-Y1-SC-ENR+AC-CA-CORE		X	X	X	X
LDW-Y1-SC-ENR+AC-CB-CORE		X	X	X	X
LDW-Y1-SC-ENR+AC-CC-CORE		X	X	X	X
LDW-Y1-IN-ENR-CA-CORE		X	X	X	X
LDW-Y1-IN-ENR-CB-CORE		X	X	X	X
LDW-Y1-IN-ENR-CC-CORE		X	X	X	X
LDW-Y1-IN-ENR+AC-CA-CORE		X	X	X	X
LDW-Y1-IN-ENR+AC-CB-CORE		X	X	X	X
LDW-Y1-IN-ENR+AC-CC-CORE		X	X	X	X
SPME Fiber Extracts					
LDW-Y1-SU-ENR-CA-S010		X			
LDW-Y1-SU-ENR-CB-S010		X			
LDW-Y1-SU-ENR-CC-S010		X			
LDW-Y1-SU-ENR+AC-CA-S010		X			
LDW-Y1-SU-ENR+AC-CB-S010		X			
LDW-Y1-SU-ENR+AC-CC-S010		X			
LDW-Y1-SC-ENR-CA-S010		X			
LDW-Y1-SC-ENR-CB-S010		X			
LDW-Y1-SC-ENR-CC-S010		X			
LDW-Y1-SC-ENR+AC-CA-S010		X			
LDW-Y1-SC-ENR+AC-CB-S010		X			
LDW-Y1-SC-ENR+AC-CC-S010		X			
LDW-Y1-IN-ENR-CA-S010		X			
LDW-Y1-IN-ENR-CB-S010		X			
LDW-Y1-IN-ENR-CC-S010		X			
LDW-Y1-IN-ENR+AC-CA-S010		X			
LDW-Y1-IN-ENR+AC-CB-S010		X			
LDW-Y1-IN-ENR+AC-CC-S010		X			

Table 3
Analytical Schedule

Sample ID	Pre-Analytical Laboratory Submission Sieving (3/8" and #4 Sieve)	PCBs EPA 1668C	TOC EPA 9060	Activated Carbon Grossman and Ghosh (2009)	Grain Size ASTM D422
Surface Sediment Discrete Samples					
LDW-Y0-SU-ENR-1-A-COR	Not analyzed, only used to make composite samples				
LDW-Y0-SU-ENR-2-A-COR					
LDW-Y0-SU-ENR-3-A-COR					
LDW-Y0-SU-ENR-4-A-COR					
LDW-Y0-SU-ENR-5-A-COR					
LDW-Y0-SU-ENR-6-A-COR					
LDW-Y0-SU-ENR-1-B-COR					
LDW-Y0-SU-ENR-2-B-COR					
LDW-Y0-SU-ENR-3-B-COR					
LDW-Y0-SU-ENR-4-B-COR					
LDW-Y0-SU-ENR-5-B-COR					
LDW-Y0-SU-ENR-6-B-COR					
LDW-Y0-SU-ENR-1-C-COR					
LDW-Y0-SU-ENR-2-C-COR					
LDW-Y0-SU-ENR-3-C-COR					
LDW-Y0-SU-ENR-4-C-COR					
LDW-Y0-SU-ENR-5-C-COR					
LDW-Y0-SU-ENR-6-C-COR					
LDW-Y0-SU-ENR+AC-1-A-COR	Not analyzed, only used to make composite samples				
LDW-Y0-SU-ENR+AC-2-A-COR					
LDW-Y0-SU-ENR+AC-3-A-COR					
LDW-Y0-SU-ENR+AC-4-A-COR					
LDW-Y0-SU-ENR+AC-5-A-COR					
LDW-Y0-SU-ENR+AC-6-A-COR					
LDW-Y0-SU-ENR+AC-1-B-COR					
LDW-Y0-SU-ENR+AC-2-B-COR					
LDW-Y0-SU-ENR+AC-3-B-COR					
LDW-Y0-SU-ENR+AC-4-B-COR					
LDW-Y0-SU-ENR+AC-5-B-COR					
LDW-Y0-SU-ENR+AC-6-B-COR					
LDW-Y0-SU-ENR+AC-1-C-COR					
LDW-Y0-SU-ENR+AC-2-C-COR					
LDW-Y0-SU-ENR+AC-3-C-COR					
LDW-Y0-SU-ENR+AC-4-C-COR					
LDW-Y0-SU-ENR+AC-5-C-COR					
LDW-Y0-SU-ENR+AC-6-C-COR					

Table 3
Analytical Schedule

Sample ID	Pre-Analytical Laboratory Submission Sieving (3/8" and #4 Sieve)	PCBs EPA 1668C	TOC EPA 9060	Activated Carbon Grossman and Ghosh (2009)	Grain Size ASTM D422
Surface Sediment Discrete Samples					
LDW-Y0-SC-ENR-1-A-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-SC-ENR-2-A-COR	X				
LDW-Y0-SC-ENR-3-A-COR	X				
LDW-Y0-SC-ENR-4-A-COR	X				
LDW-Y0-SC-ENR-5-A-COR	X				
LDW-Y0-SC-ENR-6-A-COR	X				
LDW-Y0-SC-ENR-1-B-COR	X				
LDW-Y0-SC-ENR-2-B-COR	X				
LDW-Y0-SC-ENR-3-B-COR	X				
LDW-Y0-SC-ENR-4-B-COR	X				
LDW-Y0-SC-ENR-5-B-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-SC-ENR-6-B-COR	X				
LDW-Y0-SC-ENR-1-C-COR	X				
LDW-Y0-SC-ENR-2-C-COR	X				
LDW-Y0-SC-ENR-3-C-COR	X				
LDW-Y0-SC-ENR-4-C-COR	X				
LDW-Y0-SC-ENR-5-C-COR	X				
LDW-Y0-SC-ENR-6-C-COR	X				
LDW-Y0-SC-ENR+AC-1-A-COR	X				
LDW-Y0-SC-ENR+AC-2-A-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-SC-ENR+AC-3-A-COR	X				
LDW-Y0-SC-ENR+AC-4-A-COR	X				
LDW-Y0-SC-ENR+AC-5-A-COR	X				
LDW-Y0-SC-ENR+AC-6-A-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-SC-ENR+AC-1-B-COR	X				
LDW-Y0-SC-ENR+AC-2-B-COR	X				
LDW-Y0-SC-ENR+AC-3-B-COR	X				
LDW-Y0-SC-ENR+AC-4-B-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-SC-ENR+AC-5-B-COR	X				
LDW-Y0-SC-ENR+AC-6-B-COR	X				
LDW-Y0-SC-ENR+AC-1-C-COR	X				
LDW-Y0-SC-ENR+AC-2-C-COR	X				
LDW-Y0-SC-ENR+AC-3-C-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-SC-ENR+AC-4-C-COR	X				
LDW-Y0-SC-ENR+AC-5-C-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-SC-ENR+AC-6-C-COR	X				

Table 3
Analytical Schedule

Sample ID	Pre-Analytical Laboratory Submission Sieving (3/8" and #4 Sieve)	PCBs EPA 1668C	TOC EPA 9060	Activated Carbon Grossman and Ghosh (2009)	Grain Size ASTM D422
Surface Sediment Discrete Samples					
LDW-Y0-IN-ENR-1-A-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-IN-ENR-2-A-COR					
LDW-Y0-IN-ENR-3-A-COR	X				
LDW-Y0-IN-ENR-4-A-COR	X				
LDW-Y0-IN-ENR-5-A-COR	X				
LDW-Y0-IN-ENR-6-A-COR	X				
LDW-Y0-IN-ENR-1-B-COR	X				
LDW-Y0-IN-ENR-2-B-COR	X				
LDW-Y0-IN-ENR-3-B-COR	X				
LDW-Y0-IN-ENR-4-B-COR	X				
LDW-Y0-IN-ENR-5-B-COR	X				
LDW-Y0-IN-ENR-6-B-COR	X				
LDW-Y0-IN-ENR-1-C-COR	X				
LDW-Y0-IN-ENR-2-C-COR	X				
LDW-Y0-IN-ENR-3-C-COR	X				
LDW-Y0-IN-ENR-4-C-COR	Not sieved or included in composite because SPME was not recovered or usable				
LDW-Y0-IN-ENR-5-C-COR	X				
LDW-Y0-IN-ENR-6-C-COR	X				
LDW-Y0-IN-ENR+AC-1-A-COR	X				
LDW-Y0-IN-ENR+AC-2-A-COR	X				
LDW-Y0-IN-ENR+AC-3-A-COR	X				
LDW-Y0-IN-ENR+AC-4-A-COR	X				
LDW-Y0-IN-ENR+AC-5-A-COR	X				
LDW-Y0-IN-ENR+AC-6-A-COR	X				
LDW-Y0-IN-ENR+AC-1-B-COR	X				
LDW-Y0-IN-ENR+AC-2-B-COR	X				
LDW-Y0-IN-ENR+AC-3-B-COR	X				
LDW-Y0-IN-ENR+AC-4-B-COR	X				
LDW-Y0-IN-ENR+AC-5-B-COR	X				
LDW-Y0-IN-ENR+AC-6-B-COR	X				
LDW-Y0-IN-ENR+AC-1-C-COR	X				
LDW-Y0-IN-ENR+AC-2-C-COR	X				
LDW-Y0-IN-ENR+AC-3-C-COR	X				
LDW-Y0-IN-ENR+AC-4-C-COR	X				
LDW-Y0-IN-ENR+AC-5-C-COR	X				
LDW-Y0-IN-ENR+AC-6-C-COR	X				

Table 3
Analytical Schedule

Sample ID	Pre-Analytical Laboratory Submission Sieving (3/8" and #4 Sieve)	PCBs EPA 1668C	TOC EPA 9060	Activated Carbon Grossman and Ghosh (2009)	Grain Size ASTM D422

Abbreviations:

ASTM = American Society for Testing and Materials
ENR = Enhanced natural recovery
ENR+AC = Enhanced natural recovery amended with activated carbon
EPA = U.S. Environmental Protection Agency
PCB = Polychlorinated biphenyl
SPME = Solid-phase microextraction
TOC = Total organic carbon

Reference:

Grossman, A., and Ghosh, U. 2009. Measurement of activated carbon and other black carbons in sediments. Chemosphere. 75:469-475.

Table 4
Data Qualifier Definitions

Qualifier	Definition	Description
C	Co-eluting congener	Concentration represents total concentration of all congeners that coelute with qualified congener.
CXXX	Co-elutes with the indicated congener	Analyte coelutes with another congener, see numbered congener for concentration.
J	Estimated	Analyte was detected at a level below the instrument quantitation limit. Concentration is considered estimated.
U	Non-detect	Analyte was not detected, concentration is the estimated detection limit.
L	Percent to steady state less than 20%	Percent to steady state less than 20%. Concentration is considered estimated.
UB	Background concentration exceeds detected concentration	The background concentration exceeded the detected concentration and no PCB free concentration was reported. These results should be considered not detected at the lowest available detection limit, the MDL.

Abbreviations:
MDL = Method detection limit
PCB = Polychlorinated biphenyl

Table 5
Pre-Analytical Laboratory Submission Sieving to Remove Gravel Fraction

Plot	Subplot	Sample Type	Composite	Discrete Sample ID	Analyte / Sample Date	Total Mass	Mass on 3/8" Sieve	Mass on #4 Sieve	Mass Passing #4	Avg Total Mass	Avg Mass on 3/8" Sieve	Avg Mass on #4 Sieve	Avg Mass Passing #4	Gravel (> #4 Sieve)	< #4 Sieve
						g	g	g	g	g	g	g	g	%	%
Intertidal	ENR	Discrete	A	LDW-Y1-IN-ENR-3-A-CORE	6/29/2018	4,930	790	230	3,890	4,938	1,455	334	3,136	36.5	63.5
				LDW-Y1-IN-ENR-4-A-CORE	6/29/2018	5,175	2,390	485	2,290						
				LDW-Y1-IN-ENR-5-A-CORE	6/29/2018	4,715	1,300	305	3,100						
				LDW-Y1-IN-ENR-6-A-CORE	6/29/2018	4,930	1340	315	3,265						
			B	LDW-Y1-IN-ENR-1-B-CORE	6/29/2018	5,240	1,860	405	2,980	4,968	1,809	398	2,754	44.6	55.4
				LDW-Y1-IN-ENR-2-B-CORE	6/29/2018	4,955	2785	410	1,770						
				LDW-Y1-IN-ENR-3-B-CORE	6/29/2018	5,165	1,700	445	3,010						
				LDW-Y1-IN-ENR-4-B-CORE	6/28/2018	5,630	2,365	585	2,665						
				LDW-Y1-IN-ENR-5-B-CORE	6/29/2018	4,765	1,560	365	2,825						
				LDW-Y1-IN-ENR-6-B-CORE	6/29/2018	4,055	585	175	3,275						
			C	LDW-Y1-IN-ENR-1-C-CORE	6/29/2018	3,175	525	100	2,525	4,174	1,157	309	2,712	35.0	65.0
				LDW-Y1-IN-ENR-2-C-CORE	6/29/2018	5,080	1,760	540	2,755						
				LDW-Y1-IN-ENR-3-C-CORE	6/29/2018	4,530	1,015	300	3,250						
				LDW-Y1-IN-ENR-5-C-CORE	6/29/2018	4,905	1890	445	2,610						
				LDW-Y1-IN-ENR-6-C-CORE	6/29/2018	3,180	595	160	2,420						
			D	LDW-Y1-IN-ENR-1-D-CORE	6/29/2018	4,960	1,600	310	3,040	5,055	1,885	453	2,707	46.5	53.5
				LDW-Y1-IN-ENR-2-D-CORE	6/29/2018	5,195	1,345	365	3,475						
				LDW-Y1-IN-ENR-3-D-CORE	6/28/2018	4,235	1,445	480	2,295						
				LDW-Y1-IN-ENR-4-D-CORE	6/29/2018	5,520	2,275	580	2,655						
				LDW-Y1-IN-ENR-5-D-CORE	6/29/2018	5,250	2,350	465	2,425						
				LDW-Y1-IN-ENR-6-D-CORE	6/29/2018	5,170	2295	520	2,350						
			E	LDW-Y1-IN-ENR-1-E-CORE	6/29/2018	5,180	830	205	4,130	4,992	1,639	357	2,979	40.3	59.7
				LDW-Y1-IN-ENR-2-E-CORE	6/29/2018	4,890	2,235	520	2,120						
				LDW-Y1-IN-ENR-3-E-CORE	6/29/2018	4,990	975	275	3,705						
				LDW-Y1-IN-ENR-4-E-CORE	6/29/2018	4,965	2,260	375	2,320						
				LDW-Y1-IN-ENR-5-E-CORE	6/29/2018	5,225	2,115	375	2,730						
				LDW-Y1-IN-ENR-6-E-CORE	6/29/2018	4,700	1,420	390	2,870						
	ENR+AC	Discrete	A	LDW-Y1-IN-ENR+AC-1-A-CORE	6/28/2018	4,780	755	315	3,705	5,103	1,443	391	3,262	36.1	63.9
				LDW-Y1-IN-ENR+AC-2-A-CORE	6/28/2018	4,950	1,165	465	3,310						
				LDW-Y1-IN-ENR+AC-3-A-CORE	6/28/2018	5,280	1,680	445	3,145						
				LDW-Y1-IN-ENR+AC-4-A-CORE	6/29/2018	5,565	2,190	380	2,990						
				LDW-Y1-IN-ENR+AC-5-A-CORE	6/29/2018	5,520	1,810	450	3,245						
				LDW-Y1-IN-ENR+AC-6-A-CORE	6/28/2018	4,525	1,060	290	3,175						
			B	LDW-Y1-IN-ENR+AC-1-B-CORE	6/28/2018	5,185	1,480	435	3,255	5,123	1,905	366	2,837	44.6	55.4
				LDW-Y1-IN-ENR+AC-2-B-CORE	6/28/2018	5,210	2,410	300	2,470						
				LDW-Y1-IN-ENR+AC-3-B-CORE	6/29/2018	4,905	1,555	280	3,055						
				LDW-Y1-IN-ENR+AC-4-B-CORE	6/29/2018	5,320	2,300	465	2,540						
				LDW-Y1-IN-ENR+AC-5-B-CORE	6/28/2018	5,035	1,645	385	2,990						
				LDW-Y1-IN-ENR+AC-6-B-CORE	6/29/2018	5,080	2,040	330	2,710						
			C	LDW-Y1-IN-ENR+AC-1-C-CORE	6/28/2018	4,870	1,270	350	3,230	4,721	1,393	369	2,947	37.6	62.4
				LDW-Y1-IN-ENR+AC-2-C-CORE	6/28/2018	4,575	1,475	320	2,765						
				LDW-Y1-IN-ENR+AC-3-C-CORE	6/28/2018	4,420	1,580	385	2,450						
				LDW-Y1-IN-ENR+AC-4-C-CORE	6/29/2018	4,625	980	415	3,225						
				LDW-Y1-IN-ENR+AC-5-C-CORE	6/28/2018	4,860	1,450	390	3,010						
				LDW-Y1-IN-ENR+AC-6-C-CORE	6/28/2018	4,975	1,605	355	3,000						
			D	LDW-Y1-IN-ENR+AC-1-D-CORE	6/28/2018	4,735	1,320	310	3,080	4,812	1,680	311	2,807	41.7	58.3
				LDW-Y1-IN-ENR+AC-2-D-CORE	6/29/2018	4,845	1,845	185	2,810						
				LDW-Y1-IN-ENR+AC-3-D-CORE	6/29/2018	5,300	2,200	455	2,635						
				LDW-Y1-IN-ENR+AC-4-D-CORE	6/28/2018	5,330	2,115	405	2,790						
				LDW-Y1-IN-ENR+AC-5-D-CORE	6/29/2018	4,565	1,550	280	2,725						
				LDW-Y1-IN-ENR+AC-6-D-CORE	6/29/2018	4,095	1,050	230	2,800						
			E	LDW-Y1-IN-ENR+AC-1-E-CORE	6/28/2018	5,150	1,880	340	2,915	5,033	1,925	335	2,754	45.3	54.7
				LDW-Y1-IN-ENR+AC-2-E-CORE	6/29/2018	4,800	1,755	355	2,680						
				LDW-Y1-IN-ENR+AC-3-E-CORE	6/29/2018	5,045	2,565	340	2,125						
				LDW-Y1-IN-ENR+AC-4-E-CORE	6/29/2018	4,895	1,965	355	2,565						
				LDW-Y1-IN-ENR+AC-5-E-CORE	6/28/2018	5,200	1,655	335	3,170						
				LDW-Y1-IN-ENR+AC-6-E-CORE	6/29/2018	5,105	1730	285	3,070						

