

Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues
New Bedford Harbor Superfund Site
Current as of 01/09/2018

Sampling Date	PCB Concentration by Location (ng/m ³ in 24-hour time-weighted average) ¹																																		
	24 Aerovox	25 Manomet	25 Cliftex	27 Porter	30 Fibre Leather	42 NSTAR North	43 Veranda	44 Taber	46 Coffin	Area C			Area D			53 Dredge	55 Aerovox West	56 Acushnet Park	57 Riverside Park	58 Pearl	59 Popes	60 Washburn	61 South Fence	62 Century House	63 Boathouse	64 Pilgrim	65 LHCC Dredge	66 Huttleston	67 Revere	68 Marsh Island	69 North Street	74 Beach St			
										47	48	49	50	51	52																				
12/19/18	32.6	NS		NS	19.6	19.4	NS	NS	NS	23.6/22.1 d	NS	NS	20.8	NS	NS	114	NS			NS	NS	NS		15.0		NS	NS	NS	NS	NS	NS	NS	NS	NS	2018 Dredge Areas I, N, & O remedial event and Aerovox Capping remedial event results. Unvalidated results.
11/28/18	<1.39	NS		NS	<1.39	17.6	NS	NS	NS	<1.39/<1.39d	NS	NS	1.60	NS	NS	15.1	NS			NS	NS	NS		3.88		NS	NS	NS	NS	NS	NS	NS	NS	2018 Dredge Areas I, N, & O remedial event and Aerovox Capping remedial event results. Unvalidated results.	
10/24/18	3.3	NS		NS	<1.39	23.2	NS	NS	NS	4.31/3.75 d	NS	NS	4.97	NS	NS	71.5	<1.39			NS	NS	NS		<1.39		NS	NS	NS	NS	NS	NS	NS	NS	2018 Dredge Areas I, N, & O remedial event and Aerovox Capping remedial event results.	
10/10/18	63.3	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11.3/10.3d			NS	NS	NS		42.1		NS	NS	NS	NS	NS	NS	NS	NS	2018 Aerovox Capping remedial event results.	
09/24/18	74.0	NS		NS	34.9	17.9	NS	NS	NS	37.5/32.4 d	NS	NS	31.4	NS	NS	146	NS			NS	NS	NS		1.43		NS	NS	NS	NS	NS	NS	NS	NS	2018 Dredge Areas I, N, & O remedial event.	
08/24/18	123	NS		NS	32.9	39.4	NS	NS	NS	31.5/15.4 d	NS	NS	23.5	NS	NS	141	NS			NS	NS	NS		5.79		NS	NS	NS	NS	NS	NS	NS	NS	2018 Dredge Areas I, N, & O remedial event.	
07/24/18	317	NS		NS	264	8.21	NS	NS	NS	135/143d	NS	NS	38.5	NS	NS	371	NS			NS	NS	NS		16.7		NS	NS	NS	NS	NS	NS	40.7	2018 Dredge Areas I, N, & O remedial event and Between the Beidges remedial event.		
05/30/18	72.9	NS		NS	67.9	5.47	NS	NS	NS	42.6/37.8 d	NS	NS	22.2	NS	NS	NS	NS			NS	NS	NS		24.4		NS	NS	NS	NS	NS	NS	NS	NS	2018 Dredge Areas I,N,&O background event.	
05/17/18	NS	NS		NS	NS	NS	NS	NS	14.0/18.3 d	NS	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS		7.71		NS	NS	22.2		7.93		NS	2018 North Street Salt Marsh remedial event.		
04/23/18	NS	31.3		7.4	46.8	16.3	NS	NS	NS	38.5/42.4 d	NS	NS	16.4	NS	NS	82.3	NS			NS	NS	NS				NS	NS	NS	NS	NS	NS	NS	NS	2018 Cable Crossing remedial event.	
