

Table W-1
 Outfall Dry Weather Sampling
 Surface Water Results Summary
 9/25/2019

Sample Identification: Receiving Waterbody Watershed Date Sampled:	UNITS	IDDE PRIORITY SOURCE	IDDE PRIORITY STANDARD	Outfall Number					
				OF-28 Stop River Charles 9/25/2019	OF-42 Vine Brook Charles 9/25/2019	OF-73 Stop River Charles 9/25/2019	OF-85 Mill Brook Neponset 9/25/2019	OF-484 T.B.D. 9/25/2019	OF-541 T.B.D. 9/25/2019
FIELD SCREENING									
Field pH	su units	Center for Watershed Protection	> 5	6.89	6.78	7.10	7.25	7.10	6.72
Field pH	su units	Charles River TMDL	6.5 - 8.3	6.89	6.78	7.10	7.25	7.10	6.72
Temperature	°C	314 CMR 4.00 for Class B Warm Water	< 28.3	18.21	18.11	17.46	18.56	15.71	15.64
Field Specific Conductance	µs/cm °C	Center for Watershed Protection	< 2000	12.4	14.8	15.10	-5.7	-2.4	31.0
Dissolved Oxygen	%	314 CMR 4.00 for Class B Warm Water	> 43.22%	54.3%	90.30%	40.00%	71.00%	91.00%	24.00%
Dissolved Oxygen	mg/L	314 CMR 4.00 for Class B Warm Water	> 5	-	-	-	-	-	-
Turbidity	NTU			15.62	15.67	28.45	38.77	29.42	27.45
Salinity	ppt			343.0	301.0	215.0	204.0	1324.0	13.0
LABORATORY TESTING									
Ammonia as N (SM19-22 4500 NH3 C)	mg/L	EPA New England Bacterial Source Tracking Protocol	< 0.5	ND	ND	0.53	0.53	ND	ND
Chlorine, Free (SM21-22 4500 CL G)	mg/L	EPA 2018 General Permit	< 0.02	ND	ND	0.041	ND	ND	0.83
Chlorine, Residual (SM21-22 4500 CL G)	mg/L	EPA 2018 General Permit	< 0.02	ND	0.036	0.087	0.024	ND	0.59
Coliform, Fecal (SM 9223B - COLILERT)	MPN/100 mL	Neponset River TMDL	≤ 200	7.5	7.4	100	370	86	140
Coliform, Total (SM 9223B - COLILERT)	MPN/100 mL			>2419.6	2400	>2419.6	>2419.6	>2419.6	4900
Phosphorus, Total (SM 21-22 4500 P E)	mg/L	Center for Watershed Protection IDDE Guidance	0.4	ND	ND	.11	ND	ND	0.22
Total Suspended Solids (SM21-22 2540D)	mg/L			ND	2.6	27	2.4	ND	240
E. Coli (SM 9223B - COLILERT)	MPN/100 mL		< 235	14	11	140	2400	91	180
Enterococci (ENTEROLERT)	present/absent			Present	Present	Absent	Present	Absent	Present
Surfactants - Methylene blue active substances (SM5540 C-1)	mg/L	EPA New England Bacterial Source Tracking Protocol	< 0.25	0.06	0.06	0.10	0.06	0.12	0.07

Notes:

Any outfalls that are found during screening to contain one or more of the following signs of sewage contamination will automatically be re-prioritized to the top of the high priority outfalls for catchment investigation:

- √ Olfactory or visual evidence of sewage;
- √ Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, AND bacteria levels greater than the applicable water quality criteria for receiving water (235 CFU or MPN for E. coli or 61 CFU or MPN for Enterococcus); or
- √ Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L AND detectable levels of chlorine.

Table W-2
 Outfall/DMH Dry Weather Sampling
 Surface Water Results Summary
 6/26/2020

