ATTACHMENT C

LOWER NEPONSET RIVER PCBS
SAMPLE DESCRIPTION AND RATIONALE TABLES
Samples Collected from 13 to 17 November 2017 and 4 to 6 September 2018

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-01	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition and emergent wetland area along the northern bank of the Neponset River, upstream of the Baker Dam. The source sample was collected from within the surface water impoundment area, approximately 200 feet upstream of the Baker Dam to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.27072 North Latitude 71.069635 West Longitude	---	10-20	D35204/A41G7	11/15/2017 9:00	PCBs Percent Solids TOC Grain Size	Sample was collected using a Vibe-core Mini on 11/14/17 at 1130 hours in 4' of water. Core length 60", recovery 20". Material described as dark gray silt and very fine sand, trace roots and clay. Specific conductance (µS/cm) = 354; Temp. (°C) = 3.86; Turbidity (NTU) = 1.95; pH = 7.00; DO (mg/L) = 7.94; PID = 0, water had a slight sheen.
SD-02	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area, adjacent an emergent wetland area. The sample is collected along the southern bank of the Neponset River, within the surface water impoundment area, approximately 60 feet upstream of the Baker Dam, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.270543 North Latitude 71.068988 West Longitude	---	8-16	D35205/A41G8	11/15/2017 10:15	PCBs Percent Solids TOC Grain Size	Sample was collected using a Vibe-core Mini on 11/14/17 at 0916 hours in 8-10' of water. Core length 60", recovery 16". Material described as dark gray silt, little coarse gravel, trace roots, and twigs. Specific conductance (µS/cm) = 344; Temp. (°C) = 3.83; Turbidity (NTU) = 4.52; pH = 7.03; DO (mg/L) = 14.01; PID = 0, water had a slight sheen.
SD-03	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area along the southern bank of the Neponset River, upstream of the Baker Dam. The source sample collected from within the surface water impoundment area, approximately 150 feet upstream of the Baker Dam, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.270495 North Latitude 71.069288 West Longitude	---	11-22	D35208/A41H1	11/15/2017 9:15	PCBs Percent Solids TOC Grain Size	Sample was collected using a percussion corer on 11/14/17 at 1030 hours in 5' of water. Core length 48", recovery 22". Material described as gray silt and very fine sand, trace roots and clay, slight petroleum odor. Specific conductance (µS/cm) = 348; Temp. (°C) = 3.61; Turbidity (NTU) = NR; pH = 7.03; DO (mg/L) = 8.63; PID = 0.

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SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-04	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area along the northern bank of the Neponset River, within an emergent wetland area upstream of the Baker Dam. The source sample collected from within the surface water impoundment area, approximately 300 feet upstream of the Baker Da, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.270708 North Latitude 71.069901 West Longitude	---	12-24	D35209/A41H2	11/15/2017 9:30	PCBs Percent Solids TOC Grain Size	Sample was collected using a percussion corer on 11/14/17 at 1116 hours in 6' of water. Core length 48", recovery 24". Material described as dark gray silt and very fine sand, trace roots, clay and coarse gravel, slight petroleum odor. Specific conductance (µS/cm) = 350; Temp. (°C) = 3.91; Turbidity (NTU) = NR; pH = 6.92; DO (mg/L) = 15.48; PID = 0.

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SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-05	Grab sediment samples collected using a hand auger, from an upstream area located within the Pine Tree Brook channel. Sample collected upstream of the Neponset Riverwalk Trail and the Railroad Bridge and downstream of the Eliot Street Bridge, to determine the presence of any Aroclor substances within this tributary to the Lower Neponset River and to document upstream reference/background levels for comparison purposes. 42.269934 North Latitude 71.072812 West Longitude	A	6-12		11/13/2017 10:52		Sample was collected using a hand auger. Material described as brown and orange brown very coarse-to-medium sand and coarse-to-fine gravel (rocks and glass fragments), trace silt, wet. PID = 0. Sample interval not collected for analysis.
		---	12-24	D35210/A41H3	11/13/2017 11:08	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger. Material described as brown coarse-to-fine gravel and very coarse-to-medium sand, trace silt, wet. Specific conductance (µS/cm) = 159.4 Temp. (°C) = 5.9; Turbidity (NTU) = 1.39; pH = 6.44; DO (mg/L)= NR; PID = 0.
SD-06	Grab sediment samples collected using a hand auger, from a fluvial deposition area on the downstream side of the most-downstream island adjacent to a wetland area within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.270231 North Latitude 71.075337 West Longitude	A	6-12		11/13/2017 11:35		Sample was collected using a hand auger. Material described as dark brown, very fine sand, some leaves and twigs, wet, spongy. PID = 0. Sample interval not collected for analysis.
		---	12-24	D35211/A41H4	11/13/2017 11:45	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 4-6" of water. Material described as dark gray, fine sand, little organics (twigs, leaves and roots), petroleum odor and an organic-decay odor, wet. PID = 0.

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SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-07	Grab sediment samples collected using a hand auger from a fluvial deposition area along the northeastern side of a large island covered with wetland vegetation. Sample collected from adjacent to the main river channel on the downstream side of the island within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.270299 North Latitude 71.077002 West Longitude	---	6-24	D35212/A41H5	11/13/2017 12:00	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 6-8" of water. Material described as gray very coarse to fine gravel & cobble, silt and clay, some medium to coarse sand, trace roots, leaves, and twigs, wet. PID = 0.
SD-08	Grab sediment samples collected using a hand auger, from a fluvial deposition area along the northwestern side of a large island covered with wetland vegetation. Sample collected from adjacent to the main river channel on the upstream side of the island within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.269934 North Latitude 71.077754 West Longitude	---	0-6	---	11/13/2017 12:12	---	Sample interval not sampled nor classified.
		A	6-30	D35275/A41P0	11/13/2017 12:15	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 12-14" of water. Material described as dark brown silt, trace clay and fine sand, roots, organic (spongy), little gravel.. PID = 0.
		---	30-52	D35213/A41H6	11/13/2017 12:46	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 12-14" of water. Material described as brown medium-to-coarse sand, trace fine-to-coarse gravel, wet. PID = 0.

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BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-09	Grab sediment samples collected using a hand auger, from a fluvial deposition within an emergent wetland area along the west-southwestern side of a large island covered with wetland vegetation. Sample collected from within a sub-channel leading to the adjacent to the main river channel on the upstream side of the island within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.269764 North Latitude 71.079771 West Longitude	---	0-12	---	11/13/2017 14:35	---	Sample was collected using a hand auger. Sample interval not collected for analysis nor classified.
		---	12-24	---	11/13/2017 14:43	---	Sample was collected using a hand auger. Sample interval not collected for analysis nor classified.
		---	24-36	D35214/A41H7	11/13/2017 15:15	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 14' of water. Material described as dark gray fine sand, little coarse-to-fine gravel. Specific conductance (µS/cm) = 690; Temp. (°C) = 4.8; Turbidity (NTU) = NR; pH = 6.35; DO = NR; PID = 0.
SD-10	Grab sediment samples collected using a hand auger, from a fluvial deposition and emergent wetland area. Sample collected along the west-northwestern side of a large island covered with wetland vegetation. Sample collected from within a sub-channel, along the north side of the island, leading to the main river channel on the downstream side of the island within the braided channel segment of the Lower Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.269102 North Latitude 71.082110 West Longitude	---	6-18	---	11/14/2017 8:55	---	Sample was collected using a hand auger. Sample interval not collected for analysis nor classified.
		---	18-30	---	11/14/2017 8:59	---	Sample was collected using a hand auger. Sample interval not collected for analysis nor classified.
		---	30-38	D35215/A41H8	11/14/2017 9:04	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 12' of water. Material described as dark gray silt, little clay, trace fine gravel and roots, wet, oily odor. Specific conductance (µS/cm) = 630; Temp. (°C) = 4.88; Turbidity (NTU) = 0; pH = 5.745; DO = 12.82; PID = 0.

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BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-11	Grab sediment samples collected using a hand auger, from a fluvial deposition and emergent wetland area. This sample location is along the north-eastern portion of a large island covered with wetland vegetation. Sample collected from within a wetland area, surrounded by cattails (Bulrush) vegetation, along the north side of the island, on the downstream side of the island within the braided channel segment of the Lower Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.269427 North Latitude 71.080812 West Longitude	---	6-24	D35216/A41H9	11/14/2017 9:35	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in <4" of water. Material described as light gray to brown silt and very fine sand, trace clay and roots, slight petroleum odor, wet. Slight chemical-like odor smelling like naphthalene (mothball odor). PID = 0.
SD-12	Grab sediment samples collected using a hand auger, from a fluvial deposition and emergent wetland area along the north-eastern edge of the most-upstream island within the braided channel segment of the Lower Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.268474 North Latitude 71.08267 West Longitude	A	6-18	D35276/A41P1	11/14/2017 10:05	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in <12" of water. Material described as dark gray and brown silt and very fine sand, trace roots, wet, oily/petroleum odor. PID = NR.
		---	18-30	D35219/A41J2	11/14/2017 10:10	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in <12" of water. Material described as dark gray and brown silt, trace clay and coarse gravel and roots, oily/petroleum odor. PID = 0.

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LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-13	Grab sediment samples collected using a hand auger, from pa fluvial deposition area along the north-western edge of the most-upstream island within the braided channel segment of the Lower Neponset River. The island is covered by wetland vegetation and debris. Sample collected from within an emergent wetland area, along the north side of the island, on the upstream side of the island within the braided channel segment of the Lower Neponset River, approximately 300 feet downstream of the Neponset River Reservation Riverwalk Trail Bridge near Ryan's Playground (a.k.a. Harvest River Bridge), to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.268506 North Latitude 71.083752 West Longitude	---	6-18	---	11/14/2017 10:29	---	Sample was collected using a hand auger in <1" of water. Sample interval not sampled for analysis nor classified.
		---	18-36	D35220/A41J3	11/14/2017 10:44	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in <1" of water. Material described as gray silt and very fine sand, trace coarse gravel, roots and clay. PID = 0.

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BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
0	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area along the southern shoreline bank of the Neponset River, approximately 65 feet upstream of the Tileston & Hollingsworth Dam. The sample was collected within an emergent wetland area in the surface water impoundment of the Da, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.26081625 North Latitude 71.1106296 West Longitude	A	0-12	D35223/A41J6	11/15/2017 14:25	PCBs Percent Solids TOC Grain Size	Sample collect using a Vibe-core Mini on 11/15/17 at 0950 hours in 6" of water. Core length 60", recovery 38". Material described as follows: 0-12" - Dark brown silt, trace clay and roots, slight petroleum odor. 12-25" - Dark brown and gray silt and very fine sand, trace clay and roots, slight petroleum odor. 25-38" - Dark gray silt, little clay, trace very fine sand and roots, slight petroleum odor, wet. Specific conductance (µS/cm) = 605; Temp. (°C) = 5.47; Turbidity (NTU) = 0; pH = 5.9; DO (mg/L) = 8.07; PID = 0; slight sheen.
		B	12-25	D35222/A41J5	11/15/2017 14:15	PCBs Percent Solids TOC Grain Size	
		---	25-38	D35221/A41J4	11/15/2017 14:10	PCBs Percent Solids TOC Grain Size	
SD-15	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area along the northern shoreline of the Neponset River. The sample was collected within an emergent wetland area approximately 75 feet upstream Tileston & Hollingsworth Dam surface water impoundment, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.2611603 North Latitude 71.1108382 West Longitude	---	12-24	D35224/A41J7	11/15/2017 14:55	PCBs Percent Solids TOC Grain Size	Sample collected using a Vibe-core Mini on 11/15/17 at 1020 hours in 4' of water. Core length 60", recovery 24". Material described as dark gray silt, little clay, trace very fine sand and wood, slight petroleum odor. Specific conductance (µS/cm) = NR; Temp. (°C) = 5.59; Turbidity (NTU) = 0; pH = 5.67; DO (mg/L) = 11.20; PID = 0.

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BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-16	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area approximately 10 feet off the northern bank of the Neponset River, within an emergent wetland area in the Tileston & Hollingsworth Dam surface water impoundment. The sample was collected approximately 350 feet upstream of the Dam, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.2607710 North Latitude 71.1116432 West Longitude	---	0-15	D35225/A41J8	11/15/2017 15:10	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/15/17 at 1130 hours in 10' of water. Core length 48", recovery 15". Material described as dark brown silt, some clay, trace roots, slight petroleum odor. Specific conductance (µS/cm) = 609; Temp. (°C) = 5.78; Turbidity (NTU) = 0; pH = 5.888; DO (mg/L) = 16.21; PID = 0.
SD-17	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area along the southern shoreline of the Neponset River, within an emergent wetland area upstream of the Tileston & Hollingsworth Dam. The sample was collected approximately 200 feet upstream Tileston & Hollingsworth Dam, within an emergent wetland area in the surface water impoundment of the dam and downstream of the confluence of Mother Brook and the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. 42.2607566 North Latitude 71.1109988 West Longitude	---	0-17	D35225/A41J9	11/15/2017 14:40	PCBs Percent Solids TOC Grain Size	Sample collected using a Vibe-core Mini on 11/15/17 at 1010 hours in 16-18" of water. Core length 60", recovery 17". Material described as dark gray fine sand and silt, trace roots and leaves. Specific conductance (µS/cm) = 620; Temp. (°C) = 5.38; Turbidity (NTU) = 6.0; pH = 5.64; DO (mg/L) = 10.34; PID = 0.

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SEDIMENT/SOURCE SAMPLES
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BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-18	Grab sediment samples collected using a percussion corer sampler, from from a fluvial deposition area along the northern bank of the Neponset River, approximately 450 to 500 feet upstream of the Tileston & Hollingsworth Dam. Sample SD-18 collected from in an emergent wetland area within the surface water impoundment area of the dam and downstream of the confluence of Mother Brook and the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.2603297 North Latitude 71.1120111 West Longitude		13.5-27	D35226/A41K0	11/13/1715:25	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/15/17 at 1230 hours in 15' of water. Core length 48", recovery 27". Material described as gray silt, little very fine sand and clay, slight petroleum odor. Specific conductance (µS/cm) = 606; Temp. (°C) = 5.66; Turbidity (NTU) = 0; pH = 5.9; DO (mg/L) = 10.14; PID = 0.
SD-19	Grab sediment samples collected using a hand auger, from a fluvial deposition area downstream of the confluence of Mother Brook and the Neponset River, adjacent to the downstream side of the Dana Street Bridge pier (pillar) and cutwater. A cutwater is the footer designed to ease the flow of the water around the bridge, reducing the damage caused by erosion or collisions with flood-borne debris and downstream of the confluence of Mother Brook and the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.251926 North Latitude 71.12277 West Longitude	---	6-22	D35227/A41K1	11/15/2017 10:55	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger in 34" of water. Material described as dark gray fine sand and silt, some coarse gravel, little organic material (leaves, twigs). Specific conductance (µS/cm) = 311; Temp. (°C) = 4.47; Turbidity (NTU) = 0; pH = 7.07; DO (mg/L) = 15.07; PID = 0.

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13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-20	Grab sediment samples collected using a Piston Corer, Macro Core, or Vibe-core Mini sampler, from a location along Mother Brook immediately upstream of the confluence of Mother Brook and the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations.	Sample location not collected due to river bottom being armored.					
SD-21	Grab sediment samples collected using a hand auger and a Vibe-core Mini sampler, from a fluvial deposition area approximately 400 feet upstream of the confluence of Mother Brook and the Neponset River, along the northern bank of the Neponset River. The depositional area is located along the northwestern bank of the Neponset River within an emergent wetland area in a slake-water area, to determine the presence of any Aroclor substances in the Upper Neponset River and to document upstream reference/background levels for comparison purposes. 42.250687 North Latitude 71.123595 West Longitude	A	0-20	D35280/A41Q3	11/15/2017 10:53	PCBs Percent Solids TOC Grain Size	Sample collected using a Vibe-core Mini in 16" of water. Material described as dark gray very fine sand and silt, trace leaves and twigs. Specific conductance (µS/cm) = 343; Temp. (°C) = 4.49; Turbidity (NTU) = NR; pH = 7.11; DO (mg/L) = 9.70; PID = NR.
		---	20-40	D35230/A41K3	11/15/2017 11:00	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger (hand auger inserted into Vibe-core Mini boring) in 16" of water. Material described as dark gray silt and very fine sand, trace clay and twigs.

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Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-22	Grab sediment samples collected using a hand auger, from a fluvial deposition/emergent wetland area approximately 500 feet downstream of the Neponset River Canoe Launch at Martini Playground/Shell Park and approximately 150 downstream of the MBTA railroad bridge over the Neponset River. The depositional area is located along the eastern bank of the Neponset River, west of the MBTA Railroad tracks and northeast of a Hot Mix Asphalt/Sand Batching operation, located at 1586 Hyde Park Avenue, to determine the presence of any Aroclor substances in the Upper Neponset River and to document upstream reference/background levels for comparison purposes. 42.245364 North Latitude 71.127638 West Longitude	A	6-24	D35283/A41Q6	11/15/2017 14:17	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger in 8" of water. Material described as brown fine-to-medium sand, trace silt, roots and leaves. Specific conductance (µS/cm) = 330; Temp. (°C) = 4.72; Turbidity (NTU) = NR; pH = 7.11; DO (mg/L) = 8.48; PID = 0.
		---	24-48	D35231/A41K4	11/15/2017 14:23	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger in 8" of water. Material described as dark gray very fine-to-fine sand and silt, trace twigs. PID = 0.

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Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-23	Grab sediment samples collected using a hand auger, from a fluvial deposition/emergent wetland area approximately 550 feet upstream of the Neponset River Canoe Launch at Martini Playground/Shell Park. The depositional area is located along the eastern bank of the Lower Neponset River, west of the Truman Park Plaza (1025 Truman Parkway)/behind the Stop & Shop building parking lot, and north of the MTBA Railroad Operations Readville Maintenance Facility/Railway Yard (located along Walcott Court) and a scrap recycling and transfer station (also located along Walcott Court), to determine the presence and concentration levels of any Aroclor substances in the Upper Neponset River and to document upstream ecological sediment reference/background levels for comparison purposes. 42.242709 North Latitude 71.127929 West Longitude	A	12-16	D35282/A41Q5	11/15/2017 13:40	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger in 8" of water. Material described as brown very fine sand, little silt, trace roots. Specific conductance (µS/cm) = 330; Temp. (°C) = 4.58; Turbidity (NTU) = NR; pH = 7.16; DO (mg/L) = 11.02; PID = 0.
		B	16-30	D35281/A41Q4	11/15/2017 13:48	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger in 8" of water. Material described as dark brown fine sand, little silt, trace roots. PID = 0.
		---	30-48	D35232/A41K5	11/15/2017 13:51	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger in 8" of water. Material described as dark gray silt, little very fine-to-fine sand, trace clay, slight oily/petroleum odor. PID = 0.
SD-24	Grab sediment samples collected using a hand auger, from a fluvial deposition area approximately 120 feet upstream of Paul's Bridge/Neponset Valley Parkway Bridge. The depositional area is located along the southern/eastern bank of the Lower Neponset River, within a PSS/PFO wetland area in the Fowl Meadow wetland area, to determine the presence of any Aroclor substances in the Upper Neponset River and to document upstream reference/background levels for comparison purposes. 42.234167 North Latitude 71.123047 West Longitude	---	0-18	D35233/A41K6	11/16/2017 8:15	PCBs Percent Solids TOC Grain Size	Sample collected using a hand auger in 14" of water. Material described as dark brown medium-to-very coarse sand, trace coarse-to-fine gravel, silt, and leaves. Specific conductance (µS/cm) = 606; Temp. (°C) = 5.71; Turbidity (NTU) = 0; pH = 6.12; DO (mg/L) = 15.65; PID = 0.
		B		D35234/A41K7	---	---	Interval not sampled.
		A		D35235/A41K8	---	---	Interval not sampled.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-25	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area approximately 0.3 miles (1,600 feet) upstream of Paul's Bridge (Neponset Valley Parkway Bridge) and approximately 0.3 miles downstream of sediment sample location SD-26. The depositional area is located along the southern/eastern bank of the Lower Neponset River, within a PEM-PSS wetland area within the Fowl Meadow wetland area, to determine the presence and concentration levels of any Aroclor substances in the Upper Neponset River and to document upstream ecological sediment reference/background levels for comparison purposes. 42.231769 North Latitude 71.125731 West Longitude	---	19-38	D35236/A41K9	11/16/2017 13:00	PCBs Percent Solids TOC Grain Size	Sample collected using a Vibe-core Mini on 11/16/17 at 1113 hours in 8-12" of water. Core length 48", recovery 38". Material described as greenish-gray fine-to-very fine sand, trace silt, clay, and roots. Specific conductance (µS/cm) = 602; Temp. (°C) = 5.91; Turbidity (NTU) = 6.4; pH = 6.03; DO (mg/L) = 13.89; PID = 0.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-26	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area approximately 0.6 miles (3,200 feet) upstream of Paul's Bridge/Neponset Valley Parkway Bridge. The SD-26 sample location is a depositional area is located along the southern/eastern bank of the Lower Neponset River, within a PEM-PSS wetland area within the Fowl Meadow wetland, to determine the presence and concentration levels of any Aroclor substances in the Upper Neponset River and to document upstream ecological sediment reference/background levels for comparison purposes. 42.228704 North Latitude 71.129871 West Longitude	A	0-15	D35284/A41Q7	11/16/2017 12:35	PCBs Percent Solids TOC Grain Size	Sample collected using a Vibe-core Mini on 11/16/17 at 0950 hours in 10" of water. Core length 45", recovery 45". Material described as follows: 0-15" - Dark gray silt, some very fine sand, trace clay and roots. 15-30" - Dark gray silt, little clay, trace very fine sand and twigs, slight petroleum odor. 30-45" - Brownish-gray very fine sand, some silt, trace clay, slight petroleum odor. Specific conductance (µS/cm) = 605; Temp. (°C) = 5.60; Turbidity (NTU) = 14.2; pH = 6.04; DO (mg/L) = 12.83; PID = 0.
		B	15-30	D35285/A41Q8	11/16/2017 12:40	PCBs Percent Solids TOC Grain Size	
		---	30-45	D35237/A41L0	11/16/2017 12:45	PCBs Percent Solids TOC Grain Size	
SD-27	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area within the central channel of Mother Brook, adjacent an emergent wetland area upstream of the Westinghouse Dam and River Street Bridge. The sample collected from within Mother Brook, approximately 1,300 to 1,400 feet upstream of the Westinghouse Dam, to determine the presence of any Aroclor substances in Mother Brook and to document upstream reference/background levels for comparison purposes. 42.245070 North Latitude 71.137900 West Longitude	A	0-9	D35240/A41L3	11/16/2017 9:50	PCBs Percent Solids TOC Grain Size	Two co-located sediment sample cores collected using a percussion corer on 11/15/17 at 1456 hours in 6-7' of water. Core length 48", recovery 18". Material described as follows: 0-9" - Dark gray-ish brown silt, some clay, trace roots. 9-18" - Dark gray silt, some clay, trace roots. Specific conductance (µS/cm) = 562; Temp. (°C) = 6.41; Turbidity (NTU) = 6.8; pH = 5.98; DO (mg/L) = 12.84; PID = 0.
		---	9-18	D35238/A41L1	11/16/2017 10:00	PCBs Percent Solids TOC Grain Size	