03/27/18	NS	41.5		6.79	22.9	12.2	11.1	11.7	NS	19.0	NS	NS	21.5/24.3d	NS	NS	611	NS			NS	NS	19.1				NS	NS	NS	NS	NS	NS	NS	NS	2018 Cable Crossing and Between the Bridges remedial events. The pump on Station 65-Lower Harbor Dredge, stopped prematurely and did not run long enough to collect a valid sample.	
02/21/18	NS	NS		NS	NS	NS	5.21	4.03	NS	17.2	NS	NS	17.8	NS	NS	NS	NS			3.56	4.53	12.3				5.18	12.7	3.53	1.89		NS		2018 Lower Harbor Best Value remedial event. The pump for the duplicate sample at Station #47 did not run for the prescribed period and the sample was not submitted for analysis.		
01/25/18	NS	NS		NS	NS	NS	<1.39	<1.39	NS	<1.39/<1.39d	NS	NS	<1.39	NS	NS	NS	NS		<1.39	<1.39	<1.39			<1.39	<4.50	<1.39	<1.39	<1.39	<1.39			2018 Lower Harbor Best Value remedial event. This event also included a background sample for Station 69-North Street to support remediation of the North Street Salt Marsh.			
12/19/17	NS	NS		NS	NS	NS	27.8	9.64	NS	9.39/12.6 d	NS	NS	11.2	NS	NS	NS	NS		<1.39	2.82	<1.39			14.2	4.87	12.6	<1.39						2017 Lower Harbor Best Value remedial event.		
12/13/17	NS	<1.39		8.1	2.0	13	NS	NS	NS	1.4/<1.39 d	NS	NS	9.6	NS	NS	191	NS			NS	NS	NS				NS	NS	NS	NS	NS	NS	NS	NS	2017 Cable Crossing remedial event.	
11/28/17	NS	NS		NS	NS	NS	11	22	NS	48/29d	NS	NS	6.8	NS	NS	NS	NS		18	5.2	13			1.7	6.5	2.5	9.3						2017 Lower Harbor Best Value remedial event.		
11/15/17	NS	29		1.5	43	4.8	NS	NS	NS	31/34d	NS	NS	25	NS	NS	825	NS			NS	NS	NS				NS	NS	NS	NS	NS	NS	NS	NS	2017 Cable Crossing remedial event.	
10/23/17	NS	NS		NS	NS	NS	5	24	NS	75/120d	NS	NS	32	NS	NS	NS	NS		5	22	97			16	45	2	35						2017 Lower Harbor Best Value remedial event.		
10/19/17	NS	34		23	22	28	NS	NS	29	NS	NS	15	NS	NS	171	NS			NS	NS	NS				NS	NS	NS	NS	NS	NS	NS	NS	2017 Cable Crossing remedial event. The duplicate sample for Station 47--Area C did not run longer than 12 hours and was not sent to the laboratory for analysis.		
09/26/17	NS	NS		NS	NS	NS	34	6	NS	42.9/25d	NS	NS	46	NS	NS	NS	NS		6	13	48			15	33	ND	26						2017 Lower Harbor Best Value remedial event.		
09/13/17	NS	82		35	41	30	NS	NS	NS	8/15d	NS	NS	16	NS	NS	NS	NS		NS	NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	2017 Cable Crossing background event.			
08/24/17	NS	NS		NS	NS	NS	NS	NS	7.57/24.4 d	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	3.82			NS	NS	NS	16.9	38.6				2017 Marsh Island Excavation results.			

