

Table E-1
Ambient Air Monitoring Program - Total Detectable PCB Homologues

Sampling Date	PCB Concentration by Location (ng/m ³ in 24-hour time-weighted average)																											Activity Period		
	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 Huddleston	67 Revere	
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	NS	5.591	3.384	22.1			3.93	15.1	1.32	21.9	2016 Upper Harbor Debris Removal. Debris Barge was sampled. Unvalidated results.	
05/16/16	NS	5.89		11.8	NS	NS	41.7	NS	3.98	3.88/3.16d	NS	NS	NS	NS	NS	35.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2016 Upper Harbor Debris Removal. Debris Barge was sampled. Unvalidated results.	
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	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	2.38/2.16d	NS	NS	0.578	NS	NS	NS	NS	NS	NS	0.080	2.53	0.55			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	4.88	1.34	0.114	2.69	NS	NS	0.979/1.13d	NS	NS	NS	NS	NS	NS	0.00	1.33	1.10			0.864	3.36	1.62	0.870	2016 Combined Lower Harbor Dredging and Parcel 265 Excavation monitoring events.	
01/26/16	NS	NS		NS	NS	NS	14.1	4.39	NS	4.82	NS	NS	0.867/1.08d	NS	NS	NS	NS	NS	NS	0.208	2.04	0.965			4.75	NS	2.07	0.278	2016 Lower Harbor Debris Removal only.	
01/21/16	NS	NS		NS	NS	NS	2.81	0.787	0.076	0.916	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.071			NS	NS	NS	NS	NS	2016 Parcel 265 Excavation air monitoring event. Pump #21 stopped at 1033.	
01/18/16	0.216	0.329		NS	0.0185	11.9	1.68	0.496	0.138	0.298	NS	NS	0.102/0.117 D	NS	NS	NS	0.00348		NS	NS	NS			1.87	NS	NS	NS	NS	2016 Upper Harbor Post-Dredge Sampling Event. Location #27 Porter not sampled due to lack of access caused by snow.	
12/15/15	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	5.12	NS	NS	NS	NS	NS	NS	0.707	NA	4.55			6.35	13.5/13.2d	13.4	1.47	2015 Lower Harbor Debris Removal only. Location #59 Popes was collected but the media was found lying on the ground so it was not analyzed. Strong winds were experienced during most of the evening.	
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	NS	2015 Hydraulic Dredging in Upper Harbor Area T.	
11/02/15	NS	NS		NS	NS	NS	NS	13.2	NS	NS	NS	NS	34.9	NS	NS	NS		NS	NS	5.68	9.72	25.4			12.8	NS	10.9	23.5		2015 Lower Harbor Pre-debris removal.
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					2015 Hydraulic Dredging in Upper Harbor - Area S; Samples 25, 27, 30, 42, 55 and one blank analyzed on 10 day TAT for submarine power cable removal activities. The pump for the duplicate sample at Station #50 - Area D failed to run the equivalent time of the primary sample and was voided.	
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					2015 Hydraulic Dredging in Upper Harbor Area H.	
8/26/2015	62	46/35d		22	19	34	84	13	21	35	NS	NS	32	NS	NS	1900	1.2							15					2015 Hydraulic Dredging in Upper Harbor - Area S.	
7/21/2015	44	48		10	44	20	37	19	27	16	NS	NS	11/15d	NS	NS	NS	7.2							11					2015 Pre-Dredge Samples for the Upper Harbor. Location #56 - Acushnet Park can no longer be used as a sampling station due to frequent vandalism of pump and/or media.	
6/3/2015	45	38		0.97	17	4.2	8.6	1.2	5.6	13/14d	NS	NS	16	NS	NS	1.9	1.1							1.2	NS				2015 Off Season Data Collection.	
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				2015 Off Season Data Collection and Pre-dredge sampling for the Upper Harbor. Pump at Station #27 failed to run long enough to collect a viable sample so it was not analyzed.	
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				Lower Harbor CAD Cell Construction Phase II (Post Top of CAD Cell dredging); Pump at Station #50 failed to run the same duration as the duplicate so only the duplicate sample was analyzed. This sample is considered the primary sample so there is no duplicate for this post-dredge sampling event.	
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	0.12	NS							0.53	2.4				Lower Harbor CAD Cell Construction Phase II (Top of CAD Cell dredging); Stations 24, 27, 42, and 43 were inaccessible for sampling due to obstructions from snow/ice piles.	
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				Lower Harbor CAD Cell Construction Phase II (Top of CAD Cell dredging); The dredge sample media was found broken at the dredge and therefore was not analyzed.	
1/13/2015	0.58	0.55		0.1600	0.11 / 0.15d	0.87	1.4	0.17	0.075	0.43	NS	NS	1.3	NS	NS	0.05	0.12							0.230	2.48				Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging).	
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				Rapid TAT data. Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging).	
12/18/2014	NS	NS		NS	NS	NS	NS	1.00	NS	NS	NS	NS	0.49	NS	NS	NS	NS	NS						2.3	3.5/4.6d				Rapid turn around time (TAT) data. Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging). Reissue of data due to error in laboratory calculations.	
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				Lower Harbor CAD Cell Construction Phase II (top of CAD Cell dredging). Off-season data collection included on January 5, 2015 as received from laboratory.	
11/4/2014	43	21.4		9.9	26.8	8.9	17.41	24.2	21	4.85	NS	NS	7.43	NS	NS	4.38	7.05							15.72/5.19d	NS				2014 Post-Dredge Operation for Upper Harbor. Pre-Dredge sampling for the Lower Harbor CAD Cell Phase II (#44, 50 and 64).	
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				2014 Hydraulic Dredging in Areas L & S.	
9/3/2014	91	44		9.1	39	36	53	12/10d	10	20	NS	NS	11	NS	NS	100	NS	3.8						11					2014 Hydraulic Dredging in Area R-east.	
8/5/2014	75	72		8	61	17	37	17	42	55	NS	NS	23	NS	NS	260	NS	4.9						8.5					2014 Hydraulic Dredging in Area R-east.	
7/8/2014	82	25		23	36	19	43	34	24	33/33d	NS</																			