Table 5
Pre-Analytical Laboratory Submission Sieving to Remove Gravel Fraction

Plot	Subplot	Sample Type	Composite	Discrete Sample ID	Analyte Sample Date	Total Mass g	Mass on 3/8" Sieve g	Mass on #4 Sieve g	Mass Passing #4 g	Avg Total Mass g	Avg Mass on 3/8" Sieve g	Avg Mass on #4 Sieve g	Avg Mass Passing #4 g	Gravel (> #4 Sieve) %	< #4 Sieve %
Scour	ENR	Discrete	A	LDW-Y1-SC-ENR-2-A-CORE	6/25/2018	3,995	1,575	375	2,005	4,195	1,737	364	2,061	50.9	49.1
				LDW-Y1-SC-ENR-3-A-CORE	6/26/2018	3,920	1,800	255	1,835						
				LDW-Y1-SC-ENR-4-A-CORE	6/25/2018	4,455	1,765	425	2,235						
				LDW-Y1-SC-ENR-5-A-CORE	6/25/2018	4,710	1,965	405	2,310						
				LDW-Y1-SC-ENR-6-A-CORE	6/25/2018	3,895	1,580	360	1,920						
			B	LDW-Y1-SC-ENR-1-B-CORE	6/26/2018	4,540	1,655	385	2,455	3,948	1,642	315	1,961	50.3	49.7
				LDW-Y1-SC-ENR-2-B-CORE	6/24/2018	4,020	1,985	290	1,735						
				LDW-Y1-SC-ENR-3-B-CORE	6/26/2018	3,110	1,355	245	1,470						
				LDW-Y1-SC-ENR-4-B-CORE	6/25/2018	4,035	1,910	310	1,785						
				LDW-Y1-SC-ENR-6-B-CORE	6/25/2018	4,035	1,305	345	2,360						
			C	LDW-Y1-SC-ENR-1-C-CORE	6/25/2018	3,770	1,300	435	1,990	4,008	1,572	334	2,079	48.1	51.9
				LDW-Y1-SC-ENR-2-C-CORE	6/24/2018	4,430	2,090	335	1,995						
				LDW-Y1-SC-ENR-3-C-CORE	6/26/2018	4,290	1,040	335	2,890						
				LDW-Y1-SC-ENR-4-C-CORE	6/24/2018	3,260	1,550	270	1,435						
				LDW-Y1-SC-ENR-5-C-CORE	6/26/2018	4,200	1,625	295	2,255						
				LDW-Y1-SC-ENR-6-C-CORE	6/25/2018	4,100	1,825	335	1,910						
			D	LDW-Y1-SC-ENR-1-D-CORE	6/25/2018	4,015	1195	315	2,475	3,513	1,494	302	1,695	51.8	48.2
				LDW-Y1-SC-ENR-2-D-CORE	6/24/2018	1,680	1,040	180	440						
				LDW-Y1-SC-ENR-3-D-CORE	6/26/2018	3,835	1,245	270	2,300						
				LDW-Y1-SC-ENR-4-D-CORE	6/24/2018	3,840	2,610	280	935						
				LDW-Y1-SC-ENR-5-D-CORE	6/25/2018	3,695	1,100	295	2,275						
				LDW-Y1-SC-ENR-6-D-CORE	6/25/2018	4,015	1,775	470	1,745						
			E	LDW-Y1-SC-ENR-1-E-CORE	6/26/2018	4,565	1,730	405	2,415	4,157	1,702	391	2,039	50.9	49.1
				LDW-Y1-SC-ENR-2-E-CORE	6/25/2018	3,895	1,665	310	1,890						
				LDW-Y1-SC-ENR-3-E-CORE	6/26/2018	3,270	1,950	255	1,050						
				LDW-Y1-SC-ENR-4-E-CORE	6/24/2018	4,240	1,550	585	2,080						
				LDW-Y1-SC-ENR-5-E-CORE	6/26/2018	5,180	1,760	420	2,955						
				LDW-Y1-SC-ENR-6-E-CORE	6/25/2018	3,790	1,555	370	1845						
	ENR+AC	Discrete	A	LDW-Y1-SC-ENR+AC-1-A-CORE	6/28/2018	5,095	2,010	635	2,435	4,434	1,319	398	2,698	39.2	60.8
				LDW-Y1-SC-ENR+AC-3-A-CORE	6/27/2018	4,885	1,205	390	3,270						
				LDW-Y1-SC-ENR+AC-4-A-CORE	6/28/2018	3,410	1,050	255	2,095						
				LDW-Y1-SC-ENR+AC-5-A-CORE	6/27/2018	4,345	1,010	310	2,990						
			B	LDW-Y1-SC-ENR+AC-1-B-CORE	6/27/2018	5,360	2,810	550	1,950	4,929	2,007	377	2,515	49.0	51.0
				LDW-Y1-SC-ENR+AC-2-B-CORE	6/28/2018	5,375	1,865	370	3,125						
				LDW-Y1-SC-ENR+AC-3-B-CORE	6/27/2018	4,595	2,140	375	2,065						
				LDW-Y1-SC-ENR+AC-5-B-CORE	6/27/2018	4,290	1,010	175	3,075						
				LDW-Y1-SC-ENR+AC-6-B-CORE	6/26/2018	5,025	2,210	415	2,360						
			C	LDW-Y1-SC-ENR+AC-1-C-CORE	6/28/2018	5,845	2,740	510	2,590	4,979	2,241	388	2,331	53.2	46.8
				LDW-Y1-SC-ENR+AC-2-C-CORE	6/26/2018	4,020	1,700	225	2,085						
				LDW-Y1-SC-ENR+AC-4-C-CORE	6/27/2018	5,210	2,200	500	2480						
				LDW-Y1-SC-ENR+AC-6-C-CORE	6/26/2018	4,840	2,325	315	2,170						
			D	LDW-Y1-SC-ENR+AC-1-D-CORE	6/27/2018	5,215	1,835	500	2,845	4,805	1,822	377	2,579	46.3	53.7
				LDW-Y1-SC-ENR+AC-2-D-CORE	6/26/2018	3,770	1,400	225	2,125						
				LDW-Y1-SC-ENR+AC-3-D-CORE	6/27/2018	4,810	2,530	325	1,945						
				LDW-Y1-SC-ENR+AC-4-D-CORE	6/27/2018	4,745	1,340	355	2,995						
				LDW-Y1-SC-ENR+AC-5-D-CORE	6/27/2018	4,925	1,770	395	2,735						
				LDW-Y1-SC-ENR+AC-6-D-CORE	6/27/2018	5,365	2,055	460	2,830						
			E	LDW-Y1-SC-ENR+AC-1-E-CORE	6/28/2018	4,590	1,720	400	2,420	4,633	1,658	358	2,588	44.1	55.9
				LDW-Y1-SC-ENR+AC-2-E-CORE	6/26/2018	4,280	1,275	300	2,685						
				LDW-Y1-SC-ENR+AC-3-E-CORE	6/27/2018	4,875	1,780	395	2,685						
				LDW-Y1-SC-ENR+AC-4-E-CORE	6/27/2018	4,110	955	190	2,940						
				LDW-Y1-SC-ENR+AC-5-E-CORE	6/27/2018	5,585	1,995	585	2,985						
				LDW-Y1-SC-ENR+AC-6-E-CORE	6/27/2018	4,355	2,225	280	1,810						

Notes:

1. Samples collected from the intertidal and scour plots were sieved with a #4 sieve prior to analysis to remove the gravel fraction as the ENR substrate for those plots is gravelly sand. Samples from the subtidal plots were not sieved with a #4 sieve prior to analysis as the ENR substrate for that plot was sand only. AC, TOC, and grain size results were corrected to account for the mass of material removed by the #4 sieve (the gravel fraction). Reportable results for AC, TOC, and grain size are bolded/shaded.

Abbreviations:

AC = Activated carbon
ENR = Enhanced natural recovery
ENR +AC = Enhanced natural recovery amended with activated carbon
g = gram(s)
ID = Idenfication
TOC = Total organic carbon

Table 6
Activated Carbon, Total Organic Carbon, and Grain Size Results for Bulk Sediment

					Pre-Analytical Laboratory Submission		Activated Carbon (AC)		Total Organic Carbon (TOC)	
Plot	Subplot	Sample Type	Sample ID	Analyte Sample Date	Total Mass g	Mass Passing #4 g	AC without Gravel Fraction %	Corrected AC with Gravel Fraction[1] %	TOC without Gravel Fraction (Average) %	Corrected TOC with Gravel Fraction (Average)[1] %
Subtidal	ENR	Composite of "A" Locations	LDW-Y1-SU-ENR-CA-CORE	5/3/2018	N/A	N/A	**0.28**	N/A	**0.42**	N/A
Subtidal	ENR	Composite of "B" Locations	LDW-Y1-SU-ENR-CB-CORE	5/3/2018	N/A	N/A	**0.34**	N/A	**0.38**	N/A
Subtidal	ENR	Composite of "C" Locations	LDW-Y1-SU-ENR-CC-CORE	5/3/2018	N/A	N/A	**0.13**	N/A	**0.41**	N/A
Subtidal	ENR+AC	Composite of "A" Locations	LDW-Y1-SU-ENR+AC-CA-CORE	5/3/2018	N/A	N/A	**1.1**	N/A	**1.8**	N/A
Subtidal	ENR+AC	Composite of "B" Locations	LDW-Y1-SU-ENR+AC-CB-CORE	5/3/2018	N/A	N/A	**1.2**	N/A	**1.4**	N/A
Subtidal	ENR+AC	Composite of "C" Locations	LDW-Y1-SU-ENR+AC-CC-CORE	5/3/2018	N/A	N/A	**0.93**	N/A	**2.0**	N/A
Scour	ENR	Composite of "A" Locations	LDW-Y1-SC-ENR-CA-CORE	7/6/2018	4,195	2,061	0.18	**0.088**	0.72	**0.35**
Scour	ENR	Composite of "B" Locations	LDW-Y1-SC-ENR-CB-CORE	7/6/2018	3,948	1,961	0.28	**0.14**	0.55	**0.27**
Scour	ENR	Composite of "C" Locations	LDW-Y1-SC-ENR-CC-CORE	7/6/2018	4,008	2,079	0.64	**0.33**	0.71	**0.37**
Scour	ENR+AC	Composite of "A" Locations	LDW-Y1-SC-ENR+AC-CA-CORE	7/6/2018	4,434	2,698	5.6	**3.4**	0.62	**0.38**
Scour	ENR+AC	Composite of "B" Locations	LDW-Y1-SC-ENR+AC-CB-CORE	7/6/2018	4,929	2,515	4.7	**2.4**	4.0	**2.0**
Scour	ENR+AC	Composite of "C" Locations	LDW-Y1-SC-ENR+AC-CC-CORE[2]	7/6/2018	4,979	2,331	4.2 4.0	**2.0** **1.9**	3.7	**1.7**
Intertidal	ENR	Composite of "A" Locations	LDW-Y1-IN-ENR-CA-CORE[2]	7/6/2018	4,938	3,136	0.019	**0.012**	0.23	**0.15**
Intertidal	ENR	Composite of "B" Locations	LDW-Y1-IN-ENR-CB-CORE	7/6/2018	4,968	2,754	0.028	**0.016**	0.32	**0.17**
Intertidal	ENR	Composite of "C" Locations	LDW-Y1-IN-ENR-CC-CORE	7/6/2018	4,174	2,712	0.21	**0.14**	0.44	**0.28**
Intertidal	ENR+AC	Composite of "A" Locations	LDW-Y1-IN-ENR+AC-CA-CORE	7/6/2018	5,103	3,262	3.1	**2.0**	2.7	**1.69**
Intertidal	ENR+AC	Composite of "B" Locations	LDW-Y1-IN-ENR+AC-CB-CORE	7/6/2018	5,123	2,837	2.8	**1.6**	2.8	**1.6**
Intertidal	ENR+AC	Composite of "C" Locations	LDW-Y1-IN-ENR+AC-CC-CORE	7/6/2018	4,721	2,947	4.5	**2.8**	4.1	**2.5**

Table 6
Activated Carbon, Total Organic Carbon, and Grain Size Results for Bulk Sediment

					Grain Size													
Plot	Subplot	Sample Type	Sample ID	Analyte	Gravel[3]	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay	Clay	Clay	Total Fines
				Sample Date	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Subtidal	ENR	Composite of "A" Locations	LDW-Y1-SU-ENR-CA-CORE	5/3/2018	**22.0**	**19.9**	**20.5**	**20.3**	**7.8**	**1.9**	**0.8**	**1.4**	**1.5**	**1.2**	**0.9**	**0.4**	**1.5**	**7.7**
					23.2	**20.3**	**19.3**	**20.2**	**7.8**	**2.0**	**0.3**	**1.6**	**1.5**	**1.1**	**0.9**	**0.4**	**1.4**	**7.2**
					21.9	**20.1**	**20.1**	**19.9**	**7.7**	**1.9**	**1.5**	**0.6**	**2.4**	**1.1**	**0.9**	**0.4**	**1.4**	**8.3**
Subtidal	ENR	Composite of "B" Locations	LDW-Y1-SU-ENR-CB-CORE	5/3/2018	**22.1**	**20.3**	**21.2**	**21.5**	**8.2**	**1.8**	**1.0**	**0.9**	**0.8**	**0.7**	**0.5**	**0.1**	**0.8**	**5.0**
Subtidal	ENR	Composite of "C" Locations	LDW-Y1-SU-ENR-CC-CORE	5/3/2018	**19.9**	**18.6**	**21.6**	**23.2**	**9.5**	**1.9**	**1.2**	**0.9**	**0.9**	**0.7**	**0.5**	**0.1**	**0.9**	**5.3**
Subtidal	ENR+AC	Composite of "A" Locations	LDW-Y1-SU-ENR+AC-CA-CORE	5/3/2018	**24.2**	**14.8**	**18.8**	**20.2**	**7.9**	**2.2**	**0.6**	**3.0**	**3.3**	**1.7**	**1.1**	**0.5**	**1.7**	**11.9**
Subtidal	ENR+AC	Composite of "B" Locations	LDW-Y1-SU-ENR+AC-CB-CORE	5/3/2018	**20.2**	**17.8**	**19.9**	**17.2**	**6.2**	**1.9**	**2.4**	**3.8**	**4.2**	**2.2**	**1.4**	**0.7**	**2.2**	**16.8**
Subtidal	ENR+AC	Composite of "C" Locations	LDW-Y1-SU-ENR+AC-CC-CORE	5/3/2018	**15.2**	**15.4**	**18.5**	**20.4**	**8.1**	**2.2**	**2.7**	**5.7**	**5.5**	**1.9**	**1.3**	**0.8**	**2.3**	**20.2**
Scour	ENR	Composite of "A" Locations	LDW-Y1-SC-ENR-CA-CORE	7/6/2018	28.7	20.2	21.0	15.3	4.2	2.0	2.4	1.9	1.8	1.1	0.4	0.3	0.9	8.8
Scour	ENR	Composite of "B" Locations	LDW-Y1-SC-ENR-CB-CORE	7/6/2018	41.7	19.3	18.0	10.3	2.6	1.3	1.8	1.4	1.3	0.8	0.3	0.1	0.8	6.7
Scour	ENR	Composite of "C" Locations	LDW-Y1-SC-ENR-CC-CORE	7/6/2018	33.0	20.2	18.8	12.9	3.7	2.3	1.8	2.6	2.1	1.2	0.4	0.3	0.9	9.3
Scour	ENR+AC	Composite of "A" Locations	LDW-Y1-SC-ENR+AC-CA-CORE	7/6/2018	26.4	18.6	25.7	18.2	4.1	1.1	1.4	1.0	1.2	0.8	0.3	0.2	0.8	5.8
Scour	ENR+AC	Composite of "B" Locations	LDW-Y1-SC-ENR+AC-CB-CORE	7/6/2018	34.6	19.1	20.5	15.4	3.8	1.3	1.7	1.0	0.9	0.6	0.2	0.1	0.8	5.3
Scour	ENR+AC	Composite of "C" Locations	LDW-Y1-SC-ENR+AC-CC-CORE	7/6/2018	35.5	17.9	21.7	15.5	4.1	1.1	1.2	0.7	0.8	0.5	0.2	0.2	0.7	4.2
Intertidal	ENR	Composite of "A" Locations	LDW-Y1-IN-ENR-CA-CORE	7/6/2018	22.1	19.0	24.3	21.6	6.5	2.2	1.9	0.8	0.8	0.4	0.2	0.1	0.2	4.3
					20.6	18.1	25.5	22.3	6.7	2.1	1.7	1.2	0.8	0.4	0.3	0.1	0.2	4.6
					21.4	19.2	25.2	21.8	6.4	2.1	1.9	0.9	0.5	0.2	0.0	0.1	0.2	3.9
Intertidal	ENR	Composite of "B" Locations	LDW-Y1-IN-ENR-CB-CORE	7/6/2018	29.4	17.7	22.2	18.1	4.9	1.8	1.6	1.6	1.3	0.6	0.4	0.2	0.3	5.9
Intertidal	ENR	Composite of "C" Locations	LDW-Y1-IN-ENR-CC-CORE	7/6/2018	28.5	19.6	21.8	16.3	4.9	2.6	0.3	2.6	1.7	0.7	0.4	0.1	0.4	6.3
Intertidal	ENR+AC	Composite of "A" Locations	LDW-Y1-IN-ENR+AC-CA-CORE	7/6/2018	35.5	18.4	22.0	14.4	4.4	2.5	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	2.9
Intertidal	ENR+AC	Composite of "B" Locations	LDW-Y1-IN-ENR+AC-CB-CORE	7/6/2018	34.6	20.9	22.2	14.6	3.1	1.4	1.2	0.8	0.5	0.3	0.2	0.1	0.3	3.3
Intertidal	ENR+AC	Composite of "C" Locations	LDW-Y1-IN-ENR+AC-CC-CORE	7/6/2018	30.7	18.5	25.5	16.1	3.6	2.1	1.6	0.8	0.5	0.3	0.1	0.1	0.2	3.5

Table 6
Activated Carbon, Total Organic Carbon, and Grain Size Results for Bulk Sediment