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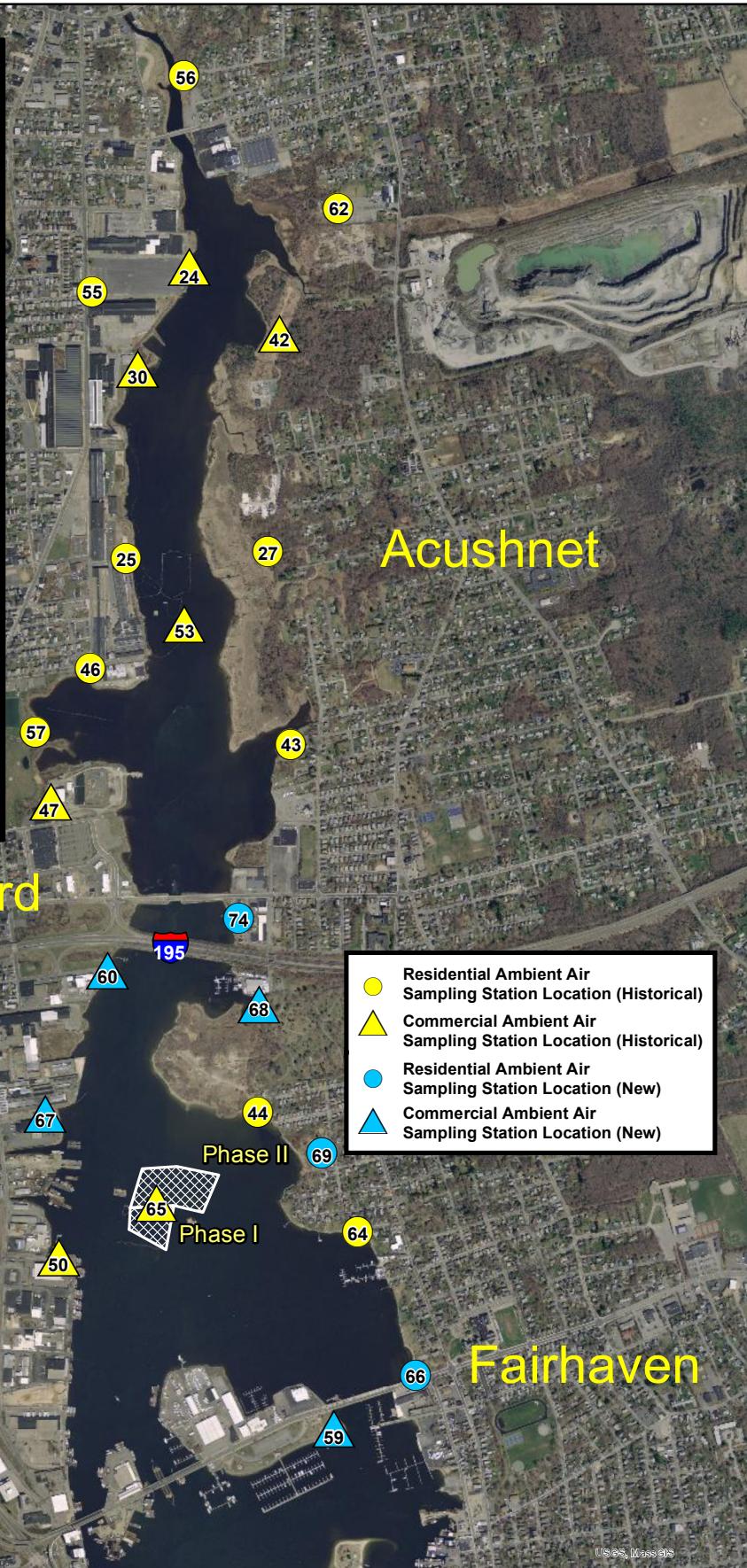
Sampling Date	PCB Concentration by Location (ng/m ³ in 24-hour time-weighted average) ¹																																
	24 Aerovox	25 Manomet	25 Cliftex	27 Porter	30 Fibre Leather	42 NSTAR North	43 Veranda	44 Taber	46 Coffin	Area C			Area D			53 Dredge	55 Aerovox West	56 Acushnet Park	57 Riverside Park	58 Pearl	59 Popes	60 Washburn	61 South Fence	62 Century House	63 Boathouse	64 Pilgrim	65 LHCC Dredge	66 Huttleston	67 Revere	68 Marsh Island	69 North Street	74 Beach St	
										47	48	49	50	51	52																		
07/19/17	NS	NS		NS	NS	NS	70.8	21.1	NS	34.2/18.8 d	NS	NS	9.38	NS	NS	NS	NS	NS	NS	NS	14.0	13.0	44.7				42.4	NS	26.8	17.6	49.4		2017 Lower Harbor Best Value/Marsh Island background event. Station 50 Area D ran for 878 minutes, but was retained because it ran for more than 12 hours. Unvalidated Results.
04/03/17	NS	4.79		ND _R	NS	NS	3.60	ND _R	2.54	2.88	NS	NS	ND _R	NS	NS	ND _R	NS	NS	NS	ND _R	ND _R	3.01	ND _R				ND _R	NS	ND _R	ND _R		2017 Upper Harbor Dredging-Lower Harbor CAD Cell filling. The pump at Area D failed by mid-afternoon. The pump used on the dredge was removed after 8 hours and placed at Area D. Both Area D and the dredge were monitored for their full time intervals. The pump for the duplicate at Area C shut down sometime after inspection. Because it didn't run for at least 12 hours, the sample was discarded. Due to a laboratory error, all ND results (less than 1.39 ng/m ³) were rejected as a result of data validation. These are indicated by ND _R .	
03/29/17	NS	NS		NS	NS	NS	5.94	NS	ND	7.15/7.67 d	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS				NS	NS	NS	NS		2017 Upper Harbor Excavation PMC results.		