Sample Identification: Receiving Waterbody Watershed Date Sampled:	UNITS	IDDE PRIORITY SOURCE	IDDE PRIORITY STANDARD	Outfall Number			IDDE Drainage Manholes					
				OF-85 Mill Brook Neponset 6/26/2020	OF-265 Unknown Charles 6/26/2020	OF-526 Unknown Charles 6/26/2020	DMH-266 6/26/2020	DMH-267 6/26/2020	DMH-273 Mill Brook Neponset 6/26/2020	DMH-274 6/26/2020	DMH-927 6/26/2020	DMH-938 6/26/2020
FIELD SCREENING												
Field pH	su units	Center for Watershed Protection	> 5	6.57	7.49	7.66	6.61	Dry	6.06	5.70	6.59	Dry
Field pH	su units	Charles River TMDL	6.5 - 8.3	6.57	7.49	7.66	6.61	Dry	6.06	5.70	6.59	Dry
Temperature	°C	314 CMR 4.00 for Class B Warm Water	< 28.3	16.83	18.73	11.92	19.21	Dry	18.48	17.62	16.12	Dry
Field Specific Conductance	µs/cm °C	Center for Watershed Protection	< 2,000	194	258	271	215	Dry	153	151	180	Dry
Dissolved Oxygen	%	314 CMR 4.00 for Class B Warm Water	> 43.22%	74.2%	97.90%	99.20%	13.40%	Dry	51.40%	12.40%	93.20%	Dry
Dissolved Oxygen	mg/L	314 CMR 4.00 for Class B Warm Water	> 5	7.18	9.16	10.69	1.23	Dry	4.77	1.18	9.16	Dry
Turbidity	NTU			Below	Below	Below	Below	Dry	Below	Below	Below	Dry
Salinity	ppt			Below	Below	Below	Below	Dry	Below	Below	Below	Dry
LABORATORY TESTING												
Ammonia as N (SM19-22 4500 NH3 C)	mg/L	EPA New England Bacterial Source Tracking Protocol	< 0.5	0.40	ND	ND	2.10	Dry	0.40	ND	0.53	Dry
Chlorine, Free (SM21-22 4500 CL G)	mg/L	EPA 2018 General Permit	< 0.02	0.021	0.040	ND	0.400	Dry	ND	0.044	0.400	Dry
Chlorine, Residual (SM21-22 4500 CL G)	mg/L	EPA 2018 General Permit	< 0.02	0.027	0.030	ND	0.340	Dry	0.370	0.045	0.450	Dry
Coliform, Fecal (SM 9223B - COLILERT)	MPN/100 mL	Neponset River TMDL	≤ 200	15	28	ND	2,000	Dry	20	1	13	Dry
Coliform, Total (SM 9223B - COLILERT)	MPN/100 mL			2000	>2419.6	870	>2419.6	Dry	1400	1600	>2419.6	Dry
Phosphorus, Total (SM 21-22 4500 P E)	mg/L	Center for Watershed Protection IDDE Guidance	0.4	ND	0.17	ND	ND	Dry	0.46	ND	ND	Dry
Total Suspended Solids (SM21-22 2540D)	mg/L			4	ND	ND	220	Dry	360	ND	100	Dry
Turbidity (EPA 180.1)	NTU			31	1.5	ND	36	Dry	580	ND	270	Dry
E. Coli (SM 9223B - COLILERT)	MPN/100 mL		< 235	3.1	22	1.0	67	Dry	13	ND	5.1	Dry
Enterococci (ENTEROLERT)	Present/Absent			Absent	Absent	Absent	Present	Dry	Present	Absent	Absent	Dry
Salinity (SM2520B)				ND	ND	ND	ND	Dry	ND	ND	ND	Dry
Surfactants - Methylene blue active substances (SM5540 C-1)	mg/L	EPA New England Bacterial Source Tracking Protocol	< 0.25	0.09	0.05	<0.05	1.79	Dry	0.11	<0.05	0.08	Dry

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- √ Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, AND bacteria levels greater than the applicable water quality criteria for receiving water (200 CFU or MPN for E. coli or 61 CFU or MPN for Enterococcus); or
- √ Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L AND detectable levels of chlorine.

Table W-3
 Outfall/DMH Dry Weather Sampling
 Surface Water Results Summary
 6/11/2021

Sample Identification: Receiving Waterbody Watershed Date Sampled:	UNITS	IDDE PRIORITY SOURCE	IDDE PRIORITY STANDARD	Outfall Number			IDDE Drainage Manholes			
				OF-209 North Brook Charles 6/11/2021	OF-280 Unknown 6/11/2021	OF-414 Unknown 6/11/2021	DMH-262 6/11/2021	DMH-407 6/11/2021	DMH-411 6/11/2021	DMH-781 6/11/2021
FIELD SCREENING										
Field pH	su units	Center for Watershed Protection	> 5	Dry	6.96	7.50	6.81	7.17	6.96	6.35
Field pH	su units	Charles River TMDL	6.5 - 8.3	Dry	6.96	7.50	6.81	7.17	6.96	6.35
Temperature	°C	314 CMR 4.00 for Class B Warm Water	< 28.3	Dry	17.45	17.96	16.36	16.34	14.93	10.52
Field Specific Conductance	µs/cm °C	Center for Watershed Protection	< 2,000	Dry	259	352	559	949	812	214
Dissolved Oxygen	%	314 CMR 4.00 for Class B Warm Water	> 43.22%	Dry	52.5%	83.10%	86.20%	98.10%	88.70%	78.60%
Dissolved Oxygen	mg/L	314 CMR 4.00 for Class B Warm Water	> 5	Dry	>5	7.86	8.43	9.59	8.92	8.71
Turbidity	NTU			Dry	0.00	3.48	1.60	2.85	2.12	0.00
LABORATORY TESTING										
Ammonia as N (SM19-22 4500 NH3 C)	mg/L	EPA New England Bacterial Source Tracking Protocol	< 0.5	Dry	0.53	ND	ND	ND	ND	ND
Chlorine, Free (SM21-22 4500 CL G)	mg/L	EPA 2018 General Permit	< 0.02	Dry	NT	NT	NT	NT	NT	NT
Chlorine, Residual (SM21-22 4500 CL G)	mg/L	EPA 2018 General Permit	< 0.02	Dry	ND	ND	ND	ND	ND	ND
Coliform, Fecal (SM 9223B - COLILERT)	MPN/100 mL	Neponset River TMDL	≤ 200	Dry	3.1	6.3	50	66	60	ND
Coliform, Total (SM 9223B - COLILERT)	MPN/100 mL			Dry	670	550	1,000	1,000	1,000	ND
Phosphorus, Total (SM 21-22 4500 P E)	mg/L	Center for Watershed Protection IDDE Guidance	0.4	Dry	ND	0.14	0.092	ND	ND	ND
Total Suspended Solids (SM21-22 2540D)	mg/L			Dry	ND	4.4	6.4	1.20	5.6	1.00
Turbidity (EPA 180.1)	NTU			Dry	NT	NT	NT	NT	NT	NT
E. Coli (SM 9223B - COLILERT)	MPN/100 mL		< 235	Dry	6.3	1.0	21.0	30.0	2.0	NT
Enterococci (ENTEROLERT)	Present/Absent			Dry	Absent	Absent	Present	Present	Present	Absent
Salinity (SM2520B)				Dry	ND	ND	ND	ND	ND	ND
Surfactants - Methylene blue active substances (SM5540 C-1)	mg/L	EPA New England Bacterial Source Tracking Protocol	< 0.25	Dry	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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- √ Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L AND detectable levels of chlorine.