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-28	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area along the northern bank of Mother Brook, within an emergent wetland area upstream of the Westinghouse Dam and the River Street Bridge. The sample collected from Mother Brook, approximately 2,100 feet upstream of the Westinghouse Dam, to determine the presence of any Aroclor substances in Mother Brook and to document upstream reference/background levels for comparison purposes. 42.2445303 North Latitude 71.1407906 West Longitude	---	0-11	---	---	---	Sample collected using percussion corer. Sample interval not collected for analysis nor classified.
		---	11-22	D35241/A41L4	11/16/2017 10:15	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/15/17 at 1530 hours in 2-3' of water. Core length 48", recovery 22". Sample described as dark gray silt, some clay, trace roots (twigs). Specific conductance (µS/cm) = 569 Temp. (°C) = 5.72; Turbidity (NTU) = 9.0; pH = 5.97; DO (mg/L) = 11.57; PID = 0.
SD-29	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area along the northern bank of Mother Brook, within an emergent wetland area approximately 2,000 feet upstream of the Westinghouse Dam, to determine the presence and concentration levels of any Aroclor substances in Mother Brook and to document upstream reference/background levels for comparison purposes. 42.244478 North Latitude 71.139812 West Longitude	---	0-8.5	---	---	---	Sample collected using percussion corer. Sample interval not collected for analysis nor classified.
		---	8.5-17	D35242/A41L5	11/16/2017 10:50	PCBs Percent Solids TOC Grain Size	Sample collected using percussion corer on 11/16/17 at 0825 hours in 1.5' of water. Core length 48", recovery 17". Sample described as dark gray and brown silt, trace clay and roots. Specific conductance (µS/cm) = 293; Temp. (°C) = 4.52; Turbidity (NTU) = 11.22; pH = 7.188; DO (mg/L) = NR; PID = 0.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-30	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area, along the northern bank of Mother Brook, within an emergent wetland area approximately 3,000 feet upstream of the Westinghouse Dam, to determine the presence and concentration levels of any Aroclor substances in Mother Brook and to document upstream ecological sediment reference/background levels for comparison purposes. 42.244925 North Latitude 71.143106 West Longitude	---	11-22	D35243/A41L6	11/16/2015 11:00	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/16/17 at 0901 hours in 3" of water. Core length 48", recovery 22". Material described as brown very fine sand, trace coarse gravel, wood debris, and silt. No water quality parameters recorded, PID = 0.
SD-31	Grab sediment samples collected using a Piston Corer, Macro Core, or Vibe-core Mini sampler, from a wetland area within Mother Brook, located adjacent/upstream of the Fairview Cemetery (45 Fairview Ave., Boston MA) and upstream of the Westinghouse Dam area, to determine the presence and concentration levels of any Aroclor substances in Mother Brook and to document upstream ecological sediment reference/background levels for comparison purposes.	---		N/A	---	---	Not sampled due to shift in locations upstream of Westinghouse Dam.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-32	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area along the southern bank of Mother Brook, within the dam impoundment upstream of the Centennial Dam. The sample collected from within Mother Brook, approximately 220 feet (west-northwest) upstream of the Centennial Dam, to determine the presence of any Aroclor substances in Mother Brook and to document upstream reference/background levels for comparison purposes. 42.245863 North Latitude 71.151872 West Longitude	---	10-20	D35245/A41L8	11/16/2017 14:15	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/16/17 at 1150 hours in 5' of water. Core length 48", recovery 20". Material described as follows: 0-10" - Dark gray-to-black silt, trace clay and twigs/roots. 10-20" - Dark brown silt and very fine sand, trace coarse gravel and roots. Specific conductance (µS/cm) = 285; Temp. (°C) = 4.232; Turbidity (NTU) = 6.09; pH = 6.97; DO (mg/L) = NR; PID = 0.
		A	0-10	D35247/A41M0	11/16/2017 14:20	PCBs Percent Solids TOC Grain Size	
SD-33	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area along the northern bank of Mother Brook, approximately 150 feet upstream of the Centennial Dam, to determine the presence of any Aroclor substances in Mother Brook and to document upstream reference/background levels for comparison purposes. 42.246252 North Latitude 71.150848 West Longitude	---	10.5-21	D35248/A41M1	11/16/2017 13:50	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/16/17 at 1220 hours in 5' of water. Core length 48", recovery 21". Material described as brown and dark gray silt, little coarse gravel (rocks, glass), trace roots and clay. Specific conductance (µS/cm) = 285; Temp. (°C) = 4.67; Turbidity (NTU) = 6.1; pH = 7.53; DO (mg/L) = 14.9; PID = 0.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-34	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area within a PEM wetland area approximately 400 feet upstream of Sawmill Lane Bridge over Mother Brook (Dedham, MA). The depositional area is located along the northeastern bank of the Mother Brook, within the Stone Mill Dam impoundment area. Sample location is within the wetland to the west of 85 Emmett Avenue, to determine the presence and concentration levels of any Aroclor substances in Mother Brook and to document upstream ecological sediment reference/background levels for comparison purposes. 42.249143 North Latitude 71.152853 West Longitude	---	5-17	D35249/A41M2	11/16/2017 15:15	PCBs Percent Solids TOC Grain Size	Sample collected using a Vibe-core Mini on 11/16/17 at 1345 hours. Core length 60", recovery 30". Material described as dark gray silt, some very fine sand, trace clay and roots. Specific conductance (µS/cm) = 500; Temp. (°C) = 6.75; Turbidity (NTU) = 162; pH = 6.08; DO (mg/L) = 13.37; PID = 0.
SD-35	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area within a PEM wetland area approximately 420 feet upstream of Sawmill Lane Bridge over Mother Brook (Dedham, MA) and approximately 110 feet west of START sediment sample location SD-35. The depositional area is located along the southeastern perimeter of a PEM wetland along the northwestern bank of the Mother Brook, within the Stone Mill Dam impoundment area. Sample location is along a peninsula covered by wetlands to the west of 85 Emmett Avenue, and northeast of Dedham Ladder 2/Engine 3 fire house at 230 Bussey Street Dedham MA, to determine the presence and concentration levels of any Aroclor substances in Mother Brook and to document upstream ecological sediment reference/background levels for comparison purposes. 42.249164 North Latitude 71.153253 West Longitude	---	0-16	D35250/A41M3	11/16/2017 15:35	PCBs Percent Solids TOC Grain Size	Sample collected using a Vibe-core Mini on 11/16/17 at 1411 hours in 10-12" of water. Core length 60", recovery 18". Material described as dark brown silt and very fine sand, trace roots and clay. No water quality parameters were recorded, PID = 0.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-36	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition /emergent wetland area along the west side of Bussey Street extension and bridge crossing over Mother Brook, within the surface water impoundment for Colburn Dam. The sample collected from within Mother Brook, approximately 30 feet west of Bussey Street and 400 feet upstream of the Colburn Dam, to determine the presence of any Aroclor substances in Mother Brook and to document upstream reference/background levels for comparison purposes. 42.250466 North Latitude 71.155826 West Longitude	A	0-12	D35286/A41Q9	11/16/2017 16:40	PCBs Percent Solids TOC Grain Size	Two co-located sediment sample cores collected using a percussion corer on 11/16/17 at 1345 hours in 10' of water. Core length 48", recovery 35". Material described as follows: 0-12" - Dark gray silt and clay, trace roots. 12-14" - Dark gray silt, some clay, trace roots. 14-35" - Dark gray silt, trace roots (peat-like). Specific conductance (µS/cm) = 274; Temp. (°C) = 4.66; Turbidity (NTU) = 0; pH = 7.23; DO (mg/L) = 14.83; PID = 0.
		B	12-24	D35287/A41R0	11/16/2017 16:35	PCBs Percent Solids TOC Grain Size	
		---	24-35	D35251/A41M4	11/16/2017 16:30	PCBs Percent Solids TOC Grain Size	
SD-37	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition/ emergent wetland area along the west side of Bussey Street extension and bridge crossing over Mother Brook, within the surface water impoundment for Colburn Dam. The sample collected from within Mother Brook, approximately 35 feet southwest of sediment sample location SD-36; 55 feet west of Bussey Street and 430 feet upstream of the Colburn Dam, to determine the presence and concentration levels of any Aroclor substances in Mother Brook and to document upstream ecological sediment reference/background levels for comparison purposes. 42.25043634 North Latitude 71.1559292 West Longitude	---	11-22	D35252/A41M5	11/16/2017 16:05	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/16/17 at 1310 hrs in 10' of water. Core length 40", recovery 22". Material described as dark gray silt, trace coarse gravel and clay and roots. Specific conductance (µS/cm) = 162; Temp. (°C) = 4.45; Turbidity (NTU) = 24.4; pH = 7.33; DO (mg/L) = 11.29; PID = 0.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-38	Grab sediment samples collected using a percussion corer sampler, from a fluvial deposition area along the northern bank of Mother Brook, within an emergent wetland area upstream of the Colburn Dam. The sample collected from within Mother Brook, approximately 900 feet west of Bussey Street Bridge and 1,200 feet upstream of the Colburn Dam, to determine the presence of any Aroclor substances in Mother Brook and to document upstream reference/background levels for comparison purposes. 42.24931 North Latitude 71.158526 West Longitude	---	10-20	D35253/A41M6	11/16/2017 16:06	PCBs Percent Solids TOC Grain Size	Sample collected using a percussion corer on 11/16/17 at 1455 hrs in 4' of water. Core length 48", recovery 20". Material described as dark gray silt, trace clay. Specific conductance (µS/cm) = 280; Temp. (°C) = 4.46; Turbidity (NTU) = 3.1; pH = 7.58; DO (mg/L) = 15.26; PID = 0.
SD-39	Field duplicate of SD-06, collected for quality control.	---	12-24	D35254/A41M7	11/13/2017 11:45	PCBs Percent Solids TOC Grain Size	See SD-06.
SD-40	Field duplicate of SD-21A, collected for quality control.	A	0-18	D35255/A41M8	11/15/2017 10:53	PCBs Percent Solids TOC Grain Size	See SD-21A.
SD-41	Grab sediment samples collected using a hand auger, from a fluvial deposition area along the northern bank of the Lower Neponset River, slightly downstream of the former Lewis Chemical facility and approximately 50-55 ft. upstream of Fairmont Avenue Bridge spanning the river, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.253024 North Latitude 71.119186 West Longitude	---	0-12	D35256/A41M9	11/14/2017 15:03	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 14-17" of water. Material described as dark gray fine sand, some silt, coarse gravel, cobbles, trace roots and debris (glass). No water quality parameters were recorded, PID = 0.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-42	Grab sediment samples collected using a hand auger, from a fluvial deposition area along the southern bank of the Lower Neponset River, approximately 150 feet downstream of the pipe discharge (possible raceway) location and approximately 370 feet downstream of the Tileston & Hollingsworth Dam. Sample location in the river slightly north-northwest (approximately 10 ft.) off the line that extents northwest parallel to the eastern wall of the dilapidated former paper mill building, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.261234 North Latitude 71.109095 West Longitude	---	0-12	D35257/A41N0	11/14/2017 13:26	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 12-14" of water. Material described as dark brown silt, trace clay and coarse gravel, roots, twigs, slight oily odor. No water quality parameters were recorded, PID = 0.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-43	Grab sediment samples collected using a hand auger, from a fluvial deposition area along the southern bank of the Lower Neponset River, immediately downstream of the 24-inch pipe discharge (possible raceway) location and approximately 230 feet downstream of the Tileston & Hollingsworth Dam. Sample location in the Neponset River down gradient the discharge point for the 24 inch pipe running parallel to the bank slope. This is also down gradient of the location where two sections of the former paper mill building meet (3-story and 2-story sections), and several the pipes extend out of the building. It appears that the bank slope beneath this section of the Riverbank has been washed of most of its finer soil particles by the discharge from the pipes, and downstream of the confluence of Mother Brook and the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.26117 North Latitude 71.109601 West Longitude	---	0-12	D35258/A41N1	11/14/2017 13:46	PCBs Percent Solids TOC Grain Size	Sample was collected using a hand auger in 24" of water. Material described as gray fine sand and silt, some coarse-to-fine gravel, trace roots. No water quality parameters were recorded, PID = 0.
SD-44	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition area along the northern bank of the Lower Neponset River, adjacent/slightly upstream of the former Lewis Chemical facility and approximately 350 ft. upstream of Fairmont Avenue Bridge spanning the river, and downstream of the confluence of Mother Brook and the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.252515 North Latitude 71.119975 West Longitude	---	13-26	D35259/A41N2	11/15/2017 10:00	PCBs Percent Solids TOC Grain Size	Sample was collected using a Vibe-core Mini on 11/14/17 at 1500 hours in 2' of water. Core length 60", recovery 26". Sample described as gray fine -to-very fine sand, some silt, trace clay and roots, slight petroleum odor. Specific conductance (µS/cm) = 352; Temp. (°C) = 4.69; Turbidity (NTU) = 40.3; pH = 6.97; DO (mg/L) = 9.61; PID = 0, slight petroleum odor and slight sheen when core removed from water.
SD-45	Field duplicate of SD-22, collected for quality control.	---	24-48	D35260/A41N3	11/15/2017 14:23	PCBs Percent Solids TOC Grain Size	See SD-22.

TABLE C-1

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (inches)	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
SD-100	Grab sediment samples collected using a Vibe-core Mini sampler, from a fluvial deposition and emergent wetland area along the southern bank of the Neponset River, upstream of the Baker Dam. The source sample was collected from within the surface water impoundment area, approximately 90 feet upstream of the Baker Dam, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. 42.270481 North Latitude 71.069031 West Longitude	A	0-6	D35277/A41P2	11/14/2017 14:20	PCBs Percent Solids TOC Grain Size	Sample was collected using a Vibe-core Mini in 18-24" of water. Core length 60", recovery 32". Sample described as follows: 0-11" - Gray silt, little leaves, twigs, little gravel, trace clay. 11-22" - Gray silt and very fine sand, trace twigs, roots. 22-32" - Gray silt and very fine sand, trace roots. No water quality parameters recorded, PID = 0, slight petroleum odor.
		B	12-22	D35278/A41P3	11/14/2017 14:23	PCBs Percent Solids TOC Grain Size	
		C	23-32	D35279/A41P4	11/14/2017 14:26	PCBs Percent Solids TOC Grain Size	

Temp (°C) = Temperature (degrees Celsius)
Spec. Cond. (µS/cm) = Specific conductance (micro Siemens per centimeter)
NTU = Nephelometric Turbidity Units
CLP = Contract Laboratory Program
DAS = Delivery of Analytical Services
CGI/O_2 (LEL/%) = Combustible Gas Indicator/Oxygen Meter (Lower Explosive Limit/Percent)
PID = Photoionization Detector
COC = Chain of Custody
ppm = parts per million
No. = Number
NR = Not Recorded.
* = Below the sediment/water interface.
" = inches.
' = feet.

Analyses: PCBs = Aroclors by SOM02.3
TOC = Total Organic Carbon (SW-846 9060/Lloyd Kahn)
Grain Size = ASTM 422 Grain Size with Hydrometer

TABLE C-2

AQUEOUS QUALITY ASSURANCE/QUALITY CONTROL SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017 and 4 THROUGH 6 SEPTEMBER 2018

Station Location	DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Aqueous QA/QC				
RB-01	D35261/A41N4	11/14/2017 12:25	PCBs TOC	Sediment/Source sampling equipment (hand auger) rinsate blank sample, collected for quality control.
RB-02	D35262/A41N5	11/14/2017 15:40	PCBs TOC	Sediment/Source sampling equipment (hand auger) rinsate blank sample, collected for quality control.
RB-03	D35263/A41N6	11/15/2017 15:00	PCBs TOC	Sediment/Source sampling equipment (hand auger) rinsate blank sample, collected for quality control.
RB-04	D35264/A41N7	11/16/2017 16:30	PCBs TOC	Sediment/Source sampling equipment (hand auger) rinsate blank sample, collected for quality control.
RB-05	D35265/A41N8	11/16/2017 16:15	PCBs TOC	Sediment/Source sampling equipment (percussion corer) rinsate blank sample, collected for quality control.
RB-01	D35487/PA41S5	9/4/2018 17:00	CLP 209 Congeners TOC	Sediment/Source sampling equipment (hand auger) rinsate blank sample, collected for quality control.
RB-02	D35488/PA41S6	9/5/2018 12:00	CLP 209 Congeners TOC	Sediment/Source sampling equipment hand auger) rinsate blank sample, collected for quality control.
RB-03	D35489/PA41S7	9/6/2018 12:00	CLP 209 Congeners TOC	Sediment/Source sampling equipment (hand auger) rinsate blank sample, collected for quality control.

DAS = Delivery of Analytical Services
CLP = Contract Laboratory Program
COC = Chain of Custody
No. = Number
QA/QC = Quality Assurance/Quality Control

Analyses: PCBs = Aroclors by SOM02.3
TOC = Total Organic Carbon (SW-846 9060/Lloyd Kahn)

TABLE C-3

PERFORMANCE EVALUATION SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
13 THROUGH 17 NOVEMBER 2017 and 4 THROUGH 6 SEPTEMBER 2018

Station Location	CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Performance Evaluation Samples				
AS1591	A41Q2	11/15/17 8:30	Aroclors	Solid PE sample for Aroclors (sediment samples).
AS1667	A41P5	11/17/17 9:00	Aroclors	Solid PE sample for Aroclors (sediment samples).
AS1900	A41P6	11/17/17 9:00	Aroclors	Solid PE sample for Aroclors (sediment samples).
C0128	PA41T1	9/7/18 10:30	209 CBCs	Solid PE sample for Congeners (sediment samples).

COC = Chain of Custody
No. = Number

Analyses: Aroclors = Aroclors by SOM02.3
209 CBCs = Contract Laboratory Program (CLP) 209 Congeners (HRSM01.2 for PCB Congeners)