					Corrected Grain Size with Gravel Fraction[1]													
Plot	Subplot	Sample Type	Sample ID	Analyte	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay	Clay	Clay	Total Fines
				Sample Date	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Subtidal	ENR	Composite of "A" Locations	LDW-Y1-SU-ENR-CA-CORE	5/3/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subtidal	ENR	Composite of "B" Locations	LDW-Y1-SU-ENR-CB-CORE	5/3/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subtidal	ENR	Composite of "C" Locations	LDW-Y1-SU-ENR-CC-CORE	5/3/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subtidal	ENR+AC	Composite of "A" Locations	LDW-Y1-SU-ENR+AC-CA-CORE	5/3/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subtidal	ENR+AC	Composite of "B" Locations	LDW-Y1-SU-ENR+AC-CB-CORE	5/3/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subtidal	ENR+AC	Composite of "C" Locations	LDW-Y1-SU-ENR+AC-CC-CORE	5/3/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scour	ENR	Composite of "A" Locations	LDW-Y1-SC-ENR-CA-CORE	7/6/2018	**65.0**	**9.9**	**10.3**	**7.5**	**2.1**	**1.0**	**1.2**	**0.9**	**0.9**	**0.5**	**0.2**	**0.1**	**0.4**	**4.3**
Scour	ENR	Composite of "B" Locations	LDW-Y1-SC-ENR-CB-CORE	7/6/2018	**71.0**	**9.6**	**8.9**	**5.1**	**1.3**	**0.6**	**0.9**	**0.7**	**0.6**	**0.4**	**0.1**	**0.0**	**0.4**	**3.3**
Scour	ENR	Composite of "C" Locations	LDW-Y1-SC-ENR-CC-CORE	7/6/2018	**65.2**	**10.5**	**9.8**	**6.7**	**1.9**	**1.2**	**0.9**	**1.3**	**1.1**	**0.6**	**0.2**	**0.2**	**0.5**	**4.8**
Scour	ENR+AC	Composite of "A" Locations	LDW-Y1-SC-ENR+AC-CA-CORE	7/6/2018	**55.2**	**11.3**	**15.6**	**11.1**	**2.5**	**0.7**	**0.9**	**0.6**	**0.7**	**0.5**	**0.2**	**0.1**	**0.5**	**3.5**
Scour	ENR+AC	Composite of "B" Locations	LDW-Y1-SC-ENR+AC-CB-CORE	7/6/2018	**66.6**	**9.7**	**10.5**	**7.9**	**1.9**	**0.7**	**0.9**	**0.5**	**0.5**	**0.3**	**0.1**	**0.1**	**0.4**	**2.7**
Scour	ENR+AC	Composite of "C" Locations	LDW-Y1-SC-ENR+AC-CC-CORE	7/6/2018	**69.8**	**8.4**	**10.2**	**7.3**	**1.9**	**0.5**	**0.6**	**0.3**	**0.4**	**0.2**	**0.1**	**0.1**	**0.3**	**2.0**
Intertidal	ENR	Composite of "A" Locations	LDW-Y1-IN-ENR-CA-CORE	7/6/2018	**50.5**	**12.1**	**15.4**	**13.7**	**4.1**	**1.4**	**1.2**	**0.5**	**0.5**	**0.3**	**0.1**	**0.1**	**0.1**	**2.7**
					49.6	**11.5**	**16.2**	**14.2**	**4.3**	**1.3**	**1.1**	**0.8**	**0.5**	**0.2**	**0.2**	**0.0**	**0.1**	**2.9**
					50.1	**12.2**	**16.0**	**13.9**	**4.0**	**1.3**	**1.2**	**0.6**	**0.3**	**0.1**	**0.0**	**0.1**	**0.1**	**2.5**
Intertidal	ENR	Composite of "B" Locations	LDW-Y1-IN-ENR-CB-CORE	7/6/2018	**60.9**	**9.8**	**12.3**	**10.0**	**2.7**	**1.0**	**0.9**	**0.9**	**0.7**	**0.3**	**0.2**	**0.1**	**0.2**	**3.3**
Intertidal	ENR	Composite of "C" Locations	LDW-Y1-IN-ENR-CC-CORE	7/6/2018	**53.5**	**12.7**	**14.2**	**10.6**	**3.2**	**1.7**	**0.2**	**1.7**	**1.1**	**0.5**	**0.3**	**0.1**	**0.3**	**4.1**
Intertidal	ENR+AC	Composite of "A" Locations	LDW-Y1-IN-ENR+AC-CA-CORE	7/6/2018	**58.8**	**11.8**	**14.1**	**9.2**	**2.8**	**1.6**	**<1.9**	**<1.9**	**<1.9**	**<1.9**	**<1.9**	**<1.9**	**<1.9**	**1.9**
Intertidal	ENR+AC	Composite of "B" Locations	LDW-Y1-IN-ENR+AC-CB-CORE	7/6/2018	**63.8**	**11.6**	**12.3**	**8.1**	**1.7**	**0.8**	**0.7**	**0.4**	**0.3**	**0.2**	**0.1**	**0.1**	**0.2**	**1.8**
Intertidal	ENR+AC	Composite of "C" Locations	LDW-Y1-IN-ENR+AC-CC-CORE	7/6/2018	**56.7**	**11.5**	**15.9**	**10.0**	**2.2**	**1.3**	**1.0**	**0.5**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**2.2**

Notes:

1. Samples collected from the intertidal and scour plots were sieved with a #4 sieve prior to analysis to remove the gravel fraction as the ENR substrate for those plots is gravelly sand. Samples from the subtidal plots were not sieved with a #4 sieve prior to analysis as the ENR substrate for that plot was sand only. AC, TOC, and grain size results were corrected to account for the mass of material removed by the #4 sieve (the gravel fraction). Reportable results for AC, TOC, and grain size are bolded/shaded.
2. Samples LDW-Y1-SU-ENR-CA-CORE and LDW-Y1-IN-ENR-CA-CORE were analyzed in triplicate for grain size only. Sample LDW-Y1-SC-ENR+AC-CC-CORE was analyzed in duplicate for AC only.

BOLD Bolded/shaded values are the reportable value for AC, TOC and grain size. Subtidal samples were not sieved, and thus did not need the correction that the scour and intertidal samples needed to include the gravel fraction removed prior to analysis.

3. Material retained above #10 sieve identified as gravel, previous sampling events identified material retained above #4 sieve as gravel and material retained on #10 sieve as coarse sand.

Abbreviations:

AC = Activated carbon
ENR = Enhanced natural recovery
ENR +AC = Enhanced natural recovery amended with activated carbon.
g = gram(s)
N/A = Not applicable
RPD = Relative percent difference
TOC = Total organic carbon

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SU-ENR-CA-CORE	LDW-Y1-SU-ENR-CB-CORE	LDW-Y1-SU-ENR-CC-CORE	LDW-Y1-SU-ENR+AC-CA-CORE	LDW-Y1-SU-ENR+AC-CB-CORE	LDW-Y1-SU-ENR+AC-CC-CORE	LDW-Y1-SC-ENR-CA-CORE	LDW-Y1-SC-ENR-CB-CORE	LDW-Y1-SC-ENR-CC-CORE
	UseDate	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
	SubPlot	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	76300	45000	26800	48500	31100	40600	18400	57800	21100
PCB-001	pg/g	47.1	11.4	24.4	31.4	11.3	28	6.4	5.24	5.94
PCB-002	pg/g	4.46	2.11 J	2.86 J	6.73	2.54 J	3.95 J	2.66 J	2.62 J	2.42 J
PCB-003	pg/g	14.9	7.12	24.8	26.4	7.63	21.8	5.9	6.46	5.44
PCB-004	pg/g	164	72.4	69.7	97.1	54.9	67.5	17.1	20.9	19.4
PCB-005	pg/g	15.4	11.6	11.9	5.74	4.67	5.34	2.46 J	4.08	3.06 J
PCB-006	pg/g	124	74.5	77.8	119	75.5	71.7	26.1	29.2	28.9
PCB-007	pg/g	27.4	11.2	17	13.4	15.5	12.9	5.85	6.79	5.41
PCB-008	pg/g	473	261	283	348	266	245	107	125	108
PCB-009	pg/g	23.4	14.9	13.9	19	10.7	22.4	4.55	5.18	5.5
PCB-010	pg/g	9.18	4.29	5.19	6.33	5.15	5.89	1.7 J	1.59 J	1.91 J
PCB-011	pg/g	14.7	9.89	8.67	13.5	14	13.8	29.3	17.4	15.2
PCB-012	pg/g	22.7	13.8	14.5	21.4	8.91	25	7.67	10.5	6.56
PCB-013	pg/g	21	13.8	16	19.3	25.1	10	5.98	10.3	9.81
PCB-014	pg/g	1.05 U	0.969 U	0.893 U	1.01 U	0.81 U	1.11 U	2.85 U	0.744 U	0.83 U
PCB-015	pg/g	232	122	127	185	161	128	73.4	95.1	71
PCB-016	pg/g	270	125	122	193	130	118	32.3	45.5	50.9
PCB-017	pg/g	420	204	194	314	219	206	66.9	82.3	65.3
PCB-018	pg/g	921	450	427	692	457	435	135	182	142
PCB-019	pg/g	72.7	34	31.8	46.5	33	33	10.4	13.5	13.3
PCB-020	pg/g	541 C	308 C	246 C	491 C	420 C	423 C	145 C	202 C	133 C
PCB-021	pg/g	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-022	pg/g	301	183	145	303	252	254	89.9	119	86.6
PCB-023	pg/g	1.35 J	0.784 U	0.667 U	1.25 U	1.01 U	1.26 U	0.756 U	0.591 U	0.769 U
PCB-024	pg/g	33.6	21.8	18.7	32.5	20.6	16.8	8.84	10.6	8.41
PCB-025	pg/g	90.6	56.2	48.1	90.6	76.5	82.9	28.7	40.1	27.7
PCB-026	pg/g	199	118	102	204	157	174	60.2	75.8	56.7
PCB-027	pg/g	47.8	20.2	18.2	28.2	21.4	23.5	8.21	10.4	8.96
PCB-028	pg/g	790	496	385	877	718	750	195	327	256
PCB-029	pg/g	7.46	4.74	3.57 J	7.85	6.88	6.54	0.862 U	2.69 J	2.5 J
PCB-030	pg/g	0.813 U	0.713 U	0.692 U	0.985 U	3.01 U	1 U	0.972 U	0.512 U	1.04 U
PCB-031	pg/g	954	544	447	762	696	686	353	357	233
PCB-032	pg/g	302	163	152	233	155	152	65.7	82.1	50.7
PCB-033	pg/g	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-034	pg/g	8.19	4.85	4.5	9.68	6.9	7.64	0.812 U	2.93 J	2.25 J
PCB-035	pg/g	23	12.1	10.4	17	15.3	18.1	1.01 U	11.6	7.17
PCB-036	pg/g	0.629 U	0.982 U	0.836 U	1.35 U	1.09 U	1.36 U	0.947 U	0.741 U	0.963 U
PCB-037	pg/g	290	176	137	240	198	169	97	117	85.4
PCB-038	pg/g	11.1	7.19	5.86	4.28	1.06 U	1.32 U	0.816 U	0.638 U	3.5 J
PCB-039	pg/g	0.716 U	1.12 U	0.951 U	1.3 U	1.04 U	1.31 U	1.08 U	0.843 U	1.1 U
PCB-040	pg/g	280	173	112	125	101	95.6	35	63.8	56.8
PCB-041	pg/g	1640 C	823 C	578 C	690 C	513 C	486 C	172 C	425 C	329 C
PCB-042	pg/g	635 C	304 C	250 C	321 C	227 C	226 C	93.4 C	175 C	130 C
PCB-043	pg/g	1910 C	963 C	767 C	1040 C	726 C	898 C	358 C	656 C	366 C
PCB-044	pg/g	2190	1260	649	924	684	712	327	859	378
PCB-045	pg/g	209	105	86.9	133	103	98.1	43.8	57.9	40.6
PCB-046	pg/g	84.4	42.4	33.4	55.9	40	40.3	15.2	24.8	16.9

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

SampID		LDW-Y1-SU-ENR-CA-CORE	LDW-Y1-SU-ENR-CB-CORE	LDW-Y1-SU-ENR-CC-CORE	LDW-Y1-SU-ENR+AC-CA-CORE	LDW-Y1-SU-ENR+AC-CB-CORE	LDW-Y1-SU-ENR+AC-CC-CORE	LDW-Y1-SC-ENR-CA-CORE	LDW-Y1-SC-ENR-CB-CORE	LDW-Y1-SC-ENR-CC-CORE
UseDate		5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	7/6/2018	7/6/2018	7/6/2018
Plot		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
SubPlot		ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	76300	45000	26800	48500	31100	40600	18400	57800	21100
PCB-047	pg/g	479	258	225	241	190	203	114	150	114
PCB-048	pg/g	368 C	175 C	141 C	246 C	177 C	189 C	26.7 C	105 C	82.2 C
PCB-049	pg/g	C043	C043	C043	C043	C043	C043	C043	C043	C043
PCB-050	pg/g	5.63	3.1 J	2.81 J	3.49 J	3.24 J	3.94 J	1.37 U	0.886 U	1.1 U
PCB-051	pg/g	69	33.5	27.6	43.4	33.8	35.3	18.3	22.7	18.7
PCB-052	pg/g	3450 C	1900 C	834 C	1340 C	942 C	1140 C	460 C	1570 C	529 C
PCB-053	pg/g	219	117	82.9	131	99.4	106	44.4	79.8	47.9
PCB-054	pg/g	3.19 J	2.17 J	1.38 J	2.48 J	1.71 J	1.83 J	0.869 U	0.563 U	0.702 U
PCB-055	pg/g	55.6	33.6	18.2	22.6	19.2	19.2	8.28	25.5	13.1
PCB-056	pg/g	890 C	533 C	344 C	644 C	501 C	528 C	234 C	361 C	240 C
PCB-057	pg/g	14.7	6.58	6.15	7.99	5.93	6.97	1.02 U	3.85 J	3.52 J
PCB-058	pg/g	8.49	3.2 J	6.55	5.54	3.53 J	5.41	8.48	1.87 J	1.68 J
PCB-059	pg/g	C042	C042	C042	C042	C042	C042	C042	C042	C042
PCB-060	pg/g	C056	C056	C056	C056	C056	C056	C056	C056	C056
PCB-061	pg/g	2740 C	1510 C	729 C	1190 C	928 C	1050 C	544 C	1220 C	481 C
PCB-062	pg/g	0.692 U	0.811 U	0.93 U	0.765 U	0.844 U	1.08 U	1.02 U	0.658 U	0.82 U
PCB-063	pg/g	79.5	39.7	30.1	44.7	34.5	39.9	15.2	27.8	16.9
PCB-064	pg/g	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-065	pg/g	0.662 U	0.776 U	0.889 U	0.84 U	0.927 U	1.19 U	0.971 U	0.629 U	0.785 U
PCB-066	pg/g	1940 C	1080 C	755 C	1090 C	812 C	886 C	412 C	822 C	470 C
PCB-067	pg/g	57.3	29	22.8	42.1	29.4	35.7	6.15	19.8	16.2
PCB-068	pg/g	15.1	10.1	12.6	9.27	6.13	11.2	0.954 U	1.8 J	3.89 J
PCB-069	pg/g	C052	C052	C052	C052	C052	C052	C052	C052	C052
PCB-070	pg/g	C061	C061	C061	C061	C061	C061	C061	C061	C061
PCB-071	pg/g	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-072	pg/g	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-073	pg/g	0.768 U	0.902 U	1.03 U	0.753 U	0.831 U	1.07 U	1.13 U	0.731 U	0.911 U
PCB-074	pg/g	889	482	320	523	405	439	193	368	189
PCB-075	pg/g	C048	C048	C048	C048	C048	C048	C048	C048	C048
PCB-076	pg/g	C066	C066	C066	C066	C066	C066	C066	C066	C066
PCB-077	pg/g	166	91.7	62.8	103	78	75	45.5	106	44.9
PCB-078	pg/g	0.801 U	0.62 U	0.695 U	1.05 U	0.894 U	1.4 U	1.38 U	0.614 U	0.773 U
PCB-079	pg/g	49.3	35.8	19.5	17.6	12.4	18.8	11	29.5	12.2
PCB-080	pg/g	0.609 U	0.714 U	0.818 U	0.696 U	0.768 U	5.51	0.894 U	4.21	0.722 U
PCB-081	pg/g	93.7	61.1	22.2	27	19	20.3	10.3	53.3	17.9
PCB-082	pg/g	521	342	126	289	191	225	111	303	90
PCB-083	pg/g	189 C	121 C	60.3 C	122 C	70.9 C	86.8 C	43.5 C	117 C	35.7 C
PCB-084	pg/g	1830 C	1160 C	522 C	1070 C	622 C	816 C	448 C	1120 C	340 C
PCB-085	pg/g	599 C	415 C	164 C	372 C	238 C	278 C	157 C	375 C	123 C
PCB-086	pg/g	1.6 U	1.78 U	0.985 U	1.76 U	0.909 U	1.82 U	1.15 U	0.841 U	0.925 U
PCB-087	pg/g	1690 C	1090 C	385 C	846 C	555 C	602 C	243 C	1100 C	304 C
PCB-088	pg/g	517 C	352 C	150 C	268 C	174 C	231 C	12.8 C	286 C	107 C
PCB-089	pg/g	48.5	33.4	14.6	31.1	20	24.4	7.24	23.6	9.12
PCB-090	pg/g	4370 C	2770 C	1290 C	2510 C	1540 C	1970 C	1100 C	3130 C	926 C
PCB-091	pg/g	C088	C088	C088	C088	C088	C088	C088	C088	C088
PCB-092	pg/g	C084	C084	C084	C084	C084	C084	C084	C084	C084
PCB-093	pg/g	1.22 U	1.45 U	1.09 U	1.16 U	1.01 U	1.18 U	1.7 U	1.24 U	1.49 U

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SU-ENR-CA-CORE	LDW-Y1-SU-ENR-CB-CORE	LDW-Y1-SU-ENR-CC-CORE	LDW-Y1-SU-ENR+AC-CA-CORE	LDW-Y1-SU-ENR+AC-CB-CORE	LDW-Y1-SU-ENR+AC-CC-CORE	LDW-Y1-SC-ENR-CA-CORE	LDW-Y1-SC-ENR-CB-CORE	LDW-Y1-SC-ENR-CC-CORE
	UseDate	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
	SubPlot	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	76300	45000	26800	48500	31100	40600	18400	57800	21100
PCB-094	pg/g	15.7	11.8	5.89	9.23	6.16	7.94	4.43	9.18	3.22 J
PCB-095	pg/g	3400	2210	885	1530	917	1280	650	2130	624
PCB-096	pg/g	32.7	22.3	9.38	14.4	9.45	9.45	4.48	12.4	5.06
PCB-097	pg/g	1080	697	302	637	390	457	295	665	203
PCB-098	pg/g	0.977 UC	1.16 UC	0.873 UC	0.933 UC	0.81 UC	0.943 UC	1.36 UC	0.992 UC	1.19 UC
PCB-099	pg/g	1560	1050	556	1090	636	866	427	973	363
PCB-100	pg/g	13.1	8.67	6.59	11.4	6.63	11.2	7.07	9.06	7.18
PCB-101	pg/g	C090	C090	C090	C090	C090	C090	C090	C090	C090
PCB-102	pg/g	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098
PCB-103	pg/g	33.7	19.2	20.6	35.7	16.1	39.9	13.1	20.3	18.7
PCB-104	pg/g	0.781 U	0.929 U	0.698 U	0.744 U	0.646 U	0.752 U	1.09 U	0.794 U	0.949 U
PCB-105	pg/g	1620	1070	368	799	553	609	301	871	319
PCB-106	pg/g	4190 C	2530 C	1170 C	1990 C	1280 C	1580 C	800 C	2420 C	879 C
PCB-107	pg/g	272 C	169 C	95.3 C	165 C	102 C	142 C	49.6 C	154 C	61.4 C
PCB-108	pg/g	C107	C107	C107	C107	C107	C107	C107	C107	C107
PCB-109	pg/g	1.33 U	1.48 U	0.818 U	1.28 U	0.659 U	1.32 U	0.953 U	0.698 U	0.768 U
PCB-110	pg/g	4260	2730	1210	2140	1310	1590	744	2840	819
PCB-111	pg/g	80.7 C	59 C	20.3 C	38.4 C	29.6 C	21.4 C	11.2 C	51.3 C	13.5 C
PCB-112	pg/g	C083	C083	C083	C083	C083	C083	C083	C083	C083
PCB-113	pg/g	1.54 U	1.72 U	0.951 U	1.45 U	0.748 U	1.5 U	1.11 U	0.811 U	0.893 U
PCB-114	pg/g	94.6	81.8	25.6	50.9	33.6	35.7	17.3	57	20.7
PCB-115	pg/g	C111	C111	C111	C111	C111	C111	C111	C111	C111
PCB-116	pg/g	C085	C085	C085	C085	C085	C085	C085	C085	C085
PCB-117	pg/g	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-118	pg/g	C106	C106	C106	C106	C106	C106	C106	C106	C106
PCB-119	pg/g	77.6	45.1	46.9	75	35.6	67.4	44.1	50.6	25.1
PCB-120	pg/g	7.08	5.5	0.76 U	4.96	2.88 J	1.38 U	0.885 U	9.65	0.713 U
PCB-121	pg/g	0.888 U	1.06 U	0.793 U	0.762 U	0.662 U	0.77 U	64	0.902 U	1.08 U
PCB-122	pg/g	54.8	37.4	13.8	23.4	16.2	22	10	32.8	14
PCB-123	pg/g	43.6	39.4	13.5	28.3	15.3	23.7	15.1	32.2	10.8
PCB-124	pg/g	183	113	40.6	89.1	59.7	66.3	32	115	41.7
PCB-125	pg/g	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-126	pg/g	18	10.2	4.64	8.86	7.21	7.27	3.78 J	15	5.61
PCB-127	pg/g	0.971 U	0.976 U	0.846 U	1.35 U	1.21 U	1.38 U	1.17 U	0.733 U	0.606 U
PCB-128	pg/g	734 C	440 C	202 C	388 C	254 C	313 C	134 C	505 C	191 C
PCB-129	pg/g	272	169	66.9	119	78.6	91.1	27.2	159	51.3
PCB-130	pg/g	297	152	80.8	170	94.3	154	35.1	191	79.6
PCB-131	pg/g	131 C	69.8 C	40.5 C	80.3 C	47.1 C	75.1 C	23.5 C	87.5 C	36.7 C
PCB-132	pg/g	1270 C	705 C	405 C	724 C	441 C	627 C	270 C	1040 C	334 C
PCB-133	pg/g	C131	C131	C131	C131	C131	C131	C131	C131	C131
PCB-134	pg/g	230 C	138 C	70.5 C	129 C	81.6 C	114 C	39.2 C	176 C	60 C
PCB-135	pg/g	436	244	159	354	198	317	93.6	422	148
PCB-136	pg/g	654	384	229	406	230	350	177	696	206
PCB-137	pg/g	265	177	69.5	113	74.6	90.4	48.2	176	52.7
PCB-138	pg/g	3850 C	2150 C	1180 C	2320 C	1430 C	1970 C	810 C	3330 C	1210 C
PCB-139	pg/g	2790 C	1530 C	1040 C	2070 C	1170 C	1910 C	712 C	3120 C	979 C
PCB-140	pg/g	32.2	0.931 U	13.6	21.4	1.29 U	30.1	3.89 J	0.526 U	13.2