03/08/17	NS	6.92		11.5	NS	NS	29.9	2.00	15.2	<1.37/ <1.39d	NS	NS	<1.39	NS	NS	71.9	NS	NS	NS	NS	<1.39	<1.39	<1.38				12.8	NS	5.35	<1.39		2017 Upper harbor dredging lower harbor CAD cell placements. Note Pearl (#58) pump had stopped in mid-collection. The dredge pump (#53) had only run for 40 minutes prior to shutdown. The dredge pump (#53) was placed at #58 Pearl for remainder of day to collect a 6.5 m ³ sample. The dredge pump (#53) was placed onboard the dredge the following day (3/9/17) to collect a total sample of 2.15 m ³ . This was also the first round that was analyzed entirely by the low resolution mass spec method.	
02/23/17	NS	NS		NS	NS	NS	4.01	NS	22.7	2.38	NS	NS	NS	NS	NS	NS	NS	NS	1.68	NS	NS	NS				NS	NS	NS	NS		2017 Upper Harbor Excavation PMC results. The duplicate pump for Station #47 Area C failed and no duplicate sample was submitted for analysis.		
01/25/17	NS	4.53		2.57	NS	NS	11.4	2.67	9.41	2.43 / 2.65d	NS	NS	2.66	NS	NS	6.35	NS	NS	NS	NS	0.803	NS	6.58			2.91	NS	3.84	3.07		2017 Upper harbor dredging lower harbor CAD cell placements.		
01/12/17	NS	NS		NS	NS	NS	18.2	NS	15.9	1.90/1.90 d	NS	NS	NS	NS	NS	NS	NS	NS	<0.061	NS	NS	NS				NS	NS	NS	NS		2017 Upper Harbor Excavation PMC results.		
12/06/16	NS	NS		NS	NS	NS	3.56	0.679	NS	5.32/5.10 d	NS	NS	5.41	NS	NS	NS	NS	NS	NS	NS	1.57	6.08			1.14	11.7	0.48	4.86		2016 Lower Harbor Dredging in Moby Dick Marina Area A36.			
12/01/16	NS	NS		NS	NS	NS	19.7	NS	1.04	1.10 / 1.21d	NS	NS	NS	NS	NS	NS	NS	NS	0.0007	NS	NS	NS				NS	NS	NS	NS		2016 Upper Harbor Excavation PMC results.		
11/10/16	NS	NS		NS	NS	NS	13.7	NS	4.72	1.64/1.63 d	NS	NS	NS	NS	NS	NS	NS	NS	0.658	NS	NS	NS				NS	NS	NS	NS		2016 Upper Harbor Pre- excavation PMC results.		
11/07/16	NS	NS		NS	NS	NS	6.26	4.07	NS	3.38	NS	NS	5.82/3.75d	NS	NS	NS	NS	NS	NS	0.416	3.55	7.29			2.10	3.19	NS	5.57		2016 Lower Harbor Dredging in Area A34. Dredge was sampled.			
10/19/16	NS	NS		NS	NS	NS	85.2	18.2	NS	26.2	NS	NS	21.1/24.4d	NS	NS	NS	NS	NS	NS	3.89	13.0	30.2			10.6	17.1	NS	22.9		2016 Lower Harbor Dredging in Area A34. Dredge was sampled.			
09/20/16	NS	NS		NS	NS	NS	35.3	18.9	NS	21.4	NS	NS	20.6/22.0d	NS	NS	NS	NS	NS	NS	2.50	NS	59.5			15.7	37.4	NS	25.9		2016 Lower Harbor Dredging in Area A34. Dredge was sampled.			