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MATRIX: Sediment/Source							
WBD-C1	Grab sediment samples collected using a sludge sampler/hand auger, from a fluvial deposition and emergent wetland area along the southern bank of the Neponset River, upstream of the Baker Dam. The source sample was collected from within the surface water impoundment area, approximately 100 feet upstream of the Baker Dam to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-1	0134LN-0001	9/4/2018 10:05	Field PCBs	Sample was collected using a sludge sampler/hand auger in 6" of water. Material described as: 0-1' brown fine SAND and SILT, some organics (leaves, sticks, roots). PID = 0. 1-2' brown fine SAND and SILT, trace organics. PID = 0. 2-3' brown fine SAND and SILT. PID = 1, water had a slight oil sheen and odor when augered. 3-3.5' brown fine SAND and SILT. PID = 0. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9.
		B	1-2	0134LN-0002	9/4/2018 10:10	Field PCBs	
		C	2-3	0134LN-0003	9/4/2018 10:20	Field PCBs PCBs	
		D	3-3.5	0134LN-0004	9/4/2018 10:25	Field PCBs	
WBD-C2	Grab sediment samples collected using a sludge sampler/hand auger, from a fluvial deposition and emergent wetland area along the southern bank of the Neponset River, upstream of the Baker Dam. The source sample was collected from within the surface water impoundment area, approximately 200 feet upstream of the Baker Dam to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-1	0134LN-0005	9/4/2018 10:45	Field PCBs	Sample was collected using a sludge sampler/hand auger in 6" of water. Material described as: 0-1' brown fine SAND and SILT, some organics (leaves, sticks, roots), trace fine-to-medium gravel. PID = 0. 1-2' brown fine SAND and SILT, trace organics, trace fine-to-medium gravel. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0.
		B	1-2	0134LN-0006	9/4/2018 10:55	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
WBD-C4	Grab sediment samples collected using a percussion corer, from within a fluvial deposition and emergent wetland area along the northern bank of the Neponset River, upstream of the Baker Dam. The source sample was collected from within the surface water impoundment area, adjacent condominium patio area, approximately 50 feet upstream of the Baker Dam to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-1	0134LN-0007	9/4/2018 10:10	Field PCBs	Sample was collected using a percussion corer in 12" of water. Material described as: 0-3' dark brown organic rich SILT. 3-4' dark brown organic rich SILT and SAND. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 1 ppm.
		B	1-2	0134LN-0008	9/4/2018 10:10	Field PCBs	
		C	2-3	0134LN-0009	9/4/2018 10:10	Field PCBs	
		D	3-4	0134LN-0010	9/4/2018 10:10	Field PCBs	
WBD-C5	Grab sediment samples collected using a hand auger, from a fluvial deposition and emergent wetland area along the northern bank of the Neponset River, upstream of the Baker Dam. The source sample was collected from within the surface water impoundment area, adjacent Condominium Power House area, approximately 200 feet upstream of the Baker Dam to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-1	0134LN-0011	9/4/2018 10:30	Field PCBs	Sample was collected using a hand auger in 18" of water. Material described as: 0-2' dark brown organic rich SILT. 2-3' brown SILT, trace fine-to-coarse sand, fine-to-medium gravel, and debris (metal), saturated. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0. Oil sheen and petroleum odor noted when augering.
		B	1-2	0134LN-0012	9/4/2018 10:36	Field PCBs	
		C (SD-01)	2-3	0134LN-0013/ D35475/ PA41R3/A41R3	9/4/2018 10:45	Field PCBs 209 CBCs TOC % solids	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
PTB-C1	Grab sediment samples collected using a hand auger, from a point bar in an upstream area located within the Pine Tree Brook tributary channel to the Neponset River. Sample collected in the brook, upstream of the Neponset Riverwalk Trail and the Railroad Bridge overpass and downstream of the Elliot Street Bridge/Brook Hill Road, to determine the presence of any Aroclor substances within this tributary to the Lower Neponset River and to document upstream reference/background levels for comparison purposes. North Latitude West Longitude	A (SD-02)	0-1	0134LN-0014/ D35476/ PA41R4/A41R4	9/4/2018 11:35	Field PCBs PCBs 209 CBCs TOC % solids	Sample was collected using a hand auger in <1" of water. Material described as: 0-1' orange-brown medium -to-coarse SAND, some fine-to-medium gravel, little fine-to-medium sand, trace silts, debris (glass, metal), and organics. 1-2' Material described as brown-to-yellow brown coarse-to-medium SAND, little fine sand and silt. Specific conductance (µS/cm) = 0.145; Temp. (°C) = 24.9; Turbidity (NTU) = 1.03; pH = 6.65; PID = 0.
		B	1-2	0134LN-0015	9/4/2018 11:38	Field PCBs	
BCA-C1	Grab sediment samples collected using a hand auger, from a fluvial deposition area on the downstream side of the most-downstream island adjacent to a wetland area within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1	0134LN-0016	9/4/2018 14:35	Field PCBs	Sample was collected using a hand auger from along the edge of the island and with emergent wetland vegetation. Material described as: 0-3" brown fine SAND and SILT, little organics (roots, leaves). 3-6" gray medium-to-coarse SAND and SILT, some medium gravel. 6"-1.5' gray medium-to-coarse SAND and SILT, some medium-to-coarse gravel. Specific conductance (µS/cm) = 0.73; Temp. (°C) = 26.8; Turbidity (NTU) = 2.59; pH = 7.39; ORP (mV) = -93.9; PID = 0.
		B	1-2	0134LN-0017	9/4/2018 14:45	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
BCA-C2	Grab sediment samples collected using a hand auger, from a fluvial deposition area in a wetland area, within a dry river channel on the most-downstream island, within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1	0134LN-0018	9/4/2018 14:20	Field PCBs	Sample was collected using a hand auger; no surface water present. Material described as: 0-1.9' brown SILT. 1.9-3.3' gray sandy GRAVEL, little silt. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0.
		B	1-1.9	0134LN-0019	9/4/2018 14:45	Field PCBs	
		C	1.9-3	0134LN-0020	9/4/2018 14:57	Field PCBs	
		D	3-3.3	0134LN-0021	9/4/2018 15:09	Field PCBs	
BCA-C3	Grab sediment samples collected using a hand auger, from a fluvial deposition area on the downstream southern side of the large central island, within a wetland area within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1	0134LN-0022	9/4/2018 15:50	Field PCBs	Sample was collected using a hand auger from a wetland area within the central island area, hole backfilled with water. . Material described as: 0-1' SAND and SILT, trace organics. 1-1.8' brown SILT, little clay, wet. 1.8-3.8' SILT and SAND, wet. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0.
		B	1-1.8	0134LN-0023	9/4/2018 15:55	Field PCBs	
		C (SD-03)	1.8-2.2	0134LN-0024/ D35477/ PA41R5/A41R5	9/4/2018 16:00	Field PCBs PCBs 209 CBCs TOC % solids	
		D	2.2-2.5	0134LN-0025	9/4/2018 16:05	Field PCBs	
		E	2.5-3	0134LN-0026	9/4/2018 16:10	Field PCBs	
		F	3-3.8	0134LN-0027	9/4/2018 16:13	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
BCA-C4	Grab sediment samples collected using a hand auger, from a fluvial deposition area, within a wetland area along the northern side of the river bank on the Large Western Island within the upstream portion of the Braided Channel Area segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1	0134LN-0028	9/4/2018 17:05	Field PCBs	Sample was collected using a hand auger from a wetland area. Material described as: 0-2' dark brown fine SAND and SILT. 2-2.5' brown and gray fine SAND. 2.5-3' gray fine SAND. 3-4' dark gray coarse -to-fine SAND. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0.
		B	1-2	0134LN-0029	9/4/2018 17:10	Field PCBs PCBs	
		C	2-2.5	0134LN-0030	9/4/2018 17:15	Field PCBs	
		D	2.5-3	0134LN-0031	9/4/2018 17:20	Field PCBs	
		E	3-4	0134LN-0032	9/4/2018 17:25	Field PCBs	
BCA-C5	Grab sediment samples collected using a hand auger, from a fluvial deposition area, within a wetland area along the southern side of the Large Western Island within the upstream portion of the Braided Channel Area segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-0.8	0134LN-0033	9/4/2018 17:20	Field PCBs	Sample was collected using a hand auger from a wetland area along the southern side of the large northern island. Material described as: 0-0.8' dark brown fine SAND and SILT, trace organics. 0.8-1.7' light brown-orange fine-to-coarse SAND, moist. 1.7-2.5' brown fine SAND and SILT, wet. 2.5-4' dark brown SILT and fine SAND, trace organics, wet. 4-4.8' SILT and SAND, some gravel, wet. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0.
		B	0.8-1.7	0134LN-0034	9/4/2018 17:30	Field PCBs	
		C	1.7-2.5	0134LN-0035	9/4/2018 17:35	Field PCBs	
		D (SD-04)	2.5-4	0134LN-0036/ D35478/ PA41R6/A41R6	9/4/2018 17:40	Field PCBs 209 CBCs TOC % solids	
		E	4-4.8	0134LN-0037	9/4/2018 17:45	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
BCA-C6	Grab sediment samples collected using a hand auger, from a fluvial deposition area, from within a wetland area on the large central Island, within the braided channel segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-0.8	0134LN-0038	9/5/2018 17:20	Field PCBs	Sample was collected using a hand auger. Petroleum/oil noted in sediments in hole below 2 feet. Material described as: 0-0.8' dark brown fine SAND and SILT, trace organics. 0.8-1.7' light brown-orange fine-to-coarse SAND, moist. 1.7-2.5' brown fine SAND and SILT, wet. 2.5-4' dark brown SILT and SAND, wet. 4-4.8' SILT and SAND, some gravel, wet. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0.
		B	0.8-1.7	0134LN-0039	9/5/2018 17:30	Field PCBs	
		C	1.7-2.5	0134LN-0040	9/5/2018 17:35	Field PCBs	
		D	2.5-4	0134LN-0041	9/5/2018 17:40	Field PCBs	
		E	4-4.8	0134LN-0042	9/5/2018 17:45	Field PCBs	
		F	0.8-1.7	0134LN-0043	9/5/2018 17:30	Field PCBs	
		G	1.7-2.5	0134LN-0044	9/5/2018 17:35	Field PCBs	
		H	2.5-4	0134LN-0045	9/5/2018 17:40	Field PCBs	
		I	4-4.8	0134LN-0046	9/5/2018 17:45	Field PCBs	
BCA-C7	Grab sediment samples collected using a hand auger, from a fluvial deposition area, within a wetland area along the southern side of the Large Western Island within the upstream portion of the Braided Channel Area segment of the Neponset River, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1.3	0134LN-0047	9/5/2018 9:25	Field PCBs	Sample was collected using a hand auger from a wetland area along the southern side of the large northern island. Material described as: 0-0.8' dark brown fine SAND and SILT, trace organics. 0.8-1.7' light brown-orange fine-to-coarse SAND, moist. 1.7-2.5' brown fine SAND and SILT, wet. 2.5-4' dark brown SILT and fine SAND, wet. 4-4.8' SILT and SAND, some gravel, wet. Specific conductance (µS/cm) = 0.83; Temp. (°C) = 24.5; Turbidity (NTU) = 4.01; pH = 7.19; ORP (mV) = -143.9; PID = 0.
		B	1.3-2	0134LN-0048	9/5/2018 9:30	Field PCBs	
		C	2-3	0134LN-0049	9/5/2018 9:36	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
THD-C1	Grab sediment samples collected using a hand auger, from a fluvial deposition area approximately 10 feet off the southern bank of the Neponset River, within an emergent wetland area in the Tileston & Hollingsworth Dam surface water impoundment. The sample was collected approximately 30 feet upstream of the Dam, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1	0134LN-0050	9/5/2018 12:55	Field PCBs	Sample was collected using a hand auger from a wetland area along the southern side of the river. Material described as: 0-1' brown SAND and SILT, trace organics, wet. 1-2' brown SAND and SILT, trace fine gravel, wet. 2-3' brown SILT and SAND wet. 3-4' brown SILT and SAND, wet. 4-5' 5-6' brown SILT, trace fine-to-coarse sand, fine-to-medium gravel, organics, clay, saturated. 6-6.5 brown SILT, little clay, organics. 6.5-7' Specific conductance (µS/cm) = 0.88; Temp. (°C) = 25.5; Turbidity (NTU) = 6.05; pH = 7.04; ORP (mV) = 84.8; PID = 0.
		B	1-2	0134LN-0051	9/5/2018 12:58	Field PCBs	
		C	2-3	0134LN-0052	9/5/2018 13:00	Field PCBs	
		D	3-4	0134LN-0053	9/5/2018 13:03	Field PCBs	
		E	4-5	0134LN-0054	9/5/2018 13:05	Field PCBs	
		F (SD-07)	5-6	0134LN-0055/ D35481/ PA41R9/A41R9	9/5/2018 13:10	Field PCBs 209 CBCs TOC % solids	
		G (SD-05)	6-6.5	0134LN-0056/ D35479/ PA41R7/A41R7	9/5/2018 13:15	Field PCBs 209 CBCs TOC % solids	
		H	6.5-7	0134LN-0057	9/5/2018 13:20	Field PCBs	
THD-C2	Grab sediment samples collected using a hand auger, from a fluvial deposition area approximately 10 feet off the northern bank of the Neponset River, within an emergent wetland area in the Tileston & Hollingsworth Dam surface water impoundment. The sample was collected approximately 50 feet upstream of the Dam, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1	0134LN-0058	9/5/2018 13:35	Field PCBs	Sample was collected using a hand auger from a wetland area along the southern side of the river. Material described as: 0-1' brown SAND and SILT, wet. 1-2' brown SAND and SILT, wet. 2-3' brown SILT and SAND, trace fine gravel, wet. 3-4' brown fine SAND and SILT, medium gravel. Specific conductance (µS/cm) = 0.88; Temp. (°C) = 25.5; Turbidity (NTU) = 6.05; pH = 7.04; ORP (mV) = 84.8; PID = 0.
		B	1-2	0134LN-0059	9/5/2018 13:40	Field PCBs	
		C	2-3	0134LN-0060	9/5/2018 13:45	Field PCBs	
		D	3-4	0134LN-0061	9/5/2018 13:50	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
THD-C3	Grab sediment samples collected using a hand auger, from a fluvial deposition area approximately 10 feet off the northern bank of the Neponset River, within an emergent wetland area in the Tileston & Hollingsworth Dam surface water impoundment. The sample was collected approximately 50 feet upstream of the Dam, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations, as well as document ecological impacts. North Latitude West Longitude	A	0-1	0134LN-0062	9/5/2018 13:05	Field PCBs	Sample was collected using a hand auger from a wetland area along the southern side of the river. Material described as: 0-1' dark brown-to-gray SAND and SILT, little medium gravel. 1-2.5' dark brown SAND and SILT, medium-to-coarse gravel. Specific conductance (µS/cm) = 0.88; Temp. (°C) = 25.5; Turbidity (NTU) = 6.05; pH = 7.04; ORP (mV) = 84.8; PID = 0.
		B	1-2	0134LN-0063	9/5/2018 13:12	Field PCBs	
		C	2-2.5	0134LN-0064	9/5/2018 13:16	Field PCBs	
LCA-C1	Grab sediment samples collected using a hand auger, from a fluvial deposition area along the northern bank of the Lower Neponset River, slightly downstream of the former Lewis Chemical facility and approximately 50-55 ft. upstream of Fairmount Avenue Bridge spanning the river, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-0.8	0134LN-0065	9/5/2018 15:40	Field PCBs	Sample was collected using a hand auger from a wetland area along the western side of the river in approximately 8" of water. Material described as: 0.0 - 0.8' brown-to-dark brown SILT, trace fine-to-medium sand, gravel, clay, and organics. Both samples collected from same interval immediately adjacient locations. Specific conductance (µS/cm) = 0.86; Temp. (°C) = 25.6; Turbidity (NTU) = 7.27; pH = 6.71; ORP (mV) = 125.5; PID = 0.
		B	0-0.8	0134LN-0066	9/5/2018 15:40	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
LCA-C2	Grab sediment samples collected using a hand auger, from a fluvial deposition area along the northern bank of the Lower Neponset River, slightly downstream of the former Lewis Chemical facility and approximately 200 ft. upstream of Fairmount Avenue Bridge spanning the river, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-1	0134LN-0067	9/5/2018 16:20	Field PCBs	Sample was collected using a hand auger from a wetland area along the western side of the river in approximately 8" of water. Material described as: (A) - 0.0 - 1.0' brown-to-dark brown SILT, trace fine-to-medium sand, gravel, clay, and organics. (B) - 1.0 - 2.0' brown-to-dark brown SILT, trace fine-to-medium sand, gravel, clay, and organics. (C) -2.0 - 3.0' brown-to-dark brown SILT, trace fine-to-medium sand, gravel, and clay. (D) - 3-4' brown-to-dark brown SILT, trace fine-to-medium sand and gravel and clay. (E) - 4-5' brown-to-dark brown SILT, trace fine-to-medium sand and gravel and clay. Specific conductance (µS/cm) = 0.86; Temp. (°C) = 25.6; Turbidity (NTU) = 7.27; pH = 6.71; ORP (mV) = 125.5; PID = 0.
		B	1-2	0134LN-0068	9/5/2018 16:22	Field PCBs	
		C	2-3	0134LN-0069	9/5/2018 16:24	Field PCBs	
		D	3-4	0134LN-0070	9/5/2018 16:26	Field PCBs	
		E (SD-06)	4-5	0134LN-0071/ D35480/ PA41R8/A41R8	9/5/2018 16:28	Field PCBs 209 CBCs TOC % solids	
LCA-C3	Grab sediment samples collected using a hand auger, from a fluvial deposition area along the northern bank of the Lower Neponset River, slightly downstream of the former Lewis Chemical facility and approximately 200 ft. upstream of Fairmount Avenue Bridge spanning the river, to determine the presence and level of any hazardous Aroclor substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-1	0134LN-0072	9/5/2018 16:15	Field PCBs	Sample was collected using a hand auger from a wetland area along the western side of the river in approximately 8" of water. Material described as: (A) - 0.0 - 1.0' brown-to-dark brown SILT, trace fine-to-medium sand, gravel, clay, and organics. (B) - 1.0 - 2.0' brown-to-dark brown SILT, trace fine-to-medium sand, gravel, clay, and organics. (C) -2.0 - 3.0' brown-to-dark brown SILT, trace fine-to-medium sand, gravel, and clay. (D) - 3-4' brown SILT and fine-to-medium SAND, trace coarse sand, fine gravel, clay, and organics. Specific conductance (µS/cm) = 0.86; Temp. (°C) = 25.6; Turbidity (NTU) = 7.27; pH = 6.71; ORP (mV) = 125.5; PID = 0. Slight petroleum odor and sheen on the water when augering.
		B	1-2	0134LN-0073	9/5/2018 16:18	Field PCBs	
		C	2-3	0134LN-0074	9/5/2018 16:20	Field PCBs	
		D (SD-11)	3-4	0134LN-0075/ D35485/ PA41S3/A41S3	9/5/2018 16:24	Field PCBs 209 CBCs TOC % solids	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
MBC-C1	Grab sediment sample collected from potentially contaminated source area located upstream of the Tileston & Hollingsworth Dam and downstream of the confluence of Mother Brook and the Neponset River, approximately 125 feet east of the Dana Ave bridge. Sample collected for PCB Congener analysis to determine the presence and level of any hazardous PCB substances within the Lower Neponset River for waste source and observed release evaluations. North Latitude West Longitude	A	0-0.5	0134LN-0076	9/5/2018 17:20	Field PCBs	Sample was collected using a hand auger. Material described as: 0.0-0.5' dark brown, organic rich SILT, little sand, trace fine-to-coarse gravel, and plant debris.. 0.5-1.5' dark brown, organic rich SILT, some sand, trace gravel, . 2.5 -3' light brown sandy SILT and CLAY, trace gravel and organics. 3-3.5' brown SILTY SAND, trace gravel, clay, and organics. 3.5-4' dark brown, organic rich SILT, some sand, trace gravel. 4-5' dark brown, organic rich SILT, little sand, Specific conductance (µS/cm) = 0.86; Temp. (°C) = 26.2; Turbidity (NTU) = 6.36; pH = 7.26; PID = 0.
		B	0.5-1.5	0134LN-0077	9/5/2018 17:20	Field PCBs	
		C	1.5-2.5	0134LN-0078	9/5/2018 17:22	Field PCBs	
		D	2.5-3	0134LN-0079	9/5/2018 17:25	Field PCBs	
		E	3-3.5	0134LN-0080	9/5/2018 17:26	Field PCBs	
		F	3.5-4	0134LN-0081	9/5/2018 17:28	Field PCBs	
		G	4-5	0134LN-0082	9/5/2018 17:32	Field PCBs	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
UMB-C1	Grab sediment sample collected from an area within the Mother Brook upstream of the confluence of Mother Brook and the Neponset River, approximately 750 feet upstream of the Westinghouse Dam. Sample collected for PCB Congener analysis to determine the presence and level of any hazardous PCB substances within the Upstream segment of Mother Brook to document upstream reference/background levels for comparison purposes. North Latitude West Longitude	A	0-1	0134LN-0086	9/6/2018 9:40	Field PCBs	Sample was collected using a hand auger. Material described as: 0-1' black, organic rich SILT, little sand, trace fine-to-coarse gravel. 1-2' black organic rich SILT, some sand, trace gravel. 2-3' black SILT and CLAY, trace sand and organics. 3-4' black SILTY SAND, trace gravel, clay, and organics. Specific conductance (µS/cm) = 0.86; Temp. (°C) = 26.2; Turbidity (NTU) = 6.36; pH = 7.26; PID = 0.
		B	1-2	0134LN-0087	9/6/2018 9:43	Field PCBs	
		C	2-3	0134LN-0088	9/6/2018 9:46	Field PCBs	
		D	3-3.5	0134LN-0089	9/6/2018 9:55	Field PCBs	
UMB-C2	Grab sediment sample collected from an area within the Mother Brook upstream of the confluence of Mother Brook and the Neponset River, approximately 1,200 feet upstream of the Centennial Dam. Sample collected for PCB Congener analysis to determine the presence and level of any hazardous PCB substances within the Upstream segment of Mother Brook to document upstream reference/background levels for comparison purposes. North Latitude West Longitude	A	0-1	0134LN-0090	9/6/2018 10:52	Field PCBs	Sample was collected using a hand auger collected in 6" of water. Material described as: 0-1' dark brown-to-black organic rich SILT, trace clay. 1-2' dark brown-to-black organic rich SILT, some fine-to-coarse sand. 2-3' black organic rich SILT, some fine-to-coarse sand, little clay, trace fine-to-coarse gravel. Specific conductance (µS/cm) = 0.94; Temp. (°C) = 27.4; Turbidity (NTU) = 4.64; pH = 7.05; PID = 0.
		B	1-2	0134LN-0091	9/6/2018 10:54	Field PCBs	
		C (SD-10)	2-3	0134LN-0092/ D35484/ PA41S2/A41S2	9/6/2018 11:02	Field PCBs 209 CBCs TOC % solids	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
UNR-C1	Grab sediment sample collected from an area within the Upper Neponset River, located adjacent to the Martini Playground. Sample collected for PCB Congener analysis to determine the presence and level of any hazardous PCB substances within the Upper Neponset River to document upstream reference/background levels for comparison purposes. North Latitude West Longitude	A	0-1	0134LN-0093	9/6/2018 13:00	Field PCBs	Sample was collected using a hand auger collected in 6" of water. Material described as: 0-2' dark gray coarse-to-fine SAND. 2-3' light-to-medium gray coarse-to-fine SAND. Specific conductance (µS/cm) = 0.71; Temp. (°C) = 25.8; Turbidity (NTU) = 4.36; pH = 6.74; PID = 0.
		B	1-2	0134LN-0094	9/6/2018 13:10	Field PCBs	
		C	2-3	0134LN-0095	9/6/2018 13:15	Field PCBs	
UNR-C2	Grab sediment sample collected from an area within the Upper Neponset River, located behind the Stop & Shop. Sample collected for PCB Congener analysis to determine the presence and level of any hazardous PCB substances within the Upper Neponset River to document upstream reference/background levels for comparison purposes. North Latitude West Longitude	A	0-1	0134LN-0096	9/6/2018 13:51	Field PCBs	Sample was collected using a hand auger collected in 12" of water. Material described as: 0-1' dark brown SILTY SAND, trace clay and organics. 1-2' dark brown SANDY SILT, trace clay and organics. 2-3' dark brown SILT, little fine-to-medium sand, trace clay and organics. 3-4' dark brown SILT, little fine-to-medium sand, little clay, trace organics. Specific conductance (µS/cm) = 0.77; Temp. (°C) = 25.6; Turbidity (NTU) = 4.03; pH = 6.95; PID = 0. Slight petroleum/oily odor.
		B	1-2	0134LN-0097	9/6/2018 13:55	Field PCBs	
		C	2-3	0134LN-0098	9/6/2018 13:58	Field PCBs	
		D (SD-08)	3-4	0134LN-0099/ D35482/ PA41S0/A41S0	9/6/2018 14:03	Field PCBs 209 CBCs TOC % solids	

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
UNR-C3	Grab sediment sample collected from an area within the Upper Neponset River, located approximately 1,000 feet upstream of Paul's Bridge. Sample collected for PCB Congener analysis to determine the presence and level of any hazardous PCB substances within the Upper Neponset River to document upstream reference/background levels for comparison purposes. North Latitude West Longitude	A (SD-09)	0-1	0134LN-0100/ D35483/ PA41S1/A41S1	9/6/2018 15:15	Field PCBs 209 CBCs TOC % solids	Sample was collected using a hand auger collected in 18" of water. Material described as: 0-1' brown-to-dark brown SILT, little clay, trace clay and fine-to-medium sand.. Specific conductance (µS/cm) = 0.71; Temp. (°C) = 25.6; Turbidity (NTU) = 4.26; pH = 6.75; PID = 0.
		B	1-2	0134LN-0101	9/6/2018 15:19	Field PCBs	
		C	2-3	0134LN-0102	9/6/2018 15:21	Field PCBs	
		D	3-4	0134LN-0103	9/6/2018 15:28	Field PCBs	
BCA-C103	Field duplicate of BCA-C3D	D	3-3.8	0134LN-0083	9/4/2018 16:13	Field PCBs	See BCA-C1D.

TABLE C-4

SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS
BOSTON/MILTON, MASSACHUSETTS
4 THROUGH 6 SEPTEMBER 2018

Station Location	Location Description/Rationale	Sub-location	Sample Depth* (feet)	Scribe Sample No/ DAS Sample No./ CLP Sample No.	Date and Time (hours)	Analysis	Sample Description
BCA-C101	Field duplicate of BCA-C1A	A	0-1	0134LN-0084	9/4/2018 14:35	Field PCBs	See BCA-C1A
THD-C101	Field duplicate of THD-C1D	D	3-4	0134LN-0085	9/5/2018 13:03	Field PCBs	See THD-C1D
THD-C102	Field duplicate of THD-C2D	D	2-3	0134LN-0104	9/5/2018 13:45	Field PCBs	See THD-C2D.
BCA-C105D	Field Duplicate of BCA-C5D	D (SD-12)	2.5-4	NA/ D35486/ PA41S4/A41S4	9/4/2018 17:40	Field PCBs 209 CBCs TOC % solids	See BCA-C5D

Temp (°C) = Temperature (degrees Celsius)
Spec. Cond. (µS/cm) = Specific conductance (micro Siemens per centimeter)
NTU = Nephelometric Turbidity Units
ORP (mV) = Oxidation-Reduction Potential (milliVolts)
CLP = Contract Laboratory Program
DAS = Delivery of Analytical Services
CGI/O_2 (LEL/%) = Combustible Gas Indicator/Oxygen Meter (Lower Explosive Limit/Percent)
PID = Photoionization Detector
COC = Chain of Custody
ppm = parts per million
No. = Number
NR = Not Recorded.
* = Below the sediment/water interface.
" = inches.
' = feet.
NA = Not assigned

Analyses: Field PCBs = Field Screening Polychlorinated biphenyls (EPA Region 1 SOP, EIASOP-FLDPCB3).
PCBs = PCBs Medium Level in Soils and Sediments (EPA Region 1 SOP, EIASOP-PESTSOIL4)
209 CBCs = Contract Laboratory Program (CLP) 209 Congeners (HRSM01.2 for PCB Congeners)
TOC = Total Organic Carbon (SW-846 9060/Lloyd Kahn)
% solids = Percent solids

ATTACHMENT D
LOWER NEPONSET RIVER PCBS
START ANALYTICAL RESULTS TABLES
Samples Collected from 13 to 17 November 2017

SITE: LOWER NEPONSET RIVER PCB
CASE: 47280 SDG: A41G7
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	A41G7	A41G8	A41H1	A41H2	A41J4	A41J5
		SAMPLE IDENTIFIER	D35204	D35205	D35208	D35209	D35221	D35222
		STATION LOCATION	SD-01	SD-02	SD-03	SD-04	SD-14	SD-14B
		LABORATORY NUMBER	I6545-01	I6545-02	I6545-03	I6545-04	I6545-05	I6545-08
COMPOUND	MDL	CRQL						
Aroclor-1016	1.7	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1221	2.2	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1232	0.87	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1242	1.2	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1248	1.6	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1254	1.6	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1260	2.2	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1262	1.3	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
Aroclor-1268	1.2	33	64 U	72 UJ[1]	65 U	72 UJ[1]	85 U	97 UJ[1]
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
		DATE EXTRACTED	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
		DATE ANALYZED	11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017
		SAMPLE WEIGHT (GRAMS)	30.0	30.1	30.1	30.1	30.1	30.1
		% SOLID	51.7	45.8	50.9	46.0	38.8	33.9

S3VEM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-Detect results are estimated due to surrogate recoveries below the lower recovery limit.
J+[2] = Positve detect results are estimated with a high bias (J+) due to surrogate recoveries exceeding the upper recovery limit.
J[3] = %D between dual-column results was ≥25.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:

Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCB
CASE: 47280 SDG: A41G7
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	A41J6	A41J7	A41J8	A41J9	A41K0	A41K1
		SAMPLE IDENTIFIER	D35223	D35224	D35225	D35226	D35227	D35228
		STATION LOCATION	SD-14A	SD-15	SD-16	SD-17	SD-18	SD-19
		LABORATORY NUMBER	I6545-09	I6545-10	I6545-11	I6545-12	I6545-13	I6545-14
COMPOUND	MDL	CRQL						
Aroclor-1016	1.7	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
Aroclor-1221	2.2	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
Aroclor-1232	0.87	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
Aroclor-1242	1.2	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
Aroclor-1248	1.6	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
Aroclor-1254	1.6	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
Aroclor-1260	2.2	33	68 UJ[1]	74 U	69 U	68 U	**45 J[3]**	**78 J+[2]**
Aroclor-1262	1.3	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
Aroclor-1268	1.2	33	68 UJ[1]	74 U	69 U	68 U	45 U	58 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
DATE EXTRACTED			11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
DATE ANALYZED			11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017
SAMPLE WEIGHT (GRAMS)			50.1	30.1	30.1	30.0	30.1	30.1
% SOLID			29.1	44.5	47.8	48.8	72.7	57.1

S3VEM DATA VALIDATION
QUALIFIER COMMENTS: U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-Detect results are estimated due to surrogate recoveries below the lower recovery limit.
J+[2] = Positve detect results are estimated with a high bias (J+) due to surrogate recoveries exceeding the upper recovery limit.
J[3] = %D between dual-column results was ≥25.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:
Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCB
CASE: 47280 SDG: A41G7
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	**A41K3**	**A41K5**	**A41K6**	**A41K9**	**A41L0**	**A41L1**
		SAMPLE IDENTIFIER	**D35230**	**D35232**	**D35233**	**D35236**	**D35237**	**D35238**
		STATION LOCATION	**SD-21**	**SD-23**	**SD-24**	**SD-25**	**SD-26**	**SD-27**
		LABORATORY NUMBER	**I6545-15**	**I6545-16**	**I6545-17**	**I6545-18**	**I6545-19**	**I6545-20**
COMPOUND	**MDL**	**CRQL**						
Aroclor-1016	**1.7**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
Aroclor-1221	**2.2**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
Aroclor-1232	**0.87**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
Aroclor-1242	**1.2**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
Aroclor-1248	**1.6**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
Aroclor-1254	**1.6**	**33**	**49 J[3]**	**70 J[3]**	42 U	**46 J[3]**	54 UJ[1]	84 U
Aroclor-1260	**2.2**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
Aroclor-1262	**1.3**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
Aroclor-1268	**1.2**	**33**	58 U	56 U	42 U	45 U	54 UJ[1]	84 U
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/15/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
		DATE EXTRACTED	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
		DATE ANALYZED	11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017
		SAMPLE WEIGHT (GRAMS)	30.1	30.0	30.0	30.1	30.1	30.0
		% SOLID	56.4	59.5	79.2	73.9	61.0	39.5

S3VEM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-Detect results are estimated due to surrogate recoveries below the lower recovery limit.
J+[2] = Positve detect results are estimated with a high bias (J+) due to surrogate recoveries exceeding the upper recovery limit.
J[3] = %D between dual-column results was ≥25.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:
Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCB
CASE: 47280 SDG: A41G7
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	**A41L3**	**A41M3**				
		SAMPLE IDENTIFIER	**D35240**	**D35250**				
		STATION LOCATION	**SD-27A**	**SD-35**				
		LABORATORY NUMBER	**I6545-21**	**I6545-22**				
COMPOUND	**MDL**	**CRQL**						
Aroclor-1016	**1.7**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1221	**2.2**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1232	**0.87**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1242	**1.2**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1248	**1.6**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1254	**1.6**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1260	**2.2**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1262	**1.3**	**33**	100 UJ[1]	57 UJ[1]				
Aroclor-1268	**1.2**	**33**	100 UJ[1]	57 UJ[1]				
		DILUTION FACTOR	1.0	1.0				
		DATE SAMPLED	11/16/2017	11/16/2017				
		DATE EXTRACTED	11/20/2017	11/20/2017				
		DATE ANALYZED	11/27/2017	11/27/2017				
		SAMPLE WEIGHT (GRAMS)	50.1	30.1				
		% SOLID	19.5	58.2				