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SU-ENR-CA-CORE	LDW-Y1-SU-ENR-CB-CORE	LDW-Y1-SU-ENR-CC-CORE	LDW-Y1-SU-ENR+AC-CA-CORE	LDW-Y1-SU-ENR+AC-CB-CORE	LDW-Y1-SU-ENR+AC-CC-CORE	LDW-Y1-SC-ENR-CA-CORE	LDW-Y1-SC-ENR-CB-CORE	LDW-Y1-SC-ENR-CC-CORE
	UseDate	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
	SubPlot	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	76300	45000	26800	48500	31100	40600	18400	57800	21100
PCB-141	pg/g	725	405	222	442	276	353	138	824	203
PCB-142	pg/g	1.07 U	1.1 U	1.48 U	1.43 U	1.51 U	1.66 U	1.39 U	0.623 U	1.14 U
PCB-143	pg/g	C134	C134	C134	C134	C134	C134	C134	C134	C134
PCB-144	pg/g	214	91.7	58.8	132	69.5	112	34.9	210	61.7
PCB-145	pg/g	2.3 J	1.48 J	0.608 U	0.675 U	0.619 U	0.942 U	0.941 U	0.984 U	0.572 U
PCB-146	pg/g	481 C	272 C	207 C	398 C	206 C	406 C	113 C	453 C	206 C
PCB-147	pg/g	87.2	48.1	24.4	49.1	28.4	44.9	13.9	45.4	25
PCB-148	pg/g	1.16 U	1.05 U	0.768 U	0.882 U	0.809 U	1.23 U	1.19 U	1.24 U	0.723 U
PCB-149	pg/g	C139	C139	C139	C139	C139	C139	C139	C139	C139
PCB-150	pg/g	7.39	4.6	4.36	6.75	4.08	7.78	6.77	8.07	7.6
PCB-151	pg/g	755	380	305	664	360	634	211	1070	304
PCB-152	pg/g	5.66	4.32	0.636 U	3.15 J	2.5 J	0.953 U	0.985 U	3.98 J	0.599 U
PCB-153	pg/g	3220	1740	1200	2370	1380	2160	766	3360	1310
PCB-154	pg/g	53	30	28.4	54.5	25	68.7	24.7	41.7	38.9
PCB-155	pg/g	0.819 U	0.744 U	0.544 U	0.595 U	0.545 U	0.83 U	0.842 U	0.88 U	0.512 U
PCB-156	pg/g	547	339	141	273	179	205	118	366	132
PCB-157	pg/g	113	74.7	28.5	53.9	35.2	41.4	24.5	63.4	26.1
PCB-158	pg/g	525 C	313 C	154 C	263 C	176 C	220 C	59 C	396 C	137 C
PCB-159	pg/g	21	12.5	11.2	25.4	14.3	27	6.35	43.8	15.2
PCB-160	pg/g	C158	C158	C158	C158	C158	C158	C158	C158	C158
PCB-161	pg/g	C132	C132	C132	C132	C132	C132	C132	C132	C132
PCB-162	pg/g	C128	C128	C128	C128	C128	C128	C128	C128	C128
PCB-163	pg/g	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-164	pg/g	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-165	pg/g	C146	C146	C146	C146	C146	C146	C146	C146	C146
PCB-166	pg/g	24.4	14	6.29	11.1	6.16	7.71	2.97 J	11.6	3.8 J
PCB-167	pg/g	211	117	56.7	109	67.3	77.6	46.9	154	68.5
PCB-168	pg/g	0.751 U	0.775 U	1.04 U	0.94 U	0.992 U	1.09 U	0.979 U	0.438 U	0.802 U
PCB-169	pg/g	0.716 U	0.686 U	0.902 U	1.01 U	1.05 U	1.18 U	0.932 U	0.4 U	0.735 U
PCB-170	pg/g	749	483	381	729	435	652	428	1390	451
PCB-171	pg/g	216	127	104	200	118	185	105	391	122
PCB-172	pg/g	121	71.3	64.7	132	71.6	120	76.2	252	71.7
PCB-173	pg/g	23.3	12.8	10.2	16.4	8.72	13.4	1.47 U	29.3	9.53
PCB-174	pg/g	596	373	344	676	363	603	395	1330	361
PCB-175	pg/g	26.8	20.2	17.8	30.2	16.2	29.4	1.29 U	54.2	17.9
PCB-176	pg/g	88.5	49.3	50.4	105	52.2	103	40.7	185	53.4
PCB-177	pg/g	420	249	235	469	260	441	271	837	281
PCB-178	pg/g	131	74.4	79.9	156	86.9	155	72.8	302	94.8
PCB-179	pg/g	252	152	152	327	176	306	120	587	168
PCB-180	pg/g	1080	725	648	1240	708	1170	774	2540	727
PCB-181	pg/g	1.34 U	1.23 U	0.933 U	1.02 U	0.96 U	0.834 U	1.27 U	0.68 U	1.36 U
PCB-182	pg/g	657 C	402 C	443 C	873 C	477 C	878 C	337 C	1560 C	517 C
PCB-183	pg/g	377	238	223	437	239	407	241	817	273
PCB-184	pg/g	0.906 U	0.837 U	0.633 U	0.721 U	0.677 U	0.588 U	0.86 U	0.461 U	0.924 U
PCB-185	pg/g	63.4	43.2	41.7	77.4	47.6	67.7	39.5	172	42.3
PCB-186	pg/g	0.965 U	0.892 U	0.674 U	0.789 U	0.74 U	0.643 U	0.916 U	0.491 U	0.985 U
PCB-187	pg/g	C182	C182	C182	C182	C182	C182	C182	C182	C182

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SU-ENR-CA-CORE	LDW-Y1-SU-ENR-CB-CORE	LDW-Y1-SU-ENR-CC-CORE	LDW-Y1-SU-ENR+AC-CA-CORE	LDW-Y1-SU-ENR+AC-CB-CORE	LDW-Y1-SU-ENR+AC-CC-CORE	LDW-Y1-SC-ENR-CA-CORE	LDW-Y1-SC-ENR-CB-CORE	LDW-Y1-SC-ENR-CC-CORE
	UseDate	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
	SubPlot	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	76300	45000	26800	48500	31100	40600	18400	57800	21100
PCB-188	pg/g	1.11 U	1.04 U	0.787 U	0.738 U	0.763 U	3.26 J	1.14 U	0.581 U	2.34 J
PCB-189	pg/g	29.5	17	13	25.5	15.6	23.9	12.4	45.1	15
PCB-190	pg/g	163	106	82.3	171	99.4	147	83.9	302	102
PCB-191	pg/g	39.5	19.8	17.7	31.1	18.3	32.7	15.5	64.1	22.1
PCB-192	pg/g	1.04 U	0.96 U	0.726 U	0.83 U	0.779 U	0.677 U	0.987 U	0.529 U	1.06 U
PCB-193	pg/g	81.9	52.7	49.2	96.6	48.2	93	46.9	166	63
PCB-194	pg/g	204	153	176	407	202	379	185	546	174
PCB-195	pg/g	95.6	62.3	67.7	173	87.3	158	92.2	313	85
PCB-196	pg/g	364 C	250 C	254 C	524 C	294 C	506 C	223 C,J	1020 C	350 C
PCB-197	pg/g	15.1	8.04	8.8	19.3	9.41	18.6	8.63 J	34.8	11
PCB-198	pg/g	21.8	14.4	11.6	26.5	14	20.1	3.97 J	57.3	12.8
PCB-199	pg/g	350	215	244	449	248	435	208 J	973	322
PCB-200	pg/g	40.3	26.5	29.1	63.3	34.7	57.8	22.1 J	118	35.6
PCB-201	pg/g	42.5	30.8	32	69.1	35	64.4	32 J	127	40
PCB-202	pg/g	51.9	38.5	39.7	88.2	47	85.7	44.8 J	139	49.3
PCB-203	pg/g	C196	C196	C196	C196	C196	C196	C196	C196	C196
PCB-204	pg/g	1.21 U	1.03 U	1.01 U	0.925 U	0.763 U	0.894 U	0.889 U	1.05 U	1.23 U
PCB-205	pg/g	12.7	7.72	9.4	21	10.6	20.3	9.99	38.1	10.2
PCB-206	pg/g	103	69.1	79.8	167	81	173	96.7	206	97.5
PCB-207	pg/g	15.9	9.81	10.3	26.1	12.1	25.6	13.1	29.8	13.9
PCB-208	pg/g	27.5	17	19.1	51	19.8	49.9	28.4	42	25.7
PCB-209	pg/g	40.6	25	36.6	130	27.4	108	35.8	41.5	37.6

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SC-ENR+AC-CA-CORE	LDW-Y1-SC-ENR+AC-CB-CORE	LDW-Y1-SC-ENR+AC-CC-CORE	LDW-Y1-IN-ENR-CA-CORE	LDW-Y1-IN-ENR-CB-CORE	LDW-Y1-IN-ENR-CC-CORE	LDW-Y1-IN-ENR+AC-CA-CORE	LDW-Y1-IN-ENR+AC-CB-CORE	LDW-Y1-IN-ENR+AC-CC-CORE
	UseDate	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
	SubPlot	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	15000	24900	14200	5100	8150	12800	4000	7520	5400
PCB-001	pg/g	82.3	8.66	4.44	11.6	19.4	18.2	13.6	21.6	7.97
PCB-002	pg/g	12	2.66 J	0.891 U	2.39 J	4.21	3.89 J	1.81 J	2.5 J	1.95 J
PCB-003	pg/g	48.4	7.35	4.64	9.63	18	15.7	5.07	7.15	6.09
PCB-004	pg/g	33.9	27.1	18	9.11	15.9	13.4	12.2	13	10
PCB-005	pg/g	6.82	7.1	1.49 U	1.46 J	4.27	4.23	2.8 J	5.96	2.56 J
PCB-006	pg/g	41	48	30.9	13.6	20.1	25.6	12.3	18.2	16.9
PCB-007	pg/g	12.4	8.81	1.41 U	3.13 J	6.03	6.56	2.09 J	5.72	3.37 J
PCB-008	pg/g	144	152	91.8	32.6	57.8	62.6	25.7	43.1	30.6
PCB-009	pg/g	12.1	9	1.52 U	2.7 J	5.04	3.42 J	3.81 J	4.1	2.6 J
PCB-010	pg/g	4.39	4.45	1.62 U	1.07 J	2.66 J	2.39 J	1.27 J	2.87 J	1.95 J
PCB-011	pg/g	16.1	19.7	21.5	5.17	7.8	9.18	7.56	7.17	7.8
PCB-012	pg/g	10.8	7.35	12.7	2.76 J	10.2	4.9	2.26 J	3.18 J	4.61
PCB-013	pg/g	14.1	15.2	7.19	4.85	5.05	10.2	3.4 J	2.16 J	3.83 J
PCB-014	pg/g	0.783 U	0.643 U	1.61 U	0.639 U	0.475 U	0.77 U	0.47 U	0.745 U	0.61 U
PCB-015	pg/g	67.4	81	81.2	24.1	39.5	40.8	14.8	18.7	17.6
PCB-016	pg/g	38.7	61.6	33.1	7.01	11.6	21	6.15	13.8	12.6
PCB-017	pg/g	66.8	92.3	52.9	12.9	14.1	34.2	14	25.2	17.6
PCB-018	pg/g	143	210	111	28.4	31.1	73.6	33.1	56.5	39.7
PCB-019	pg/g	12.4	16.4	10.3	2.88 J	3.64 J	6.07	4.23	6.48	4.72
PCB-020	pg/g	107 C	175 C	106 C	24.3 C	30 C	64.7 C	19.4 C	46 C	23.3 C
PCB-021	pg/g	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-022	pg/g	68.2	109	65.2	14.5	18.4	39.7	12.7	28.6	14.7
PCB-023	pg/g	0.654 U	0.692 U	0.701 U	0.814 U	0.414 U	0.668 U	0.55 U	0.624 U	0.716 U
PCB-024	pg/g	8.58	9.84	6.58	1.61 J	2.58 J	4.23	2.37 J	1.67 J	2.26 J
PCB-025	pg/g	22.5	39.5	22.1	11.7	12.9	30.1	8.04	21.5	15.9
PCB-026	pg/g	44.6	76.5	44.8	28.8	31.5	71.2	21	65.1	52.5
PCB-027	pg/g	8.65	13.8	6.34	2.46 J	2.03 J	6.27	2.47 J	4.47	2.98 J
PCB-028	pg/g	201	294	167	46.2	48.5	119	41.2	82.1	47.7
PCB-029	pg/g	1.79 J	2.73 J	0.799 U	0.781 U	0.397 U	0.64 U	0.528 U	0.599 U	0.687 U
PCB-030	pg/g	0.966 U	0.545 U	1.2 U	1.05 U	0.475 U	0.748 U	0.523 U	0.549 U	0.837 U
PCB-031	pg/g	201	294	204	41.7	53.5	113	37	83.3	47.5
PCB-032	pg/g	53.5	78.8	43	10.6	7.84	22.4	11.3	16.8	10.8
PCB-033	pg/g	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-034	pg/g	2.13 J	2.59 J	0.752 U	0.809 U	0.411 U	0.663 U	0.546 U	0.62 U	0.712 U
PCB-035	pg/g	4.84	6.99	4.04	0.902 U	0.459 U	0.739 U	0.609 U	0.691 U	0.793 U
PCB-036	pg/g	0.819 U	0.867 U	0.878 U	0.858 U	0.437 U	0.704 U	0.58 U	0.658 U	0.755 U
PCB-037	pg/g	59.8	95.9	51.5	18.3	25	40.3	11.1	18.9	13.4
PCB-038	pg/g	0.706 U	0.531 U	0.757 U	0.81 U	0.412 U	0.664 U	0.547 U	0.621 U	0.713 U
PCB-039	pg/g	0.932 U	0.987 U	0.999 U	0.815 U	0.415 U	0.668 U	0.551 U	0.625 U	0.717 U
PCB-040	pg/g	58.3	77.3	45.1	10	11.8	6.38	9.09	16.8	9.02
PCB-041	pg/g	265 C	421 C	225 C	51.2 C	92.2 C	126 C	47 C	90.7 C	61.5 C
PCB-042	pg/g	107 C	167 C	95.8 C	19.7 C	31.4 C	58.2 C	17.5 C	36.1 C	28.9 C
PCB-043	pg/g	275 C	447 C	260 C	82.4 C	136 C	242 C	73.9 C	164 C	115 C
PCB-044	pg/g	261	432	249	73	146	207	68.8	143	94.1
PCB-045	pg/g	37.1	56.4	32.2	6.08	8.73	17.7	5.75	13	6.57
PCB-046	pg/g	14.1	23	14.2	0.973 U	4.42	7.83	2.79 J	5.49	2.6 J

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SC-ENR+AC-CA-CORE	LDW-Y1-SC-ENR+AC-CB-CORE	LDW-Y1-SC-ENR+AC-CC-CORE	LDW-Y1-IN-ENR-CA-CORE	LDW-Y1-IN-ENR-CB-CORE	LDW-Y1-IN-ENR-CC-CORE	LDW-Y1-IN-ENR+AC-CA-CORE	LDW-Y1-IN-ENR+AC-CB-CORE	LDW-Y1-IN-ENR+AC-CC-CORE
	UseDate	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
	SubPlot	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	15000	24900	14200	5100	8150	12800	4000	7520	5400
PCB-047	pg/g	94.2	151	92.2	19.3	29.3	57.6	19.9	37.5	25.4
PCB-048	pg/g	58.8 C	94.8 C	45.4 C	9.87 C	15.4 C	34.9 C	9.63 C	16.7 C	11.9 C
PCB-049	pg/g	C043	C043	C043	C043	C043	C043	C043	C043	C043
PCB-050	pg/g	1.19 U	1.47 U	1.46 U	0.816 U	1.04 U	0.986 U	0.626 U	0.869 U	0.972 U
PCB-051	pg/g	17	23.6	14.4	3.11 J	5.19	6.4	2.59 J	4.36	3.79 J
PCB-052	pg/g	366 C	563 C	318 C	138 C	273 C	367 C	122 C	261 C	193 C
PCB-053	pg/g	42.2	64.3	36.4	7.92	14.9	24.3	8.49	15.7	9.12
PCB-054	pg/g	0.755 U	0.937 U	0.929 U	0.621 U	0.788 U	0.75 U	0.476 U	0.661 U	0.74 U
PCB-055	pg/g	10.4	16.2	9.74	3.56 J	4.37	7.22	2.73 J	6.91	3.77 J
PCB-056	pg/g	190 C	284 C	153 C	38.7 C	65.1 C	102 C	30.4 C	68 C	39.2 C
PCB-057	pg/g	2.53 J	4.43	2.46 J	0.664 U	1.91 J	0.803 U	1.33 J	3.84 J	2.43 J
PCB-058	pg/g	1.98 J	2.71 J	2.22 J	0.639 U	0.812 U	1.79 J	0.491 U	1.74 J	0.762 U
PCB-059	pg/g	C042	C042	C042	C042	C042	C042	C042	C042	C042
PCB-060	pg/g	C056	C056	C056	C056	C056	C056	C056	C056	C056
PCB-061	pg/g	352 C	562 C	339 C	106 C	186 C	280 C	79.8 C	146 C	111 C
PCB-062	pg/g	0.882 U	1.09 U	1.09 U	0.622 U	0.79 U	0.752 U	0.477 U	0.662 U	0.741 U
PCB-063	pg/g	13.5	18.7	13.8	3.05 J	5.1	9.41	2.39 J	6.03	3.79 J
PCB-064	pg/g	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-065	pg/g	0.844 U	1.05 U	1.04 U	0.688 U	0.874 U	0.832 U	0.528 U	0.734 U	0.821 U
PCB-066	pg/g	362 C	526 C	345 C	89.2 C	132 C	224 C	65.6 C	130 C	80.3 C
PCB-067	pg/g	12.4	18.7	12.6	3.9 J	5.1	11.2	2.88 J	8.57	5.84
PCB-068	pg/g	4.52	4.25	3.78 J	2.58 J	1.98 J	0.708 U	1.6 J	3.72 J	2.33 J
PCB-069	pg/g	C052	C052	C052	C052	C052	C052	C052	C052	C052
PCB-070	pg/g	C061	C061	C061	C061	C061	C061	C061	C061	C061
PCB-071	pg/g	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-072	pg/g	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-073	pg/g	0.981 U	1.22 U	1.21 U	0.587 U	0.746 U	0.71 U	0.451 U	0.626 U	0.7 U
PCB-074	pg/g	139	226	137	37.7	64.3	103	28	56.5	33.8
PCB-075	pg/g	C048	C048	C048	C048	C048	C048	C048	C048	C048
PCB-076	pg/g	C066	C066	C066	C066	C066	C066	C066	C066	C066
PCB-077	pg/g	28	47	23.8	13.7	21	38.3	7.65	13.6	9.8
PCB-078	pg/g	0.914 U	0.579 U	1.49 U	0.876 U	0.672 U	0.732 U	0.704 U	1.77 U	0.953 U
PCB-079	pg/g	7.93	12.4	9.28	3.46 J	5.47	6.97	2.9 J	5.31	3.74 J
PCB-080	pg/g	0.777 U	0.964 U	0.956 U	0.577 U	0.733 U	0.698 U	0.443 U	0.615 U	0.688 U
PCB-081	pg/g	12.5	17.6	8.8	5.42	9.17	11.7	4.03	8.28	6.48
PCB-082	pg/g	61.8	92.1	66.3	31.5	56.2	86.8	25.4	53	34.5
PCB-083	pg/g	25.7 C	36.7 C	25.8 C	12.6 C	26 C	31.4 C	10.2 C	22.7 C	13.9 C
PCB-084	pg/g	218 C	327 C	238 C	119 C	237 C	287 C	93 C	200 C	130 C
PCB-085	pg/g	88.4 C	129 C	95.6 C	48.9 C	83.7 C	115 C	36.6 C	73.8 C	54.1 C
PCB-086	pg/g	1.33 U	1.3 U	1.5 U	1.56 U	1.28 U	1.03 U	0.936 U	1.61 U	1.61 U
PCB-087	pg/g	198 C	304 C	173 C	108 C	224 C	269 C	81.9 C	170 C	121 C
PCB-088	pg/g	90.7 C	114 C	82.2 C	32.1 C	59.5 C	68.1 C	28.6 C	58.7 C	31.8 C
PCB-089	pg/g	7.66	10.2	4.9	1.68 U	4.27	6.98	2.21 J	5.88	2.56 J
PCB-090	pg/g	569 C	874 C	620 C	267 C	554 C	649 C	215 C	428 C	295 C
PCB-091	pg/g	C088	C088	C088	C088	C088	C088	C088	C088	C088
PCB-092	pg/g	C084	C084	C084	C084	C084	C084	C084	C084	C084
PCB-093	pg/g	1.21 U	1.01 U	1.97 U	0.929 U	1.56 U	1.18 U	0.927 U	1.15 U	1.1 U