08/18/16	NS	NS		NS	NS	NS	97.6	19.1	NS	17.1/17.1 d	NS	NS	6.56	NS	NS	NS	NS	NS	NS	3.24	10.5	12.6			11.6	30.1	11.6	9.95		2016 Lower Harbor Dredging in Area 35B. Dredge was sampled.			
08/11/16	NS	61.1		32.2	35.2/39.2d	35.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	704	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS		2016 Upper Harbor Debris Removal. Debris Barge was sampled.			
07/27/16	NS	NS		NS	NS	NS	42.9	23.7	NS	18.1/16.5 d	NS	NS	12.3	NS	NS	NS	NS	NS	0.416	7.36	32.4			11.1	83.1	6.42	13.4		2016 Lower Harbor Dredging. Dredge was sampled.				
07/20/16	NS	95.1		22.8	56.9/52.0 d	33.2	NS	NS	25.3	NS	NS	NS	NS	NS	NS	513	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS		2016 Upper Harbor Debris Removal. Debris Barge was sampled.			
06/27/16	NS	NS		NS	NS	NS	21.8	32.8	NS	14.4/13.4 d	NS	NS	8.15	NS	NS	NS	NS	NS	0.473	9.53	48.6			13.92	63.0	6.63	8.96		2016 Lower Harbor Debris Removal. Debris Barge was sampled.				
06/13/16	NS	10.0		14.4	NS	NS	36.5	NS	0.630	6.37/5.45 d	NS	NS	NS	NS	NS	47.1	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS		2016 Upper Harbor Debris Removal. Debris Barge was sampled.				
05/23/16	NS	NS		NS	NS	NS	11.9	1.88	NS	28.2	NS	NS	23.8/24.0d	NS	NS	NS	NS	NS	5.59	3.38	22.1			3.93	15.1	1.32	21.9		2016 Lower Harbor Debris Removal. Debris Barge was sampled.				
05/16/16	NS	5.89		11.8	NS	NS	41.7	NS	3.96	3.86/2.40 d	NS	NS	NS	NS	NS	34.9	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS		2016 Upper Harbor Debris Removal. Debris Barge was sampled.				
04/25/16	NS	NS		NS	NS	NS	10.9	6.02	NS	14.7	NS	NS	6.55/6.46d	NS	NS	NS	NS	NS	2.26	7.43	11.6			6.28	8.57	3.43	6.04		2016 Lower Harbor Dredging and Debris Removal. Dredge was sampled.				
03/22/16	NS	NS		NS	NS	NS	12.6	7.48	NS	2.38/2.16 d	NS	NS	0.578	NS	NS	NS	NS	NS	0.0804	2.53	0.553			6.38	8.81	5.25	0.379		2016 Lower Harbor Dredging and Debris Removal. Dredge was sampled.				
02/18/16	NS	NS		NS	NS	NS	4																										