S3VEM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-Detect results are estimated due to surrogate recoveries below the lower recovery limit.
J+[2] = Positve detect results are estimated with a high bias (J+) due to surrogate recoveries exceeding the upper recovery limit.
J[3] = %D between dual-column results was ≥25.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:

Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47280 SDG: A41H3
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 2
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	A41H3	A41H4	A41H5	A41H6	A41H7	A41H8
		SAMPLE IDENTIFIER	D35210	D35211	D35212	D35213	D35214	D35215
		STATION LOCATION	SD-05	SD-06	SD-07	SD-08	SD-09	SD-10
		LABORATORY NUMBER	I6502-01	I6505-02	I6505-05	I6505-06	I6505-07	I6505-08
COMPOUND	MDL	CRQL						
Aroclor-1016	1.7	33	39 U	81 U	39 U	40 U	45 UJ[1]	60 U
Aroclor-1221	2.2	33	39 U	81 U	39 U	40 U	45 UJ[1]	60 U
Aroclor-1232	0.87	33	39 U	81 U	39 U	40 U	45 UJ[1]	60 U
Aroclor-1242	1.2	33	39 U	81 U	39 U	40 U	45 UJ[1]	60 U
Aroclor-1248	1.6	33	39 U	**2100 * J[2]**	**13 J**	**57**	**150 J-[1]**	**260**
Aroclor-1254	1.6	33	39 U	81 UJ[3]	39 U	40 U	45 UJ[1]	60 U
Aroclor-1260	2.2	33	39 U	81 U	39 U	40 U	45 UJ[1]	60 U
Aroclor-1262	1.3	33	39 U	81 U	39 U	40 U	45 UJ[1]	60 U
Aroclor-1268	1.2	33	39 U	81 U	39 U	40 U	45 UJ[1]	60 U
		DILUTION FACTOR	1	1 / 5*	1.0	1	1.0	1.0
		DATE SAMPLED	11/13/2017	11/13/2017	11/13/2017	11/13/2017	11/13/2017	11/14/2017
		DATE EXTRACTED	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
		DATE ANALYZED	11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017
		SAMPLE WEIGHT (GRAMS)	30.1	30.1	30.1	30.1	30.2	30.0
		% SOLID	84.2	40.8	84.5	83.0	73.0	55.0

S3VEM DATA VALIDATION

QUALIFIER COMMENTS: U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Positive and non-detect results are estimated (J-/UJ) due to surrogate recoveries below the lower recovery limit.
J^2 = Positve field duplicate results are estimated (J) due to RPD greater than 50%.
J^3 =Positve and non-detect field duplicate results are estimated (J/UJ) since one result was non-detected and one result was greater than 2X the CRQL.
J^4 = %D between dual-column results was ≥25.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:
Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47280 SDG: A41H3
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 2
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	A41H9	A41J2	A41J3	A41M7	A41M9	A41N0
		SAMPLE IDENTIFIER	D35216	D35219	D35220	D35254	D35256	D35257
		STATION LOCATION	SD-11	SD-12	SD-13	SD-39	SD-41	SD-42
		LABORATORY NUMBER	I6505-09	I6505-10	I6505-11	I6505-12	I6505-13	I6505-14
COMPOUND	MDL	CRQL						
Aroclor-1016	1.7	33	54 U	56 UJ[1]	48 UJ[1]	74 U	40 U	72 UJ[1]
Aroclor-1221	2.2	33	54 U	56 UJ[1]	48 UJ[1]	74 U	40 U	72 UJ[1]
Aroclor-1232	0.87	33	54 U	56 UJ[1]	48 UJ[1]	74 U	40 U	72 UJ[1]
Aroclor-1242	1.2	33	54 U	56 UJ[1]	48 UJ[1]	74 U	40 U	72 UJ[1]
Aroclor-1248	1.6	33	**1500 *J[4]**	**300 J-[1]**	**370 J-[1]**	**630 J[2,4]**	**530 ***	**200 J-[1]**
Aroclor-1254	1.6	33	54 U	56 UJ[1]	48 UJ[1]	**330 J[3]**	40 U	72 UJ[1]
Aroclor-1260	2.2	33	54 U	56 UJ[1]	48 UJ[1]	74 U	40 U	72 UJ[1]
Aroclor-1262	1.3	33	54 U	56 UJ[1]	48 UJ[1]	74 U	40 U	72 UJ[1]
Aroclor-1268	1.2	33	54 U	56 UJ[1]	48 UJ[1]	74 U	40 U	72 UJ[1]
		DILUTION FACTOR	1 / 4*	1.0	1.0	1.0	1 / 2*	1.0
		DATE SAMPLED	11/14/2017	11/14/2017	11/14/2017	11/13/2017	11/14/2017	11/14/2017
		DATE EXTRACTED	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
		DATE ANALYZED	12/4/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017
		SAMPLE WEIGHT (GRAMS)	30.1	30.1	30.0	30.1	30.1	30.0
		% SOLID	61.1	58.7	68.5	44.4	82.0	45.9

S3VEM DATA VALIDATION

QUALIFIER COMMENTS:
U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J[1] = Positive and non-detect results are estimated (J-/UJ) due to surrogate recoveries below the lower recovery limit.
J[2] = Positve field duplicate results are estimated (J) due to RPD greater than 50%.
J[3] =Positve and non-detect field duplicate results are estimated (J/UJ) since one result was non-detected and one result was greater than 2X the CRQL.
J[4] = %D between dual-column results was ≥25.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:
Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47280 SDG: A41H3
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 2
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	**A41N1**	**A41P0**	**A41P1**	**A41P2**	**A41P3**	**A41P4**
		SAMPLE IDENTIFIER	**D35258**	**D35275**	**D35276**	**D35277**	**D35278**	**D35279**
		STATION LOCATION	**SD-43**	**SD-08A**	**SD-12A**	**SD-100A**	**SD-100B**	**SD-100C**
		LABORATORY NUMBER	**I6505-15**	**I6505-18**	**I6505-19**	**I6505-20**	**I6505-21**	**I6505-22**
COMPOUND	**MDL**	**CRQL**						
Aroclor-1016	**1.7**	**33**	38 U	58 U	60 U	79 UJ[1]	93 U	82 U
Aroclor-1221	**2.2**	**33**	38 U	58 U	60 U	79 UJ[1]	93 U	82 U
Aroclor-1232	**0.87**	**33**	38 U	58 U	60 U	79 UJ[1]	93 U	82 U
Aroclor-1242	**1.2**	**33**	38 U	58 U	60 U	79 UJ[1]	93 U	82 U
Aroclor-1248	**1.6**	**33**	**180**	**270**	**1000 ***	**200 J-[1]**	**260**	82 U
Aroclor-1254	**1.6**	**33**	38 U	58 U	60 U	**69 J-[1,4]**	93 U	82 U
Aroclor-1260	**2.2**	**33**	38 U	58 U	60 U	79 UJ[1]	93 U	**31 J[4]**
Aroclor-1262	**1.3**	**33**	38 U	58 U	60 U	79 UJ[1]	93 U	82 U
Aroclor-1268	**1.2**	**33**	38 U	58 U	60 U	79 UJ[1]	93 U	82 U
		DILUTION FACTOR	1.0	1.0	1 / 4*	1.0	1.0	1.0
		DATE SAMPLED	11/14/2017	11/13/2017	11/14/2017	11/14/2017	11/14/2017	11/14/2017
		DATE EXTRACTED	11/16/2017	11/16/2017	11/16/2017	11/22/2017	11/16/2017	11/16/2017
		DATE ANALYZED	11/21/2017	11/21/2017	12/4/2017	11/27/2017	11/21/2017	11/21/2017
		SAMPLE WEIGHT (GRAMS)	30.1	30.1	30.0	30.1	30.1	30.1
		% SOLID	86.3	56.8	55.3	41.8	35.3	40.0

S3VEM DATA VALIDATION

QUALIFIER COMMENTS: U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Positive and non-detect results are estimated (J-/UJ) due to surrogate recoveries below the lower recovery limit.
J^2 = Positve field duplicate results are estimated (J) due to RPD greater than 50%.
J^3 =Positve and non-detect field duplicate results are estimated (J/UJ) since one result was non-detected and one result was greater than 2X the CRQL.
J^4 = %D between dual-column results was ≥25.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:
Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47280 SDG: A41K4
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 3
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	**A41K4**	**A41L4**	**A41L5**	**A41L6**	**A41L8**	**A41M0**
		SAMPLE IDENTIFIER	**D35231**	**D35241**	**D35242**	**D35243**	**D35245**	**D35247**
		STATION LOCATION	**SD-22**	**SD-28**	**SD-29**	**SD-30**	**SD-32**	**SD-32A**
		LABORATORY NUMBER	**I6547-01**	**I6547-02**	**I6547-03**	**I6547-04**	**I6547-05**	**I6547-06**
COMPOUND	**MDL**	**CRQL**						
Aroclor-1016	**1.7**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
Aroclor-1221	**2.2**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
Aroclor-1232	**0.87**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
Aroclor-1242	**1.2**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
Aroclor-1248	**1.6**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
Aroclor-1254	**1.6**	**33**	**63 J[4,5]**	94 U	140 UJ[1,6]	47 UJ[1]	**51 J[5]**	100 UJ[1]
Aroclor-1260	**2.2**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
Aroclor-1262	**1.3**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
Aroclor-1268	**1.2**	**33**	58 U	94 U	140 UJ[1,6]	47 UJ[1]	86 U	100 UJ[1]
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
		DATE EXTRACTED	11/21/2017	11/27/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017
		DATE ANALYZED	11/22/2017	11/27/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017
		SAMPLE WEIGHT (GRAMS)	30.0	50.0	30.1	30.1	30.1	30.0
		% SOLID	56.5	21.0	22.9	69.5	38.3	32.9

S3VEM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-detect results are estimated due to surrogate recoveries below the lower recovery limit.
J-[2] = Positve results are estimated with a low bias (J-) due to surrogate recoveries below the lower recovery limit.
R[3] = Non-detect results are rejected (R) due to Matrix Spike/Matrix Spike Duplicate recovery below the lower limit for Aroclor-1260.
J[4] = Positve results are estimated (J) due to the field duplicate RPD exceeding the upper limit.
J[5] = %D between dual-column results was ≥25.
J[6] = Non-detect results are estimated (UJ) due to percent solids > 10% but <30%. The amount of soil extracted was not increased.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:

Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47280 SDG: A41K4
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 3
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	**A41M1**	**A41M2**	**A41M4**	**A41M5**	**A41M6**	**A41N2**
		SAMPLE IDENTIFIER	**D35248**	**D35249**	**D35251**	**D35252**	**D35253**	**D35259**
		STATION LOCATION	**SD-33**	**SD-34**	**SD-36**	**SD-37**	**SD-38**	**SD-44**
		LABORATORY NUMBER	**I6547-07**	**I6547-08**	**I6547-09**	**I6547-10**	**I6547-11**	**I6547-12**
COMPOUND	**MDL**	**CRQL**						
Aroclor-1016	**1.7**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
Aroclor-1221	**2.2**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
Aroclor-1232	**0.87**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
Aroclor-1242	**1.2**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
Aroclor-1248	**1.6**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
Aroclor-1254	**1.6**	**33**	59 U	**59 J-[2,5]**	140 UJ[1]	100 U	**100 J-[2,5]**	**2100 ***
Aroclor-1260	**2.2**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
Aroclor-1262	**1.3**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
Aroclor-1268	**1.2**	**33**	59 U	100 UJ[1]	140 UJ[1]	100 U	100 UJ[1]	43 U
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0 / 5.0*
		DATE SAMPLED	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/15/2017
		DATE EXTRACTED	11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017
		DATE ANALYZED	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017
		SAMPLE WEIGHT (GRAMS)	30.1	30.0	50.0	30.1	30.1	30.1
		% SOLID	55.7	31.5	14.4	31.9	31.6	75.9

S3VEM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-detect results are estimated due to surrogate recoveries below the lower recovery limit.
J-[2] = Positve results are estimated with a low bias (J-) due to surrogate recoveries below the lower recovery limit.
R[3] = Non-detect results are rejected (R) due to Matrix Spike/Matrix Spike Duplicate recovery below the lower limit for Aroclor-1260.
J[4] = Positve results are estimated (J) due to the field duplicate RPD exceeding the upper limit.
J[5] = %D between dual-column results was ≥25.
J[6] = Non-detect results are estimated (UJ) due to percent solids > 10% but <30%. The amount of soil extracted was not increased.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:

Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47280 SDG: A41K4
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 3
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	**A41N3**	**A41Q3**	**A41Q4**	**A41Q5**	**A41Q6**	**A41Q7**
		SAMPLE IDENTIFIER	**D35260**	**D35280**	**D35281**	**D35282**	**D35283**	**D35284**
		STATION LOCATION	**SD-45**	**SD-21A**	**SD-23B**	**SD-23A**	**SD-22A**	**SD-26A**
		LABORATORY NUMBER	**I6547-13**	**I6547-16**	**I6547-17**	**I6547-18**	**I6547-19**	**I6547-22**
COMPOUND	**MDL**	**CRQL**						
Aroclor-1016	**1.7**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 U	68 UJ[1]
Aroclor-1221	**2.2**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 U	68 UJ[1]
Aroclor-1232	**0.87**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 U	68 UJ[1]
Aroclor-1242	**1.2**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 U	68 UJ[1]
Aroclor-1248	**1.6**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 U	68 UJ[1]
Aroclor-1254	**1.6**	**33**	**460 J[4]**	**45 J-[2,5]**	**38 J-[2,5]**	**100 J-[2,5]**	**29 J**	**35 J-[2,5]**
Aroclor-1260	**2.2**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 R[3]	68 UJ[1]
Aroclor-1262	**1.3**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 U	68 UJ[1]
Aroclor-1268	**1.2**	**33**	71 U	55 UJ[1]	45 UJ[1]	60 UJ[1]	42 U	68 UJ[1]
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/16/2017
		DATE EXTRACTED	11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21/2017
		DATE ANALYZED	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017
		SAMPLE WEIGHT (GRAMS)	30.1	30.0	30.0	30.1	30.0	50.1
		% SOLID	46.4	59.8	73.5	54.9	78.2	29.1

S3VEM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-detect results are estimated due to surrogate recoveries below the lower recovery limit.
J-[2] = Positve results are estimated with a low bias (J-) due to surrogate recoveries below the lower recovery limit.
R[3] = Non-detect results are rejected (R) due to Matrix Spike/Matrix Spike Duplicate recovery below the lower limit for Aroclor-1260.
J[4] = Positve results are estimated (J) due to the field duplicate RPD exceeding the upper limit.
J[5] = %D between dual-column results was ≥25.
J[6] = Non-detect results are estimated (UJ) due to percent solids > 10% but <30%. The amount of soil extracted was not increased.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:

Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47280 SDG: A41M8
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 4
AROCLOR SEDIMENT ANALYSIS
NOVEMBER 2017

		CLP SAMPLE NUMBER	**A41M8**	**A41Q8**	**A41Q9**	**A41R0**
		SAMPLE IDENTIFIER	**D35255**	**D35285**	**D35286**	**D35287**
		STATION LOCATION	**SD-40A**	**SD-26B**	**SD-36A**	**SD-36B**
		LABORATORY NUMBER	**I6549-01**	**I6549-07**	**I6549-08**	**I6549-09**
COMPOUND	**MDL**	**CRQL**				
Aroclor-1016	**1.7**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1221	**2.2**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1232	**0.87**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1242	**1.2**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1248	**1.6**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1254	**1.6**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1260	**2.2**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1262	**1.3**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
Aroclor-1268	**1.2**	**33**	55 U	110 UJ[1]	90 UJ[1]	130 UJ[1,2]
		DILUTION FACTOR	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/16/2017	11/16/2017	11/16/2017
		DATE EXTRACTED	11/22/2017	11/22/2017	11/22/2017	11/22/2017
		DATE ANALYZED	11/28/2017	11/28/2017	11/28/2017	11/28/2017
		SAMPLE WEIGHT (GRAMS)	30.1	30.0	30.1	30.0
		% SOLID	59.5	30.1	36.5	24.6

S3VEM DATA VALIDATION

QUALIFIER COMMENTS: U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
UJ[1] = Non-detect results are estimated due to surrogate recoveries below the lower recovery limit.
J[2] = Non-detect results are estimated (UJ) due to percent solids > 10% but <30%. The amount of soil extracted was not increased.
Values bolded and shaded exceed the sample adjusted CRQL.

NOTES:
Results are reported in micrograms per kilogram (µg/kg).
MDL = Method Detection Limit
CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35204
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 5
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS

		SAMPLE NUMBER	**D35204**	**D35205**	**D35208**	**D35209**	**D35221**	**D35222**
		STATION LOCATION	**SD-01**	**SD-02**	**SD-03**	**SD-04**	**SD-14**	**SD-14B**
		LABORATORY NUMBER	**180-72665-1**	**180-72665-2**	**180-72665-3**	**180-72665-4**	**180-72665-5**	**180-72665-6**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	160,000 J^2	100,000 J^2	98,000 J^2	74,000 J^2	95,000 J^2	97,000 J^2
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
		DATE ANALYZED	11/28/2017	11/28/2017	11/28/2017	11/28/2017	11/28/2017	11/28/2017
		% SOLID	31.7	28.1	49.3	47.3	37.9	50

S3VM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Result is estimated (J) due to analysis out of holding time.
J^2 = Result is estimated (J) due to laboratory duplicate RPD greater than 20%.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35204
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 5
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS

		SAMPLE NUMBER	**D35223**	**D35224**	**D35225**	**D35226**	**D35227**	**D35228**
		STATION LOCATION	**SD-14A**	**SD-15**	**SD-16**	**SD-17**	**SD-18**	**SD-19**
		LABORATORY NUMBER	**180-72665-7**	**180-72665-8**	**180-72665-9**	**180-72665-10**	**180-72665-11**	**180-72665-12**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	120,000 J^2	80,000 J^2	43,000 J^2	7,800 J^2	29,000 J^2	21,000 J^2
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017
		DATE ANALYZED	11/28/2017	11/29/2017	11/28/2017	11/29/2017	11/28/2017	11/28/2017
		% SOLID	31.7	43.2	57.6	59.5	56.2	56.7

S3VM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Result is estimated (J) due to analysis out of holding time.
J^2 = Result is estimated (J) due to laboratory duplicate RPD greater than 20%.

NOTES:

Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35204
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 5
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS

		SAMPLE NUMBER	**D35230**	**D35232**	**D35233**	**D35236**	**D35237**	**D35238**
		STATION LOCATION	**SD-21**	**SD-23**	**SD-24**	**SD-25**	**SD-26**	**SD-27**
		LABORATORY NUMBER	**180-72665-13**	**180-72665-14**	**180-72665-15**	**180-72665-16**	**180-72665-17**	**180-72665-18**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	34,000 J^2	63,000 J^2	4,900 J^2	95,000 J^2	44,000 J^2	92,000 J^2
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/15/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
		DATE ANALYZED	11/28/2017	11/28/2017	11/30/2017	11/30/2017	11/30/2017	11/30/2017
		% SOLID	58.4	51.5	79.2	43.3	65.2	29.2

S3VM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Result is estimated (J) due to analysis out of holding time.
J^2 = Result is estimated (J) due to laboratory duplicate RPD greater than 20%.

NOTES:

Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35204
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 5
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS

		SAMPLE NUMBER	**D35240**	**D35250**	**D35255**
		STATION LOCATION	**SD-27A**	**SD-35**	**SD-40A**
		LABORATORY NUMBER	**180-72665-19**	**180-72665-20**	**180-72665-21**
COMPOUND	**MDL**	**CRQL**			
Total Organic Carbon (TOC)	**746**	**1,000**	190,000 $J^{1,2}$	44,000 J^{2}	61,000 J^{2}
		DILUTION FACTOR	1.0	1.0	1.0
		DATE SAMPLED	11/16/2017	11/16/2017	11/15/2017
		DATE ANALYZED	12/1/2017	11/30/2017	11/28/2017
		% SOLID	18.9	53.4	42.1

S3VM DATA VALIDATION
QUALIFIER COMMENTS: U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^{1} = Result is estimated (J) due to analysis out of holding time.
J^{2} = Result is estimated (J) due to laboratory duplicate RPD greater than 20%.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35210
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 6
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
NOVEMBER 2017

		SAMPLE NUMBER	**D35210**	**D35211**	**D35212**	**D35213**	**D35214**	**D35215**
		STATION LOCATION	**SD-05**	**SD-06**	**SD-07**	**SD-08**	**SD-09**	**SD-10**
		LABORATORY NUMBER	**180-72573-4**	**180-72573-5**	**180-72573-6**	**180-72573-7**	**180-72573-8**	**180-72573-9**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	11,000 $J^{1,2}$	160,000 $J^{1,2}$	9,000 $J^{1,2}$	6,700 $J^{1,2}$	14,000 $J^{1,2}$	61,000 $J^{1,2}$
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/13/2017	11/13/2017	11/13/2017	11/13/2017	11/13/2017	11/14/2017
		DATE ANALYZED	11/24/2017	11/22/2017	11/24/2017	11/24/2017	11/24/2017	11/27/2017
		% SOLID	81.2	38.4	83.4	78.9	73.3	50.7

S3VM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Result is estimated (J) due to poor matrix spike recovery.
J^2 = Result is estimated (J) due to field duplicate RPD greater than 50%.

NOTES:

Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35210
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 6
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
NOVEMBER 2017

		SAMPLE NUMBER	**D35216**	**D35219**	**D35220**	**D35254**	**D35256**	**D35257**
		STATION LOCATION	**SD-11**	**SD-12**	**SD-13**	**SD-39**	**SD-41**	**SD-42**
		LABORATORY NUMBER	**180-72573-10**	**180-72573-11**	**180-72573-12**	**180-72573-13**	**180-72573-14**	**180-72573-15**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	42,000 $J^{1,2}$	50,000 $J^{1,2}$	43,000 $J^{1,2}$	74,000 $J^{1,2}$	13,000 $J^{1,2}$	170,000 $J^{1,2}$
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/14/2017	11/14/2017	11/14/2017	11/13/2017	11/14/2017	11/14/2017
		DATE ANALYZED	11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017
		% SOLID	56.4	61	69.8	46.4	71.1	34.7

S3VM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Result is estimated (J) due to poor matrix spike recovery.
J^2 = Result is estimated (J) due to field duplicate RPD greater than 50%.

NOTES:

Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35210
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 6
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
NOVEMBER 2017

		SAMPLE NUMBER	**D35258**	**D35275**	**D35276**	**D35277**	**D35278**	**D35279**
		STATION LOCATION	**SD-43**	**SD-08A**	**SD-12A**	**SD-100A**	**SD-100B**	**SD-100C**
		LABORATORY NUMBER	**180-72573-16**	**180-72573-19**	**180-72573-20**	**180-72573-1**	**180-72573-2**	**180-72573-3**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	3,400 $J^{1,2}$	66,000 $J^{1,2}$	40,000 $J^{1,2}$	93,000 $J^{1,2}$	110,000 $J^{1,2}$	120,000 $J^{1,2}$
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/14/2017	11/13/2017	11/14/2017	11/14/2017	11/14/2017	11/14/2017
		DATE ANALYZED	11/27/2017	11/24/2017	11/27/2017	11/27/2017	11/27/2017	11/27/2017
		% SOLID	80.5	56.5	55.2	44.5	36.8	44.7

S3VM DATA VALIDATION QUALIFIER COMMENTS:

U = Values not detected above the MDL are reported at the sample adjusted CRQL with a "U" flag, per the CLP Statement of Work.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.
J^1 = Result is estimated (J) due to poor matrix spike recovery.
J^2 = Result is estimated (J) due to field duplicate RPD greater than 50%.