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SC-ENR+AC-CA-CORE	LDW-Y1-SC-ENR+AC-CB-CORE	LDW-Y1-SC-ENR+AC-CC-CORE	LDW-Y1-IN-ENR-CA-CORE	LDW-Y1-IN-ENR-CB-CORE	LDW-Y1-IN-ENR-CC-CORE	LDW-Y1-IN-ENR+AC-CA-CORE	LDW-Y1-IN-ENR+AC-CB-CORE	LDW-Y1-IN-ENR+AC-CC-CORE
	UseDate	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
	SubPlot	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	15000	24900	14200	5100	8150	12800	4000	7520	5400
PCB-094	pg/g	3.3 J	3.56 J	1.83 U	0.908 U	1.53 U	2.72 J	0.906 U	1.13 U	1.08 U
PCB-095	pg/g	467	616	462	203	367	414	165	348	193
PCB-096	pg/g	4.77	7.33	3.86 J	1.89 J	1.12 U	0.849 U	1.6 J	3.41 J	0.791 U
PCB-097	pg/g	132	204	142	73	146	174	56.2	112	77.8
PCB-098	pg/g	0.969 UC	0.805 UC	1.57 UC	0.735 UC	1.23 UC	0.935 UC	0.734 UC	0.914 UC	0.871 UC
PCB-099	pg/g	248	357	259	124	230	289	105	200	142
PCB-100	pg/g	5.65	7.08	5.48	2.01 J	2.62 J	3.67 J	0.763 U	2.44 J	0.906 U
PCB-101	pg/g	C090	C090	C090	C090	C090	C090	C090	C090	C090
PCB-102	pg/g	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098	U,C098
PCB-103	pg/g	10.9	16.8	9.93	3.07 J	4.12	7.6	1.92 J	5.49	3.26 J
PCB-104	pg/g	0.775 U	0.643 U	1.26 U	0.587 U	0.987 U	0.747 U	0.586 U	0.73 U	0.696 U
PCB-105	pg/g	193	340	170	119	193	324	72.9	138	112
PCB-106	pg/g	519 C	859 C	441 C	271 C	468 C	681 C	184 C	355 C	271 C
PCB-107	pg/g	35.2 C	60.4 C	34 C	21.3 C	32.4 C	52.3 C	14 C	27.8 C	19.4 C
PCB-108	pg/g	C107	C107	C107	C107	C107	C107	C107	C107	C107
PCB-109	pg/g	1.1 U	1.08 U	1.24 U	1.23 U	1 U	0.807 U	0.733 U	1.26 U	1.26 U
PCB-110	pg/g	536	830	540	302	532	727	224	458	324
PCB-111	pg/g	8.78 C	16.6 C	8.64 C	3.75 C,J	9.28 C	8.15 C	4.49 C	6.73 C	4.41 C
PCB-112	pg/g	C083	C083	C083	C083	C083	C083	C083	C083	C083
PCB-113	pg/g	1.28 U	1.26 U	1.44 U	1.3 U	1.07 U	0.858 U	0.779 U	1.34 U	1.34 U
PCB-114	pg/g	15.1	21	9.51	7.17	11.2	16.9	4.54	8.73	5.64
PCB-115	pg/g	C111	C111	C111	C111,J	C111	C111	C111	C111	C111
PCB-116	pg/g	C085	C085	C085	C085	C085	C085	C085	C085	C085
PCB-117	pg/g	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-118	pg/g	C106	C106	C106	C106	C106	C106	C106	C106	C106
PCB-119	pg/g	18.6	25.3	18.4	8.99	13.2	18.8	7.09	14.9	9.4
PCB-120	pg/g	3.09 J	1.01 U	1.15 U	1.19 U	0.972 U	0.783 U	0.711 U	1.23 U	1.22 U
PCB-121	pg/g	0.88 U	0.731 U	1.43 U	0.661 U	1.11 U	0.841 U	0.66 U	0.822 U	0.783 U
PCB-122	pg/g	7.77	11.9	5.7	3.74 J	6.81	8.6	2.77 J	5.7	3.81 J
PCB-123	pg/g	6.41	10.9	7.19	4.37	7.64	10.1	2.86 J	5.1	4.19
PCB-124	pg/g	21.7	36.7	17.1	14.3	22.4	34.8	9.35	16.8	13.5
PCB-125	pg/g	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-126	pg/g	3.4 J	5.26	3.25	2.83 J	4.42	9.28	1.8 J	3.32 J	2.6 J
PCB-127	pg/g	1.14 U	0.936 U	1.58 U	1.96 U	0.745 U	0.78 U	0.802 U	0.919 U	0.858 U
PCB-128	pg/g	125 C	215 C	102 C	70.3 C	101 C	198 C	49.1 C	91.4 C	73.2 C
PCB-129	pg/g	39.6	61.4	28.1	22.7	33.6	58.5	14.2	29.5	21.1
PCB-130	pg/g	47.8	75.3	37	29.2	51.2	72.5	23.3	42.9	34.8
PCB-131	pg/g	19.7 C	33 C	19.1 C	10.4 C	16.2 C	26.3 C	7.99 C	14.7 C	11.7 C
PCB-132	pg/g	207 C	318 C	172 C	99.9 C	147 C	265 C	69.8 C	140 C	96.8 C
PCB-133	pg/g	C131	C131	C131	C131	C131	C131	C131	C131	C131
PCB-134	pg/g	32.3 C	56.9 C	32.3 C	18.3 C	33.1 C	46.5 C	14.2 C	26.2 C	19.2 C
PCB-135	pg/g	90.1	140	70.2	40.2	73	104	36.6	65	44.7
PCB-136	pg/g	147	222	120	38.5	64.9	96.7	29.5	57.9	37
PCB-137	pg/g	38.9	67.2	35.5	21	29.9	54.2	14	25	19.2
PCB-138	pg/g	791 C	1260 C	650 C	331 C	488 C	862 C	242 C	437 C	357 C
PCB-139	pg/g	627 C	1000 C	576 C	221 C	370 C	595 C	177 C	328 C	233 C
PCB-140	pg/g	1.24 U	1.08 U	1.17 U	0.963 U	3.2 J	6.2	2.94 J	5.58	2.14 J

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SC-ENR+AC-CA-CORE	LDW-Y1-SC-ENR+AC-CB-CORE	LDW-Y1-SC-ENR+AC-CC-CORE	LDW-Y1-IN-ENR-CA-CORE	LDW-Y1-IN-ENR-CB-CORE	LDW-Y1-IN-ENR-CC-CORE	LDW-Y1-IN-ENR+AC-CA-CORE	LDW-Y1-IN-ENR+AC-CB-CORE	LDW-Y1-IN-ENR+AC-CC-CORE
	UseDate	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
	SubPlot	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	15000	24900	14200	5100	8150	12800	4000	7520	5400
PCB-141	pg/g	159	237	130	56.9	87.5	149	42.7	77.2	56.5
PCB-142	pg/g	1.47 U	1.28 U	1.39 U	1.17 U	1.1 U	1.49 U	1.22 U	1.52 U	1.1 U
PCB-143	pg/g	C134	C134	C134	C134	C134	C134	C134	C134	C134
PCB-144	pg/g	38	60.3	29.3	11.4	20.7	29.5	8.2	17.2	11.7
PCB-145	pg/g	0.734 U	0.452 U	0.841 U	0.532 U	0.783 U	0.614 U	0.483 U	0.597 U	0.561 U
PCB-146	pg/g	123 C	179 C	97.8 C	42.4 C	62.9 C	111 C	36.3 C	58.3 C	44.4 C
PCB-147	pg/g	13.6	22.3	10.6	7.08	13.6	19.2	6.05	11.2	9.1
PCB-148	pg/g	0.928 U	0.571 U	1.06 U	0.714 U	1.05 U	0.824 U	0.648 U	0.801 U	0.753 U
PCB-149	pg/g	C139	C139	C139	C139	C139	C139	C139	C139	C139
PCB-150	pg/g	2.99 J	5.25	3.31 J	0.524 U	0.77 U	0.605 U	0.475 U	0.588 U	0.552 U
PCB-151	pg/g	192	303	195	47.8	88.8	149	41.6	76.6	54.4
PCB-152	pg/g	0.768 U	0.473 U	0.879 U	0.55 U	0.809 U	0.635 U	0.499 U	0.617 U	0.58 U
PCB-153	pg/g	874	1280	701	283	434	715	228	390	293
PCB-154	pg/g	22.2	28.9	14.8	5.17	6.5	14.1	5.16	6.59	5.3
PCB-155	pg/g	0.657 U	0.404 U	0.752 U	0.48 U	0.706 U	0.554 U	0.435 U	0.539 U	0.506 U
PCB-156	pg/g	81.9	167	70.3	44.5	58.1	127	27.3	49.3	40.8
PCB-157	pg/g	16.2	34.6	12.8	11.8	16.1	31.4	7.2	13.3	10.7
PCB-158	pg/g	96.1 C	156 C	68.5 C	45.3 C	67.9 C	117 C	32 C	58.7 C	45.8 C
PCB-159	pg/g	11	15.8	8.3	2.62 J	3.48 J	6.6	2.4 J	3.38 J	2.81 J
PCB-160	pg/g	C158	C158	C158	C158	C158	C158	C158	C158	C158
PCB-161	pg/g	C132	C132	C132	C132	C132	C132	C132	C132	C132
PCB-162	pg/g	C128	C128	C128	C128	C128	C128	C128	C128	C128
PCB-163	pg/g	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-164	pg/g	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-165	pg/g	C146	C146	C146	C146	C146	C146	C146	C146	C146
PCB-166	pg/g	3.99 J	6.65	1.02 U	2.62 J	3.42 J	5.35	1.84 J	3.5 J	1.8 J
PCB-167	pg/g	34.9	66.2	28.2	20.2	28.7	49.4	11.8	21.1	17
PCB-168	pg/g	1.03 U	0.903 U	0.977 U	0.768 U	0.723 U	0.979 U	0.803 U	0.999 U	2.25 J
PCB-169	pg/g	0.993 U	0.81 U	0.988 U	0.767 U	0.775 U	0.973 U	0.863 U	1.05 U	0.819 U
PCB-170	pg/g	316	584	274	71.4	81.8	213	52.1	90.4	72.2
PCB-171	pg/g	87.6	147	78.9	19.2	25.8	53.8	15.5	23.6	18.7
PCB-172	pg/g	53.4	89.1	50.2	12.9	14.6	36	10.7	16	11.4
PCB-173	pg/g	5.63	9.9	5.86	1.1 U	1.04 U	5.08	2.33 J	1.07 U	2.97 J
PCB-174	pg/g	274	476	291	56	71.5	163	47.6	78	62.2
PCB-175	pg/g	13.4	24.5	11.7	2.83 J	5.39	7.43	2.12 J	3.17 J	2.94 J
PCB-176	pg/g	40.4	66.2	41.3	8.4	10.2	21.1	7.38	10.8	7.49
PCB-177	pg/g	186	313	181	42.3	47.4	105	32.8	53.6	40
PCB-178	pg/g	57.9	99.1	68.7	13.1	16.2	33.8	12.3	18.2	13.3
PCB-179	pg/g	123	202	127	25.5	30.7	67.1	22	31.6	24.2
PCB-180	pg/g	558	1040	561	120	129	313	90.2	141	111
PCB-181	pg/g	1.17 U	1.32 U	1.33 U	0.955 U	0.899 U	1.02 U	0.725 U	0.93 U	0.727 U
PCB-182	pg/g	356 C	590 C	371 C	73.9 C	81.3 C	190 C	62.1 C	95.5 C	74 C
PCB-183	pg/g	189	317	197	37.1	43.1	93.6	29.2	47	36.4
PCB-184	pg/g	0.797 U	0.893 U	0.901 U	0.69 U	0.649 U	0.735 U	0.523 U	0.671 U	0.525 U
PCB-185	pg/g	30.7	63.4	37.5	6.61	8.13	18.1	5.33	7.91	6.91
PCB-186	pg/g	0.849 U	0.951 U	0.96 U	0.74 U	0.696 U	0.789 U	0.562 U	0.72 U	0.563 U
PCB-187	pg/g	C182	C182	C182	C182	C182	C182	C182	C182	C182

Table 7
Analytical Results for PCB Congeners in Bulk Sediment[1]

	SampID	LDW-Y1-SC-ENR+AC-CA-CORE	LDW-Y1-SC-ENR+AC-CB-CORE	LDW-Y1-SC-ENR+AC-CC-CORE	LDW-Y1-IN-ENR-CA-CORE	LDW-Y1-IN-ENR-CB-CORE	LDW-Y1-IN-ENR-CC-CORE	LDW-Y1-IN-ENR+AC-CA-CORE	LDW-Y1-IN-ENR+AC-CB-CORE	LDW-Y1-IN-ENR+AC-CC-CORE
	UseDate	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018	7/6/2018
	Plot	Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
	SubPlot	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/g	15000	24900	14200	5100	8150	12800	4000	7520	5400
PCB-188	pg/g	0.937 U	1.16 U	1.15 U	0.748 U	0.728 U	0.831 U	0.58 U	0.757 U	0.582 U
PCB-189	pg/g	10.5	19.5	9.69	3.3 J	3.62 J	8.61	2.57 J	4.45	3.58 J
PCB-190	pg/g	75	142	62.6	16.7	19.5	43	12	19.6	15.7
PCB-191	pg/g	14.1	25.7	13	3.1 J	4.72	10.1	3.02 J	5.26	3.59 J
PCB-192	pg/g	0.914 U	1.02 U	1.03 U	0.77 U	0.724 U	0.821 U	0.584 U	0.749 U	0.586 U
PCB-193	pg/g	38.1	74.7	34.1	8.06	8.63	19.1	6.4	9.36	7.93
PCB-194	pg/g	159	492	192	36.8	32.6	81.1	28.8	40.8	39.3
PCB-195	pg/g	66.2	188	95.8	12.8	12.2	29.3	11.1	14.5	13.5
PCB-196	pg/g	245 C	772 C	360 C	51.2 C	39.5 C	98.1 C	33.7 C	43.4 C	40.9 C
PCB-197	pg/g	8.53	19.8	11.8	1.42 J	1.13 U	3.65 J	0.604 U	1.88 J	1.73 J
PCB-198	pg/g	12	26.8	18.7	2.29 J	1.67 U	3.55 J	0.889 U	1.09 U	2.39 J
PCB-199	pg/g	224	721	346	49.4	35.2	89.2	33.4	41	40.1
PCB-200	pg/g	23.8	78.2	39.9	6.71	4.21	10	3.7 J	5.66	5.01
PCB-201	pg/g	28	73.3	44.2	5.66	5.66	11.7	5.92	5.08	5.39
PCB-202	pg/g	36.7	88.9	61.4	8.66	8.49	18.3	7.82	8.97	6.35
PCB-203	pg/g	C196	C196	C196	C196	C196	C196	C196	C196	C196
PCB-204	pg/g	0.728 U	0.721 U	1.17 U	0.741 U	1.24 U	0.7 U	0.662 U	0.811 U	0.715 U
PCB-205	pg/g	7.88	28.3	11.5	1.74 J	1.54 J	4.29	1.51 J	2.02 J	1.99 J
PCB-206	pg/g	77.7	364	180	18.3	14.4	34.1	12.6	16.3	16.6
PCB-207	pg/g	10.7	42.6	25.7	3.34 J	2.08 J	5.04	1.73 J	2.21 J	2.76 J
PCB-208	pg/g	18.3	64.3	41.6	7.56	2.95 J	8.92	3.52 J	4.37	4.11
PCB-209	pg/g	25.5	44.4	31.6	5.64	8.57	13	8.02	12	9.17

Abbreviations:

C = Coelution with one or more PCB congeners; the numerical value indicates the lower congener co-eluter
ENR = Enhanced natural recovery
ENR+AC = Enhanced natural recovery amended with activated carbon
J = Analyte concentration is below calibration range
PCB = Polychlorinated biphenyl
pg/g = picogram(s) per gram
U = Not detected at the estimated detection limit

Notes:

1. Results for scour and intertidal samples represent concentrations of material passing through the #4 sieve. Concentrations have not been corrected for the gravel fraction removed.