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8/11/2005	216.0	NS	103.0		NS	25.9			37.2	NS	NS	29.3	NS	NS	21.3	NA	42.1	49.9										
12/3/2004	30	NS	27		NS	40			15	22	NS	26	22	NS	31	NA	9.33	1.52										
11/5/2004	578	NS	61		NS	73			80	NS	NS	28	NS	NS	NS	351	28.42	39.08										
10/19/2004	559	NS	259		NS	NS			36	47	48	66	17	74	100	704	NS	NS										
9/28/2004	9557	NS	423		NS	NS			342	35	165	207	80	75	115	2734	NS	NS										
9/23/2004	588	NS	97		NS	NS			5	7	10	17	6	5	19	1212	NS	NS										
9/14/2004	1449	NS	229		NS	NS			48	64	64	86	38	39	61	98	NS	NS										
9/9/2004	1024	NS	167		NS	NS			145	28	37	56	20	16	47	723	NS	NS										
6/29/2004	2286	NS	NS		NS	NS			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS										
March-May 2000	76	NS	35		NS	29			35	61	61	61	6.8	6.8	6.8	NS	NS											
Dec 1999-Feb 2000	32	NS	3.2		NS	9.9			3.2	89	89	89	3.4	3.4	3.4	NS	NS											
Sept-Nov 1999	67	NS	22		NS	24			22	43	43	43	5.9	5.9	5.9	NS	5.2	5.2										
June-August 1999	130	NS	46		NS	31			46	33	33	33	12	12	12	NS	NS											

Notes:

d = field duplicate result

P = Pending results

NA = sample collected but not analyzed

ng/m³ = nanograms per cubic meter of air

NS = not sampled

PCB = polychlorinated biphenyl

ND = no detections (non-detect)

Sample station with gray blocking is a newer station added to the air sampling program or discontinued station (no activity).