NOTES:

Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35231
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 7
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
NOVEMBER 2017

		SAMPLE NUMBER	**D35231**	**D35241**	**D35242**	**D35243**	**D35245**	**D35247**
		STATION LOCATION	**SD-22**	**SD-28**	**SD-29**	**SD-30**	**SD-32**	**SD-32A**
		LABORATORY NUMBER	**180-72664-1**	**180-72664-2**	**180-72664-3**	**180-72664-4**	**180-72664-5**	**180-72664-6**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	42,000	320,000	290,000	45,000	150,000	120,000
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017
		DATE ANALYZED	11/27/2017	11/28/2017	11/28/2017	11/30/2017	11/30/2017	11/29/2017
		% SOLID	60.8	24.4	22.5	62.6	44.5	35.3

S3VM DATA VALIDATION QUALIFIER COMMENTS:
U = Value is non-detected.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35231
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 7
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
NOVEMBER 2017

		SAMPLE NUMBER	**D35248**	**D35249**	**D35251**	**D35252**	**D35253**	**D35259**
		STATION LOCATION	**SD-33**	**SD-34**	**SD-36**	**SD-37**	**SD-38**	**SD-44**
		LABORATORY NUMBER	**180-72664-7**	**180-72664-8**	**180-72664-9**	**180-72664-10**	**180-72664-11**	**180-72664-12**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	75,000	100,000	470,000	90,000	110,000	100,000
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/16/2017	11/15/2017
		DATE ANALYZED	11/30/2017	11/30/2017	11/30/2017	11/30/2017	11/30/2017	11/27/2017
		% SOLID	51.5	35.1	15.1	36.3	42.2	42.5

S3VM DATA VALIDATION QUALIFIER COMMENTS:
U = Value is non-detected.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35231
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 7
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
NOVEMBER 2017

		SAMPLE NUMBER	**D35260**	**D35280**	**D35281**	**D35282**	**D35283**	**D35284**
		STATION LOCATION	**SD-45**	**SD-21A**	**SD-23B**	**SD-23A**	**SD-22A**	**SD-26A**
		LABORATORY NUMBER	**180-72664-13**	**180-72664-15**	**180-72664-16**	**180-72664-17**	**180-72664-18**	**180-72664-19**
COMPOUND	**MDL**	**CRQL**						
Total Organic Carbon (TOC)	**746**	**1,000**	68,000	65,000	13,000	120,000	16,000	100,000
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/16/2017
		DATE ANALYZED	11/27/2017	11/27/2017	11/28/2017	11/28/2017	11/28/2017	11/30/2017
		% SOLID	68.3	61	59.2	50.7	69	50.8

S3VM DATA VALIDATION QUALIFIER COMMENTS:
U = Value is non-detected.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0906F SDG: D35231
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 7
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
NOVEMBER 2017

		SAMPLE NUMBER	**D35285**	**D35286**	**D35287**
		STATION LOCATION	**SD-26B**	**SD-36A**	**SD-36B**
		LABORATORY NUMBER	**180-72664-20**	**180-72664-21**	**180-72664-22**
COMPOUND	**MDL**	**CRQL**			
Total Organic Carbon (TOC)	**746**	**1,000**	190,000	110,000	150,000
		DILUTION FACTOR	1.0	1.0	1.0
		DATE SAMPLED	11/16/2017	11/16/2017	11/16/2017
		DATE ANALYZED	11/30/2017	11/30/2017	11/30/2017
		% SOLID	29.1	32	22.6

S3VM DATA VALIDATION QUALIFIER COMMENTS:
U = Value is non-detected.
J = Results that are greater than the MDL but less than the CRQL are flagged (J) as estimated values with no superscripts.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

ATTACHMENT E
LOWER NEPONSET RIVER PCBS
START ANALYTICAL RESULTS TABLES
Samples Collected from 4 to 6 September 2018

TABLE 1

SUMMARY OF POLYCHLORINATED BIPHENYL FIELD SCREENING RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Sample Location	Lab Sample ID	Aroclor-1248	Aroclor-1254	Aroclor-1260
WBD-04 A	AB76454	**2,300**	**400**	ND (300)
WBD-04 B	AB76455	**1,900**	**400**	ND (300)
WBD-04 C	AB76456	**300**	**200**	ND (300)
WBD-04 D	AB76457	ND (500)	ND (300)	ND (300)
WBD-C2 A	AB76460	ND (500)	**130**	ND (300)
WBD-C2 B	AB76461	ND (500)	**130**	ND (300)
PTB-C1 A	AB76462	ND (500)	ND (300)	ND (300)
PTB-C1 B	AB76463	ND (500)	ND (300)	ND (300)
WBD-C05 A	AB76464	ND (500)	**400**	ND (300)
WBD-C05 B	AB76465	**3,400**	**1,200**	ND (300)
WBD-C05 C	AB76466	**12,000**	**2,500**	**1,700**
WBD-C1 A	AB76467	ND (500)	**200**	ND (300)
WBD-C1 B	AB76468	**1,100**	**300**	ND (300)
WBD-C1 D	AB76469	**1,600**	**500**	ND (300)
BCA-C101 A	AB76470	**500**	**200**	ND (300)
BCA-C103 A	AB76471	ND (500)	ND (300)	ND (300)
BCA-C01 A	AB76472	**400**	**200**	ND (300)
BCA-C01 B	AB76473	**400**	ND (03)	ND (300)
BCA-C3 A	AB76474	ND (500)	**900**	ND (300)
BCA-C3 B	AB76475	**4,400**	**700**	ND (300)
BCA-C3 C	AB76476	**16,000**	**1,900**	ND (300)
BCA-C3 D	AB76477	**11,000**	**1,000**	ND (300)
BCA-C3 E	AB76478	**900**	**200**	ND (300)
BCA-C3 F	AB76479	ND (500)	ND (300)	ND (300)
BCA-C3 A Lab Dup	AB76480	ND (500)	**700**	ND (300)
BCA-C02 A	AB76481	**500**	**400**	ND (300)
BCA-C02 B	AB76482	**8,600**	**900**	ND (300)
BCA-C02 C	AB76483	**500**	**200**	ND (300)
BCA-C02 D	AB76484	**300**	**200**	ND (300)

TABLE 1

SUMMARY OF POLYCHLORINATED BIPHENYL FIELD SCREENING RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Sample Location	Lab Sample ID	Aroclor-1248	Aroclor-1254	Aroclor-1260
BCA-C02 D Lab Dup	AB76485	**400**	**110**	ND (300)
BCA-C4 A	AB76486	**1,100**	**1,000**	ND (300)
BCA-C4 B	AB76487	**9,600**	**1,100**	ND (300)
BCA-C4 C	AB76488	**5,600**	**600**	ND (300)
BCA-C4 D	AB76489	**300**	ND (300)	ND (300)
BCA-C4 E	AB76490	**300**	ND (300)	ND (300)
BCA-C5 A	AB76491	**1,600**	**500**	ND (300)
BCA-C5 B	AB76492	**4,300**	**800**	ND (300)
BCA-C5 C	AB76493	**6,300**	**600**	**300**
BCA-C5 D	AB76494	**10,000**	**800**	**400**
BCA-C5 E	AB76495	**3,500**	**700**	**200**
BCA-C6 A	AB76496	ND (500)	**900**	ND (300)
BCA-C6 B	AB76497	**3,300**	**800**	ND (300)
BCA-C6 C	AB76498	**8,200**	**500**	ND (300)
BCA-C6 D	AB76499	**5,200**	**500**	ND (300)
BCA-C6 E	AB76500	**3,200**	**300**	ND (300)
BCA-C6 F	AB76501	**2,100**	**200**	ND (300)
BCA-C6 G	AB76502	**1,700**	**200**	ND (300)
WBD-C1 C	AB76503	**2,000**	**300**	ND (300)
BCA-C6 H	AB76504	**1,800**	**200**	ND (300)
BCA-C6 I	AB76505	**1,300**	**130**	ND (300)
BCA-C7 A	AB76506	**700**	**110**	ND (300)
BCA-C7 B	AB76507	**3,300**	**400**	ND (300)
BCA-C7 C	AB76508	**600**	ND (300)	ND (300)
THD-C1 A	AB76509	**1,700**	**300**	ND (300)
THD-C1 B	AB76510	**1,300**	**400**	ND (300)
THD-C1 C	AB76511	**1,800**	**600**	ND (300)
THD-C1 D	AB76512	**3,900**	**2,200**	**1,100**
THD-C101 A	AB76513	**3,800**	**1,600**	**900**

TABLE 1

SUMMARY OF POLYCHLORINATED BIPHENYL FIELD SCREENING RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Sample Location	Lab Sample ID	Aroclor-1248	Aroclor-1254	Aroclor-1260
THD-C2 A	AB76514	**300**	**200**	ND (300)
THD-C2 B	AB76515	**2,600**	**700**	ND (300)
THD-C2 C	AB76516	ND (1,000)	**1,900**	**1,300**
THD-C2 D	AB76517	**2,200**	**1,000**	**700**
THD-C3 A	AB76518	ND (500)	ND (300)	ND (300)
THD-C3 B	AB76519	ND (500)	**400**	ND (300)
THD-C3 C	AB76520	ND (500)	**200**	ND (300)
THD-C1 E	AB76521	**10,000**	**2,100**	**1,200**
THD-C1 G	AB76522	**14,000**	**3,500**	**1,300**
THD-C1 H	AB76523	**1,800**	**500**	ND (300)
THD-C1 F Lab Dup	AB76524	**23,000**	**3,200**	**2,400**
LCA- C1 A	AB76525	ND (500)	**300**	ND (300)
LCA- C1 B	AB76526	**2,300**	**500**	ND (300)
LCA-C2 A	AB76527	**18,000**	ND (50)	ND (50)
LCA-C2 B	AB76528	**10,000**	**5,200**	ND (0.6)
LCA-C2 C	AB76529	**26,000**	**4,500**	**4,400**
LCA-C2 D	AB76530	**8,800**	**2,800**	**2,200**
LCA-C2 E	AB76531	**58,000**	**12,000**	**6,200**
LCA-C3 A	AB76532	**18,000**	**2,400**	**1,200**
LCA-C3 B	AB76533	**8,500**	**3,400**	ND (600)
LCA-C3 C	AB76534	**30,000**	**21,000**	**16,000**
LCA-C3 D	AB76535	**50,000**	**8,600**	**3,200**
MBC-C1 A	AB76536	ND (500)	**300**	ND (300)
MBC-C1 B	AB76537	ND (500)	**200**	ND (300)
MBC-C1 C	AB76538	ND (500)	**400**	ND (300)
MBC-C1 D	AB76539	**3,700**	**900**	ND (300)
MBC-C1 E	AB76540	**2,100**	**600**	ND (300)
MBC-C1 F	AB76541	**2,500**	**400**	ND (300)
MBC-C1 G	AB76542	**300**	ND (300)	ND (300)

TABLE 1

SUMMARY OF POLYCHLORINATED BIPHENYL FIELD SCREENING RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Sample Location	Lab Sample ID	Aroclor-1248	Aroclor-1254	Aroclor-1260
UMB-C1 A	AB76543	**400**	**130**	ND (300)
UMB-C1 B	AB76544	ND (500)	**400**	ND (300)
UMB-C1 C	AB76545	**1,100**	**200**	ND (300)
UMB-C1 D	AB76546	ND (500)	**200**	ND (300)
UMB-C2 A	AB76547	ND (500)	ND (300)	ND (300)
UMB-C2 B	AB76548	**1,400**	**500**	**300**
UMB-C2 C	AB76549	**2,700**	**700**	ND (300)
UNR-C1 A	AB76550	ND (500)	ND (300)	ND (300)
UNR-C1 B	AB76551	ND (500)	ND (300)	ND (300)
UNR-C1 C	AB76552	ND (500)	ND (300)	ND (300)
UNR-C2 A	AB76553	ND (500)	**300**	ND (300)
UNR-C2 B	AB76554	ND (500)	**1,000**	ND (300)
UNR-C2 C	AB76555	ND (500)	**500**	ND (300)
UNR-C2 D	AB76556	**1,400**	**800**	ND (300)
UNR-C3 A	AB76557	ND (500)	**300**	ND (300)
UNR-C3 B	AB76558	ND (500)	ND (300)	ND (300)
UNR-C3 C	AB76559	ND (500)	ND (300)	ND (300)
UNR-C3 D	AB76560	ND (500)	ND (300)	ND (300)

NOTES:

Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) Mobile Laboratory using EPA Region I SOP, EIASOP-FLDPCB3, PCB's in Soil Field Method.
Lab RLs = Laboratory Reporting Limits.
Results in micrograms per Kilogram (μg/Kg). [Note: Results initially reported in milligrams per Kilograms (mg/Kg) and have been converted.]
Bolded values exceed laboratory RLs.
Lab dup = Laboratory duplicate sample result.
ND = Not detected above laboratory RLs.

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R3			PA41R4			PA41R5			PA41R6		
	Sample Location:	SD-01			SD-02			SD-03			SD-04		
	Sample Identifier:	D35475			D35476			D35477			D35478		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	52.9			89.4			63.1			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
1	PCB-1	2600000	J[3,6]		12000	UJ[1,6]		43000	J[3,6]		61000	J[3,6]	
1	PCB-2	42000			1100	U		1100	J		12000		
1	PCB-3	620000			1100	U[1]		15000			21000		
2	PCB-4	13000000	J+[3]		39000	U[1]		150000	J+[3]		720000	J+[3]	
2	PCB-5	37000	U		1100	U		1600	U		1900	U	
2	PCB-6	920000			4100	U[1]		45000			1500000		
2	PCB-7	150000			1100	U[1]		4500			21000		
2	PCB-8	2800000			26000	U[1]		140000			890000		
2	PCB-9	370000			1100	U		3700			41000		
2	PCB-10	1200000			1100	U		30000			38000		
2	PCB-11	64000	EB[2]		650	J EB[2]		24000	EB[2]		76000	EB[2]	
2	PCB-12/13	240000			2200	U		97000			200000		
2	PCB-14	37000	U		1100	U		1600	U		1900	U	
2	PCB-15	1500000			2900	U[1]		1000000			410000		
3	PCB-16	160000			1100	U[1]		100000			600000		
3	PCB-17	2900000			9700	U[1]		1000000			1100000		
3	PCB-18/30	780000			2200	U[1]		410000			2200000		
3	PCB-19	7900000			5900	U[1]		890000			430000		
3	PCB-20/28	870000			5800	U[1]		3100000			3700000		
3	PCB-21/33	66000	J EB[2]		680	J EB[2]		170000	EB[2]		250000	EB[2]	
3	PCB-22	160000			1100	U[1]		590000			830000		
3	PCB-23	37000	U		1100	U		1600	U		1900	U	
3	PCB-24	37000	U		1100	U		1600	U		1900	U	
3	PCB-25	1200000			1900	U[1]		430000			1500000		
3	PCB-26/29	1500000			2200	U[1]		780000			2400000		
3	PCB-27	2000000			2800	U[1]		480000			200000		
3	PCB-31	2200000			2500	U[1]		700000			3100000		
3	PCB-32	2800000			4700	U[1]		1300000			800000		
3	PCB-34	37000	U[1]		1100	U		18000			51000		
3	PCB-35	37000	U		1100	U		16000			22000		
3	PCB-36	37000	U		1100	U		1600	U		1900	U	
3	PCB-37	200000			1100	U[1]		580000			530000		
3	PCB-38	37000	U		1100	U		2300			2300		
3	PCB-39	10000	J		1100	U		14000			15000		
4	PCB-40/71	710000			2200	U[1]		1000000			1400000		
4	PCB-41	21000	J		1100	U		150000			130000		
4	PCB-42	290000			1100	U[1]		650000			870000		
4	PCB-43	86000			1100	U		130000			170000		
4	PCB-44/47/65	4100000			3400	U[1]		2400000			2900000		
4	PCB-45/51	1200000			2200	U[1]		610000			490000		
4	PCB-46	120000			1100	U		130000			200000		
4	PCB-48	34000	J		1100	U		240000			210000		
4	PCB-49/69	2200000			2200	U[1]		1600000			2100000		
4	PCB-50/53	1300000			2200	U[1]		490000			510000		
4	PCB-52	1800000			1900	U[1]		2100000			3100000		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R3			PA41R4			PA41R5			PA41R6		
	Sample Location:	SD-01			SD-02			SD-03			SD-04		
	Sample Identifier:	D35475			D35476			D35477			D35478		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	52.9			89.4			63.1			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
4	PCB-54	530000			1100	U		19000			14000		
4	PCB-55	3700	J		1100	U		29000			20000		
4	PCB-56	30000	J EB[2]		220	J EB[2]		490000	EB[2]		310000	EB[2]	
4	PCB-57	38000			1100	U		37000			36000		
4	PCB-58	37000	U		1100	U		5900			10000		
4	PCB-59/62/75	130000			3400	U		280000			250000		
4	PCB-60	6500	J		1100	U		190000			81000		
4	PCB-61/70/74/76	380000	EB[2]		1000	J EB[2]		1800000	EB[2]		1800000	EB[2]	
4	PCB-63	89000			1100	U		130000			120000		
4	PCB-64	280000			1100	U[1]		1200000			1200000		
4	PCB-66	340000	EB[2]		650	J EB[2]		1100000	EB[2]		1100000	EB[2]	
4	PCB-67	29000	J		1100	U		51000			67000		
4	PCB-68	130000			1100	U		18000			22000		
4	PCB-72	110000			1100	U		29000			35000		
4	PCB-73	230000			1100	U		41000			37000		
4	PCB-77	37000	U[1]		1100	U[1]		160000			140000		
4	PCB-78	37000	U		1100	U		1600	U		1900	U	
4	PCB-79	37000	U[1]		1100	U		6000			8800		
4	PCB-80	37000	U		1100	U		1600	U		1900	U	
4	PCB-81		U	4000		U	130	5100			2100		
5	PCB-82	37000	U[1]		1100	U		130000			150000		
5	PCB-83	77000			1100	U		69000			81000		
5	PCB-84	180000	EB[2]		1100	U		240000	EB[2]		340000	EB[2]	
5	PCB-85/116/117	210000			3400	U		190000			220000		
5	PCB-86/87/97/ 109/119/125	310000			6700	U		440000			530000		
5	PCB-88/91	450000			2200	U		190000			220000		
5	PCB-89	8800	J		1100	U		28000			39000		
5	PCB-90/101/113	610000	EB[2]		350	J EB[2]		460000	EB[2]		530000	EB[2]	
5	PCB-92	300000			1100	U		150000			170000		
5	PCB-93/100	240000			2200	U		20000			24000		
5	PCB-94	74000			1100	U		14000			13000		
5	PCB-95	390000			1100	U[1]		520000			630000		
5	PCB-96	22000	J		1100	U		17000			20000		
5	PCB-98/102	100000			2200	U		70000			76000		
5	PCB-99	380000	EB[2]		1100	U		290000	EB[2]		350000	EB[2]	
5	PCB-103	62000			1100	U		9200			10000		
5	PCB-104	16000	J		1100	U		450	J		550	J	
5	PCB-105	97000	EB[2]		210	J EB[2]		250000	EB[2]		200000	EB[2]	
5	PCB-106	37000	U		1100	U		1600	U		1900	U	
5	PCB-107	63000			1100	U		38000			42000		
5	PCB-108/124	75000	U[1]		2200	U		18000			14000		
5	PCB-110/115	810000			2200	U[1]		850000			1000000		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R3			PA41R4			PA41R5			PA41R6		
	Sample Location:	SD-01			SD-02			SD-03			SD-04		
	Sample Identifier:	D35475			D35476			D35477			D35478		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	52.9			89.4			63.1			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
5	PCB-111	37000	U		1100	U		600	J		540	J	
5	PCB-112	37000	U		1100	U		1600	U		1900	U	
5	PCB-114	EMPC	J	7400		UM	130	22000			16000		
5	PCB-118	500000			1100	U[1]		510000			540000		
5	PCB-120	9800	J		1100	U		1700			2000		
5	PCB-121	11000	J		1100	U		1600	U		1900	U	
5	PCB-122	37000	U		1100	U		8600			6400		
5	PCB-123		UM	6700		UM	200	12000			9300		
5	PCB-126		UM	6400		UM	190	2800			2300		
5	PCB-127	37000	U		1100	U		470	J		1900	U	
6	PCB-128/166	75000			2200	U		42000			35000		
6	PCB-129/138/163	700000	EB[2]		340	J EB[2]		240000	EB[2]		220000	EB[2]	
6	PCB-130	38000			1100	U		19000			19000		
6	PCB-131	6600	J		1100	U		4500			4200		
6	PCB-132	190000	EB[2]		1100	U		95000	EB[2]		96000	EB[2]	
6	PCB-133	48000			1100	U		4500			5300		
6	PCB-134	78000			1100	U		20000			18000		
6	PCB-135/151	280000			150	J		72000			78000		
6	PCB-136	86000	EB[2]		1100	U		29000	EB[2]		32000	EB[2]	
6	PCB-137	27000	J		1100	U		16000			13000		
6	PCB-139/140	75000	U		2200	U		6000			5700		
6	PCB-141	45000	EB[2]		1100	U		34000	EB[2]		29000	EB[2]	
6	PCB-142	37000	U		1100	U		1600	U		1900	U	
6	PCB-143	37000	U		1100	U		1400	J		670	J	
6	PCB-144	10000	J		1100	U		9200			9300		
6	PCB-145	37000	U		1100	U		240	J		300	J	
6	PCB-146	130000			1100	U		31000			34000		
6	PCB-147/149	610000			2200	U[1]		180000			180000		
6	PCB-148	18000	J		1100	U		470	J		690	J	
6	PCB-150	9200	J		1100	U		470	J		500	J	
6	PCB-152	12000	J		1100	U		780	J		650	J	
6	PCB-153/168	460000			2200	U[1]		150000			140000		
6	PCB-154	48000			1100	U		3300			3800		
6	PCB-155	2400	J		1100	U		1600	U		130	J	
6	PCB-156/157	78000			2200	U[1]		37000			26000		
6	PCB-158	42000			1100	U		25000			20000		
6	PCB-159	37000	U		1100	U		1600	U		1900	U	
6	PCB-160	37000	U		1100	U		1600	U		1900	U	
6	PCB-161	37000	U		1100	U		1600	U		1900	U	
6	PCB-162	37000	U		1100	U		960	J		510	J	
6	PCB-164	34000	J		1100	U		13000			10000		
6	PCB-165	7000	J		1100	U		350	J		590	J	
6	PCB-167	25000	J			UM	120	11000			8000		
6	PCB-169		UM	5300		UM	160		UM	220		UM	260
7	PCB-170	110000	EB[2]		1100	U		39000	EB[2]		38000	EB[2]	
7	PCB-171/173	33000	J		2200	U		12000			11000		
7	PCB-172	24000	J		1100	U		6700			7100		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R3			PA41R4			PA41R5			PA41R6		
	Sample Location:	SD-01			SD-02			SD-03			SD-04		
	Sample Identifier:	D35475			D35476			D35477			D35478		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	52.9			89.4			63.1			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
7	PCB-174	75000	EB[2]		120	J EB[2]		34000	EB[2]		35000	EB[2]	
7	PCB-175	4100	J		1100	U		1700			1900		
7	PCB-176	11000	J		1100	U		4700			5600		
7	PCB-177	75000			1100	U		22000			25000		
7	PCB-178	49000			1100	U		7800			9400		
7	PCB-179	51000			58	J		15000			18000		
7	PCB-180/193	240000			2200	U[1]		79000			83000		
7	PCB-181	37000	U		1100	U		480	J		310	J	
7	PCB-182	3100	J		1100	U		260	J		340	J	
7	PCB-183/185	58000	J EB[2]		2200	U		23000	EB[2]		24000	EB[2]	
7	PCB-184	37000	U		1100	U		1600	U		67	J	
7	PCB-186	37000	U		1100	U		1600	U		1900	U	
7	PCB-187	160000			170	J		42000			48000		
7	PCB-188	4100	J		1100	U		81	J		80	J	
7	PCB-189	8400	J			UM	110	2300			2200		
7	PCB-190	37000	U[1]		1100	U		8800			8500		
7	PCB-191	37000	U[1]		1100	U		1600	U[1]		1900	U[1]	
7	PCB-192	37000	U		1100	U		1600	U		1900	U	
8	PCB-194	120000			1100	U		24000			30000		
8	PCB-195	38000			1100	U		8900			11000		
8	PCB-196	43000			1100	U		10000			12000		
8	PCB-197/200	75000	U[1]		2200	U		3100			3700	U[1]	
8	PCB-198/199	83000	EB[2]		2200	U		23000	EB[2]		26000	EB[2]	
8	PCB-201	8800	J		1100	U		2400			2900		
8	PCB-202	15000	J		1100	U		4600			5100		
8	PCB-203	50000			1100	U		14000			15000		
8	PCB-204	37000	U		1100	U		1600	U		1900	U	
8	PCB-205	37000	U[1]		1100	U		1600	U[1]		1900	U[1]	
9	PCB-206	40000	EB[2]		1100	U		12000	EB[2]		13000	EB[2]	
9	PCB-207	4000	J		1100	U		1200	J		1300	J	
9	PCB-208	6100	J		1100	U		3800			4000		
10	PCB-209	37000	U		1100	U		4900			6600		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R3			PA41R4			PA41R5			PA41R6		
	Sample Location:	SD-01			SD-02			SD-03			SD-04		
	Sample Identifier:	D35475			D35476			D35477			D35478		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	52.9			89.4			63.1			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
	Total MoCB	3300000	J		ND			59000	J		94000	J	
	Total DiCB	20000000	J		650	J		1500000	J		3900000	J	
	Total TrCB	23000000	J		680	J		11000000	J		18000000	J	
	Total TeCB	14000000	J		1870	J		15000000	J		17000000	J	
	Total PeCB	4900000	J		560	J		4600000	J		5200000	J	
	Total HxCB	3100000	J		490	J		1000000	J		990000	J	
	Total HpCB	910000	J		350	J		300000	J		320000	J	
	Total OcCB	360000	J		ND			90000	J		100000	J	
	Total NoCB	50000	J		ND			17000	J		18000	J	
	DeCB	ND			ND			4900			6600		
	Total PCBs^	70,000,000	J		4,600	J		33,000,000	J		46,000,000	J	
	Total TEQ#	21	J		0.0063	J		320	J		270	J	

The WHO Toxic congeners are identified by the highlighted background.