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SU-ENR-CA-S010	LDW-Y1-SU-ENR-CB-S010	LDW-Y1-SU-ENR-CC-S010	LDW-Y1-SU-ENR+AC-CA-S010	LDW-Y1-SU-ENR+AC-CB-S010	LDW-Y1-SU-ENR+AC-CC-S010	LDW-Y1-SC-ENR-CA-S010	LDW-Y1-SC-ENR-CB-S010	LDW-Y1-SC-ENR-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
SubPlot		ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/L	7700	16000	7200	4200	3500	3700	1000	2400	1200
PCB-001	pg/L	13 J	11 J	20 J	170	U	13 J	U	U	U
PCB-002	pg/L	U	U	U	U	U	U	U	U	U
PCB-003	pg/L	U	3 J	U	5.1 J	U	U	U	U	U
PCB-004	pg/L	140	110	110	140	30	50	U	27	42
PCB-005	pg/L	3.8 J	15	9.8	8.1	7.4 J	4.1 J	U	U	U
PCB-006	pg/L	69	60	49	54	23	31	13	17	21
PCB-007	pg/L	13	6.6 J	11	18	5.5 J	5.2 J	U	U	U
PCB-008	pg/L	200	170	140	150	47	85	32	33	43
PCB-009	pg/L	9.7	11	12	16	4.9 J	7.4 J	U	U	U
PCB-010	pg/L	12 J	10 J	13 J	19	6.6 J	12 J	U	U	U
PCB-011	pg/L	UB	UB	UB	UB	UB	UB	UB	3.4	2.7
PCB-012	pg/L	1.5 J	3.4 J	U	3.4 J	U	2.8 J	U	U	U
PCB-013	pg/L	5.3	8.2	U	U	U	U	U	U	U
PCB-014	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-015	pg/L	30	38	25	11	8.3	14	7.6	9.7	8.1
PCB-016	pg/L	180	160	100	88	50	71	19	18	21
PCB-017	pg/L	280	280	210	150	91	130	27	28	34
PCB-018	pg/L	580	630	460	330	200	290	60	62	73
PCB-019	pg/L	77	74	59	49	28	42	14	12	14
PCB-020	pg/L	200 C	250 C	170 C	88 C	64 C	84 C	21 C	27 C	27 C
PCB-021	pg/L	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-022	pg/L	120	150	100	49	37	50	13	17	16
PCB-023	pg/L	0.75 J	U	1.1 J	U	U	U	U	U	U
PCB-024	pg/L	20	29	20	13	8.3	12	2.3 J	4.4 J	3.8 J
PCB-025	pg/L	44	55	32	20	14	20	6.1	7.2	6.7
PCB-026	pg/L	100	120	74	47	36	48	11	15	14
PCB-027	pg/L	33	29	22	16	11	13	8.5	5.5	7
PCB-028	pg/L	360	440	280	140	110	160	47	53	51
PCB-029	pg/L	3.2 J	3.8 J	2.6 J	1.5 J	1.2 J	1.5 J	U	U	U
PCB-030	pg/L	U	U	U	U	U	U	U	U	U
PCB-031	pg/L	370	500	290	170	120	160	38	53	52
PCB-032	pg/L	180	210	170	100	69	97	27	28	29
PCB-033	pg/L	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-034	pg/L	4.3	5.1 J	3.5 J	2.2 J	1.5 J	2.3 J	U	U	U
PCB-035	pg/L	2.5 J	5.8 J L	2.9	1.3 J	1.7 J	1.7 J	U	U	U
PCB-036	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-037	pg/L	35	60 L	29	13	12	15	5.6	8.5	6.9
PCB-038	pg/L	2.5 J	4.7 J L	2.3 J	1.1 J	1.2 J	1.4 J	U	U	U
PCB-039	pg/L	U	U L	U	U	U	U	U	U	U
PCB-040	pg/L	63	110 L	56	30	30	31	9.5	16	9.9
PCB-041	pg/L	270 C	490 C L	240 C	130 C	130 C	130 C	36 C	60 C	40 C
PCB-042	pg/L	120 C	210 C L	110 C	60 C	57 C	59 C	17 C	29 C	18 C
PCB-043	pg/L	370 C	650 C L	320 C	190 C	170 C	190 C	55 C	85 C	58 C
PCB-044	pg/L	340	590 L	280	180	160	180	43	68	48
PCB-045	pg/L	92	140	78	48	40	48	16	20	16
PCB-046	pg/L	36	53	30	19	16	17	6.2	8.8	6.1

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SU-ENR-CA-S010	LDW-Y1-SU-ENR-CB-S010	LDW-Y1-SU-ENR-CC-S010	LDW-Y1-SU-ENR+AC-CA-S010	LDW-Y1-SU-ENR+AC-CB-S010	LDW-Y1-SU-ENR+AC-CC-S010	LDW-Y1-SC-ENR-CA-S010	LDW-Y1-SC-ENR-CB-S010	LDW-Y1-SC-ENR-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Subtidal ENR	Subtidal ENR	Subtidal ENR	Subtidal ENR+AC	Subtidal ENR+AC	Subtidal ENR+AC	Scour ENR	Scour ENR	Scour ENR
SubPlot										
Polychlorinated Biphenyls (PCBs)										
PCB-047	pg/L	98	150 L	86	51	49	54	18	26	19
PCB-048	pg/L	92 C	170 C L	77 C	46 C	39 C	42 C	11 C	18 C	11 C
PCB-049	pg/L	C043	C043	C043	C043	C043	C043	C043	C043	C043
PCB-050	pg/L	2.7	3.7 J	2.5 J	1.7 J	1.6 J	1.6 J	U	1 J	U
PCB-051	pg/L	32	46	27	16	14	15	6.9	8.9	6.6
PCB-052	pg/L	470 C	830 C L	410 C	250 C	210 C	240 C	67 C	110 C	72 C
PCB-053	pg/L	97	140	80	51	41	48	20	25	19
PCB-054	pg/L	2.1 J	3.3 J L	1.9 J	1.1 J	1.1 J	1.1 J	U	1.2 J	U
PCB-055	pg/L	3.8	13 L	4.9	3.5	3.9	3.2	1.7	2.3	1.7
PCB-056	pg/L	120 C	240 C L	110 C	49 C	51 C	50 C	14 C	29 C	17 C
PCB-057	pg/L	2.3	4.6 J L	1.6 J	1.2 J	1.2 J	1.2 J	U	1.1 J	U
PCB-058	pg/L	0.98 J	2.4 J L	1 J	0.64 J	0.74 J	0.61 J	U	U	U
PCB-059	pg/L	C042	C042	C042	C042	C042	C042	C042	C042	C042
PCB-060	pg/L	C056	C056	C056	C056	C056	C056	C056	C056	C056
PCB-061	pg/L	220 C	470 C L	210 C	110 C	110 C	120 C	28 C	55 C	33 C
PCB-062	pg/L	U	U L	U	U	U	U	U	U	U
PCB-063	pg/L	11	24 L	10	5	5.5	5.3	1.4 J	2.9 J	1.4 J
PCB-064	pg/L	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-065	pg/L	U	U L	1.1 J	U	U	U	U	U	U
PCB-066	pg/L	190 C	410 C L	180 C	90 C	92 C	95 C	28 C	59 C	32 C
PCB-067	pg/L	8.9	19 L	8	3.9	U	4.2	1.2 J	2.4 J	1.4 J
PCB-068	pg/L	3.4	8.6 L	2.4	1.7	2.1	2	0.63 J	1.4 J	0.77 J
PCB-069	pg/L	C052	C052	C052	C052	C052	C052	C052	C052	C052
PCB-070	pg/L	C061	C061	C061	C061	C061	C061	C061	C061	C061
PCB-071	pg/L	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-072	pg/L	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-073	pg/L	U	U L	U	U	U	U	U	U	U
PCB-074	pg/L	110	220 L	99	46	47	48	13	27	14
PCB-075	pg/L	C048	C048	C048	C048	C048	C048	C048	C048	C048
PCB-076	pg/L	C066	C066	C066	C066	C066	C066	C066	C066	C066
PCB-077	pg/L	8.7	25 L	9.7	4	5.1	4.2	1.7	4.1 L	1.7
PCB-078	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-079	pg/L	2.7	6.8 L	2.9	1.5	1.6 J	1.7	0.54 J	1.5 J L	0.55 J
PCB-080	pg/L	U	2.4 J L	U	1.1	U	1.8	U	0.39 J L	0.54 J
PCB-081	pg/L	4.6	14 L	4.7	2.6	4	3.2	1.1 J	4.4 L	1.8
PCB-082	pg/L	25	79 L	28 L	12	16 L	13	3.3	12 L	4
PCB-083	pg/L	11 C	35 C L	12 C L	6.1 C	7.1 C L	5.7 C	1.7 C	6.3 C L	1.7 C
PCB-084	pg/L	110 C	340 C L	120 C L	61 C	69 C	58 C	17 C	52 C L	19 C
PCB-085	pg/L	33 C	100 C L	34 C L	15 C	18 C L	15 C	4.4 C	14 C L	5.1 C
PCB-086	pg/L	U	U L	U L	U	U L	U	U	U L	U
PCB-087	pg/L	81 C	250 C L	88 C L	38 C	47 C L	37 C	10 C	35 C L	13 C
PCB-088	pg/L	32 C	59 C L	37 C	17 C	20 C	10 C	UC	UC L	UC
PCB-089	pg/L	4.5	13 L	5.1	2.5	2.8	2.3	0.8 J	2.1 J L	0.87 J
PCB-090	pg/L	230 C	720 C L	260 C L	120 C	140 C L	110 C	36 C	120 C L	42 C
PCB-091	pg/L	C088	C088	C088	C088	C088	C088	C088	C088	C088
PCB-092	pg/L	C084	C084	C084	C084	C084	C084	C084	C084	C084
PCB-093	pg/L	U	U L	U	U	U	U	U	U L	U

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SU-ENR-CA-S010	LDW-Y1-SU-ENR-CB-S010	LDW-Y1-SU-ENR-CC-S010	LDW-Y1-SU-ENR+AC-CA-S010	LDW-Y1-SU-ENR+AC-CB-S010	LDW-Y1-SU-ENR+AC-CC-S010	LDW-Y1-SC-ENR-CA-S010	LDW-Y1-SC-ENR-CB-S010	LDW-Y1-SC-ENR-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
SubPlot		ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCB-094	pg/L	2.2	5.9 J L	2.6	1.1	1.3 J	1.1 J	U	U L	U
PCB-095	pg/L	250	650 L	250	150	170	150	54	140 L	59
PCB-096	pg/L	4	11 L	3.6 L	2.2	2.8	2.3	0.82 J	1.9 J L	0.79 J
PCB-097	pg/L	56	180 L	59 L	28	33 L	26	7.2	25 L	8.4
PCB-098	pg/L	UC	UC L	UC	UC	UC	UC	UC	UC L	UC
PCB-099	pg/L	95	300 L	100 L	44	53 L	43	13	46 L	16
PCB-100	pg/L	2.6	7.4 L	2.8	1.4	2.3	1.5	1.1 J	3 J L	1.1 J
PCB-101	pg/L	C090	C090	C090	C090	C090	C090	C090	C090	C090
PCB-102	pg/L	C098	C098	C098	C098	C098	C098	C098	C098	C098
PCB-103	pg/L	5	13 L	5.1	2.8	3	2.9	1.3 J	4.2 L	1.7
PCB-104	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-105	pg/L	41	150 L	50 L	18	24 L	18	5.5	20 L	6.3
PCB-106	pg/L	100 C	350 C L	120 C L	51 C	65 C L	49 C	15 C	60 C L	17 C
PCB-107	pg/L	8.8 C	30 C L	9.9 C L	4.5 C	5.6 C L	3.9 C	1.2 C	5.3 C L	1.4 C
PCB-108	pg/L	C107	C107	C107	C107	C107	C107	C107	C107	C107
PCB-109	pg/L	U	U L	U L	U	U L	U	U	U L	U
PCB-110	pg/L	170	540 L	190 L	96	110 L	91	28	91 L	32
PCB-111	pg/L	2.8 C	10 C L	2.9 C L	1.8 C	1.8 C L	1.9 C	0.37 CJ	2.7 CJ L	0.46 CJ
PCB-112	pg/L	C083	C083	C083	C083	C083	C083	C083	C083	C083
PCB-113	pg/L	U	U L	U L	U	U L	U	U	U L	U
PCB-114	pg/L	2.7	11 L	4 L	1.6	2.2 L	1.6	0.48 J	1.9 J L	0.56 J
PCB-115	pg/L	C111	C111	C111	C111	C111	C111	C111	C111	C111
PCB-116	pg/L	C085	C085	C085	C085	C085	C085	C085	C085	C085
PCB-117	pg/L	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-118	pg/L	C106	C106	C106	C106	C106	C106	C106	C106	C106
PCB-119	pg/L	5.5	20 L	6.1 L	2.9	3.7 L	2.9	1.2	3.8 J L	1.1
PCB-120	pg/L	U	U L	U L	0.26 J	0.57 J L	U	U	U L	U
PCB-121	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-122	pg/L	1.6	4.5 J L	2.2 L	0.7	1.1 J L	0.94	0.25 J	0.95 J L	0.31 J
PCB-123	pg/L	2.2	8.5 L	2 L	0.77	1.2 J L	0.77 J	0.26 J	1.2 J L	0.4 J
PCB-124	pg/L	6	19 L	7.8 L	2.7	3.8 L	2.8	0.73 J	3.5 J L	0.9
PCB-125	pg/L	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-126	pg/L	0.37 J L	U L	0.61 J L	U	U L	U	U	U L	U
PCB-127	pg/L	U L	U L	U L	U	U L	U	U	U L	U
PCB-128	pg/L	12 C L	60 C L	18 C L	5.3 C	8.8 C L	4.6 C L	1.3 C	8.4 C L	1.7 C
PCB-129	pg/L	5 L	21 L	7 L	2.1	3.3 L	2 L	0.56	5.3 L	0.76
PCB-130	pg/L	7.1 L	30 L	10 L	2.9	4.8 L	2.5 L	0.88	U L	1
PCB-131	pg/L	3.1 C L	13 C L	4.6 C L	1.4 C	1.8 C L	1.2 C L	0.37 CJ	2.3 CJ L	0.54 CJ
PCB-132	pg/L	32 C L	160 C L	47 C L	15 C	26 C L	15 C L	4.6 C	30 C L	6.4 C
PCB-133	pg/L	C131	C131	C131	C131	C131	C131	C131	C131	C131
PCB-134	pg/L	7.1 C L	30 C L	9 C L	3.4 C	5.2 C L	3.3 C	0.77 C	6.1 C L	1.2 C
PCB-135	pg/L	19 L	89 L	26 L	8.8	13 L	7.6	2.8	14 L	3.4
PCB-136	pg/L	21 L	100 L	31 L	12	17 L	11 L	3.9	25 L	5
PCB-137	pg/L	3.5 L	19 L	5.1 L	2.3	2.9 L	1.6 L	0.54	2.6 J L	0.62
PCB-138	pg/L	79 C L	380 C L	120 C L	37 C	61 C L	33 C L	11 C	75 C L	14 C
PCB-139	pg/L	100 C L	450 C L	150 C L	52 C	78 C L	45 C	17 C	100 C L	23 C
PCB-140	pg/L	1.4 L	U L	1.5 L	U	U L	0.61 J	0.28 J	U L	U

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SU-ENR-CA-S010	LDW-Y1-SU-ENR-CB-S010	LDW-Y1-SU-ENR-CC-S010	LDW-Y1-SU-ENR+AC-CA-S010	LDW-Y1-SU-ENR+AC-CB-S010	LDW-Y1-SU-ENR+AC-CC-S010	LDW-Y1-SC-ENR-CA-S010	LDW-Y1-SC-ENR-CB-S010	LDW-Y1-SC-ENR-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Scour	Scour	Scour
SubPlot		ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR
Polychlorinated Biphenyls (PCBs)										
PCB-141	pg/L	18 L	85 L	27 L	8.2	13 L	7.1 L	2.5	16 L	3.4
PCB-142	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-143	pg/L	C134	C134	C134	C134	C134	C134	C134	C134	C134
PCB-144	pg/L	7.9 L	28 L	11 L	3.2	5.7 L	3.3	1.4	6.6 L	1.6
PCB-145	pg/L	U L	U L	U L	U	U L	U L	U	U L	U
PCB-146	pg/L	15 C L	74 C L	23 C L	7.3 C	12 C L	6.8 C L	2.4 C	18 C L	3.3 C
PCB-147	pg/L	2.5 L	13 L	3.4 L	1.3	2.1 L	1.3	0.5 J	2.1 J L	0.43 J
PCB-148	pg/L	U L	U L	U L	U	U L	U	U	U L	U
PCB-149	pg/L	C139	C139	C139	C139	C139	C139	C139	C139	C139
PCB-150	pg/L	U L	U L	U L	0.2 J	U L	U L	U	U L	U
PCB-151	pg/L	32 L	150 L	47 L	15	23 L	14	5.5	35 L	6.9
PCB-152	pg/L	U L	U L	U L	U	U L	U L	U	U L	U
PCB-153	pg/L	91 L	430 L	130 L	42	69 L	36 L	14	95 L	18
PCB-154	pg/L	2.6 L	10 L	3 L	1.1	1.9 L	1.1	0.52	3.1 L	0.57
PCB-155	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-156	pg/L	5.9 L	31 L	9 L	2.6	4.3 L	2 L	0.48	5.7 L	0.77
PCB-157	pg/L	1.1 L	7.3 L	1.6 L	0.55	0.82 J L	0.47 J L	U	1.5 J L	0.14 J
PCB-158	pg/L	9.8 C L	46 C L	15 C L	4.6 C	7.4 C L	3.9 C L	1.3 C	8.6 C L	1.7 C
PCB-159	pg/L	0.83 L	5.7 J L	1.5 L	0.36 J	0.72 J L	0.42 J L	0.18 J	U L	0.16 J
PCB-160	pg/L	C158	C158	C158	C158	C158	C158	C158	C158	C158
PCB-161	pg/L	C132	C132	C132	C132	C132	C132	C132	C132	C132
PCB-162	pg/L	C128	C128	C128	C128	C128	C128	C128	C128	C128
PCB-163	pg/L	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-164	pg/L	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-165	pg/L	C146	C146	C146	C146	C146	C146	C146	C146	C146
PCB-166	pg/L	U L	U L	U L	U	U L	U L	U	U L	U
PCB-167	pg/L	2.3 L	11 L	4.1 L	1.1	2.1 L	0.92 L	0.36 J	2.5 J L	0.36 J
PCB-168	pg/L	U L	U L	U L	0.14 J	U L	U L	U	U L	U
PCB-169	pg/L	U L	U L	U L	U L	U L	U L	U	U L	U L
PCB-170	pg/L	9.4 L	65 L	18 L	3.8 L	7.9 L	2.7 L	1 L	13 L	1.4 L
PCB-171	pg/L	3.6 L	25 L	6.9 L	1.4 L	2.7 L	1.2 L	0.46 L	5.2 L	0.59 L
PCB-172	pg/L	1.6 L	19 L	3.8 L	0.52 L	0.96 L	0.33 L	0.079 L	UB L	0.15 L
PCB-173	pg/L	U L	U L	0.86 J L	U L	U L	U L	U L	U L	U L
PCB-174	pg/L	14 L	91 L	25 L	5.9 L	13 L	4.7 L	1.6 L	20 L	2.3 L
PCB-175	pg/L	0.67 L	U L	1 L	0.23 J L	0.45 J L	0.26 J L	U L	U L	U L
PCB-176	pg/L	2.3 L	16 L	4.2 L	0.95 L	1.8 L	0.74 L	0.29 L	4.4 J L	0.38 L
PCB-177	pg/L	8.6 L	57 L	16 L	3.5 L	6.8 L	2.7 L	0.87 L	10 L	1.3 L
PCB-178	pg/L	3.5 L	23 L	5.7 L	1.6 L	2.8 L	1 L	0.48 L	5.5 L	0.63 L
PCB-179	pg/L	7.5 L	55 L	13 L	3 L	6.3 L	2.4 L	0.83 L	13 L	1.2 L
PCB-180	pg/L	18 L	150 L	36 L	7.5 L	15 L	5.7 L	2 L	30 L	2.8 L
PCB-181	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-182	pg/L	17 C L	120 C L	31 C L	7.2 C L	14 C L	5.7 C L	2 C L	26 C L	2.8 C L
PCB-183	pg/L	8.6 L	59 L	16 L	3.5 L	7 L	3 L	1 L	15 L	1.4 L
PCB-184	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-185	pg/L	1.4 L	11 L	2.8 L	0.67 L	1.4 L	0.57 L	0.21 J L	U L	0.3 J L
PCB-186	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-187	pg/L	C182	C182	C182	C182	C182	C182	C182	C182	C182