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01/18/16	0.216	0.329		NS	0.0185	11.9	1.68	0.496	0.138	0.298	NS	NS	0.102/0.117d	NS	NS	NS	0.00348			NS	NS	NS				1.87	NS	NS	NS				
12/15/15	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	5.12	NS	NS	NS	NS			0.707	NA	4.55				6.35	13.5/13.2d	13.4	1.47				
11/18/15	14.6	NS		NS	12.6	4.13	NS	3.11	6.27	14.0	NS	NS	13.7	NS	NS	35.4/38.4d	2.30			NS	NS	NS				2.13	NS	NS	NS				
11/02/15	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	34.9	NS	NS	NS	NS			5.68	9.72	25.4				12.8	NS	10.9	23.5				
10/14/15	22.6	16.4		17.4	4.48	13.0	42.8	19.5	7.32	23.6	NS	NS	17.4	NS	NS	186	0.352									11.4							
09/23/15	150	180		3.9	57/50d	8.1	19	16	50	63	NS	NS	42	NS	NS	300	7.4								7.5								
8/26/2015	62	46/35d		22	19	34	84	13	21	35	NS	NS	32	NS	NS	1900	1.2								15								
7/21/2015	44	48		10	44	20	37	19	27	16	NS	NS	11/15d	NS	NS	NS	7.2								11								
6/3/2015	45	38		0.97	17	4.2	8.6	1.2	5.6	13/14d	NS	NS	16	NS	NS	NS	1.9	1.1							1.2	NS							
4/22/2015	52	26		NA	20	3.4	16	7.6	12	0.016	NS	NS	3.6	NS	NS	4.9	NS								5.7	NS							
4/6/2015	NS	NS		NS	NS	NS	NS	5.1	NS	NS	NS	NS	8.5	NS	NS	NS	NS	NS							2.2	NS							
3/11/2015	NS	0.55/0.39d		NS	0.19	NS	NS	0.53	0.15	1.00	NS	NS	0.56	NS	NS	NS	0.12	NS							0.53	2.4							
2/6/2015	NS	NS		NS	NS	NS	NS	0.14/0.17	NS	NS	NS	NS	0.099	NS	NS	NS	NS	NS							0.15	NS							
1/13/2015	0.58	0.55		0.16	0.11/0.15d	0.87	1.4	0.17	0.075	0.43	NS	NS	1.3	NS	NS	NS	0.05	0.12							0.230	2.48							
12/29/2014	NS	NS		NS	NS	NS	NS	0.98	NS	NS	NS	NS	0.5	NS	NS	NS	NS	NS							1.6/1.9d	3.5							
12/18/2014	NS	NS		NS	NS	NS	NS	1.0	NS	NS	NS	NS	0.49	NS	NS	NS	NS	NS							2.3	3.5/4.6d							
12/15/2014	6.7	7.2		0.73	5.6	2.3	3.6	1.6	2.7	4.4	NS	NS	3.7/4.3d	NS	NS	NS	1.6	0.51							1.1	4.7							
11/4/2014	43	21.4		9.9	26.8	8.9	17.4	24.2	21	4.85	NS	NS	7.43	NS	NS	4.38	7.05								15.7/5.19d	NS							
10/6/2014	150	98/110d		5.2	180	3.6	17	21	70	21	NS	NS	21	NS	NS	90	NS	NA							12	NS							
9/3/2014	91	44		9.1	39	36	52.8	12/10d	10.1	20.4	NS	NS	11	NS	NS	100	NS	3.8							11								
8/5/2014	75	72		8	61	17	37	17	42.2	55.1	NS	NS	23.4	NS	NS	260	NS	4.9							8.45								
7/8/2014	82	25		22.7	35.7	19	43.1	34	24	33/33d	NS	NS	22	NS	NS	110	NS	4.2							14.7								
6/16/2014	200	90		12/13d	100	25	35	27	50	25	NS	NS	20	NS	NS	320	NS	21							8.6								
5/7/2014	56.9	32.6		NS	33.8	10.9	29.7	24.3	38.3	13.4	NS	NS	11.0	NS	NS	194	NS	7.01							11.6								
3/18/2014	17	5.8		0.36/0.42d	4.5	2.2	1.7	0.41	ND	3.3	NS	NS	2.8	NS	NS	0.14								0.22	NS								
3/18/2014													0.41												0.22	NS							
12/19/2013													2.32												3.13	0.89							
12/4/2013													3.31/3.0d																				
11/20/2013													2.17																				
9/25/2013	25.6	26.5		2.65	14.7	8.05	11.2	NS	4.1	NS	NS	NS	13.3/12.8d	NS																			

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Station	Location
24	Aerovox
25	Manomet
27	Porter
30	Fibre Leather
42	NSTAR N
43	Veranda
44	Taber
46	Coffin
47	Area C Downwind
50	Area D Downwind
53	Dredge
55	Aerovox West
56	Acushnet Park
57	Riverside Park
58	Pearl
59	Popes
60	Washburn
62	Century House
64	Pilgrim
65	CAD Cell Dredge
66	Huttleston
67	Revere
68	Marsh Island
69	North Street
74	Beach Street



Legend



EPA CAD CELL

Aerial Photography MASSGIS 2014

N

0 750 1,500
Feet

JACOBS

Available Ambient Air
Sampling Station
Locations
New Bedford Harbor Superfund Site

Name: piccolo

Date: 8/8/2018

Figure