* The values in this column are either the Estimated Detection Limits (EDL), Method Detection Limits (MDL), or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as "EMPC" in the Result column and are qualified with a "J" since they are estimated values. EMPC results are not included in the Total Homologues.

The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include RL values.

^ Total PCBs are the sum of the total homologues.

TIER 2/S4VEM DATA VALIDATION QUALIFIER COMMENTS:

J Sample concentrations reported below the laboratory reporting limit are flagged (J) on the Data Summary Table as estimated values with no superscripts.

1 Blank contamination; the positive sample results that are less than the CRQL are reported as non-detects (U) at the CRQL; positive sample sample results greater than the CRQL but less than the blank result are reported as non-detect (U) at the adjusted blank concentration.

2 Equipment blank contamination; detects for the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error as evidenced by the aqueous equipment blank contamination.

3 LCS/LCSD recovery above QC limits; estimate high (J+) all positive results for PCB 1 and PCB 4 in all sediment samples.

4 Congener exceeded the instrument calibration range; estimate (J) the affected analytes in samples PA41R8 and PA41R9.

5 Labeled compound ion abundance ratio criteria not met; estimate (J) positive results for PCB 1 and PCB 2 in sample PA41R9.

6 Field duplicate precision outside criteria; estimate (J, UJ) the positive results and non-detects for PCB 1 in all sediment samples.

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R7			PA41R8			PA41R9			PA41S0		
	Sample Location:	SD-05			SD-06			SD-07			SD-08		
	Sample Identifier:	D35479			D35480			D35481			D35482		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	42.9			55.5			38.7			59.2		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*
1	PCB-1	38000000	J[3,6]		47000000	J[3,6]		1400000000	J[3,4,5,6]		38000	J[3,6]	
1	PCB-2	80000			380000			3200000	J[5]		1200	J	
1	PCB-3	2900000			8900000			100000000	J[4]		10000		
2	PCB-4	63000000	J+[3]		200000000	J[3,4]		2500000000	J[3,4]		99000	J+[3]	
2	PCB-5	27000	J		36000	U		4300000			1600	J	
2	PCB-6	6900000			28000000			300000000	J[4]		19000		
2	PCB-7	110000			3000000			4900000			3200		
2	PCB-8	28000000			190000000	J[4]		1600000000	J[4]		100000		
2	PCB-9	390000			910000			16000000			3300		
2	PCB-10	5600000			12000000			230000000	J[4]		5900		
2	PCB-11	440000	EB[2]		1200000	EB[2]		23000000	EB[2]		2100	EB[2]	
2	PCB-12/13	800000			2200000			38000000			5500		
2	PCB-14	45000	U		36000	U		48000	U		1600	U	
2	PCB-15	2000000			28000000			72000000			39000		
3	PCB-16	920000			3100000			14000000			41000		
3	PCB-17	15000000			92000000	J[4]		600000000	J[4]		73000		
3	PCB-18/30	2800000			19000000			89000000			94000		
3	PCB-19	12000000			41000000			390000000	J[4]		24000		
3	PCB-20/28	3600000			73000000			130000000			200000		
3	PCB-21/33	180000	EB[2]		72000	U		97000	U		110000	EB[2]	
3	PCB-22	710000			1300000			25000000			60000		
3	PCB-23	49000			170000			2200000			310	J	
3	PCB-24	45000	U		36000	U		14000000			1600	U	
3	PCB-25	3500000			21000000			140000000	J[4]		20000		
3	PCB-26/29	6400000			18000000			250000000	J[4]		34000		
3	PCB-27	6800000			25000000			270000000	J[4]		15000		
3	PCB-31	5900000			18000000			250000000	J[4]		140000		
3	PCB-32	9900000			48000000			400000000	J[4]		42000		
3	PCB-34	460000			1000000			16000000			2000		
3	PCB-35	14000	J		110000			48000	U		2300		
3	PCB-36	45000	U		36000	U		1600000			1600	U	
3	PCB-37	320000			960000			9200000			53000		
3	PCB-38	45000	U		28000	J		48000	U		1600	U	
3	PCB-39	42000	J		240000			2000000			1100	J	
4	PCB-40/71	2500000			12000000			90000000			49000		
4	PCB-41	44000	J		1300000			12000000			6900		
4	PCB-42	1100000			4500000			39000000			36000		
4	PCB-43	990000			3100000			32000000			7200		
4	PCB-44/47/65	7800000			31000000			280000000			120000		
4	PCB-45/51	2800000			9800000			110000000			22000		
4	PCB-46	300000			1100000			11000000			7300		
4	PCB-48	99000			410000			48000	U		25000		
4	PCB-49/69	5600000			23000000			210000000	J[4]		91000		
4	PCB-50/53	3600000			17000000			120000000			18000		
4	PCB-52	5500000			19000000			200000000	J[4]		140000		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R7			PA41R8			PA41R9			PA41S0		
	Sample Location:	SD-05			SD-06			SD-07			SD-08		
	Sample Identifier:	D35479			D35480			D35481			D35482		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	42.9			55.5			38.7			59.2		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*
4	PCB-54	230000			810000			7300000			1600	U[1]	
4	PCB-55	45000	U		50000			48000	U		1400	J	
4	PCB-56	110000	EB[2]		490000	EB[2]		1600000	EB[2]		52000	EB[2]	
4	PCB-57	290000			1100000			11000000			950	J	
4	PCB-58	45000	U		91000			48000	U		770	J	
4	PCB-59/62/75	790000			2200000			28000000			12000		
4	PCB-60	20000	J		150000			48000	U		3100		
4	PCB-61/70/74/76	840000	EB[2]		5300000	EB[2]		20000000	EB[2]		200000	EB[2]	
4	PCB-63	650000			2900000			28000000			5600		
4	PCB-64	2000000			4800000			89000000			49000		
4	PCB-66	410000	EB[2]		2900000	EB[2]		9500000	EB[2]		130000	EB[2]	
4	PCB-67	68000			360000			1800000			4300		
4	PCB-68	220000			570000			7400000			1600		
4	PCB-72	250000			730000			9300000			2900		
4	PCB-73	45000	U		630000			6400000			1700		
4	PCB-77	100000			540000			2300000			12000		
4	PCB-78	45000	U		36000	U		48000	U		1600	U	
4	PCB-79	45000	U[1]		36000	U[1]		48000	U		1600		
4	PCB-80	45000	U		36000	U		48000	U		1600	U	
4	PCB-81		U	7500	17000	J			U	840000	280	J	
5	PCB-82	64000			200000			1600000			13000		
5	PCB-83	280000			930000			13000000			12000		
5	PCB-84	660000	EB[2]		1500000	EB[2]		26000000	EB[2]		42000	EB[2]	
5	PCB-85/116/117	250000			830000			9700000			21000		
5	PCB-86/87/97/ 109/119/125	550000			1900000			16000000			94000		
5	PCB-88/91	940000			3000000			41000000			20000		
5	PCB-89	48000			55000			1800000			2000		
5	PCB-90/101/113	1200000	EB[2]		3100000	EB[2]		38000000	EB[2]		150000	EB[2]	
5	PCB-92	1000000			2600000			42000000			31000		
5	PCB-93/100	210000			530000			8200000			1600	J	
5	PCB-94	160000			450000			6900000			800	J	
5	PCB-95	1800000			4100000			67000000			110000		
5	PCB-96	88000			240000			3900000			890	J	
5	PCB-98/102	280000			890000			12000000			5500		
5	PCB-99	680000	EB[2]		2300000	EB[2]		21000000	EB[2]		76000	EB[2]	
5	PCB-103	110000			280000			4400000			1800		
5	PCB-104	45000	U		16000	J		260000			68	J	
5	PCB-105	98000	EB[2]		770000	EB[2]		1200000	EB[2]		23000	EB[2]	
5	PCB-106	45000	U		36000	U		48000	U		1600	U	
5	PCB-107	98000			430000			3200000			11000		
5	PCB-108/124	91000	U[1]		72000	U[1]		97000	U		3900		
5	PCB-110/115	2700000			7400000			110000000			180000		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R7			PA41R8			PA41R9			PA41S0		
	Sample Location:	SD-05			SD-06			SD-07			SD-08		
	Sample Identifier:	D35479			D35480			D35481			D35482		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	42.9			55.5			38.7			59.2		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*
5	PCB-111	45000	U		19000	J		48000	U		150	J	
5	PCB-112	45000	U		36000	U		48000	U		1600	U	
5	PCB-114	EMPC	J	8200	89000				U	570000	1900		
5	PCB-118	640000			3100000			13000000			160000		
5	PCB-120	17000	J		33000	J		590000			940	J	
5	PCB-121	45000	U		7700	J		48000	U		1600	U	
5	PCB-122	45000	U		22000	J		48000	U		1000	J	
5	PCB-123		UM	8100	38000				U	520000	1500	J	
5	PCB-126		U	8600	11000	J			U	580000	480	J	
5	PCB-127	45000	U		36000	U		48000	U		280	J	
6	PCB-128/166	91000	U[1]		260000			1700000			20000		
6	PCB-129/138/163	730000	EB[2]		2100000	EB[2]		21000000	EB[2]		130000	EB[2]	
6	PCB-130	83000			150000			2800000			8900		
6	PCB-131	45000	U		24000	J		48000	U		1900		
6	PCB-132	340000	EB[2]		550000	EB[2]		11000000	EB[2]		48000	EB[2]	
6	PCB-133	100000			99000			3500000			1900		
6	PCB-134	110000			320000			2900000			8700		
6	PCB-135/151	620000			1100000			21000000			32000		
6	PCB-136	160000	EB[2]		330000	EB[2]		5500000	EB[2]		14000	EB[2]	
6	PCB-137	21000	J		100000			48000	U		7500		
6	PCB-139/140	34000	J		59000	J		1100000			2500	J	
6	PCB-141	41000	J EB[2]		170000	EB[2]		48000	U		16000	EB[2]	
6	PCB-142	45000	U		36000	U		48000	U		1600	U	
6	PCB-143	45000	U		11000	J		48000	U		320	J	
6	PCB-144	45000	U		54000			48000	U		4100		
6	PCB-145	45000	U		36000	U		48000	U		76	J	
6	PCB-146	350000			380000			11000000			16000		
6	PCB-147/149	820000			1900000			27000000			86000		
6	PCB-148	21000	J		20000	J		840000			170	J	
6	PCB-150	9800	J		28000	J		480000			180	J	
6	PCB-152	12000	J		29000	J		48000	U		180	J	
6	PCB-153/168	530000			1300000			15000000			90000		
6	PCB-154	89000			120000			3100000			1400	J	
6	PCB-155	45000	U		2500	J		48000	U		1600	U	
6	PCB-156/157	91000	U[1]		330000			1100000			17000		
6	PCB-158	38000	J		180000			680000			11000		
6	PCB-159	45000	U		36000	U		48000	U		1600	U	
6	PCB-160	45000	U		36000	U		48000	U		1600	U	
6	PCB-161	45000	U		36000	U		48000	U		1600	U	
6	PCB-162	5500	J		10000	J		48000	U		1600	U	
6	PCB-164	30000	J		110000			710000			8800		
6	PCB-165	12000	J		12000	J		48000	U		1600	U	
6	PCB-167	20000	J		96000				U	460000	6300		
6	PCB-169		UM	6400		UM	5100		U	370000		UM	230
7	PCB-170	150000	EB[2]		490000	EB[2]		5700000	EB[2]		18000	EB[2]	
7	PCB-171/173	52000	J		140000			1900000			5800		
7	PCB-172	42000	J		90000			1400000			2900		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41R7			PA41R8			PA41R9			PA41S0		
	Sample Location:	SD-05			SD-06			SD-07			SD-08		
	Sample Identifier:	D35479			D35480			D35481			D35482		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Sample		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	42.9			55.5			38.7			59.2		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*	Result	Flag	EMPC/ EDL/ MDL*
7	PCB-174	170000	EB[2]		370000	EB[2]		5800000	EB[2]		16000	EB[2]	
7	PCB-175	45000	U		20000	J		48000	U		650	J	
7	PCB-176	32000	J		49000			1300000			2100		
7	PCB-177	190000			280000			7200000			9500		
7	PCB-178	110000			130000			3800000			3100		
7	PCB-179	130000			210000			5100000			6200		
7	PCB-180/193	350000			1000000			13000000			36000		
7	PCB-181	45000	U		8400	J		48000	U		330	J	
7	PCB-182	12000	J		5200	J		48000	U		180	J	
7	PCB-183/185	89000	J EB[2]		270000	EB[2]		3500000	EB[2]		11000	EB[2]	
7	PCB-184	45000	U		36000	U		48000	U		1600	U	
7	PCB-186	45000	U		36000	U		48000	U		1600	U	
7	PCB-187	370000			580000			14000000			17000		
7	PCB-188	45000	U		4700	J		48000	U		58	J	
7	PCB-189	12000	J		32000	J		360000			960	J	
7	PCB-190	45000	U[1]		120000			1600000			3500		
7	PCB-191	45000	U[1]		36000	U[1]		48000	U		1600	U[1]	
7	PCB-192	45000	U		36000	U		48000	U		1600	U	
8	PCB-194	200000			370000			7300000			8400		
8	PCB-195	66000			140000			2700000			2900		
8	PCB-196	74000			150000			2800000			4400		
8	PCB-197/200	91000	U[1]		72000	U[1]		930000			3200	U[1]	
8	PCB-198/199	190000	EB[2]		300000	EB[2]		7200000	EB[2]		11000	EB[2]	
8	PCB-201	21000	J		34000	J		680000			1200	J	
8	PCB-202	41000	J		61000			1300000			2500		
8	PCB-203	91000			180000			3800000			6400		
8	PCB-204	45000	U		36000	U		48000	U		1600	U	
8	PCB-205	45000	U		36000	U[1]		510000			1600	U[1]	
9	PCB-206	86000	EB[2]		130000	EB[2]		2800000	EB[2]		6700	EB[2]	
9	PCB-207	9100	J		15000	J		48000	U		790	J	
9	PCB-208	23000	J		32000	J		880000			2300		
10	PCB-209	45000	U[1]		36000	U[1]		550000			3300		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

Sample No.:		**PA41R7**			**PA41R8**			**PA41R9**			**PA41S0**	
Sample Location:		**SD-05**			**SD-06**			**SD-07**			**SD-08**	
Sample Identifier:		**D35479**			**D35480**			**D35481**			**D35482**	
Sample Type:		**Field Sample**			**Field Sample**			**Field Sample**			**Field Sample**	
Matrix:		**Sediment**			**Sediment**			**Sediment**			**Sediment**	
Dilution Factor:		**1**			**1**			**1**			**1**	
% Solids:		**42.9**			**55.5**			**38.7**			**59.2**	
Units:		**ng/kg (dry)**			**ng/kg (dry)**			**ng/kg (dry)**			**ng/kg (dry)**	
CL#	**Compounds**	**Result**	**Flag**	**EMPC/ EDL/ MDL***	**Result**	**Flag**	**EMPC/ EDL/ MDL***	**Result**	**Flag**	**EMPC/ EDL/ MDL***	**Result**	**Flag**	**EMPC/ EDL/ MDL***
	Total MoCB	41000000	J		56000000	J		1500000000	J		49000	J	
	Total DiCB	110000000	J		470000000	J		4700000000	J		280000	J	
	Total TrCB	69000000	J		360000000	J		2600000000	J		910000	J	
	Total TeCB	36000000	J		150000000	J		1300000000	J		1000000	J	
	Total PeCB	12000000	J		35000000	J		440000000	J		970000	J	
	Total HxCB	4200000	J		9800000	J		130000000	J		530000	J	
	Total HpCB	1700000	J		3800000	J		64000000	J		130000	J	
	Total OcCB	680000	J		1200000	J		27000000	J		37000	J	
	Total NoCB	120000	J		180000	J		3700000	J		9800	J	
	DeCB	ND			ND			550000			3300		
	Total PCBs^	270,000,000	J		1,100,000,000	J		11,000,000,000	J		3,900,000	J	
	Total TEQ#	33	J		1300	J		710	J		56	J	

The WHO Toxic congeners are identifed by the highlighted background.

* The values in this column are either the Estimated Detection Limits (EDL), Method Detection Limits (MDL), or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as “EMPC” in the Result column and are qualified with a "J" since they are estimated values. EMPC results are not included in the Total Homologues.

\# The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include RL values.

^ Total PCBs are the sum of the total homologues.

TIER 2/S4VEM DATA VALIDATION QUALIFIER COMMENTS:

J Sample concentrations reported below the laboratory reporting limit are flagged (J) on the Data Summary Table as estimated values with no superscripts.

1 Blank contamination; the positive sample results that are less than the CRQL are reported as non-detects (U) at the CRQL; positive sample sample results greater than the CRQL but less than the blank result are reported as non-detect (U) at the adjusted blank concentration.

2 Equipment blank contamination; detects for the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error as evidenced by the aqueous equipment blank contamination.

3 LCS/LCSD recovery above QC limits; estimate high (J+) all positive results for PCB 1 and PCB 4 in all sediment samples.

4 Congener exceeded the instrument calibration range; estimate (J) the affected analytes in samples PA41R8 and PA41R9.

5 Labeled compound ion abundance ratio criteria not met; estimate (J) positive results for PCB 1 and PCB 2 in sample PA41R9.

6 Field duplicate precision outside criteria; estimate (J, UJ) the positve results and non-detects for PCB 1 in all sediment samples.

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41S1			PA41S2			PA41S3			PA41S4		
	Sample Location:	SD-09			SD-10			SD-11			SD-12		
	Sample Identifier:	D35483			D35484			D35485			D35486		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Duplicate		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	53.1			55.0			69.3			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
1	PCB-1	43000	J[3,6]		19000	UJ[1,6]		6100000	J[3,6]		130000	J[3,6]	
1	PCB-2	260	J		100	J		39000			12000		
1	PCB-3	4700			1700	U[1]		1100000			26000		
2	PCB-4	100000	J+[3]		59000	U[1]		29000000	J+[3]		840000	J+[3]	
2	PCB-5	1800	U		1700	U		28000	U		1900	U	
2	PCB-6	11000			1700	U[1]		4700000			1600000		
2	PCB-7	1800	U[1]		1700	U[1]		1000000			23000		
2	PCB-8	60000			39000	U[1]		23000000			990000		
2	PCB-9	1800	U[1]		1700	U[1]		310000			42000		
2	PCB-10	5300			1700	U[1]		1600000			49000		
2	PCB-11	1500	J EB[2]		1100	J EB[2]		310000	EB[2]		79000	EB[2]	
2	PCB-12/13	3700	U[1]		3400	U[1]		1000000			200000		
2	PCB-14	1800	U		1700	U		28000	U		1900	U	
2	PCB-15	7300			4400	U[1]		9300000			410000		
3	PCB-16	1800	U[1]		1700	U[1]		1300000			640000		
3	PCB-17	24000			15000	U[1]		18000000			1200000		
3	PCB-18/30	6500			3400	U[1]		6400000			2300000		
3	PCB-19	16000			9000	U[1]		7400000			440000		
3	PCB-20/28	16000			8800	U[1]		24000000			3900000		
3	PCB-21/33	1400	J EB[2]		830	J EB[2]		1600000	EB[2]		250000	EB[2]	
3	PCB-22	1800	U[1]		1700	U[1]		2400000			840000		
3	PCB-23	1800	U		1700	U		30000			1900	U	
3	PCB-24	1800	U		1700	U		28000	U		1900	U	
3	PCB-25	5800			1700	U[1]		6000000			1600000		
3	PCB-26/29	7600			3400	U[1]		6800000			2400000		
3	PCB-27	8000			1700	U[1]		4800000			230000		
3	PCB-31	9000			3700	U[1]		15000000			3200000		
3	PCB-32	13000			7100	U[1]		9700000			860000		
3	PCB-34	1800	U[1]		1700	U		310000			53000		
3	PCB-35	1800	U		1700	U		63000			21000		
3	PCB-36	1800	U		1700	U		28000	U		1900	U	
3	PCB-37	1800	U[1]		1700	U[1]		2200000			530000		
3	PCB-38	1800	U		1700	U		28000	U		2100		
3	PCB-39	1800	U		1700	U		77000			15000		
4	PCB-40/71	4900			3400	U[1]		5400000			1300000		
4	PCB-41	320	J		540	J		160000			140000		
4	PCB-42	2600			1700	U[1]		2900000			840000		
4	PCB-43	1800	U[1]		1700	U[1]		910000			160000		
4	PCB-44/47/65	14000			7000			12000000			2900000		
4	PCB-45/51	3900			3400	U[1]		3100000			520000		
4	PCB-46	880	J		740	J		690000			210000		
4	PCB-48	510	J		310	J		670000			190000		
4	PCB-49/69	11000			4400			9300000			2000000		
4	PCB-50/53	5900			3400	U[1]		4400000			530000		
4	PCB-52	17000			16000			9900000			3000000		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41S1			PA41S2			PA41S3			PA41S4		
	Sample Location:	SD-09			SD-10			SD-11			SD-12		
	Sample Identifier:	D35483			D35484			D35485			D35486		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Duplicate		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	53.1			55.0			69.3			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
4	PCB-54	1800	U[1]		1700	U		190000			14000		
4	PCB-55	1800	U		1700	U		69000			21000		
4	PCB-56	1200	J EB[2]		1100	J EB[2]		1600000	EB[2]		300000	EB[2]	
4	PCB-57	340	J		90	J		220000			34000		
4	PCB-58	1800	U		90	J		37000			8500		
4	PCB-59/62/75	5500	U[1]		5100	U[1]		940000			250000		
4	PCB-60	320	J		410	J		350000			80000		
4	PCB-61/70/74/76	8600	EB[2]		7200	EB[2]		8100000	EB[2]		1700000	EB[2]	
4	PCB-63	1800	U[1]		1700	U[1]		830000			120000		
4	PCB-64	2800			1700	U[1]		3600000			1200000		
4	PCB-66	5100	EB[2]		4500	EB[2]		5400000	EB[2]		1100000	EB[2]	
4	PCB-67	160	J		160	J		160000			64000		
4	PCB-68	440	J		190	J		160000			21000		
4	PCB-72	600	J		310	J		220000			34000		
4	PCB-73	460	J		230	J		28000	U		52000		
4	PCB-77	1800	U[1]		1700	U[1]		720000			140000		
4	PCB-78	1800	U		1700	U		28000	U		1900	U	
4	PCB-79	1800	U[1]		1700	U[1]		31000			8700		
4	PCB-80	1800	U		1700	U		28000	U		1900	U	
4	PCB-81		U	190		UM	140	9700	J		1900		
5	PCB-82	3500			6600			260000			160000		
5	PCB-83	3000			3900			340000			86000		
5	PCB-84	12000	EB[2]		17000	EB[2]		900000	EB[2]		350000	EB[2]	
5	PCB-85/116/117	6800			9300			620000			210000		
5	PCB-86/87/97/ 109/119/125	25000			38000			1300000			540000		
5	PCB-88/91	6800			7700			1100000			220000		
5	PCB-89	450	J		550	J		61000			39000		
5	PCB-90/101/113	40000	EB[2]		55000	EB[2]		1700000	EB[2]		540000	EB[2]	
5	PCB-92	10000			12000			890000			170000		
5	PCB-93/100	400	J		200	J		160000			22000		
5	PCB-94	390	J		200	J		120000			13000		
5	PCB-95	33000			51000			1800000			650000		
5	PCB-96	260	J		1700	U		92000			21000		
5	PCB-98/102	1800	J		1500	J		330000			78000		
5	PCB-99	20000	EB[2]		21000	EB[2]		1300000	EB[2]		350000	EB[2]	
5	PCB-103	510	J		360	J		85000			11000		
5	PCB-104	1800	U		1700	U		5600	J		510	J	
5	PCB-105	6400	EB[2]		EMPC	J EB[2]	13000	740000	EB[2]		200000	EB[2]	
5	PCB-106	1800	U		1700	U		28000	U		1900	U	
5	PCB-107	1800	J		1900			230000			41000		
5	PCB-108/124	3700	U[1]		3400	U[1]		56000			14000		
5	PCB-110/115	52000			71000			3100000			1000000		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41S1			PA41S2			PA41S3			PA41S4		
	Sample Location:	SD-09			SD-10			SD-11			SD-12		
	Sample Identifier:	D35483			D35484			D35485			D35486		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Duplicate		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	53.1			55.0			69.3			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
5	PCB-111	1800	U		1700	U		28000	U		600	J	
5	PCB-112	1800	U		1700	U		28000	U		1900	U	
5	PCB-114	EMPC	J	340	260	J		64000			16000		
5	PCB-118	28000			37000			2100000			540000		
5	PCB-120	240	J		150	J		11000	J		2100		
5	PCB-121	1800	U		1700	U		28000	U		1900	U	
5	PCB-122	1800	U		510	J		23000	J		6200		
5	PCB-123	700	J		820	J		33000			10000		
5	PCB-126		UM	320		UM	290	6100	J		2200		
5	PCB-127	1800	U		1700	U		28000	U		1900	U	
6	PCB-128/166	10000			12000			130000			34000		
6	PCB-129/138/163	54000	EB[2]		78000	EB[2]		840000	EB[2]		210000	EB[2]	
6	PCB-130	3800			5200			69000			18000		
6	PCB-131	840	J		1100	J		12000	J		3800		
6	PCB-132	19000	EB[2]		25000	EB[2]		270000	EB[2]		91000	EB[2]	
6	PCB-133	720	J		930	J		32000			4700		
6	PCB-134	3800			4700			89000			16000		
6	PCB-135/151	11000			20000			340000			75000		
6	PCB-136	5100	EB[2]		8000	EB[2]		120000	EB[2]		31000	EB[2]	
6	PCB-137	3200			3300			45000			12000		
6	PCB-139/140	1200	J		1200	J		24000	J		5400		
6	PCB-141	6800	EB[2]		12000	EB[2]		89000	EB[2]		28000	EB[2]	
6	PCB-142	1800	U		1700	U		28000	U		1900	U	
6	PCB-143	180	J		270	J		5900	J		1000	J	
6	PCB-144	1700	J		2900			25000	J		9100		
6	PCB-145	1800	U		1700	U		940	J		250	J	
6	PCB-146	6100			9100			140000			32000		
6	PCB-147/149	32000			51000			670000			170000		
6	PCB-148	1800	U		51	J		5400	J		600	J	
6	PCB-150	1800	U		51	J		6500	J		440	J	
6	PCB-152	1800	U		59	J		7800	J		600	J	
6	PCB-153/168	34000			53000			510000			140000		
6	PCB-154	500	J		460	J		33000			3700		
6	PCB-155	1800	U		1700	U		28000	U		1900	U	
6	PCB-156/157	6000			7700			140000			27000		
6	PCB-158	4900			7100			77000			19000		
6	PCB-159	1800	U		1700	U		28000	U		1900	U	
6	PCB-160	1800	U		1700	U		28000	U		1900	U	
6	PCB-161	1800	U		1700	U		28000	U		1900	U	
6	PCB-162	280	J		1700	U		28000	U		670	J	
6	PCB-164	3500			5400			47000			10000		
6	PCB-165	1800	U		1700	U		3200	J		510	J	
6	PCB-167	2800			3500			39000			8000		
6	PCB-169		UM	260		UM	240		UM	3900	EMPC	J	370
7	PCB-170	6100	EB[2]		22000	EB[2]		180000	EB[2]		41000	EB[2]	
7	PCB-171/173	2000	J		5800			51000	J		12000		
7	PCB-172	900	J		3700			32000			7500		