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SU-ENR-CA-S010	LDW-Y1-SU-ENR-CB-S010	LDW-Y1-SU-ENR-CC-S010	LDW-Y1-SU-ENR+AC-CA-S010	LDW-Y1-SU-ENR+AC-CB-S010	LDW-Y1-SU-ENR+AC-CC-S010	LDW-Y1-SC-ENR-CA-S010	LDW-Y1-SC-ENR-CB-S010	LDW-Y1-SC-ENR-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Subtidal ENR	Subtidal ENR	Subtidal ENR	Subtidal ENR+AC	Subtidal ENR+AC	Subtidal ENR+AC	Scour ENR	Scour ENR	Scour ENR
SubPlot										
Polychlorinated Biphenyls (PCBs)										
PCB-188	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-189	pg/L	0.24 J L	U L	0.56 J L	U L	U L	U L	U L	U L	U L
PCB-190	pg/L	1.9 L	15 L	3.7 L	0.78 L	1.6 L	0.68 L	0.21 J L	3.2 J L	0.31 L
PCB-191	pg/L	0.45 J L	5.1 J L	1.1 L	0.25 J L	U L	U L	U L	U L	U L
PCB-192	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-193	pg/L	1.3 L	15 L	2.9 L	0.58 L	1.3 L	0.58 L	0.19 J L	5.4 L	0.29 L
PCB-194	pg/L	2.1 L	25 L	5.1 L	0.92 L	2.6 L	0.53 L	0.16 L	4.6 J L	0.26 L
PCB-195	pg/L	1.2 L	12 L	2.6 L	0.4 L	1.1 L	0.23 L	0.096 J L	2 J L	0.15 J L
PCB-196	pg/L	3.1 C L	37 C L	7 C L	1.4 C L	3.4 C L	0.87 C L	0.26 C L	6.5 C L	0.38 C L
PCB-197	pg/L	0.13 L	4.5 L	0.052 L	0.051 L	UB L	UB L	UB L	UB L	UB L
PCB-198	pg/L	0.19 J L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-199	pg/L	2.6 L	34 L	5.5 L	1.1 L	3 L	0.63 L	0.18 L	6.6 L	0.32 L
PCB-200	pg/L	0.51 L	6.1 J L	0.85 L	0.17 L	0.5 J L	U L	U L	U L	U L
PCB-201	pg/L	U L	U L	0.98 L	U L	U L	U L	U L	U L	U L
PCB-202	pg/L	0.65 L	8 L	1.3 L	0.23 L	0.75 L	0.19 L	U L	U L	U L
PCB-203	pg/L	C196	C196	C196	C196	C196	C196	C196	C196	C196
PCB-204	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-205	pg/L	0.12 J L	2.1 J L	0.28 J L	0.053 J L	0.16 J L	0.042 J L	U L	U L	U L
PCB-206	pg/L	0.43 L	8.4 L	1.1 L	0.17 L	0.58 L	0.09 J L	0.03 J L	U L	0.052 J L
PCB-207	pg/L	0.049 L	3.3 L	0.19 L	0.02 L	0.081 L	0.0077 L	UB L	UB L	0.012 L
PCB-208	pg/L	0.12 J L	2.7 J L	0.31 J L	0.052 J L	0.2 J L	0.029 J L	0.016 J L	U L	0.02 J L
PCB-209	pg/L	0.051 L	4.9 L	0.21 L	0.01 L	0.12 L	0.011 L	UB L	0.83 L	UB L

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SC-ENR+AC-CA-S010	LDW-Y1-SC-ENR+AC-CB-S010	LDW-Y1-SC-ENR+AC-CC-S010	LDW-Y1-IN-ENR-CA-S010	LDW-Y1-IN-ENR-CB-S010	LDW-Y1-IN-ENR-CC-S010	LDW-Y1-IN-ENR+AC-CA-S010	LDW-Y1-IN-ENR+AC-CB-S010	LDW-Y1-IN-ENR+AC-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
SubPlot		ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCBs (Total, Congeners)	pg/L	570	940	1300	1300	840	1100	830	530	270
PCB-001	pg/L	U	U	U	U	U	U	U	U	U
PCB-002	pg/L	U	U	U	U	U	U	U	U	U
PCB-003	pg/L	U	U	U	U	1.9 J	U	U	U	U
PCB-004	pg/L	U	U	U	48	33	32	14	U	11 J
PCB-005	pg/L	U	U	U	U	U	U	U	U	U
PCB-006	pg/L	U	U	U	15	12	13	5.9 J	7.4	5.1 J
PCB-007	pg/L	U	U	U	U	U	U	U	U	U
PCB-008	pg/L	14 J	14	31	22	18	26	14	7.7	11
PCB-009	pg/L	U	U	U	U	U	U	U	U	U
PCB-010	pg/L	U	U	U	U	U	U	U	U	U
PCB-011	pg/L	UB J	UB	UB	UB	UB	UB	1.8	UB	UB
PCB-012	pg/L	U	U	U	U	U	U	U	U	U
PCB-013	pg/L	U	U	U	U	U	U	U	U	U
PCB-014	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-015	pg/L	4.3 J	3.4 J	11	8	6.7	9.4	4	U	U
PCB-016	pg/L	7.6 J	17	18	8.7	8.3	12	7.3	4.8	3.4 J
PCB-017	pg/L	13	18	31	21	14	23	11	6.6	6
PCB-018	pg/L	26	35	62	52	34	56	26	17	14
PCB-019	pg/L	5.9 J	7.1 J	12 J	12	9.9	13	4.5 J	4.5 J	3.3 J
PCB-020	pg/L	10 C	16 C	25 C	11 C	6.3 C	11 C	11 C	4.1 C	3.3 C
PCB-021	pg/L	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-022	pg/L	6.4	10	16	8.3	4.3	7.9	5.2	2.4	1.9 J
PCB-023	pg/L	U	U	U	U	U	U	U	U	U
PCB-024	pg/L	U	3.2 J	3 J	4.3 J	4.2	4.8 J	1.3 J	1.1 J	0.84 J
PCB-025	pg/L	2.6 J	3.6 J	5.7 J	9.4	6	9	3.3	3.3	2.4 J
PCB-026	pg/L	5.6	7.7	14	24	16	22	7.3	6.9	5.2
PCB-027	pg/L	3.1 J	2.1 J	6.9 J	5.4 J	2.9 J	6.4	2.1 J	1.4 J	1.4 J
PCB-028	pg/L	20	30	50	31	18	30	17	8.7	7.5
PCB-029	pg/L	U	U	U	U	U	U	U	U	U
PCB-030	pg/L	U	U	U	U	U	U	U	U	U
PCB-031	pg/L	21	30	44	33	22	34	17	11	8
PCB-032	pg/L	11	11	26	11	7.2	15	4.2	2.5 J	3.2 J
PCB-033	pg/L	C020	C020	C020	C020	C020	C020	C020	C020	C020
PCB-034	pg/L	U	U	U	U	U	U	U	U	U
PCB-035	pg/L	U	U	U	U	U	U	U	U	U
PCB-036	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-037	pg/L	3.4 J	5	7.3	3.6 J	2.1 J	3.5	1.9	1.1 J	0.83 J
PCB-038	pg/L	U	U	U	U	U	U	U	U	U
PCB-039	pg/L	U	U	U	U	U	U	U	U	U
PCB-040	pg/L	4.7	7.4	11	6.3	3.7	7.1	2.8	1.5 J	0.95 J
PCB-041	pg/L	19 C	31 C	44 C	27 C	17 C	27 C	12 C	7.7 C	5.4 C
PCB-042	pg/L	8.8 C	14 C	22 C	13 C	9.5 C	15 C	5.8 C	3.2 C	2.3 C
PCB-043	pg/L	28 C	46 C	65 C	61 C	44 C	59 C	25 C	16 C	11 C
PCB-044	pg/L	23	37	53	44	30	41	20	10	8.3
PCB-045	pg/L	6.8	10	16	8.3	6.6	10	3.8	2.1	1.8 J
PCB-046	pg/L	2.7 J	4.5	6.6	3.5 J	2.4 J	4	1.7 J	1.2 J	0.68 J

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SC-ENR+AC-CA-S010	LDW-Y1-SC-ENR+AC-CB-S010	LDW-Y1-SC-ENR+AC-CC-S010	LDW-Y1-IN-ENR-CA-S010	LDW-Y1-IN-ENR-CB-S010	LDW-Y1-IN-ENR-CC-S010	LDW-Y1-IN-ENR+AC-CA-S010	LDW-Y1-IN-ENR+AC-CB-S010	LDW-Y1-IN-ENR+AC-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
SubPlot		ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCB-047	pg/L	9.6	14	21	15	11	16	6	3.9	2.9
PCB-048	pg/L	5.3 C	9 C	12 C	7.7 C	4.4 C	7.3 C	3.8 C	1.9 C	1.7 C
PCB-049	pg/L	C043	C043	C043	C043	C043	C043	C043	C043	C043
PCB-050	pg/L	U	U	U	U	U	1.1 J	0.36 J	0.39 J	0.18 J
PCB-051	pg/L	2.9 J	4.7	6.8	3.7 J	2.6	4.5	1.4 J	1.1 J	0.86 J
PCB-052	pg/L	35 C	56 C	82 C	110 C	76 C	96 C	35 C	22 C	17 C
PCB-053	pg/L	8.5	13	18	16	13	17	5.6	3.7	3.3
PCB-054	pg/L	U	U	U	U	U	U	0.28 J	U	U
PCB-055	pg/L	1.1	1.3	2.1	1.2	0.88	1.7	1.4	1	1
PCB-056	pg/L	8.4 C	15 C	20 C	10 C	5.9 C	9.4 C	5.1 C	3.8 C	2 C
PCB-057	pg/L	U	U	U	U	U	0.67 J	0.27 J	U	U
PCB-058	pg/L	U	U	U	U	U	U	0.21 J	U	U
PCB-059	pg/L	C042	C042	C042	C042	C042	C042	C042	C042	C042
PCB-060	pg/L	C056	C056	C056	C056	C056	C056	C056	C056	C056
PCB-061	pg/L	16 C	29 C	40 C	24 C	14 C	20 C	9.9 C	6.9 C	4.4 C
PCB-062	pg/L	U	U	U	U	U	U	U	U	U
PCB-063	pg/L	0.91 J	1.6 J	2 J	U	0.68 J	1.1 J	0.47 J	0.41 J	U
PCB-064	pg/L	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-065	pg/L	U	U	U	U	U	U	U	U	U
PCB-066	pg/L	17 C	28 C	38 C	22 C	14 C	22 C	10 C	6.6 C	3.8 C
PCB-067	pg/L	0.91 J	1.1 J	2.1 J	1.7 J	0.81 J	1.3 J	0.36 J	0.4 J	0.21 J
PCB-068	pg/L	U	0.45 J	0.94 J	1.1 J	0.52 J	0.8 J	0.37 J	0.29 J	0.12 J
PCB-069	pg/L	C052	C052	C052	C052	C052	C052	C052	C052	C052
PCB-070	pg/L	C061	C061	C061	C061	C061	C061	C061	C061	C061
PCB-071	pg/L	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-072	pg/L	C041	C041	C041	C041	C041	C041	C041	C041	C041
PCB-073	pg/L	U	U	U	U	U	U	U	U	U
PCB-074	pg/L	7.3	12	18	10	5.4	9.2	3.5	2.7	1.6
PCB-075	pg/L	C048	C048	C048	C048	C048	C048	C048	C048	C048
PCB-076	pg/L	C066	C066	C066	C066	C066	C066	C066	C066	C066
PCB-077	pg/L	1.2 J	1.4 J	2.6 J	1.7 J	0.99 J	1.2 J	1 J	0.9 J	0.43 J
PCB-078	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-079	pg/L	U	0.7 J	0.86 J	0.84 J	0.42 J	0.8 J	0.66 J	0.42 J	0.21 J
PCB-080	pg/L	U	U	0.78 J	U	0.087 J	0.39 J	UB J	UB J	UB J
PCB-081	pg/L	1.1 J	2.2 J	2.2 J	2.9 J	1.5	2.1 J	1.1 J	1.3 J	0.23 J
PCB-082	pg/L	2.7	4	5.9 L	6.1 L	3.6	4.2	5.7	3.5	1.3
PCB-083	pg/L	1.1 CJ	1.9 C	2.4 CJ L	4 C L	2.2 C	3.1 C	3.1 C	2 C	0.76 C
PCB-084	pg/L	11 C	18 C	24 C	36 C L	25 C	29 C	33 C	19 C	8.9 C
PCB-085	pg/L	3.3 C	5.6 C	6.9 C L	8.7 C L	5.7 C	6.1 C	7.9 C	5 C	1.8 C
PCB-086	pg/L	U	U	U L	U L	U	U	U	U	U
PCB-087	pg/L	7.5 C	13 C	17 C L	24 C L	14 C	15 C	20 C	12 C	4.8 C
PCB-088	pg/L	UC	UC	UC	UC	6.5 C	4.2 C	UC	UC	UC
PCB-089	pg/L	U	0.99 J	1 J	U	U	U	0.8 J	0.49 J	0.36 J
PCB-090	pg/L	24 C	43 C	57 C L	63 C L	39 C	45 C	58 C	35 C	15 C
PCB-091	pg/L	C088	C088	C088	C088	C088	C088	C088	C088	C088
PCB-092	pg/L	C084	C084	C084	C084	C084	C084	C084	C084	C084
PCB-093	pg/L	U	U	U	U	U	U	U	U	U

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SC-ENR+AC-CA-S010	LDW-Y1-SC-ENR+AC-CB-S010	LDW-Y1-SC-ENR+AC-CC-S010	LDW-Y1-IN-ENR-CA-S010	LDW-Y1-IN-ENR-CB-S010	LDW-Y1-IN-ENR-CC-S010	LDW-Y1-IN-ENR+AC-CA-S010	LDW-Y1-IN-ENR+AC-CB-S010	LDW-Y1-IN-ENR+AC-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
SubPlot		ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCB-094	pg/L	U	U	U	U	U	U	0.44 J	0.28 J	U
PCB-095	pg/L	32	57	75	77	62	63	60	34	17
PCB-096	pg/L	U	0.96 J	U	U L	U	U	0.6 J	0.36 J	0.19 J
PCB-097	pg/L	5.6	9.1	11 L	16 L	9.9	11	14	7.6	3.1
PCB-098	pg/L	UC	UC	UC	UC	UC	UC	UC	UC	UC
PCB-099	pg/L	9.5	16	21 L	28 L	18	21	23	15	5.8
PCB-100	pg/L	U	1.5 J	U	U	0.88 J	U	0.8 J	0.77 J	0.34 J
PCB-101	pg/L	C090	C090	C090	C090	C090	C090	C090	C090	C090
PCB-102	pg/L	C098	C098	C098	C098	C098	C098	C098	C098	C098
PCB-103	pg/L	U	1.6 J	2.6 J	2.3 J	1.2 J	1.7 J	0.97 J	0.56 J	0.31 J
PCB-104	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-105	pg/L	3.8	7 L	8.7 L	9.9 L	5.6	6.3 L	7.3 L	5.3 L	1.7
PCB-106	pg/L	10 C	20 C L	25 C L	31 C L	17 C	19 C L	23 C L	16 C L	5.2 C
PCB-107	pg/L	0.91 CJ	1.7 C L	2.1 CJ L	3 C L	1.7 C	1.9 C L	2.4 C L	1.4 C L	0.52 CJ
PCB-108	pg/L	C107	C107	C107	C107	C107	C107	C107	C107	C107
PCB-109	pg/L	U	U	U L	U L	U	U	U	U	U
PCB-110	pg/L	19	32	43 L	55 L	35	38	52	31	13
PCB-111	pg/L	UC	0.56 CJ L	UC L	0.95 CJ L	0.32 CJ	0.63 CJ L	UC L	UC L	UC
PCB-112	pg/L	C083	C083	C083	C083	C083	C083	C083	C083	C083
PCB-113	pg/L	U	U	U L	U L	U	U	U	U	U
PCB-114	pg/L	0.34 J	U L	0.75 J L	0.49 J L	0.47 J	0.46 J L	0.48 J L	0.52 J L	0.19 J
PCB-115	pg/L	C111	C111	C111	C111	C111	C111	C111	C111	C111
PCB-116	pg/L	C085	C085	C085	C085	C085	C085	C085	C085	C085
PCB-117	pg/L	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-118	pg/L	C106	C106	C106	C106	C106	C106	C106	C106	C106
PCB-119	pg/L	0.77 J	1.5 J	1.7 J L	2.2 J L	1.6	1.8	1.6	1.1 J	0.45 J
PCB-120	pg/L	U	U L	U L	U L	U	U L	U L	U L	U
PCB-121	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-122	pg/L	U	U L	U L	0.7 J L	0.27 J	U L	0.37 J L	0.28 J L	U
PCB-123	pg/L	0.26 J	U L	0.79 J L	0.84 J L	0.49 J	0.43 J L	0.47 J L	0.18 J L	0.15 J
PCB-124	pg/L	0.45 J	0.99 J L	2 J L	2 J L	1.1	1.3 J L	1.3 J L	1.1 J L	0.3 J
PCB-125	pg/L	C087	C087	C087	C087	C087	C087	C087	C087	C087
PCB-126	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-127	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-128	pg/L	1.2 C	2 C L	3 C L	4.4 C L	2 C L	2.2 C L	4.4 C L	3 C L	0.71 C
PCB-129	pg/L	0.43 J	0.82 J L	1.6 J L	1.6 J L	0.88 L	0.88 J L	1.4 L	1.3 J L	0.26 J
PCB-130	pg/L	0.83	1.6 L	1.9 L	2.5 L	1.4 L	1.7 L	2.5 L	2 L	0.36 J
PCB-131	pg/L	UC	0.54 CJ L	0.78 CJ L	1.3 CJ L	0.58 CJ L	0.62 CJ L	0.91 CJ L	0.62 CJ L	0.18 CJ
PCB-132	pg/L	4 C	7.8 C L	9 C L	11 C L	6.7 C L	7.2 C L	12 C L	8.5 C L	1.8 C
PCB-133	pg/L	C131	C131	C131	C131	C131	C131	C131	C131	C131
PCB-134	pg/L	0.76 CJ	1.8 C L	1.7 CJ L	2.4 C L	1.5 C L	1.7 C L	2.5 C L	1.7 C L	0.45 C
PCB-135	pg/L	2.4	4.3 L	5.3 L	7.3 L	3.9 L	4.4 L	5.8 L	3.7 L	1
PCB-136	pg/L	3	6.5 L	7.4 L	6.5 L	3.8 L	4.5 L	8.5 L	4.9 L	1.3
PCB-137	pg/L	U	0.78 J L	U L	1.4 J L	0.75 L	0.91 J L	1.8 L	1.3 J L	0.27 J
PCB-138	pg/L	9.7 C	19 C L	22 C L	25 C L	14 C L	16 C L	26 C L	20 C L	4.3 C
PCB-139	pg/L	15 C	28 C L	34 C L	31 C L	18 C L	22 C L	31 C L	22 C L	5.4 C
PCB-140	pg/L	U	U L	U L	U L	U L	0.33 J L	U L	U L	U

Table 8
Analytical Results for PCB Congeners in Porewater

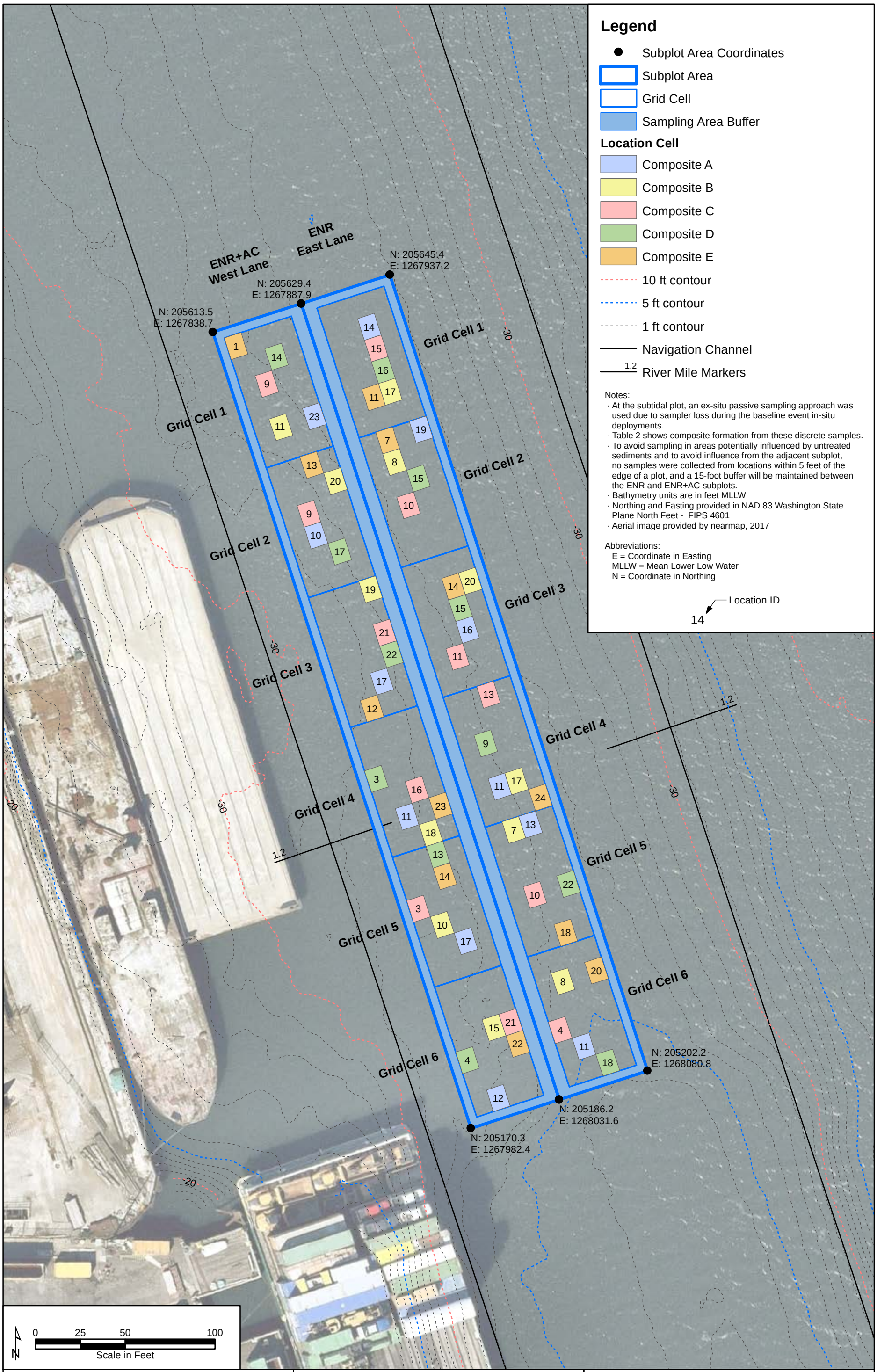
SampID		LDW-Y1-SC-ENR+AC-CA-S010	LDW-Y1-SC-ENR+AC-CB-S010	LDW-Y1-SC-ENR+AC-CC-S010	LDW-Y1-IN-ENR-CA-S010	LDW-Y1-IN-ENR-CB-S010	LDW-Y1-IN-ENR-CC-S010	LDW-Y1-IN-ENR+AC-CA-S010	LDW-Y1-IN-ENR+AC-CB-S010	LDW-Y1-IN-ENR+AC-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
SubPlot		ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCB-141	pg/L	2.3	3.6 L	5 L	4.7 L	2.6 L	2.9 L	5 L	3.9 L	0.68
PCB-142	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-143	pg/L	C134	C134	C134	C134	C134	C134	C134	C134	C134
PCB-144	pg/L	1.3	1.9 L	2.8 L	1.4 J L	1.1 L	1.3 L	1.8 L	1.4 L	0.3 J
PCB-145	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-146	pg/L	2.3 C	4 C L	5.3 C L	6.8 C L	3.3 C L	4.5 C L	5.7 C L	4.7 C L	1 C
PCB-147	pg/L	U	0.7 J L	0.78 J L	1.2 J L	0.51 J L	0.79 J L	1.1 J L	0.61 J L	0.17 J
PCB-148	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-149	pg/L	C139	C139	C139	C139	C139	C139	C139	C139	C139
PCB-150	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-151	pg/L	4.4	8.5 L	11 L	9.7 L	5.5 L	7.1 L	8.7 L	6.3 L	1.5
PCB-152	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-153	pg/L	12	23 L	28 L	28 L	15 L	18 L	27 L	20 L	4.4
PCB-154	pg/L	0.64 J	1 L	1.4 J L	1.1 J L	0.69 L	0.67 J L	0.93 L	0.67 J L	0.24 J
PCB-155	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-156	pg/L	0.49 J	1.1 L	1.6 L	1.8 L	0.91 L	1 L	1.6 L	1.5 L	0.32 J
PCB-157	pg/L	U	U L	U L	U L	0.23 J L	U L	0.5 J L	0.45 J L	0.079 J
PCB-158	pg/L	1.1 C	2 C L	2.6 C L	3.3 C L	1.5 C L	2 C L	3.1 C L	2.4 C L	0.46 C
PCB-159	pg/L	U	U L	U L	U L	U L	U L	0.41 J L	0.56 J L	0.083 J
PCB-160	pg/L	C158	C158	C158	C158	C158	C158	C158	C158	C158
PCB-161	pg/L	C132	C132	C132	C132	C132	C132	C132	C132	C132
PCB-162	pg/L	C128	C128	C128	C128	C128	C128	C128	C128	C128
PCB-163	pg/L	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-164	pg/L	C138	C138	C138	C138	C138	C138	C138	C138	C138
PCB-165	pg/L	C146	C146	C146	C146	C146	C146	C146	C146	C146
PCB-166	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-167	pg/L	0.34 J	0.65 J L	0.72 J L	1 J L	0.41 J L	0.52 J L	0.63 J L	0.83 J L	0.17 J
PCB-168	pg/L	U	U L	U L	U L	U L	U L	U L	U L	U
PCB-169	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U
PCB-170	pg/L	1.1 L	2.4 L	2.1 L	2.3 L	0.9 L	1.1 L	3.1 L	2.5 L	0.37 L
PCB-171	pg/L	0.44 J L	0.95 L	1.1 J L	U L	0.34 J L	0.67 J L	1.2 J L	1.1 J L	0.17 J L
PCB-172	pg/L	UB L	0.026 L	UB L	0.48 L	UB L	0.18 L	1.8 L	UB L	UB L
PCB-173	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-174	pg/L	1.5 L	3.3 L	3.6 L	3.2 L	1.5 L	1.6 L	5.1 L	4 L	0.59 L
PCB-175	pg/L	U L	U L	U L	U L	U L	U L	0.36 J L	U L	U L
PCB-176	pg/L	0.31 J L	0.63 J L	1 J L	U L	0.28 J L	0.48 J L	0.98 J L	0.8 J L	0.088 J L
PCB-177	pg/L	0.95 L	2.2 L	2.4 L	1.9 L	0.87 L	1.2 L	2.5 L	2.2 L	0.35 L
PCB-178	pg/L	0.47 J L	1.1 L	1.3 L	U L	0.54 L	0.95 L	1.4 L	1.3 J L	0.15 J L
PCB-179	pg/L	0.88 L	2.1 L	2.4 L	1.5 L	0.92 L	1.3 L	2.7 L	2.4 L	0.32 L
PCB-180	pg/L	2.4 L	5.1 L	5.4 L	5 L	2.3 L	3 L	7.1 L	6.7 L	0.78 L
PCB-181	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-182	pg/L	1.9 C L	5.2 C L	5.3 C L	4.2 C L	2.1 C L	2.7 C L	6.1 C L	5.4 C L	0.73 C L
PCB-183	pg/L	1.2 L	2.6 L	2.6 L	2.4 L	1.2 L	1.6 L	2.9 L	2.7 L	0.41 L
PCB-184	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-185	pg/L	U L	0.53 J L	U L	U L	U L	U L	0.58 J L	0.59 J L	U L
PCB-186	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-187	pg/L	C182	C182	C182	C182	C182	C182	C182	C182	C182

Table 8
Analytical Results for PCB Congeners in Porewater

SampID		LDW-Y1-SC-ENR+AC-CA-S010	LDW-Y1-SC-ENR+AC-CB-S010	LDW-Y1-SC-ENR+AC-CC-S010	LDW-Y1-IN-ENR-CA-S010	LDW-Y1-IN-ENR-CB-S010	LDW-Y1-IN-ENR-CC-S010	LDW-Y1-IN-ENR+AC-CA-S010	LDW-Y1-IN-ENR+AC-CB-S010	LDW-Y1-IN-ENR+AC-CC-S010
SampDate		6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018	6/30/2018
Plot		Scour	Scour	Scour	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
SubPlot		ENR+AC	ENR+AC	ENR+AC	ENR	ENR	ENR	ENR+AC	ENR+AC	ENR+AC
Polychlorinated Biphenyls (PCBs)										
PCB-188	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	0.036 J L
PCB-189	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-190	pg/L	0.24 J L	0.69 J L	U L	U L	0.28 J L	0.31 J L	0.7 J L	0.52 J L	0.087 J L
PCB-191	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-192	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-193	pg/L	U L	0.42 J L	0.55 J L	U L	0.36 J L	U L	0.63 J L	0.69 J L	0.097 J L
PCB-194	pg/L	0.21 J L	0.48 J L	0.54 J L	0.57 J L	0.18 J L	0.28 J L	1.1 J L	1.1 J L	0.077 J L
PCB-195	pg/L	0.11 J L	0.29 J L	0.26 J L	U L	U L	U L	0.57 J L	0.52 J L	0.05 J L
PCB-196	pg/L	0.26 C L	0.85 C L	0.86 C L	0.84 CJ L	0.24 CJ L	0.41 CJ L	1.7 C L	1.6 C L	0.14 CJ L
PCB-197	pg/L	0.0037 L	0.039 L	UB L	UB L	UB L	0.072 L	UB L	UB L	UB L
PCB-198	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-199	pg/L	0.22 L	0.69 L	0.69 L	U L	0.29 L	0.29 J L	1.7 L	1.5 L	0.11 J L
PCB-200	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-201	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-202	pg/L	U L	U L	U L	U L	U L	U L	0.63 J L	0.51 J L	0.038 J L
PCB-203	pg/L	C196	C196	C196	C196	C196	C196	C196	C196	C196
PCB-204	pg/L	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC	PRC
PCB-205	pg/L	U L	U L	U L	U L	U L	U L	U L	U L	U L
PCB-206	pg/L	U L	U L	U L	U L	U L	U L	0.64 J L	0.48 J L	0.022 J L
PCB-207	pg/L	UB J L	UB L	UB J L	0.043 L	UB L	UB L	0.66 L	0.2 L	UB L
PCB-208	pg/L	U L	U L	U L	U L	U L	U L	0.27 J L	0.27 J L	0.011 J L
PCB-209	pg/L	UB L	UB L	0.024 L	0.06 L	0.0059 L	UB L	0.9 L	0.36 L	UB L

Abbreviations:
B = Background concentration exceeds detected concentration
C = Coelution with one or more PCB congeners; the numerical value indicates the lower congener co-eluter
ENR = Enhanced natural recovery
ENR+AC = Enhanced natural recovery amended with activated carbon
J = Analyte concentration is below calibration range
L = Percent to steady state less than 20%. Concentration is considered estimated.
PCB = Polychlorinated biphenyl
pg/g = picogram(s) per gram
PRC = Performance reference compound
U = Not detected at the estimated detection limit

FIGURES



Legend

- Subplot Area Coordinates
- Subplot Area
- Grid Cell
- Sampling Area Buffer

Location Cell

- Composite A
- Composite B
- Composite C
- Composite D
- Composite E
- 10 ft contour
- 5 ft contour
- 1 ft contour
- Navigation Channel
- 1.2 River Mile Markers

Notes:

- At the subtidal plot, an ex-situ passive sampling approach was used due to sampler loss during the baseline event in-situ deployments.
- Table 2 shows composite formation from these discrete samples.
- To avoid sampling in areas potentially influenced by untreated sediments and to avoid influence from the adjacent subplot, no samples were collected from locations within 5 feet of the edge of a plot, and a 15-foot buffer will be maintained between the ENR and ENR+AC subplots.
- Bathymetry units are in feet MLLW
- Northing and Easting provided in NAD 83 Washington State Plane North Feet - FIPS 4601
- Aerial image provided by nearmap, 2017

Abbreviations:

E = Coordinate in Easting
MLLW = Mean Lower Low Water
N = Coordinate in Northing

Location ID
14

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

ENR/AC Pilot Study
Year 1 Data Package
Lower Duwamish Waterway

Figure 1
Subtidal Plot
Discrete Sample Locations

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8/24/2018

Legend

- Subplot Coordinates
- Outfall
- Berthing
- Uplands Tax Parcel
- Subplot Area
- Grid Cells
- Sampling Area Buffer

Location Cell

- Composite A
- Composite B
- Composite C
- Composite D
- Composite E
- SPME Not Recovered or Useable and Sediment Not Recovered or Not Composited
- Cell Removed From Analysis
- 10 ft contour
- 5 ft contour
- 1 ft contour

Notes:
- Table 2 shows composite formation from these discrete samples.
- To avoid sampling in areas potentially influenced by untreated sediments and to avoid influence from the adjacent subplot, no samples were collected from locations within 5 feet of the edge of a plot, and a 15-foot buffer will be maintained between the ENR and ENR+AC subplots.
- Bathymetry units are in feet MLLW
- Northing and Easting provided in NAD 83 Washington State Plane North Feet - FIPS 4601
- Aerial image provided by nearmap, 2017

Abbreviations:
E = Coordinate in Easting
MLLW = Mean Lower Low Water
N = Coordinate in Northing

Location Cell ID
11

2154, Port of Seattle

N: 211257.9
E: 1267009.2

N: 211223.5
E: 1267122.2

N: 211168.3
E: 1267138.2

N: 211114.3
E: 1266965

N: 211070.7
E: 1267108.5

N: 210975.3
E: 1266922.8

N: 210932.1
E: 1267065

Grid Cell 1
Grid Cell 3
Grid Cell 5
Grid Cell 2
Grid Cell 4
Grid Cell 6

ENR+AC Downstream Subplot

ENR Upstream Subplot

0 25 50 100
Scale in Feet

Lower Duwamish Waterway Group
Port of Seattle / City of Seattle / King County / The Boeing Company

ENR/AC Pilot Study
Year 1 Data Package
Lower Duwamish Waterway

Figure 2
Scour Plot
Discrete Sample Locations

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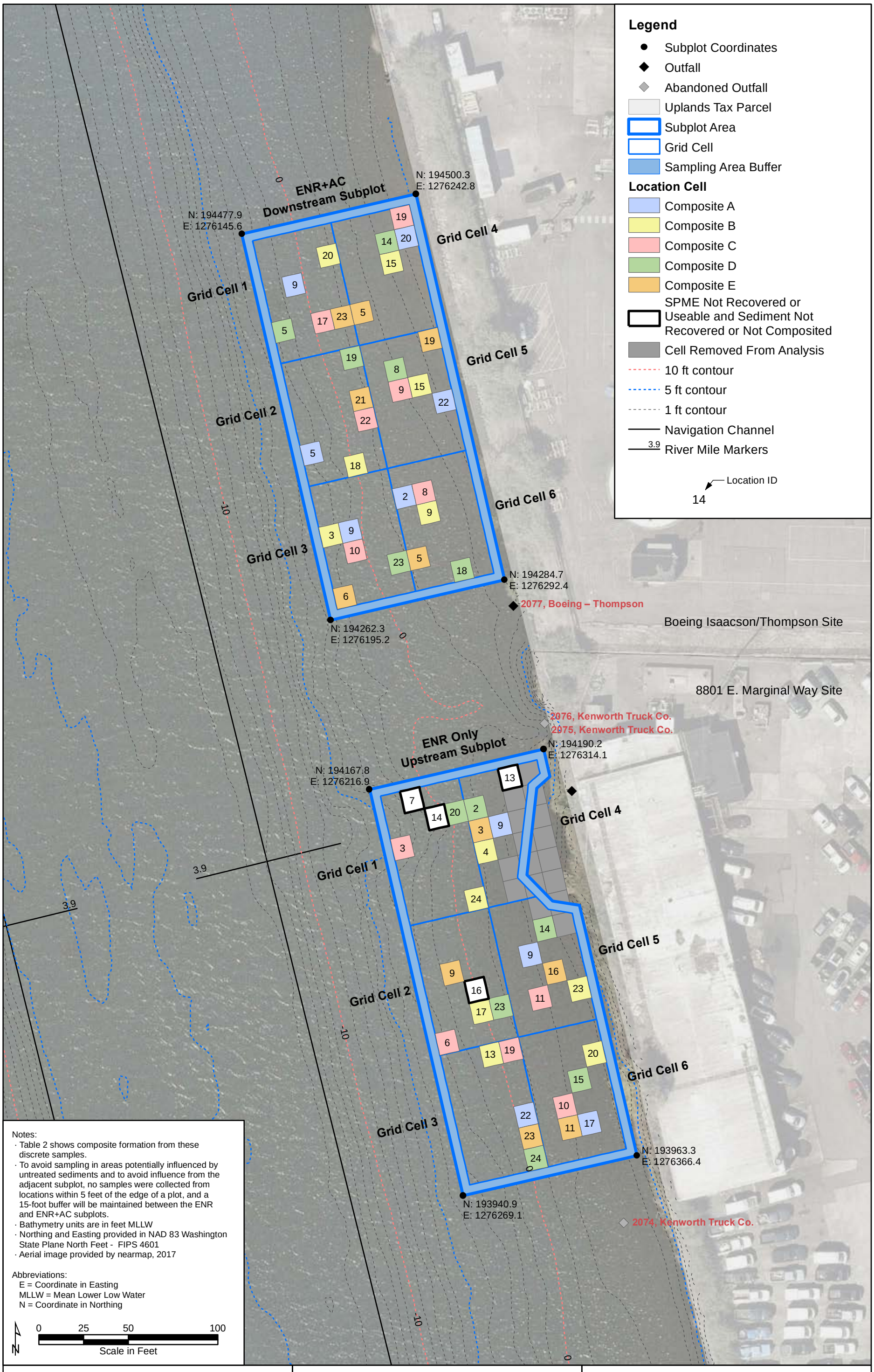
8/27/2018



I:\GIS\Projects\Wood-KC-ENR\MXD\Project Monitoring and Data Reports\Year 1 Figures\Data Package\Figure 3 Intertidal Plot Discrete Sample Locations.mxd
8/27/2018