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41S1			PA41S2			PA41S3			PA41S4		
	Sample Location:	SD-09			SD-10			SD-11			SD-12		
	Sample Identifier:	D35483			D35484			D35485			D35486		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Duplicate		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	53.1			55.0			69.3			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
7	PCB-174	4700	EB[2]		19000	EB[2]		140000	EB[2]		38000	EB[2]	
7	PCB-175	220	J		680	J		7700	J		1900		
7	PCB-176	600	J		2000			18000	J		5500		
7	PCB-177	2900			11000			100000			27000		
7	PCB-178	860	J		3200			40000			9300		
7	PCB-179	1600	J		6000			67000			18000		
7	PCB-180/193	10000			47000			350000			90000		
7	PCB-181	150	J		150	J		2900	J		340	J	
7	PCB-182	1800	U		1700	U		2000	J		340	J	
7	PCB-183/185	3200	J EB[2]		12000	EB[2]		97000	EB[2]		26000	EB[2]	
7	PCB-184	1800	U		1700	U		28000	U		1900	U	
7	PCB-186	1800	U		1700	U		28000	U		1900	U	
7	PCB-187	4400			19000			200000			48000		
7	PCB-188	1800	U		1700	U		28000	U		79	J	
7	PCB-189	350	J		1100	J		11000	J		2300		
7	PCB-190	1800	U[1]		4600			42000			8900		
7	PCB-191	1800	U[1]		1700	U[1]		28000	U[1]		1900	U[1]	
7	PCB-192	1800	U		1700	U		28000	U		1900	U	
8	PCB-194	1800	U[1]		14000			110000			30000		
8	PCB-195	1800	U[1]		5200			41000			11000		
8	PCB-196	910	J		6200			47000			13000		
8	PCB-197/200	3700	U[1]		3400	U[1]		56000	U[1]		3700	U[1]	
8	PCB-198/199	2300	J EB[2]		13000	EB[2]		100000	EB[2]		27000	EB[2]	
8	PCB-201	270	J		1200	J		11000	J		2900		
8	PCB-202	520	J		1900			20000	J		5000		
8	PCB-203	1400	J		7300			59000			15000		
8	PCB-204	1800	U		1700	U		28000	U		1900	U	
8	PCB-205	1800	U		1700	U[1]		28000	U[1]		1900	U[1]	
9	PCB-206	1800	J EB[2]		6800	EB[2]		39000	EB[2]		13000	EB[2]	
9	PCB-207	230	J		730	J		4000	J		1300	J	
9	PCB-208	690	J		2500			9700	J		4000		
10	PCB-209	1800	U[1]		6400			28000	U[1]		6800		

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ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congeners

	Sample No.:	PA41S1			PA41S2			PA41S3			PA41S4		
	Sample Location:	SD-09			SD-10			SD-11			SD-12		
	Sample Identifier:	D35483			D35484			D35485			D35486		
	Sample Type:	Field Sample			Field Sample			Field Sample			Field Duplicate		
	Matrix:	Sediment			Sediment			Sediment			Sediment		
	Dilution Factor:	1			1			1			1		
	% Solids:	53.1			55.0			69.3			51.9		
	Units:	ng/kg (dry)			ng/kg (dry)			ng/kg (dry)			ng/kg (dry)		
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*
	Total MoCB	48000	J		100	J		7200000	J		170000	J	
	Total DiCB	190000	J		1100	J		70000000	J		4200000	J	
	Total TrCB	110000	J		830	J		110000000	J		18000000	J	
	Total TeCB	81000	J		43000	J		72000000	J		17000000	J	
	Total PeCB	250000	J		340000	J		17000000	J		5300000	J	
	Total HxCB	210000	J		310000	J		3800000	J		950000	J	
	Total HpCB	38000	J		160000	J		1300000	J		340000	J	
	Total OcCB	5400	J		49000	J		390000	J		100000	J	
	Total NoCB	2700	J		10000	J		53000	J		18000	J	
	DeCB	ND			6400			ND			6800		
	Total PCBs^	930,000	J		920,000	J		280,000,000	J		47,000,000	J	
	Total TEQ#	1.3	J		1.9	J		780	J		270	J	

The WHO Toxic congeners are identifed by the highlighted background.

* The values in this column are either the Estimated Detection Limits (EDL), Method Detection Limits (MDL), or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as "EMPC" in the Result column and are qualified with a "J" since they are estimated values. EMPC results are not included in the Total Homologues.

\# The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include RL values.

^ Total PCBs are the sum of the total homologues.

TIER 2/S4VEM DATA VALIDATION QUALIFIER COMMENTS:

J Sample concentrations reported below the laboratory reporting limit are flagged (J) on the Data Summary Table as estimated values with no superscripts.

1 Blank contamination; the positive sample results that are less than the CRQL are reported as non-detects (U) at the CRQL; positive sample sample results greater than the CRQL but less than the blank result are reported as non-detect (U) at the adjusted blank concentration.

2 Equipment blank contamination; detects for the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error as evidenced by the aqueous equipment blank contamination.

3 LCS/LCSD recovery above QC limits; estimate high (J+) all positive results for PCB 1 and PCB 4 in all sediment samples.

4 Congener exceeded the instrument calibration range; estimate (J) the affected analytes in samples PA41R8 and PA41R9.

5 Labeled compound ion abundance ratio criteria not met; estimate (J) positive results for PCB 1 and PCB 2 in sample PA41R9.

6 Field duplicate precision outside criteria; estimate (J, UJ) the positve results and non-detects for PCB 1 in all sediment samples.

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congener

	Sample No.:	PA41S5			PA41S6			PA41S7					
	Sample Location:	RB-01			RB-02			RB-03					
	Sample Identifier:	D35487			D35488			D35489					
	Sample Type:	Rinsate Blank			Rinsate Blank			Rinsate Blank					
	Matrix:	Water			Water			Water					
	Dilution Factor:	1			1			1					
	% Solids:	N/A			N/A			N/A					
	Units:	pg/L			pg/L			pg/L					
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*			
1	PCB-1	20	U[1]		19	U		20	U				
1	PCB-2	20	U		19	U		20	U				
1	PCB-3	20	U[1]		19	U[1]		20	U[1]				
2	PCB-4	20	U		14	J		20	U				
2	PCB-5	20	U		19	U		20	U				
2	PCB-6	20	U		19	U		20	U				
2	PCB-7	20	U		19	U		20	U				
2	PCB-8	10	J		11	J		20	U				
2	PCB-9	20	U		19	U		20	U				
2	PCB-10	20	U		19	U		20	U				
2	PCB-11	42			50			20	U				
2	PCB-12/13	39	U		38	U		40	U				
2	PCB-14	20	U		19	U		20	U				
2	PCB-15	20	U		19	U		20	U				
3	PCB-16	2.6	J		19	U		20	U				
3	PCB-17	3.6	J		19	U		3.3	J				
3	PCB-18/30	39	U		38	U		40	U				
3	PCB-19	20	U		19	U		20	U				
3	PCB-20/28	39	U[1]		38	U[1]		40	U				
3	PCB-21/33	4.4	J		38	U		4.5	J				
3	PCB-22	2.8	J		4.6	J		2.5	J				
3	PCB-23	20	U		19	U		20	U				
3	PCB-24	20	U		19	U		20	U				
3	PCB-25	20	U		1.8	J		20	U				
3	PCB-26/29	2.0	J		3.5	J		40	U				
3	PCB-27	20	U		19	U		20	U				
3	PCB-31	20	U[1]		19	U[1]		20	U				
3	PCB-32	2.4	J		4.4	J		2.0	J				
3	PCB-34	20	U		19	U		20	U				
3	PCB-35	20	U		19	U		20	U				
3	PCB-36	20	U		19	U		20	U				
3	PCB-37	20	U		19	U		20	U				
3	PCB-38	20	U		19	U		20	U				
3	PCB-39	20	U		19	U		20	U				
4	PCB-40/71	2.9	J		5.4	J		40	U				
4	PCB-41	20	U		19	U		20	U				
4	PCB-42	20	U		19	U		20	U				
4	PCB-43	20	U		19	U		20	U				
4	PCB-44/47/65	59	U[1]		58	U[1]		60	U[1]				
4	PCB-45/51	39	U		38	U		40	U				
4	PCB-46	20	U		19	U		20	U				
4	PCB-48	20	U		19	U		20	U				
4	PCB-49/69	39	U[1]		38	U[1]		40	U				
4	PCB-50/53	1.6	J		2.1	J		40	U				
4	PCB-52	20	U[1]		19	U[1]		20	U[1]				

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congener

	Sample No.:	PA41S5			PA41S6			PA41S7					
	Sample Location:	RB-01			RB-02			RB-03					
	Sample Identifier:	D35487			D35488			D35489					
	Sample Type:	Rinsate Blank			Rinsate Blank			Rinsate Blank					
	Matrix:	Water			Water			Water					
	Dilution Factor:	1			1			1					
	% Solids:	N/A			N/A			N/A					
	Units:	pg/L			pg/L			pg/L					
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*			
4	PCB-54	20	U		19	U		20	U				
4	PCB-55	20	U		19	U		20	U				
4	PCB-56	2.2	J		3.4	J		20	U				
4	PCB-57	20	U		19	U		20	U				
4	PCB-58	20	U		19	U		20	U				
4	PCB-59/62/75	59	U		58	U		60	U				
4	PCB-60	20	U		19	U		20	U				
4	PCB-61/70/74/76	78	U		12	J		80	U				
4	PCB-63	20	U		19	U		20	U				
4	PCB-64	3.6	J		5.7	J		20	U				
4	PCB-66	3.5	J		7.3	J		20	U				
4	PCB-67	20	U		19	U		20	U				
4	PCB-68	20	U		19	U		20	U				
4	PCB-72	20	U		19	U		20	U				
4	PCB-73	20	U		19	U		20	U				
4	PCB-77		UM	3.5		UM	3.5		UM	3.6			
4	PCB-78	20	U		19	U		20	U				
4	PCB-79	20	U		19	U		20	U				
4	PCB-80	20	U		19	U		20	U				
4	PCB-81		UM	2.6		UM	2.5		UM	2.7			
5	PCB-82	20	U		19	U		20	U				
5	PCB-83	20	U		19	U		20	U				
5	PCB-84	20	U		2.4	J		20	U				
5	PCB-85/116/117	59	U		58	U		60	U				
5	PCB-86/87/97/ 109/119/125	120	U[1]		120	U[1]		120	U				
5	PCB-88/91	39	U		38	U		40	U				
5	PCB-89	20	U		19	U		20	U				
5	PCB-90/101/113	5.6	J		6.6	J		3.9	J				
5	PCB-92	20	U		19	U		20	U				
5	PCB-93/100	39	U		38	U		40	U				
5	PCB-94	20	U		19	U		20	U				
5	PCB-95	20	U[1]		19	U[1]		20	U				
5	PCB-96	20	U		19	U		20	U				
5	PCB-98/102	39	U		38	U		40	U				
5	PCB-99	2.4	J		19	U		20	U				
5	PCB-103	20	U		19	U		20	U				
5	PCB-104	20	U		19	U		20	U				
5	PCB-105		UM	2.3	3.6	J			UM	2.4			
5	PCB-106	20	U		19	U		20	U				
5	PCB-107	20	U		19	U		20	U				
5	PCB-108/124	39	U		38	U		40	U				
5	PCB-110/115	39	U[1]		38	U[1]		40	U[1]				

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LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congener

	Sample No.:	PA41S5			PA41S6			PA41S7					
	Sample Location:	RB-01			RB-02			RB-03					
	Sample Identifier:	D35487			D35488			D35489					
	Sample Type:	Rinsate Blank			Rinsate Blank			Rinsate Blank					
	Matrix:	Water			Water			Water					
	Dilution Factor:	1			1			1					
	% Solids:	N/A			N/A			N/A					
	Units:	pg/L			pg/L			pg/L					
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*			
5	PCB-111	20	U		19	U		20	U				
5	PCB-112	20	U		19	U		20	U				
5	PCB-114		UM	2.6		UM	2.5		UM	2.7			
5	PCB-118	20	U[1]		19	U[1]			UM	3.5			
5	PCB-120	20	U		19	U		20	U				
5	PCB-121	20	U		19	U		20	U				
5	PCB-122	20	U		19	U		20	U				
5	PCB-123		UM	3.7		UM	3.6		UM	3.8			
5	PCB-126		UM	3.5		UM	3.5		UM	3.6			
5	PCB-127	20	U		19	U		20	U				
6	PCB-128/166	39	U		38	U		40	U				
6	PCB-129/138/163	5.9	J		8.2	J		3.9	J				
6	PCB-130	20	U		19	U		20	U				
6	PCB-131	20	U		19	U		20	U				
6	PCB-132	2.6	J		19	U		1.9	J				
6	PCB-133	20	U		19	U		20	U				
6	PCB-134	20	U		19	U		20	U				
6	PCB-135/151	39	U[1]		38	U[1]		40	U[1]				
6	PCB-136	20	U		1.4	J		20	U				
6	PCB-137	20	U		19	U		20	U				
6	PCB-139/140	39	U		38	U		40	U				
6	PCB-141	20	U		2.0	J		20	U				
6	PCB-142	20	U		19	U		20	U				
6	PCB-143	20	U		19	U		20	U				
6	PCB-144	20	U		19	U		20	U				
6	PCB-145	20	U		19	U		20	U				
6	PCB-146	20	U		19	U		20	U				
6	PCB-147/149	39	U[1]		38	U[1]		40	U				
6	PCB-148	20	U		19	U		20	U				
6	PCB-150	20	U		19	U		20	U				
6	PCB-152	20	U		19	U		20	U				
6	PCB-153/168	39	U[1]		38	U[1]		40	U				
6	PCB-154	20	U		19	U		20	U				
6	PCB-155	20	U		19	U		20	U				
6	PCB-156/157		UM	3.7		UM	3.6		UM	3.8			
6	PCB-158	20	U		19	U		20	U				
6	PCB-159	20	U		19	U		20	U				
6	PCB-160	20	U		19	U		20	U				
6	PCB-161	20	U		19	U		20	U				
6	PCB-162	20	U		19	U		20	U				
6	PCB-164	20	U		19	U		20	U				
6	PCB-165	20	U		19	U		20	U				
6	PCB-167		UM	2.2		UM	2.1		UM	2.2			
6	PCB-169		UM	1.9		UM	1.9		UM	2.0			
7	PCB-170	2.0	J		19	U		20	U				
7	PCB-171/173	39	U		38	U		40	U				
7	PCB-172	20	U		19	U		20	U				

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congener

	Sample No.:	PA41S5			PA41S6			PA41S7					
	Sample Location:	RB-01			RB-02			RB-03					
	Sample Identifier:	D35487			D35488			D35489					
	Sample Type:	Rinsate Blank			Rinsate Blank			Rinsate Blank					
	Matrix:	Water			Water			Water					
	Dilution Factor:	1			1			1					
	% Solids:	N/A			N/A			N/A					
	Units:	pg/L			pg/L			pg/L					
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*			
7	PCB-174	20	U		2.6	J		20	U				
7	PCB-175	20	U		19	U		20	U				
7	PCB-176	20	U		19	U		20	U				
7	PCB-177	20	U		19	U		20	U				
7	PCB-178	20	U		19	U		20	U				
7	PCB-179	20	U[1]		19	U[1]		20	U				
7	PCB-180/193	39	U[1]		38	U[1]		40	U				
7	PCB-181	20	U		19	U		20	U				
7	PCB-182	20	U		19	U		20	U				
7	PCB-183/185	2.1	J		1.7	J		40	U				
7	PCB-184	20	U		19	U		20	U				
7	PCB-186	20	U		19	U		20	U				
7	PCB-187	20	U[1]		19	U		20	U[1]				
7	PCB-188	20	U		19	U		20	U				
7	PCB-189		UM	2.7		UM	2.6		UM	2.7			
7	PCB-190	20	U		19	U		20	U				
7	PCB-191	20	U		19	U		20	U				
7	PCB-192	20	U		19	U		20	U				
8	PCB-194	20	U[1]		19	U		20	U				
8	PCB-195	20	U		19	U		20	U				
8	PCB-196	20	U		19	U		20	U				
8	PCB-197/200	39	U		38	U		40	U				
8	PCB-198/199	39	U		1.9	J		40	U				
8	PCB-201	20	U		19	U		20	U				
8	PCB-202	20	U		19	U		20	U				
8	PCB-203	20	U		19	U		20	U				
8	PCB-204	20	U		19	U		20	U				
8	PCB-205	20	U		19	U		20	U				
9	PCB-206	1.4	J		19	U		20	U				
9	PCB-207	20	U		19	U		20	U				
9	PCB-208	20	U		19	U		20	U				
10	PCB-209	0.53	J		19	U		20	U				

TABLE 2

ESAT GENERATED DATA SUMMARY TABLE - VALIDATED RESULTS
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Site: Lower Neponset River Lab: Cape Fear Analytical Case: 47773 SDG: PA41R3 Method HRSM01.2 Analysis: 209 CB Congener

	Sample No.:	PA41S5			PA41S6			PA41S7					
	Sample Location:	RB-01			RB-02			RB-03					
	Sample Identifier:	D35487			D35488			D35489					
	Sample Type:	Rinsate Blank			Rinsate Blank			Rinsate Blank					
	Matrix:	Water			Water			Water					
	Dilution Factor:	1			1			1					
	% Solids:	N/A			N/A			N/A					
	Units:	pg/L			pg/L			pg/L					
CL#	Compounds	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*	Result	Flag	EMPC/ EDL/MDL*			
	Total MoCB	ND			ND			ND					
	Total DiCB	52	J		75	J		ND					
	Total TrCB	18	J		14	J		12	J				
	Total TeCB	14	J		36	J		ND					
	Total PeCB	8.0	J		13	J		3.9	J				
	Total HxCB	8.5	J		12	J		5.8	J				
	Total HpCB	4.1	J		4.3	J		ND					
	Total OcCB	ND	J		1.9	J		ND					
	Total NoCB	1.4	J		ND			ND					
	DeCB	0.53	J		ND			ND					
	Total PCBs^	110	J		160	J		22	J				
	Total TEQ#	0			0.00011	J		0					

The WHO Toxic congeners are identifed by the highlighted background.

* The values in this column are either the Estimated Detection Limits (EDL), Method Detection Limits (MDL), or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged as "EMPC" in the Result column and are qualified with a "J" since they are estimated values. EMPC results are not included in the Total Homologues.

The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) found in "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds, Society of Toxicology, July 7, 2006. The TE values are calculated using the final validated data and include the positive results and estimated values. The TE values are estimated (J) when any individual congener is estimated. The TE calculations do not include RL values.

^ Total PCBs are the sum of the total homologues.

TIER 2/S4VEM DATA VALIDATION QUALIFIER COMMENTS:

J Sample concentrations reported below the laboratory reporting limit are flagged (J) on the Data Summary Table as estimated values with no superscripts.

1 Blank contamination; the positive sample results that are less than the CRQL are reported as non-detects (U) at the CRQL; positive sample sample results greater than the CRQL but less than the blank result are reported as non-detect (U) at the adjusted blank concentration.

2 Equipment blank contamination; detects for the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error as evidenced by the aqueous equipment blank contamination.

3 LCS/LCSD recovery above QC limits; estimate high (J+) all positive results for PCB 1 and PCB 4 in all sediment samples.

4 Congener exceeded the instrument calibration range; estimate (J) the affected analytes in samples PA41R8 and PA41R9.

5 Labeled compound ion abundance ratio criteria not met; estimate (J) positive results for PCB 1 and PCB 2 in sample PA41R9.

6 Field duplicate precision outside criteria; estimate (J, UJ) the positve results and non-detects for PCB 1 in all sediment samples.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47773 SDG: PA41R3
LABORATORY: CAPE FEAR ANALYTICAL

DATA SUMMARY TABLE 3
TOTAL PCB CONGENER AND
WHO TOXIC PCB HOMOLOGUES
SEDIMENT ANALYSIS
SEPTEMBER 2018

CLP SAMPLE NUMBER		PA41R3	PA41R4	PA41R5	PA41R6	PA41R7	PA41R8
SAMPLE IDENTIFIER		D35475	D35476	D35477	D35478	D35479	D35480
STATION LOCATION		SD-01	SD-02	SD-03	SD-04	SD-05	SD-06
SAMPLE LOCATION		WBD-C5 C	PTB-C1 A	BCA-C3 C	BCA-C5 D	THD-C1 G	LCA-C2 E
LABORATORY NUMBER		13887001	13887002	13887003	13887004	13887005	13887006
COMPOUND	CRQL						
PCB-77	0.002	37 U[1]	1.1 U[1]	160	140	100	540
PCB-81	0.002	4 U	0.13 U	5.1	2.1	7.5 U	17 J
PCB-105	0.002	97 EB[2]	0.21 J EB[2]	250 EB[2]	200 EB[2]	98 EB[2]	770 EB[2]
PCB-114	0.002	7.4 J	0.13 UM	22	16	8 J	89
PCB-118	0.002	500	1.1 U[1]	510	540	640	3100
PCB-123	0.002	6.7 UM	0.2 UM	12	9.3	8.1 UM	38
PCB-126	0.002	6.4 UM	0.19 UM	2.8	2.3	8.6 U	11 J
PCB-156/157	0.002	78	2.2 U[1]	37	26	91 U[1]	330
PCB-167	0.002	25 J	0.12 UM	11	8	20 J	96
PCB-169	0.002	5.3 UM	0.16 UM	0.22 UM	0.26 UM	6.4 UM	5.1 UM
PCB-189	0.002	8.4 J	0.11 UM	2.3	2.2	12 J	32 J
Total MoCB	NA	3300 J	ND	59 J	94 J	41000 J	56000 J
Total DiCB	NA	20000 J	0.65 J	1500 J	3900 J	110000 J	470000 J
Total TrCB	NA	23000 J	0.68 J	11000 J	18000 J	69000 J	360000 J
Total TeCB	NA	14000 J	1.87 J	15000 J	17000 J	36000 J	150000 J
Total PeCB	NA	4900 J	0.56 J	4600 J	5200 J	12000 J	35000 J
Total HxCB	NA	3100 J	0.49 J	1000 J	990 J	4200 J	9800 J
Total HpCB	NA	910 J	0.35 J	300 J	320 J	1700 J	3800 J
Total OcCB	NA	360 J	ND	90 J	100 J	680 J	1200 J
Total NoCB	NA	50 J	ND	17 J	18 J	120 J	180 J
DeCB	NA	ND	ND	4.9	6.6	ND	ND
Total PCB's	NA	70,000	4.6	33,000	46,000	270,000	1,100,000
DILUTION FACTOR		1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED		9/4/2018	9/4/2018	9/4/2018	9/4/2018	9/5/2018	9/5/2018
DATE EXTRACTED		9/24/2018	9/24/2018	9/24/2018	9/24/2018	9/24/2018	9/24/2018
DATE ANALYZED		9/30/2018	9/28/2018	9/28/2018	9/28/2018	9/30/2018	9/30/2018
SAMPLE WEIGHT (GRAMS)		0.00101	0.02	0.0204	0.0208	0.00103	0.001
% SOLID		52.9	89.4	63.1	51.9	42.9	55.5

S4VEM DATA VALIDATION QUALIFIER COMMENTS:

^ Total PCBs are the sum of the total homologues.

TIER 2/S4VEM DATA VALIDATION QUALIFIER COMMENTS:

J Sample concentrations reported below the laboratory reporting limit are flagged (J) on the Data Summary Table as estimated values with no superscripts.

1 Blank contamination; the positive sample results that are less than the CRQL are reported as non-detects (U) at the CRQL; positive sample sample results greater than the CRQL but less than the blank result are reported as non-detect (U) at the adjusted blank concentration.

2 Equipment blank contamination; detects for the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error as evidenced by the aqueous equipment blank contamination.

3 LCS/LCSD recovery above QC limits; estimate high (J+) all positive results for PCB 1 and PCB 4 in all sediment samples.

4 Congener exceeded the instrument calibration range; estimate (J) the affected analytes in samples PA41R8 and PA41R9.

5 Labeled compound ion abundance ratio criteria not met; estimate (J) positive results for PCB 1 and PCB 2 in sample PA41R9.

6 Field duplicate precision outside criteria; estimate (J, UJ) the positive results and non-detects for PCB 1 in all sediment samples.

NOTES:

Results are reported in micrograms per kilogram (µg/kg).

CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.
WHO = World Health Organization.
COMPOUND = WHO Toxic PCB Homologues

SITE: LOWER NEPONSET RIVER PCBs
CASE: 47773 SDG: PA41R3
LABORATORY: CAPE FEAR ANALYTICAL

DATA SUMMARY TABLE 3
TOTAL PCB CONGENER AND
WHO TOXIC PCB HOMOLOGUES
SEDIMENT ANALYSIS
SEPTEMBER 2018

CLP SAMPLE NUMBER		PA41R9	PA41S0	PA41S1	PA41S2	PA41S3	PA41S4
SAMPLE IDENTIFIER		D35481	D35482	D35483	D35484	D35485	D35486
STATION LOCATION		SD-07	SD-08	SD-09	SD-10	SD-11	SD-12
SAMPLE LOCATION		THD-C1 F	UNR-C2 D	UNR-C3 A	UMB-C2 C	LCA-C3 D	BCA-C105 D
LABORATORY NUMBER		13887007	13887008	13887009	13887010	13887011	13887012
COMPOUND	CRQL						
PCB-77	0.002	2300	12	1.8 U[1]	1.7 U[1]	720	140
PCB-81	0.002	840 U	0.28 J	0.19 U	0.14 UM	9.7 J	1.9
PCB-105	0.002	1200 EB[2]	23 EB[2]	6.4 EB[2]	13 J EB[2]	740 EB[2]	200 EB[2]
PCB-114	0.002	570 U	1.9	0.34 J	0.26 J	64	16
PCB-118	0.002	13000	160	28	37	2100	540
PCB-123	0.002	520 U	1.5 J	0.7 J	0.82 J	33	10
PCB-126	0.002	580 U	0.48 J	0.32 UM	0.29 UM	6.1 J	2.2
PCB-156/157	0.002	1100	17	6	7.7	140	27
PCB-167	0.002	460 U	6.3	2.8	3.5	39	8
PCB-169	0.002	370 U	0.23 UM	0.26 UM	0.24 UM	3.9 UM	0.37 J
PCB-189	0.002	360	0.96 J	0.35 J	1.1 J	11 J	2.3
Total MoCB	NA	1500000 J	49 J	48 J	0.1 J	7200 J	170 J
Total DiCB	NA	4700000 J	280 J	190 J	1.1 J	70000 J	4200 J
Total TrCB	NA	2600000 J	910 J	110 J	0.83 J	110000 J	18000 J
Total TeCB	NA	1300000 J	1000 J	81 J	43 J	72000 J	17000 J
Total PeCB	NA	440000 J	970 J	250 J	340 J	17000 J	5300 J
Total HxCB	NA	130000 J	530 J	210 J	310 J	3800 J	950 J
Total HpCB	NA	64000 J	130 J	38 J	160 J	1300 J	340 J
Total OcCB	NA	27000 J	37 J	5.4 J	49 J	390 J	100 J
Total NoCB	NA	3700 J	9.8 J	2.7 J	10 J	53 J	18 J
DeCB	NA	550	3.3	ND	6.4	ND	6.8
Total PCB's	NA	11,000,000	3,900	930	920	280,000	47,000
DILUTION FACTOR		1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED		9/5/2018	9/6/2018	9/6/2018	9/6/2018	9/5/2018	9/4/2018
DATE EXTRACTED		9/24/2018	9/24/2018	9/24/2018	9/24/2018	9/24/2018	9/24/2018
DATE ANALYZED		10/26/2018	9/29/2018	9/29/2018	9/29/2018	9/30/2018	9/28/2018
SAMPLE WEIGHT (GRAMS)		0.00107	0.021	0.0204	0.0214	0.00104	0.0206
% SOLID		38.7	59.2	53.1	55.0	69.3	51.9

S4VEM DATA VALIDATION QUALIFIER COMMENTS:

^ Total PCBs are the sum of the total homologues.

TIER 2/S4VEM DATA VALIDATION QUALIFIER COMMENTS:

J Sample concentrations reported below the laboratory reporting limit are flagged (J) on the Data Summary Table as estimated values with no superscripts.

1 Blank contamination; the positive sample results that are less than the CRQL are reported as non-detects (U) at the CRQL; positive sample sample results greater than the CRQL but less than the blank result are reported as non-detect (U) at the adjusted blank concentration.

2 Equipment blank contamination; detects for the affected compounds are flagged (EB) on the Data Summary Table to indicate the presence of an unknown amount of sampling error as evidenced by the aqueous equipment blank contamination.

3 LCS/LCSD recovery above QC limits; estimate high (J+) all positive results for PCB 1 and PCB 4 in all sediment samples.

4 Congener exceeded the instrument calibration range; estimate (J) the affected analytes in samples PA41R8 and PA41R9.

5 Labeled compound ion abundance ratio criteria not met; estimate (J) positive results for PCB 1 and PCB 2 in sample PA41R9.

6 Field duplicate precision outside criteria; estimate (J, UJ) the positive results and non-detects for PCB 1 in all sediment samples.

NOTES:

Results are reported in micrograms per kilogram (µg/kg).

CRQL = Contract Required Quantitation Limit
All results are reported on a Dry Weight Basis.
* Reported value is from diluted analysis.
WHO = World Health Organization.
COMPOUND = WHO Toxic PCB Homologues

TABLE 4

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

SAMPLE LOCATION	THD-C102 C		WBD-C1 C		WBD-C5 C		BCA-C3 C		BCA-C4 B	
SAMPLE NUMBER	0134LN-0104	Lab	0134LN-0003	Lab	0134LN-0013	Lab	0134LN-0024	Lab	0134LN-0029	Lab
LAB SAMPLE ID	AB76569	RL	AB76570	RL	AB76571	RL	AB76572	RL	AB76573	RL
COMPOUND										
Aroclor-1016	ND	14,000	ND	1,300	ND	3,900	ND	2,000	ND	4,500
Aroclor-1221	**170,000**	14,000	ND	1,300	ND	3,900	ND	2,000	ND	4,500
Aroclor-1232	ND	14,000	ND	1,300	**34,000**	3,900	ND	2,000	ND	4,500
Aroclor-1242	ND	14,000	ND	1,300	ND	3,900	ND	2,000	ND	4,500
Aroclor-1248	ND	14,000	**9,800**	1,300	ND	3,900	**15,000**	2,000	**21,000**	4,500
Aroclor-1254	ND	14,000	ND	1,300	**8,300**	3,900	ND	2,000	ND	4,500
Aroclor-1260	ND	14,000	ND	1,300	ND	3,900	ND	2,000	ND	4,500
Aroclor-1262	ND	14,000	ND	1,300	ND	3,900	ND	2,000	ND	4,500
Aroclor-1268	ND	14,000	ND	1,300	ND	3,900	ND	2,000	ND	4,500

NOTES:

Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL4, PCBs Medium Level in Soils and Sediments.

All Results in micrograms per Kilogram (µg/Kg). (Note: results reported in milligrams per Kilograms (mg/Kg) and have been converted.)
Bolded results exceed laboratory Reporting Limits (RLs).
ND = Not Detected above Laboratory Reporting Limits (RLs).
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

TABLE 4

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

SAMPLE LOCATION	BCA-C5 D		BCA-C6 G		BCA-C7 A		THD-C1 B		THD-C1 D	
SAMPLE NUMBER	0134LN-0036	Lab	0134LN-0044	Lab	0134LN-0047	Lab	0134LN-0051	Lab	0134LN-0053	Lab
LAB SAMPLE ID	AB76574	RL	AB76575	RL	AB76576	RL	AB76577	RL	AB76578	RL
COMPOUND										
Aroclor-1016	ND	4,800	ND	590	ND	420	ND	2,700	ND	13,000
Aroclor-1221	ND	4,800	ND	590	ND	420	**29,000**	2,700	**200,000**	13,000
Aroclor-1232	ND	4,800	ND	590	**5,500**	420	ND	2,700	ND	13,000
Aroclor-1242	ND	4,800	ND	590	ND	420	ND	2,700	ND	13,000
Aroclor-1248	**12,000 P**	4,800	**2,600**	590	ND	420	ND	2,700	ND	13,000
Aroclor-1254	ND	4,800	ND	590	**1,200**	420	ND	2,700	ND	13,000
Aroclor-1260	ND	4,800	ND	590	ND	420	ND	2,700	ND	13,000
Aroclor-1262	ND	4,800	ND	590	ND	420	ND	2,700	ND	13,000
Aroclor-1268	ND	4,800	ND	590	ND	420	ND	2,700	ND	13,000

NOTES:

Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL4, PCBs Medium Level in Soils and Sediments.
All Results in micrograms per Kilogram (µg/Kg). (Note: Results reported by Laboratory in milligrams per Kilograms (mg/Kg) and have been converted to µg/Kg.)
Bolded results exceed laboratory Reporting Limits (RLs).
ND = Not Detected above Laboratory Reporting Limits (RLs).
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

TABLE 4

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

SAMPLE LOCATION	THD-C1 F		THD-C2 C		LCA-C2 A		LCA-C2 C		LCA-C2 E	
SAMPLE NUMBER	0134LN-0055	Lab	0134LN-0060	Lab	0134LN-0067	Lab	0134LN-0069	Lab	0134LN-0071	Lab
LAB SAMPLE ID	AB76579	RL	AB76580	RL	AB76581	RL	AB76582	RL	AB76583	RL
COMPOUND										
Aroclor-1016	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000
Aroclor-1221	**360,000**	28,000	**140,000**	11,000	**670,000**	64,000	**1,600,000**	200,000	**880,000 P**	130,000
Aroclor-1232	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000
Aroclor-1242	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000
Aroclor-1248	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000
Aroclor-1254	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000
Aroclor-1260	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000
Aroclor-1262	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000
Aroclor-1268	ND	28,000	ND	11,000	ND	64,000	ND	200,000	ND	130,000

NOTES:

Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL4, PCBs Medium Level in Soils and Sediments.
All Results in micrograms per Kilogram (µg/Kg). (Note: Results reported by Laboratory in milligrams per Kilograms (mg/Kg) and have been converted to µg/Kg.)
Bolded results exceed laboratory Reporting Limits (RLs).
ND = Not Detected above Laboratory Reporting Limits (RLs).
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

TABLE 4

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

SAMPLE LOCATION	LCA-C3 C		MBC-C1 D		UMB-C1 A		UMB-C2 B		UNR-C2 D	
SAMPLE NUMBER	0134LN-0074	Lab	0134LN-0079	Lab	0134LN-0086	Lab	0134LN-0091	Lab	0134LN-0099	Lab
LAB SAMPLE ID	AB76584	RL	AB76585	RL	AB76586	RL	AB76587	RL	AB76588	RL
COMPOUND										
Aroclor-1016	ND	220,000	ND	3,300	ND	100	ND	110	ND	130
Aroclor-1221	**2,000,000**	220,000	ND	3,300	ND	100	ND	110	ND	130
Aroclor-1232	ND	220,000	**42,000**	3,300	ND	100	ND	110	ND	130
Aroclor-1242	ND	220,000	ND	3,300	ND	100	ND	110	**840**	130
Aroclor-1248	ND	220,000	ND	3,300	ND	100	ND	110	ND	130
Aroclor-1254	ND	220,000	ND	3,300	**350**	100	**520**	110	**710**	130
Aroclor-1260	ND	220,000	ND	3,300	ND	100	**540**	110	**180**	130
Aroclor-1262	ND	220,000	ND	3,300	ND	100	ND	110	ND	130
Aroclor-1268	ND	220,000	ND	3,300	ND	100	ND	110	ND	130

NOTES:

Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL4, PCBs Medium Level in Soils and Sediments.
All Results in micrograms per Kilogram (µg/Kg). (Note: Results initially reported by Laboratory in milligrams per Kilograms (mg/Kg) and have been converted to µg/Kg.)
Bolded results exceed laboratory Reporting Limits (RLs).
ND = Not Detected above Laboratory Reporting Limits (RLs).
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

TABLE 4

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SEDIMENT/SOURCE SAMPLES
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

SAMPLE LOCATION	UNR-C3 C	Lab RL
SAMPLE NUMBER	0134LN-0102	
LAB SAMPLE ID	AB76589	
COMPOUND		
Aroclor-1016	ND	60
Aroclor-1221	ND	60
Aroclor-1232	ND	60
Aroclor-1242	ND	60
Aroclor-1248	ND	60
Aroclor-1254	ND	60
Aroclor-1260	ND	60
Aroclor-1262	ND	60
Aroclor-1268	ND	60

NOTES:

Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL4, PCBs Medium Level in Soils and Sediments.
All Results in micrograms per Kilogram (µg/Kg). (Note: Results initially reported by Laboratory in milligrams per Kilograms (mg/Kg) and have been converted to µg/Kg.)
Bolded results exceed laboratory Reporting Limits (RLs).
ND = Not Detected above Laboratory Reporting Limits (RLs).
P = The confirmation value exceeded 35% difference and is less than 100%. The lower

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0914F SDG: D35475
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 5
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
SEPTEMBER 2018

		SAMPLE NUMBER	**D35475**	**D35476**	**D35477**	**D35478**	**D35479**	**D35480**
		STATION LOCATION	**WBD-C5 C**	**PTB-C1 A**	**BCA-C3 C**	**BCA-C5 D**	**THD-C1 G**	**LCA-C2 E**
		LABORATORY NUMBER	**180-81717-1**	**180-81717-2**	**180-81717-3**	**180-81717-4**	**180-81717-5**	**180-81717-6**
COMPOUND	**MDL**	**RL**						
Total Organic Carbon (TOC)	**750**	**1,000**	26,000 J	2,100 J	31,000 J	45,000 J	66,000 J	61,000 J
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	9/4/2018	9/4/2018	9/4/2018	9/4/2018	9/5/2018	9/5/2018
		DATE ANALYZED	9/11/2018	9/11/2018	9/11/2018	9/11/2018	9/11/2018	9/11/2018
		% SOLID	57	88	61.6	52.8	44.2	53.1

S3VM DATA VALIDATION QUALIFIER COMMENTS:
U = Value is non-detected.
J = Result is estimated due to exceedance of laboratory duplicate RPD criteria.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

SITE: LOWER NEPONSET RIVER PCBs
CASE: 0914F SDG: D35475
LABORATORY: EARTH TOXICS, INC.

DATA SUMMARY TABLE 5
TOTAL ORGANIC CARBON SEDIMENT ANALYSIS
SEPTEMBER 2018

		SAMPLE NUMBER	**D35481**	**D35482**	**D35483**	**D35484**	**D35485**	**D35486**
		STATION LOCATION	**THD-C1 F**	**UNR-C2 D**	**UNR-C3 A**	**UMB-C2 C**	**LCA-C3 D**	**BCA-C105 D**
		LABORATORY NUMBER	**180-81717-7**	**180-81717-8**	**180-81717-9**	**180-81717-10**	**180-81717-11**	**180-81717-12**
COMPOUND	**MDL**	**RL**						
Total Organic Carbon (TOC)	**750**	**1,000**	61,000 J	100,000 J	77,000 J	55,000 J	19,000 J	47,000 J
		DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0
		DATE SAMPLED	9/5/2018	9/6/2018	9/6/2018	9/6/2018	9/5/2018	9/4/2018
		DATE ANALYZED	9/11/2018	9/11/2018	9/11/2018	9/11/2018	9/11/2018	9/11/2018
		% SOLID	39.4	49.5	41	51.5	63.9	52.8

S3VM DATA VALIDATION QUALIFIER COMMENTS:
U = Value is non-detected.
J = Result is estimated due to exceedance of laboratory duplicate RPD criteria.

NOTES:
Results are reported in milligrams per kilogram (mg/kg).
MDL = Method Detection Limit.
RL = Reporting Limit Limit.
All results are reported on a Dry Weight Basis.

ATTACHMENT F
LOWER NEPONSET RIVER PCBS
START ANALYTICAL SUMMARY TABLES
Samples Collected from 13 to 17 November 2017 and 4 to 6 September 2018

TABLE 1

SEDIMENT/SOURCE SAMPLE PCB AROCLOR ANALYTICAL SUMMARY
LOWER NEPONSET RIVER PCBS SITE
NOVEMBER 2017

Sample Location	Compound	Sample Concentration			Background Concentration			Comments		
SD-06	Aroclor-1248	2,100	*J2	µg/Kg	140	UJ	µg/Kg	15	x	SQL
SD-08A	Aroclor-1248	270		µg/Kg	140	UJ	µg/Kg	1.9	x	SQL
SD-09	Aroclor-1248	150	J-1	µg/Kg	140	UJ	µg/Kg	1.1	x	SQL
SD-10	Aroclor-1248	260		µg/Kg	140	UJ	µg/Kg	1.9	x	SQL
SD-11	Aroclor-1248	1,500	*J4	µg/Kg	140	UJ	µg/Kg	10.7	x	SQL
SD-12A	Aroclor-1248	1,000	*	µg/Kg	140	UJ	µg/Kg	7.1	x	SQL
SD-12	Aroclor-1248	300	J-1	µg/Kg	140	UJ	µg/Kg	2.1	x	SQL
SD-13	Aroclor-1248	370	J-1	µg/Kg	140	UJ	µg/Kg	2.6	x	SQL
SD-39	Aroclor-1248	630	J2,4	µg/Kg	140	UJ	µg/Kg	4.5	x	SQL
SD-41	Aroclor-1248	530	*	µg/Kg	140	UJ	µg/Kg	3.8	x	SQL
SD-42	Aroclor-1248	200	J-1	µg/Kg	140	UJ	µg/Kg	1.4	x	SQL
SD-43	Aroclor-1248	180		µg/Kg	140	UJ	µg/Kg	1.3	x	SQL
SD-44	Aroclor-1254	2,100	*	µg/Kg	460	UJ	µg/Kg	4.6	x	Bac.
SD-100A	Aroclor-1248	200	J-1	µg/Kg	140	UJ	µg/Kg	1.4	x	SQL
SD-100B	Aroclor-1248	260		µg/Kg	140	UJ	µg/Kg	1.9	x	SQL

NOTES:

µg/Kg = micrograms per Kilogram.

SQL = Sample Quantitation Limit.

Bac. = Background

SD-39 is field duplicate of SD-06

Samples SD-36, SD-29, and SD-45 were selected as the background samples. SD-36 and SD-29 were used for the comparison of PCB Aroclor-1248 concentrations. SD-45 was used for the comparison of PCB Aroclor-1254 concentrations.

* Reported value is from diluted analysis.

J = The associated numerical value is an estimated quantity.

U = The compound or element was analyzed for, but not detected. The associated numerical value is the sample-adjusted SQL.

TABLE 2

SEDIMENT/SOURCE SAMPLE PCB AROCLOR ANALYTICAL SUMMARY
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Sample Location	Compound	Sample Concentration			Background Concentration			Comments		
LCA-C1 C	Aroclor-1221	1,600,000		µg/Kg	130		µg/Kg	12,308	x	SQL
LCA-C2 A	Aroclor-1221	670,000		µg/Kg	130		µg/Kg	5,154	x	SQL
LCA-C2 E	Aroclor-1221	880,000	P	µg/Kg	130		µg/Kg	6,769	x	SQL
LCA-C3 C	Aroclor-1221	2,000,000		µg/Kg	130		µg/Kg	15,385	x	SQL
THD-C1 B	Aroclor-1221	29,000		µg/Kg	130		µg/Kg	223	x	SQL
THD-C1 D	Aroclor-1221	200,000		µg/Kg	130		µg/Kg	1,538	x	SQL
THD-C1 F	Aroclor-1221	360,000		µg/Kg	130		µg/Kg	2,769	x	SQL
THD-C102 C	Aroclor-1221	170,000		µg/Kg	130		µg/Kg	1,308	x	SQL
THD-C2 C	Aroclor-1221	140,000		µg/Kg	130		µg/Kg	1,077	x	SQL
BCA-C7 A	Aroclor-1232	5,500		µg/Kg	130		µg/Kg	42	x	SQL
MBC-C1 D	Aroclor-1232	42,000		µg/Kg	130		µg/Kg	323	x	SQL
WBD-C5 C	Aroclor-1232	34,000		µg/Kg	130		µg/Kg	262	x	SQL
BCA-C3 C	Aroclor-1248	15,000		µg/Kg	130		µg/Kg	115	x	SQL
BCA-C4 B	Aroclor-1248	21,000		µg/Kg	130		µg/Kg	162	x	SQL
BCA-C5 D	Aroclor-1248	12,000	P	µg/Kg	130		µg/Kg	92	x	SQL
BCA-C6 G	Aroclor-1248	2,600		µg/Kg	130		µg/Kg	20	x	SQL
WBD-C1 C	Aroclor-1248	9,800		µg/Kg	130		µg/Kg	75	x	SQL
WBD-C5 C	Aroclor-1254	8,300		µg/Kg	710		µg/Kg	12	x	Bac.

NOTES:

Results in micrograms per Kilogram (µg/Kg). Note: Results initially reported by laboratory in milligrams per Kilogram (mg/Kg) and have been converted to µg/Kg.
SQL = Sample Quantitation Limit.
Bac. = Background
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

TABLE 3

SEDIMENT/SOURCE SAMPLE TOTAL PCBS (CONGENER) ANALYTICAL SUMMARY
LOWER NEPONSET RIVER PCBS SITE
SEPTEMBER 2018

Sample Location	Total PCBs Sample Concentration		Background Concentration		Comments		
WBD-C5 C	70,000	µg/Kg	3,900	µg/Kg	18	x	Bac.
BCA-C3 C	33,000	µg/Kg	3,900	µg/Kg	8	x	Bac.
BCA-C5 D	46,000	µg/Kg	3,900	µg/Kg	12	x	Bac.
THD-C1 G	270,000	µg/Kg	3,900	µg/Kg	69	x	Bac.
LCA-C2 E	1,100,000	µg/Kg	3,900	µg/Kg	282	x	Bac.
THD-C1 F	11,000,000	µg/Kg	3,900	µg/Kg	2,821	x	Bac.
LCA-C3 D	280,000	µg/Kg	3,900	µg/Kg	72	x	Bac.
BCA-C105 D	47,000	µg/Kg	3,900	µg/Kg	12	x	Bac.

NOTES:

µg/Kg = micrograms per Kilogram.
Total PCBs are the sum of the total homologues via congener analysis.
Bac. = Background
BCA-C105 D is field duplicate of BCA-C5 D
Samples PTB-C1 A, UNR-C2 D, UNR-C3 A, and UMB-C2C were selected as the background samples.
UNR-C2 D was used for comparison of Total PCB concentrations.